GEDORE

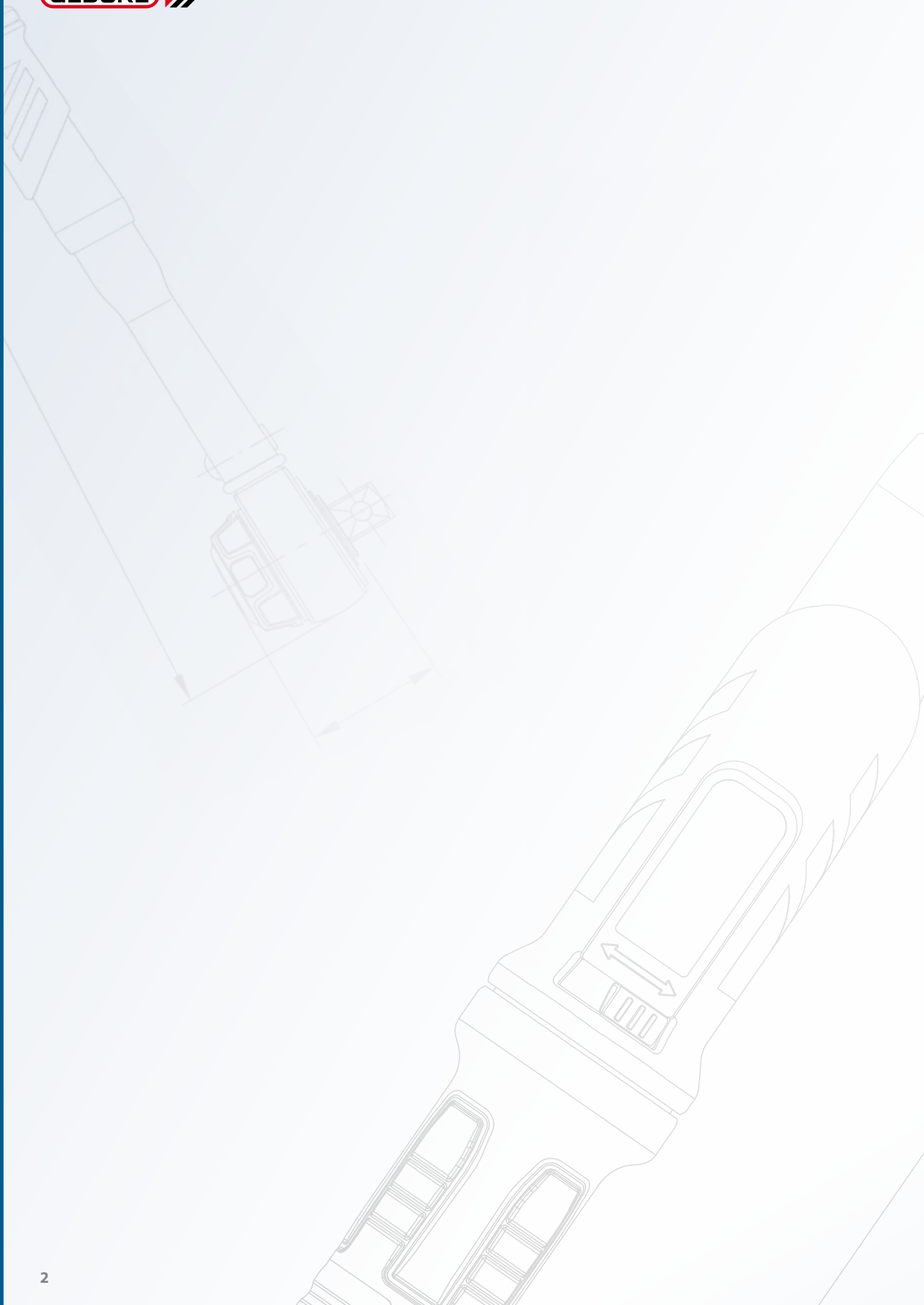
Werkzeuge fürs Leben · *Tools for life*

CATALOGUE 2012

# CATALOGUE

GEDORE

2012



## Performance for the future

**When working in challenging environments you need to have the best tools for the job:
GEDORE offers durable and safe "tools for life"!**

**Dear customers and users of GEDORE tools,**

GEDORE tools are our life. We design, produce and sell tools of outstanding quality with a good price/performance ratio.
The durability, reliability and precision offered by our products guarantees the protection of man and machine/material - with your safety in mind.

The new 2012 price catalogue includes many new products and information on our GEDORE world, a summary of which we would like to present to you over the next few pages. I would particularly like to emphasis our technical developments in the area of mechanical torque wrenches and torque multipliers. Wherever extreme forces prevail, reliable tools are vital. Our torque experts have done some excellent work in this area and not only in terms of looks - they have also created brilliant functional products "Made in Germany". But why not take a look for yourself!

From a Premium Company. With good reason. GEDORE.

Sincerely, Karen Dowidat

K. Dowidat

Volker Ebbinghaus Udo Hehemann Karen Dowidat Dirk Berg

# From a Premium Company. With good reason. GEDORE.

## Made in GERMANY

GEDORE is proud that the biggest part of the product range has been manufactured at the 6 German production locations since the company was established in 1919.
Foreign production plants have adopted GEDORE quality requirements and manufacture exclusively for their local markets.
We value our traditional locations in the Bergisch Land region of Germany and are committed to Germany as a manufacturing location.
In our strong group of companies, we combine global thinking and local market knowledge into effective market strategies.tions.

+ Mobile workbench extra width

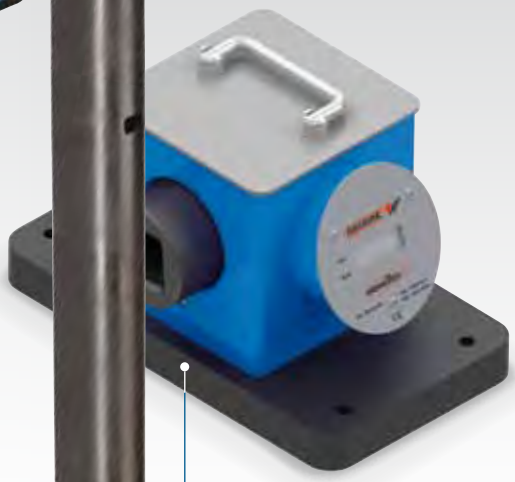
36

+ Hexagon Allen key with 2C-T-handle for in-hex screws

161 – 162

+ Sledge hammer with rubber grip and steel tube handle

486 – 488



+ Electronic torque tester DREMOTEST E 0.2-3150 N·m / 1.8 lbf·in - 2323 lbf·ft

302



+ Universal puller hydraulic, 3-arm pattern, rigid legs with leg brake

424



+ VDE Hexagon Allen key with T-handle for in-hex screws

560

Pipe wrench S
577
Torque wrench
DREMASTER K / UK 20-850 N·m /
15 - 630 lbf·ft
274 - 277
Socket set Hi-Lok®
1/4"-3/8"
189
SK Ratchet
204
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398
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394
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DREMOPLUS ALU
331, 320 - 335

# From a Premium Company. With good reason. GEDORE.

## Our values

## Quality

Everywhere in the world, the "Made in Germany" quality label continues to symbolise reliability, safety, innovation and durability - core values in the GEDORE Group. We employ 3,000 people worldwide, including around 600 people at our main plant in Remscheid, in pursuance of these values.

- Intelligent design, quality steel, painstaking craftsmanship by experienced, skilled employees and the resulting durability are the secrets of GEDORE production.
- Our production is characterised by extensive expertise, rigorous quality control and continuous research and development. In this way, we create innovative products and are continuously improving traditional tools to meet contemporary needs by consistently applying the findings from the latest scientific research.
- We are committed to the requirements of DIN and ISO standards, which we exceed.
- Manufacturing competence with a large number of our own patents and German utility patents.

## Service

- Our customers can always rely on premium service and delivery quality from a single source.
- As a medium-size, family-owned company, we are flexible, fast and reliable.
- Certification to DIN standards: customer-orientated and efficient processes in compliance with the latest directives.
- A state-of-the-art central warehouse supplies all GEDORE brands from a single source.
- Custom tool manufacture on customer request.
- Our skilled specialists are your contacts and experts in your field of applications.
- Consistent support by our back office and field service, wherever you are. You always have a contact who responds to your needs.

## Teamwork

As one of the world's largest tool manufacturers, we maintain a global network with representative offices in more than 70 countries.
Strong member companies make the GEDORE Group into what it has become today: an efficient partner in the tool industry.

- Every member of the GEDORE Group lives the GEDORE philosophy and combines global thinking with local market knowledge into effective market strategies.
- We cooperate reliably and in a spirit of trust with the best suppliers.
- In conjunction with specialist dealers, we fire the imagination of discerning customers worldwide. Long-lasting cooperative relationships are extremely important to us.
- Our skilled, committed employees enjoy working for GEDORE. We train young people and offer them good prospects.
- We provide regular tool training sessions for our customers and our employees to promote effective use and successful sales.

## Environment

A sustainable policy with regard to air, ground and water is a matter of course in the GEDORE Group, because we see this as our social responsibility - worldwide.
Germany can be promoted as a production location in the long term only if we conserve the natural resources for future generations. Keeping air, ground and water free from pollution takes top priority for GEDORE.

- Closed-loop water and chemical circulation systems in electroplating.
- Waste-water-free barrel finishing in centrifuges.
- Low-emissions energy supply in the forge.
- Environmentally-friendly powder coating using a material recycling system.
- Professional, separated disposal of waste products by an authorised disposal operator in accordance with current legislation.

## Made in GERMANY

GEDORE is proud that the biggest part of the product range has been manufactured at the 6 German production locations since the company was established in 1919.
Foreign production plants have adopted GEDORE quality requirements and manufacture exclusively for their local markets.

- We value our traditional locations in the Bergisch Land region of Germany and are committed to Germany as a manufacturing location.
- In our strong group of companies, we combine global thinking and local market knowledge into effective market strategies.tions.

# What drives us and what moves us

## People at GEDORE

**GEDORE emphasizes quality, expertise, effectiveness and reliability. To maintain this, we invest continuously in production technology and development in our region. But even with leading-edge production technology, nothing at GEDORE takes priority over the care, precision, craftsmanship and experience of well-qualified employees. The quality concept, "Made in Germany", stands above all for the skill, loyalty and commitment of our employees.**

### Wolfgang Etmanski,
*Director R&D:*

Our products are constantly subjected to change - even if you can't see it. We have been producing quality tools for almost 100 years. There's a simple reason why GEDORE products enjoy such international success: if we are able to improve and develop something - we do. For our customers, this means that they can always rely on the optimum material features, perfect ergonomics, maximum safety and long service lives associated with GEDORE tools.

### Ingo Hämmerling,
*Director Quality Management:*

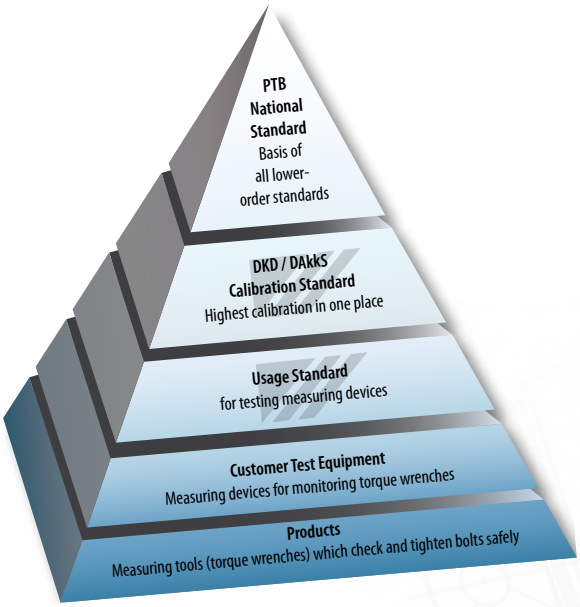
Our production methods take consideration of the specific properties of the materials used in order to achieve the maximum practical value possible. Whether in forging, curing, reaming, grinding, deburring, spot welding or surface treatment. Our "tested" interim and final results are impressive: absolute reliability and accuracy, minimum tolerances above the most common DIN and ISO standards, durability and perfect ergonomics. GEDORE – Tools for life

### Michael Witte,
*Director Special Machine Engineering:*

It's not always possible to buy the machines on which we make top-quality tools so we have designed and built them ourselves. But despite state-of-the-art production technology, nothing is possible at GEDORE without the care, precision, manual skill and experience of well-trained employees. That's how we make good tools.

### Eckhard Mohr,
*Director Die Construction:*

We produce tools of outstanding quality. They are ergonomic, extremely dimensionally-stable, powerful, safe and durable. You can rely on that. Our contribution towards the value-added chain is to provide CNC-milled dies of maximum accuracy. The basis for all of the subsequent production steps. Whatever we do: the result is perfectly skilled work down to very last detail and this is something we pass on to our younger colleagues, the future generation, every day.



## Dietmar Haubs,
### *Director Technical Design Office:*

We process steel as a raw material in various ways resulting in more than 10,000 different products: from the drop forge for our hand tools to cold-rolled, deep-drawn sheet steel for the famous GEDORE workshop trolleys. Everything we do is catered for in-company: research and design, construction, tool and special machine engineering, CNC-controlled production, electroplating and permanent quality assurance. A strong team performance!

## Stefan Baus,
### *Director DKD Laboratory:*

Technological competence which can be comprehensively tracked to the highest national standard: this is the supreme discipline. We know what we're doing and can guarantee you controlled safety and competence as regards GEDORE torque tools. Regular test intervals using veritable testing equipment, to plant or DKD guidelines as required, for all torque tools are fundamental for valid and reliable results as well as safe applications - every single day.

## Bodo Reiprich,
### *Director Forge:*

The art of forging is processing steel to perfection and under extreme conditions. Experience, care and strength are required by the men operating the forging hammer to ensure reliable and consistent quality in permanent and extreme heat while doing a tough physical job. No problem for us! We get the best material into shape and feel the heartbeat of GEDORE every single day - a wonderful feeling!

## Hermann Fischer,
### *Director Electroplating:*

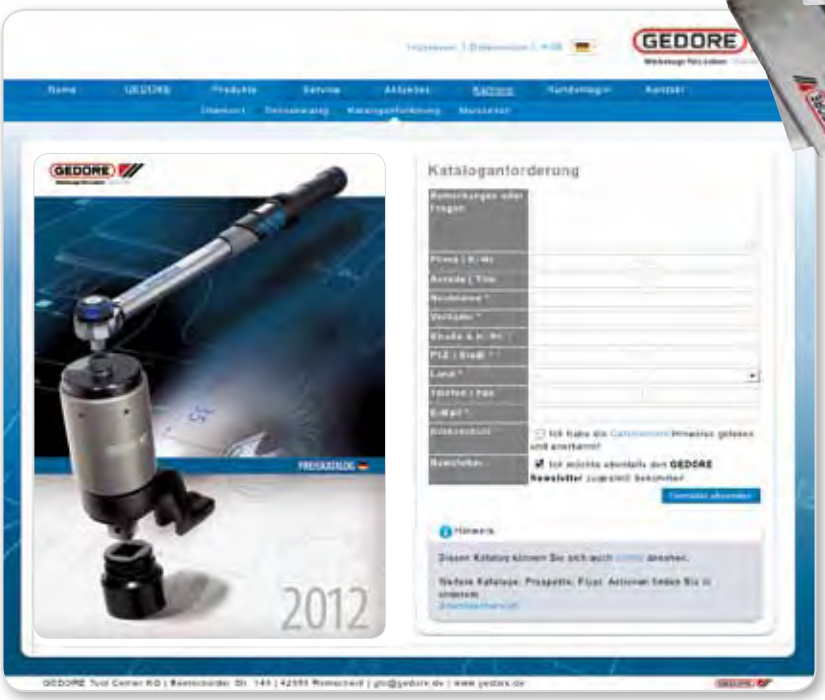
A good protective layer is of ultimate importance - for people, cars or even tools. Using these refinement processes, we attribute our tools the protective armour they need "outside" - in closed water and chemical circuits. Thus well-equipped, GEDORE tools are transferred to the warehouse after testing where they wait until they are required.

# Subscribe to the GEDORE Newsletter at

## www.gedore.com …

**Do you know about our individual catalogues... ?**

GEDORE
OCHSENKOPF
KLANN



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# Technical Symbols

| | |
|---|---|
| g | Weight (total) |
| kg | Weight (total) |
| kg | Weight (total) |
| kg | Weight hammer head |
| mm | Length (total) |
| mm | Length (total) |
| L" | Length (total) |
| | Length (total) |
| mm | Length of blade |
| | Length of blade |
| mm | Length of shaft / handle |
| mm | Length of point / blade |
| ∅ mm | Diameter (also dia. of head, of shaft, of points) |
| ∅ "inch | Diameter |
| ∅ "AF | Diameter |
| mm "inch | Diameter of hole (external) |
| mm "inch | Diameter of hole (internal) |
| mm | Width across flats (Nominal Width) |
| mm | Width across flats (Nominal Width) |
| "AF | Width across flats (Nominal Width) |
| mm | Width across flats (Nominal Width) |
| "AF | Width across flats (Nominal Width) |
| Whitw. | Width across flats (Nominal Width) |
| mm | Width across flats (Nominal Width) |
| mm | Width across flats (Nominal Width) |
| mm | Width across flats (Nominal Width) |
| M | Thread size, connection thread |
| M | Screw dimension (type of thread) |

| | |
|---|---|
| Z-94 | Ratchet used |
| U-2 | Ratchet used |
| U-3 | Ratchet used |
| U-10 | Ratchet used |
| U-20 | Ratchet used |
| 6,3 1/4" | |
| 10 3/8" | |
| 12,5 1/2" | Square drive (internal) |
| 20 3/4" | |
| 25 1" | |
| 6,3 1/4" | |
| 10 3/8" | |
| 12,5 1/2" | Square drive (external) |
| 20 3/4" | |
| 25 1" | |
| 4 | |
| 6,3 1/4" | Hexagon drive (internal) |
| 8 5/16" | |
| 4 | |
| 6,3 1/4" | Hexagon drive (internal) |
| 8 5/16" | |
| | Puller |
| | Clamping spread |
| | Clamping reach |
| | Size of spindle |
| | Hydraulic spindle |
| | Depth of opening / overhang |
| | Depth of opening / Clamping width / Clamping range |

| | |
|---|---|
| | Drive sections |
| | Slotted |
| | Cross-slotted PH |
| | Cross-slotted PZ |
| | Internal square |
| | External hexagon |
| | External hexagon with tamper proof hole |
| | Internal single hexagon |
| | Bi-hexagon |
| UNIDRIVE | Unit Drive |
| UNIDRIVE | Unit Drive |
| UD | Unit Drive |
| | Internal-TORX® |
| | Internal TORX® with pilot |
| | External TORX® |
| | Internal serrations XZN |
| | Multi-spline RIBE® |
| 6-k | Hexagon |
| 12-k | Bi-hexagon |
| ∅mm² | Cutting edge thickness |
| mm | Jaw width / tape width |
| mm | Head width |
| CE | Conformity with EU guidelines |
| | VDE Test Symbol (Tools) |
| 1000 V | For working in voltage areas up to 1000 V |
| 1000 V | VDE Test Symbol |

Wire rope

Gripping face cross-hatched

Gripping face without file-cut

Gripping face with file-cut

Jaws, angled 45°

Flat jaws

Flat-round jaws

Round jaws

Straight jaws

Flat-round jaws

Round jaws

Cutting edge with bevel

Cutting edge without bevel

Straight jaws

Angled jaws 45°

Angled jaws 90°

Internal retaining rings

External retaining rings

EPA / ESD, electrostatic discharge

Electronic

File profile flat

File profile three-edged

File profile round

File profile half-round

File profile square

Central locking

Cylinder lock

Cylinder lock with folding key

Blade / Cutting edge width

Blade thickness

Gear ratio

Output torque (max. N·m)

Input torque (max. N·m)

Scale divisions

Single square drive

Double square drive

Drive connector

Spigot-end drive

in cardboard or plastic packaging

in sheet metal box

Set in sheet metal or plastic box

Head width

Distance, hole to edge

GS Seal of tested quality

Magnetic

Radius

new

Packaging unit

Drawer

Door

Shelf

Pivoting angle

Angle

Weld-on end fitting

End fitting with hexagon wrench

Open end fitting

Flared end fitting

Ring end fitting

End fitting with square head

Bit holder end fitting

Ratchet end fitting

Anti-wind-up-ratchet

Factory certificate

Visual display digital

RS 232 interface

Bi-directional tightening

Audible reaction (click)

Mechanical torque multiplier

Integrated electronic hardware

DREMOMETER MINI-F operable w/o inaccuracies

1% Tolerance

3% Tolerance

4% Tolerance

6% Tolerance

Extension with release

Release head

Click Tools

Slipping Tools

Breaking Tools

P. O. A. Price on application / Price and delivery time on application

GEDORE
GEDORE 1504 XL

## Mobile Storage + Tool Control


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TOOL ASSORTMENTS MODULES

**for workshop equipment, tool trolleys, cases, etc.**

62 – 115

# Workshop Equipment

## GEDORE workshop furniture...

## Best-possible quality for the highest demands placed

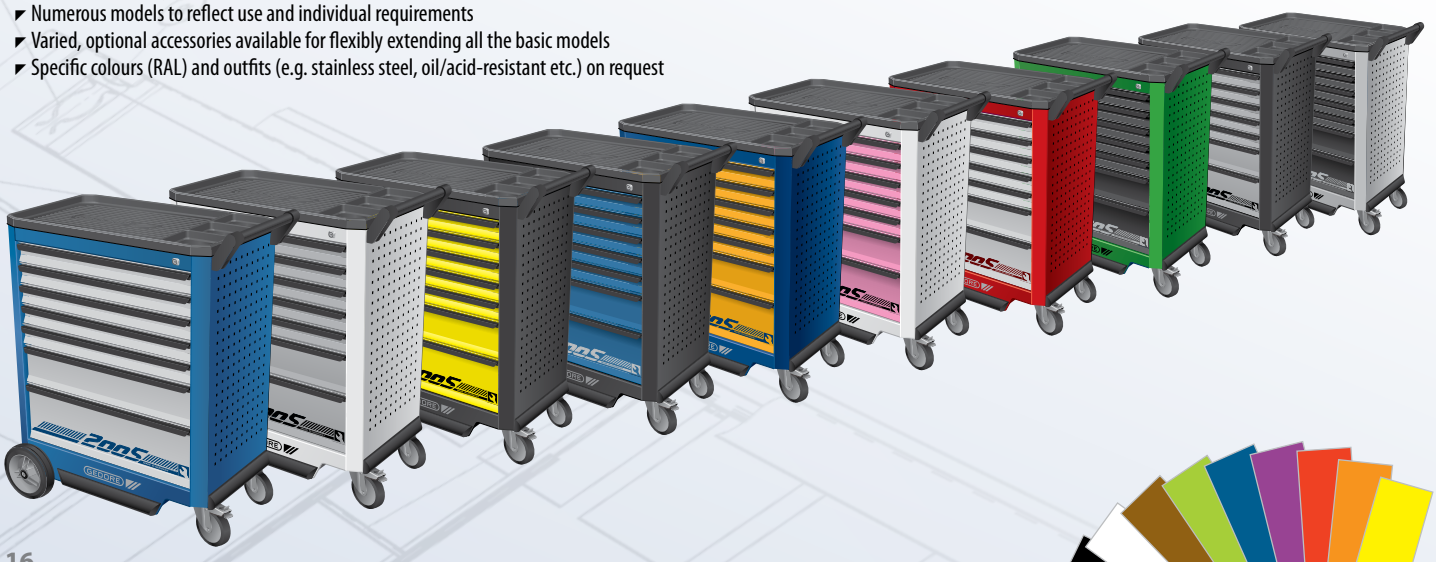
- Use of the most up-to-date machinery and environmentally-friendly production processes
- The basis is tightly-controlled and choice sheet steel
- Experienced and reliable specialists vouch for precision-like processing
- Stringent quality checks after each production step ensure a constantly high level
- Best-possible industrial quality for those extreme levels of constant use and conditions subjected to
- Professional service up to the development of special customised tools

## Intelligently designed - dependable under extreme use

- Vertical and horizontal forces are calculated with precision
- Unloaded weight optimisation from a finely-tuned material input
- Robust, stable 0.88 mm thick sheet steel structure, supporting elements of a 1.00 mm metal thickness, a 2.00mm metal thickness for the heavy-duty chassis
- Precision spot welding ensures components stay permanently fixed
- Tool trolleys have it all with their special GEDORE chassis and GEDORE heavy-duty wheels
- Durable and highly resilient with stability of the highest-order

## Form and function perfection

- Whether mobile or stationary: indispensable aids, in fact, for the rough-and-ready of workshop routine
- Extremely robust, scratch and impact-resistant, corrosion-proof and easy to care for
- Durable and highly resilient with stability of the highest-order
- Numerous models to reflect use and individual requirements
- Varied, optional accessories available for flexibly extending all the basic models
- Specific colours (RAL) and outfits (e.g. stainless steel, oil/acid-resistant etc.) on request



# Workshop Equipment

## Tidy look, uncluttered and always at hand

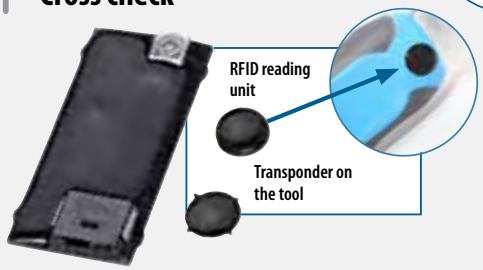
- Ready to be used straight after delivery: simply unpack and screw on the manoeuvring handle
- Whether a mobile or stationary guardian of tidiness: each tool has its own place here
- Modular arrangement systems make daily routine that much easier (visual check/tool missing)
- Compact tool assortments make selection easier
- Customised equipment/tool sets in module systems and/or trolleys/benches in company design/colours

## RFID technology

**RFID tagged tools electronic control**

**CHECK-TOOL insert visual control**

## Cross check




**Upon request all tool trolleys 2004, 2005 and benches 1504, 1504 XL, 1506 XL, 2430 can be equipped with the RFID system.**

**Contact:**
**gedore-solutions@gedore.com**

## RFID-Check-Tool-System

- A complete check via RFID technology (**R**adio **F**requency **Id**entification) and additionally with 2 coloured plastic inlays.
- Particularly suited for work in sensitive areas, in which it must be assured that no tools are left behind.
- Missing tools would be signaled by Bluetooth® or USB (Universal Serial Bus) on a display of your choice. PC, Palm, or Pocket PC are possible.
- Every tool is supplied with a transponder (tag), which via the internal UID number (Unique Identifier) is worldwide clearly identifiable.
- Also the tool trolley/tool box can be clearly identified.
- The passive transponder changes the characteristics of the electromagnetic waves reading unit. Passive transponders do not send out any electromagnetic waves.
- The RFID reading unit registers the identification of the missing tool on the chosen display. Missing tools will be reassigned to the user.
- The system works with 13,56 MHz in short wave range.
- The outreach of the system is limited to a maximum of 10 mm.
- Tools which have been put aside will first be entered when they have been placed in their nest. To interchange or to mix up is therefore impossible.
- Resistant against interference radiation. The tool trolley works like a Faraday cage and shields other electromagnetic radiation.
- Splashproof.
- The area of activity of the transponder is from -20 to +100° C
- The RFID reader unit is operated with a refill rechargeable accumulator. "Warning for empty battery"

## Options:

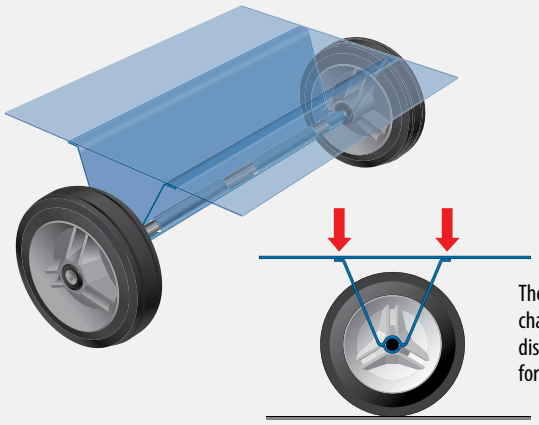
- Data interface: W-LAN : LAN : Bluetooth UHF transponder
- Individual software programming
- Electronic lock (consisting of: 3x user key, 1x administrator key, 3x user key transponder
- 2-colour LEDs for optical check

## The GEDORE chassis

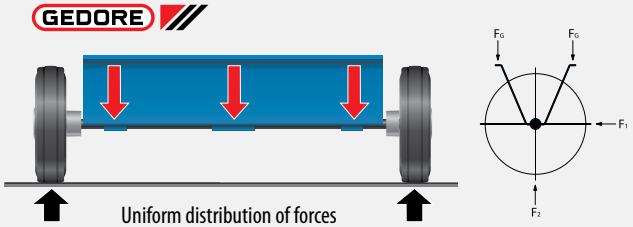
(Not applicable to no. 1505)

1

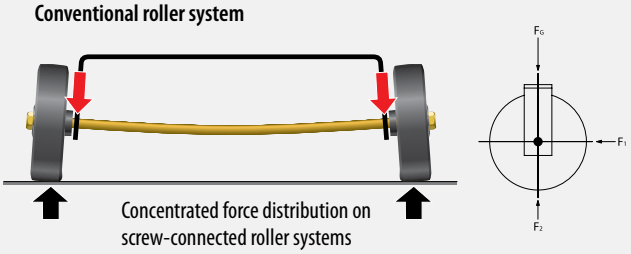
- The axle is mounted on triple bearings and is securely connected to the trapezoid.
- The third, central bearing prevents the axle bending under load.
- The special axle design ensures that the GEDORE high-performance rollers **always** roll on the full faces of their treads.
- Even under full load, the rollers retain their smooth running properties and cannot shed their tyres.
- Vertical and horizontal forces are absorbed by the positive-fit trapezoidal design.
- The forces acting on the roller base are uniformly distributed and do not result in any damage to the mobile tool chest or workbench.
- The absence of protruding bolts and nuts reduces the risk of injury to a minimum.



The trapezoidal GEDORE chassis uniformly distributes the applied forces.




**Conventional roller system**



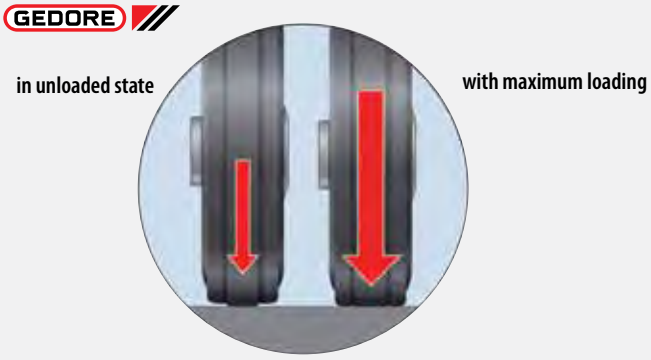

## Smooth running and high-performance wheels

2

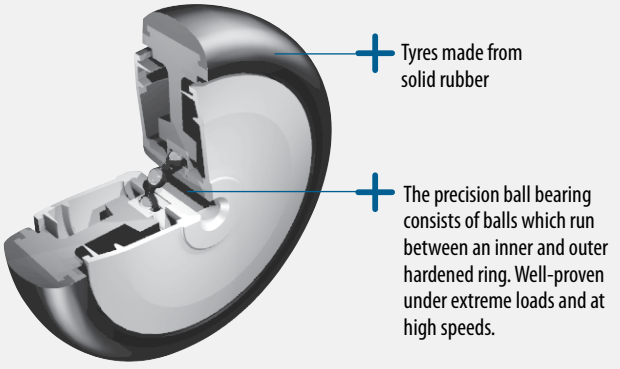
The GEDORE smooth running and high-performance wheels keep, even under maximum load, the following features: Smooth running, track-keeping and manoeuvrability!

On conventional industrial wheels, there is a visible and perceptible change in handling under maximum loading. The high rolling resistance makes it almost impossible to move the mobile equipment when fully loaded. There is an increased risk of the tyre parting from the wheel, which could lead to an accident!

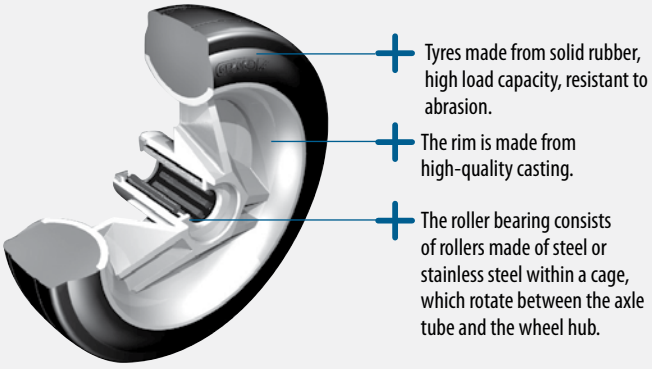
GEDORE

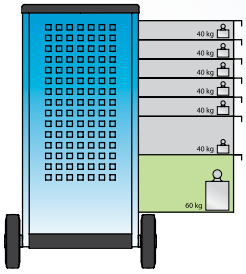


**Smooth running wheel**




**High-performance wheel**






## Load capacity

- The load capacity of the drawers is 40 kg
- Models 2004, 2005, 1502, 1504, 1504 XL, 1506 XL: The bottom drawer is designed as heavy-duty drawer, load capacity 60 kg

## Individual drawer locking

- In addition to the central locking, each drawer has its own separate latch to prevent unwanted opening, when being moved
- The latch is automatically released by a tilting bar when the drawer is opened
- The single latch automatically engages when the drawer closes

## Central locking

- One central lock for all drawers and doors
- Safe and easy handling

## Square perforation 9 x 33 mm

- The square perforation in the side walls enable quick access to frequently used tools
- GEDORE holders and trays are simply clipped in

## Ball-bearing drawer slides

- The ball-bearing drawer slides ensure safe and easy sliding of the drawers, even when loaded to full capacity
- Full extension improves access

## Powder coating

- GEDORIT blue and GEDORIT silver are the short names for the two types of powder paint, specially developed for GEDORE
- This coating method guarantees a high level of corrosion protection, combined with tough scratch resistance
- Powder coating is kind on the environment. Unused powder is reclaimed in the plant. No solvent is used
- Special colours available on request

## Heel protection

- All-round heel protection by rounded edges on the underside allows the tool trolley or workbench to be safely pulled or pushed

## Impact protection

- The vertical or horizontal impact protection protects the tool trolley and anything it comes into contact with from damage
- It also protects other equipment in the workshop or vehicles from inadvertent contact

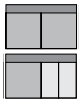
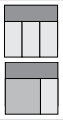
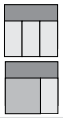
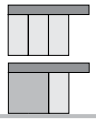
## Total braking system

- Prevents unwanted movement and turning of the wheel
- Ensures safe parking of the tool trolley or workbench

GEDORIT blue

GEDORIT silver

# Selection aid - tool trolleys

| Type / Pattern | Trolley body | | | | | | Chassis | | | | Drawers | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Height (mm) | Load capacity (kg) | Central locking system | ABS working platform with compart-ments / protective edge | Impact protec-tion | for car boot trans-portation | Wide-track chassis / heavy-duty (S) | GEDORE heavy-duty wheels | 2x fixed castors (mm) | 2x swivel castors (mm) incl. 1x total brake | Number | extendable to both sides | Max. load capacity per drawer (kg) | Single safeguard | fully extend-able | Drawer volume Compatibility - modules |
| 2005 | 985 | 500 | ● | ● | ● | | S | ● | 200 | 125 | 6 - 10 | | 40/60 | ● | ● |  |
| 2004 | 985 | 500 | ● | ● | ● | | S | ● | 200 | 125 | 5 - 10 | | 40/60 | ● | ● |  |
| 3000 | 920 | 400 | ● | ● | ● | | B | ● | 200 | 125 | 7 | | 40 | ● | ● |  |
| 2545 | 955 | 330 | ● | ● | ● | | | ● | 200 | 125 | 7 | | 35 | ● | ● |  |
| 2525 | 965 | 330 | ● | ● | ● | | | ● | 140 | 100 | 7 | | 40 | ● | ● | |
| 2535 | 965 | 250 | ● | ● | ● | ● | | ● | 140 | 100 | 4 plus storage compart-ment | | 40 | ● | ● | |
| 1585 | 1060 | 300 | ● | ● | ● | ● | | ● | 140 | 100 | 6 | | 40 | ● | ● | |
| 3010 | 900 | 120/220 | ● | ● | ● | ● | | ● | 140 | 100 | 3 plus storage compart-ment | ● | 20 | | | |
| 2000 | 930 | 300 | ● | ● | ● | | B | ● | 140 | 100 | 5 plus storage compart-ment | ● | 20 | | | |
| 2500 | 960 | 300 | ● | ● | ● | | B | ● | 140 | 100 | 8 | | 40 | ● | ● | |
| 1580 | 930 | 300 | ● | ● | ● | | | ● | 140 | 100 | 4 plus storage compart-ment | ● | 20 | | | |
| 1578 | 930 | 200 | ● | ● | ● | | | ● | 140 | 100 | 6 | ● | 20 | | | |

# Selection aid - work benches

| Type / Pattern | Body | | | | | | | Storage space | | | Drawers | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Height (mm) | with chassis - mobile | Mobile load capacity (kg) | Static load capacity (kg) | Central locking system | Wooden worktop (mm) | Heel protection edge | Wide-track chassis / heavy-duty (S) | Storage compartment with door / storage compartment open (o) | including the back | Number | Max. load capacity per drawer (kg) | Single safeguard | fully extendable | Drawer volume Compatibility - modules |
| **mobile** | | | | | | | | | | | | | | | |
| 1505 | 900 | ● | 500 | 1000 | ● | 40 | ● | S | ● | | 5 | 40 | ● | | |
| 1504 | 985 | ● | 500 | 700 | ● | 30 | ● | S | ● | | 6 - 10 | 40/60 | ● | ● | |
| 1504 XL | 985 | ● | 500 | 700 | ● | 30 | ● | S | ● | | 7 ( 6+1XL) | 40/60 | ● | ● | |
| BR 1504 | 985 | ● | 500 | 700 | ● | 30 | ● | S | ● | ● | 7 | 40/60 | ● | ● | |
| 1502 | 870 | ● | 500 | 700 | ● | 25 | ● | | (o) open | | 6 | 40 | ● | ● | |
| 1506 XL | 985 | ● | 500 | 700 | ● | 30 | ● | S | | | 12 - 20 | 40/60 | ● | ● | 2 x |
| **stationary** | | | | | | | | | | | | | | | |
| BR 1500 LH | 900 | | | 1000 | ● | 40 | ● | | ● | ● | 5 | 40 | ● | ● | |
| B 1500 L | 900 | | | 1000 | ● | 40 | ● | | ● | | 5 | 40 | ● | ● | |
| B 1512 | 840 | | | 300 | ● | 40 | | | | | 0 - 4 | 75 | ● | ● | |
| B 1513 | 840 | | | 300 | ● | 40 | | | | | 0 - 4 | 75 | ● | ● | |
| B 1525 | 810 | | | 500 | | ● | | | | | | | | | |

## ES modules

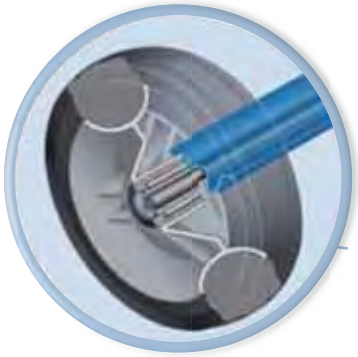
## CT modules

98 – 115

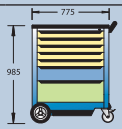
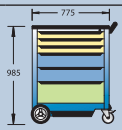
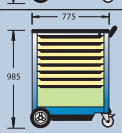
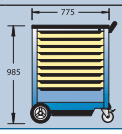
## 2005

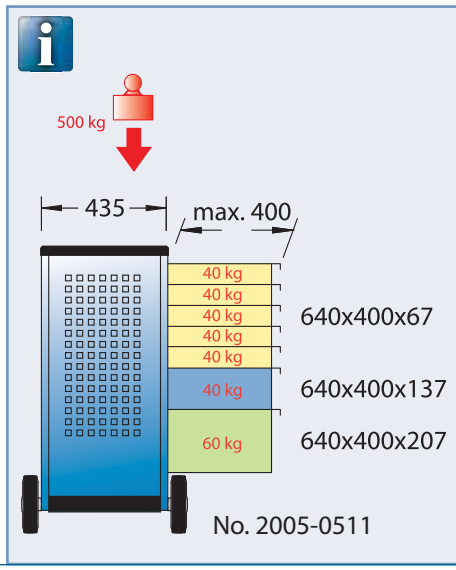
### TOOL TROLLEY

- Working platform in ABS with 3 compartments for small parts
- With handle for easy pushing, pulling and turning
- Wide drawers (W 640 x D 400 mm)
- Drawers fully extendable, removable
- Single-hand operation with safety locking which prevents the drawers from opening when in motion
- Ball bearings
- Drawers individually partitionable, delivery includes length- (LD) and crosswise dividers (CD), see table
- Please order distance module 1500 ED-70 XL for fixing the modules
- Bottom drawer designed as heavy-duty drawer
- Load capacity per drawer 40 kg, bottom heavy-duty drawer 60 kg
- Both side walls with square perforation to fix torque wrenches or other long tools and accessories
- Central locking with cylinder lock
- Heel protection and all-round impact protection
- GEDORE heavy-duty chassis with high-performance wheels on roller bearings, with 2 fixed castors Ø 200 mm and 2 swivel castors Ø 125 mm, one with total brake
- Total load capacity 500 kg
- Dimensions: H 985 x W 775 x D 435 mm
- In GEDORIT blue, drawers GEDORIT silver, top black
- Delivery without tools and accessories
- Optional accessories: Tool chest 2430, rear panel R 2004 L, RT 2004 L or RB 2004 L, Wood plate 2004 HP
- Further drawer combinations on request



LD = Lengthwise dividers, CD = Crosswise dividers

| Code | | No. | | H | W | D | LD | CD | |
|---|---|---|---|---|---|---|---|---|---|
| 1803018 |  | **2005 0511** | 5x type 1, H = 67 mm<br>1x type 2, H = 137 mm<br>1x type 3, H = 207 mm | 985 | 775 | 435 | 10x | 2x | 93.0 |
| 2003546 |  | **2005 0321** | 3x type 1, H = 67 mm<br>2x type 2, H = 137 mm<br>1x type 3, H = 207 mm | 985 | 775 | 435 | 6x | 2x | 89.0 |
| 2003554 |  | **2005 0701** | 7x type 1, H = 67 mm<br>1x type 3, H = 207 mm | 985 | 775 | 435 | 10x | 2x | 92.0 |
| 2003562 |  | **2005 0810** | 8x type 1, H = 67 mm<br>1x type 2, H = 137 mm | 985 | 775 | 435 | 15x | 3x | 99.0 |





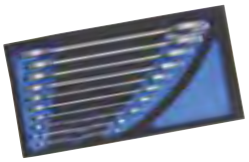

Quantities in packs may vary.

## Optional accessories

### 2004 HP

34

### 1500 ES • 1500 CT



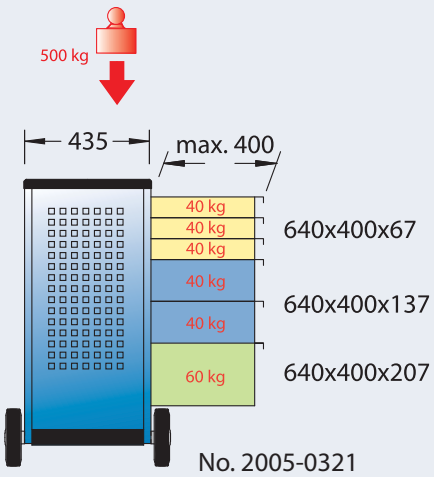
98 – 115

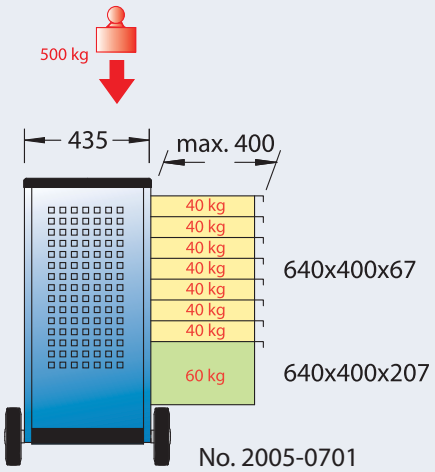
### 2430

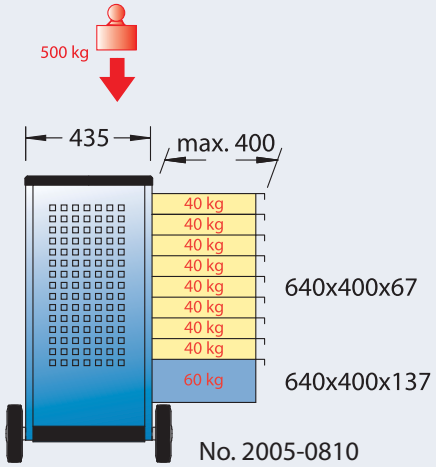
35

### RB 2004 L

34



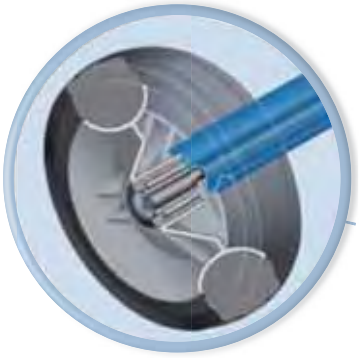




Quantities in packs may vary.

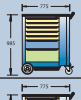
## 2004

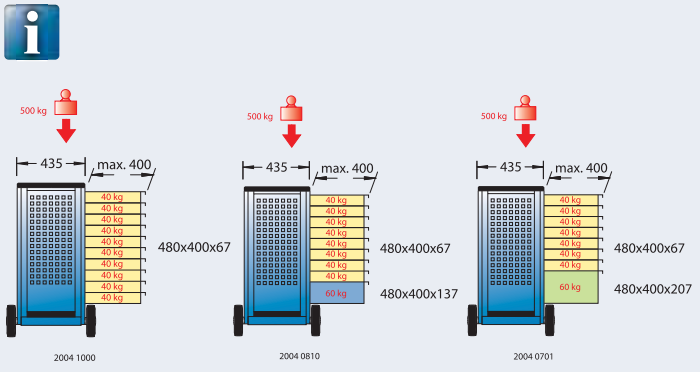
### TOOL TROLLEY

- Working platform in ABS with 3 compartments for small parts
- With handle for easy pushing, pulling and turning
- Drawers fully extendable, removable
- Single-hand operation with safety locking which prevents the drawers from opening when in motion
- Ball bearings
- Drawers individually partitionable, delivery includes length- (LD) and crosswise dividers (CD), see table
- Bottom drawer designed as heavy-duty drawer
- Load capacity per drawer 40 kg, bottom heavy-duty drawer 60 kg (apart from 2004 1000)
- Storage compartment on the handle side with perforated sheet 9 x 33 mm to fix accessories
- Compartment door lockable with central locking
- Four removable drawers for small parts
- Central locking with cylinder lock
- Heel protection and all-round impact protection
- GEDORE heavy-duty chassis with high-performance wheels on roller bearings, with 2 fixed castors Ø 200 mm and 2 swivel castors Ø 125 mm, one with total brake
- Total load capacity 500 kg
- Dimensions: H 985 x W 775 x D 435 mm
- In GEDORIT blue, drawers GEDORIT silver, top black
- Delivery without tools and accessories
- Optional accessories: Tool chest 2430, Rear panel R 2004 L, RT 2004 L or RB 2004 L, Wood plate 2004 HP
- Further drawer combinations on request



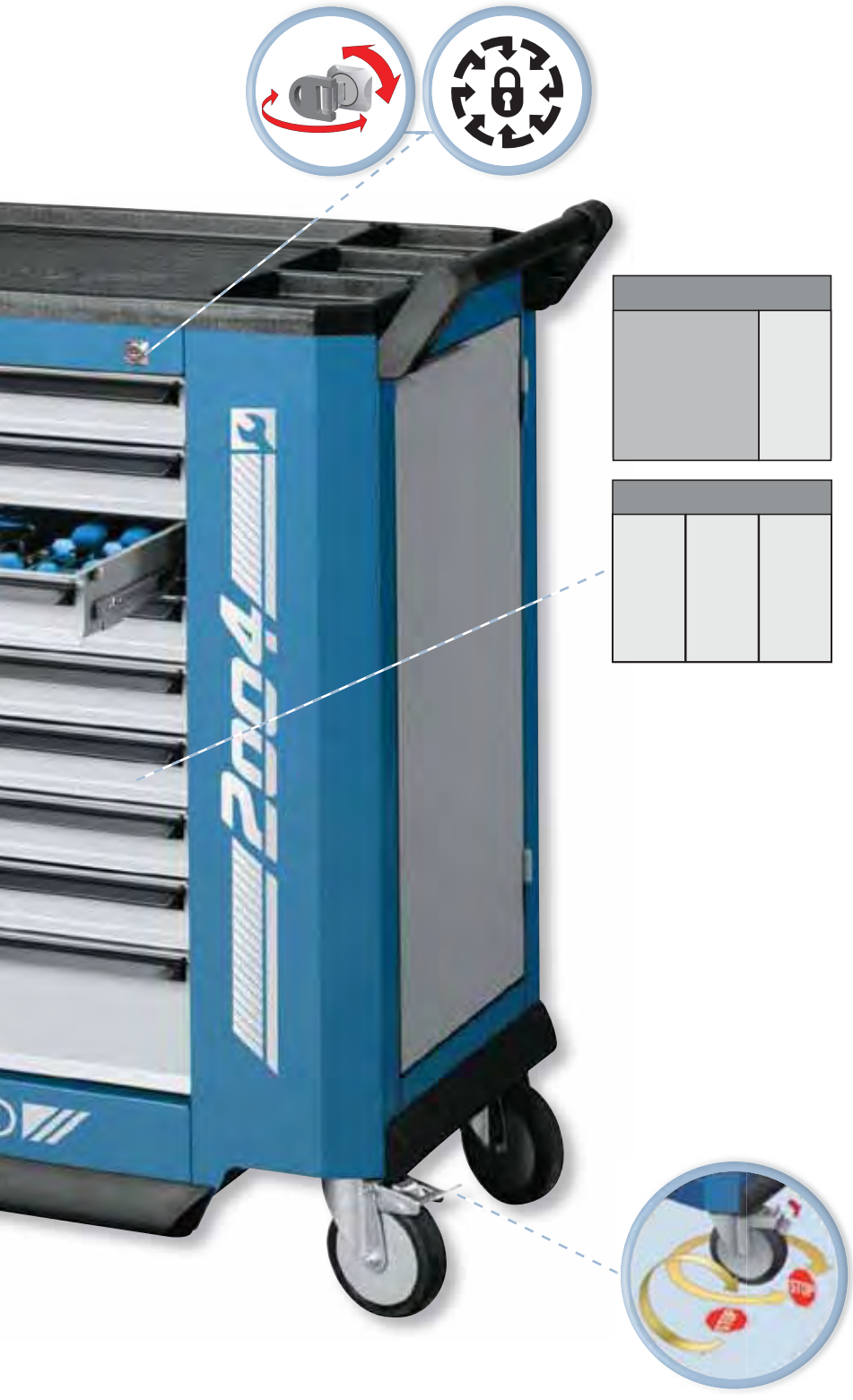
LD = Lengthwise dividers, CD = Crosswise dividers

| Code | | No. | | H | W | D | LD | CD | |
|---|---|---|---|---|---|---|---|---|---|
| 1640690 | | **2004 1000** | 10x type 1, H = 67 mm | 985 | 775 | 435 | 15x | 3x | 94.0 |
| 1640704 | | **2004 0810** | 8x type 1, H = 67 mm<br>1x type 2, H = 137 mm | 985 | 775 | 435 | 15x | 3x | 91.0 |
| 1640712 | | **2004 0701** | 7x type 1, H = 67 mm<br>1x type 3, H = 207 mm | 985 | 775 | 435 | 10x | 2x | 86.0 |
| 1640720 | | **2004 0620** | 6x type 1, H = 67 mm<br>2x type 2, H = 137 mm | 985 | 775 | 435 | 10x | 2x | 88.0 |
| 1640739 |  | **2004 0511** | 5x type 1, H = 67 mm<br>1x type 2, H = 137 mm<br>1x type 3, H = 207 mm | 985 | 775 | 435 | 10x | 2x | 84.0 |
| 1640755 | | **2004 0321** | 3x type 1, H = 67 mm<br>2x type 2, H = 137 mm<br>1x type 3, H = 207 mm | 985 | 775 | 435 | 6x | 2x | 82.0 |
| 1640763 | | **2004 0131** | 1x type 1, H = 67 mm<br>3x type 2, H = 137 mm<br>1x type 3, H = 207 mm | 985 | 775 | 435 | 3x | 2x | 75.0 |






Quantities in packs may vary.









## Optional accessories

### 2004 HP

34

### R 2004 L

34

### 2430

35

### 1500 ES · 1500 CT

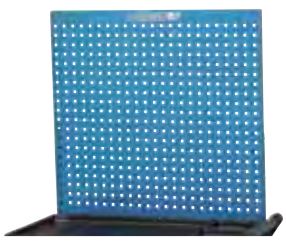
98 – 115

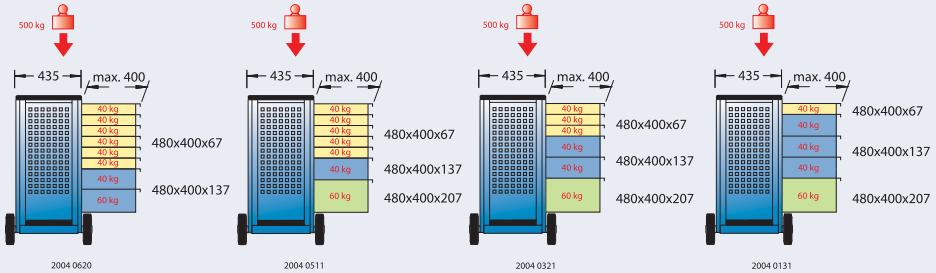
### 1500 BL

47

### RT 2004 L

34






Quantities in packs may vary.

## TOOL TROLLEY TANTO with 7 drawers

- Ideal for the utility vehicle sector
- Strong and manoeuvrable - rear axle steering ensures dynamic steering properties
- Can be turned on the spot, easily maneuverable, especially in narrow corridors
- Working platform in ABS with 4 compartments for small parts
- Drawers fully extendable, removable, ball bearings
- Drawers 1-6 individually partitionable, delivery includes 8 length- and 2 crosswise dividers and 2 anti-slip mats
- Single-hand operation with safety locking which prevents the drawers from opening when in motion
- Load capacity per drawer 40 kg
- Large capacity drawer for bulky parts
- Deep rear shelf with perforated wall 9 x 33 mm to fix accessories
- Central locking for padlock
- With heel protection and safety shock absorber
- GEDORE wide-track chassis with heavy-duty wheels on roller bearings, with 2 fixed castors Ø 200 mm and 2 swivel castors Ø 125 mm, one with total brake
- Total load capacity 400 kg
- Dimensions: H 920 x W 585 x D 485 mm
- In GEDORIT blue, drawers GEDORIT silver, top black
- Delivery without tools
- Optional accessories: Tool set S 1022, door element 3000 H 14, modules 1500 ES + CT, trays and much more besides

| Code | No. | H | W | D | LD | CD | |
|---|---|---|---|---|---|---|---|
| 6624880 | **3000** | 920 | 585 | 485 | 8x | 2x | 67.0 |

## Optional accessories

### 1500 ES · 1500 CT

98 – 115

### S 1022 NFZ

93

### 3000 H 14

35



Quantities in packs may vary.

## 2545 - 2546 - 2550

### TOOL TROLLEY AND TOOL CHEST

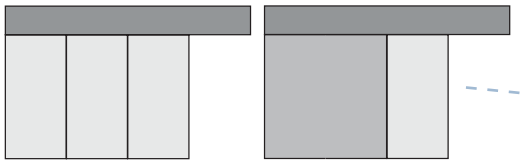
**2545 Tool trolley**

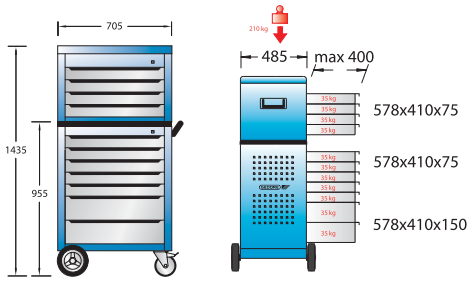
- Working platform in ABS with 4 compartments for small parts
- With handle for easy pushing, pulling and turning
- 7 drawers fully extendable
- Single-hand operation with safety locking which prevents the drawers from opening when in motion
- Drawers individually partitionable, delivery includes 10 length- and 2 crosswise dividers
- Load capacity per drawer 35 kg
- 3 perforated side walls to fit with accessories
- Rear side with space for storage
- Central locking with cylinder lock
- With heel protection and vertical impact protection
- GEDORE heavy-duty chassis with high-performance wheels on roller bearings, with 2 fixed castors Ø 200 mm and 2 swivel castors Ø 125 mm, one with total brake
- Total load capacity 330 kg
- Dimensions: H 955 x W 705 x D 485 mm
- In GEDORIT blue, drawers GEDORIT silver, top black

**2546 Tool chest**

- 4 drawers fully extendable
- Drawers individually partitionable, delivery includes 6 length- and 2 crosswise dividers
- Roomy storage compartment with document partition
- Pneumatic soft opening and closing of lid
- Total load capacity 120 kg
- Dimensions: H 495 x W 705 x D 485 mm
- In GEDORIT blue, drawers GEDORIT silver, top black
- Delivery without tools

- **2550** consisting of tool trolley 2545 and tool chest 2546





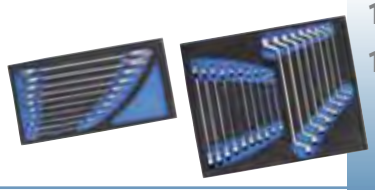
No. 2550

LD = Lengthwise dividers, CD = Crosswise dividers

| Code | No. | Description | H | W | D | LD | CD | |
|---|---|---|---|---|---|---|---|---|
| 1942980 | **2545** | Tool trolley with 7 dawers | 955 | 705 | 485 | 10x | 2x | 75.0 |
| 1942999 | **2546** | Tool chest with 4 dawers | 495 | 705 | 485 | 6x | 2x | 48.0 |
| 1942972 | **2550** | Tool trolley with tool chest | 1435 | 705 | 485 | 16x | 4x | 123.0 |

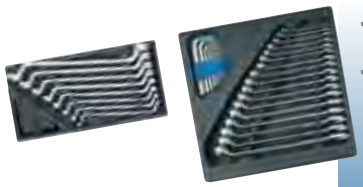
## Optional accessories

### 1500 CT



105 – 111

### 1500 ES



100 – 104

### 1500 H

48 – 55

### 1500 H 9 • H 10

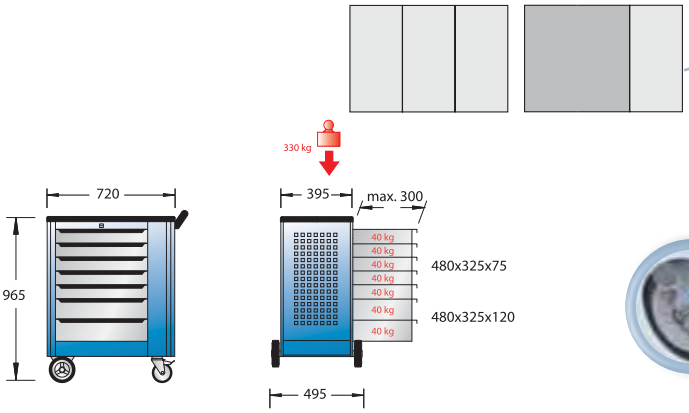
49

Quantities in packs may vary.

## 2525-520

### TOOL TROLLEY with 7 drawers

- Working platform in ABS with 3 compartments for small parts
- With handle for easy pushing, pulling and turning
- Drawers fully extendable, removable, 1-5 individually partitionable
- Delivery includes 8 length- and 2 crosswise dividers
- Single-hand operation with safety locking which prevents the drawers from opening when in motion
- Load capacity per drawer 40 kg
- 2 perforated side walls, mounted inwards to fit with accessories
- Delivery includes tray for small parts and 10-piece hook assortment
- Central locking with cylinder lock
- With heel protection, sides with vertical impact protection
- GEDORE chassis with high-performance wheels on roller bearings, with 2 fixed castors Ø 140 mm and 2 swivel castors Ø 100 mm, one with total brake
- Total load capacity 330 kg
- Dimensions: H 965 x W 720 x D 395 mm
- In GEDORIT blue, drawers GEDORIT silver, top black
- Delivery without tools
- Optional accessory: Wood plate no. 2525 HP



LD = Lengthwise dividers, CD = Crosswise dividers

| Code | No. | H | W | D | LD | CD | |
|---|---|---|---|---|---|---|---|
| 1587102 | **2525-520** | 965 | 720 | 395 | 8x | 2x | 67.0 |

## 2535

### TOOL TROLLEY DUO with 4 drawers

- Drawers fully extendable, individually removable
- Single-hand operation with safety locking which prevents the drawers from opening when in motion
- Drawers individually partitionable, delivery includes length- (LD) and crosswise dividers (CD), see table
- Load capacity per drawer 40 kg
- Separate locking for top and bottom of mobile tool chest with two identical cylinder locks
- Top and bottom of mobile tool chest joined by quick-action latches for easy separationm each with two carry handles

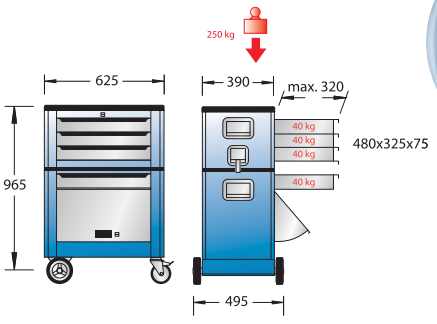
**2535 SMA**

- Working platform in ABS with 3 compartments for small parts
- Dimensions: H 350 x W 625 x D 395 mm
- In GEDORIT blue, drawers GEDORIT silver, top black

**2535 SMW**

- Large storage compartment
- Working platform in ABS with 3 compartments for small parts
- With heel protection, sides with vertical impact protection
- GEDORE chassis with high-performance wheels on roller bearings, with 2 fixed castors Ø 140 mm and 2 swivel castors Ø 100 mm, one with total brake
- Total load capacity 250 kg
- Dimensions: H 635 x W 625 x D 395 mm
- In GEDORIT blue, drawers GEDORIT silver, top black
- Delivery without tools

- **2535** consisting of tool trolley 2535 SMW and tool chest 2535 SMA



No. 2535

LD = Lengthwise dividers, CD = Crosswise dividers

| Code | No. | H | W | D | LD | CD | |
|---|---|---|---|---|---|---|---|
| 1892495 | **2535** | 965 | 625 | 395 | 4x | 2x | 50.0 |
| 1906445 | **2535 SMA** | 350 | 625 | 395 | 3x | 2x | 27.0 |
| 1904167 | **2535 SMW** | 635 | 625 | 395 | 1x | - | 23.0 |



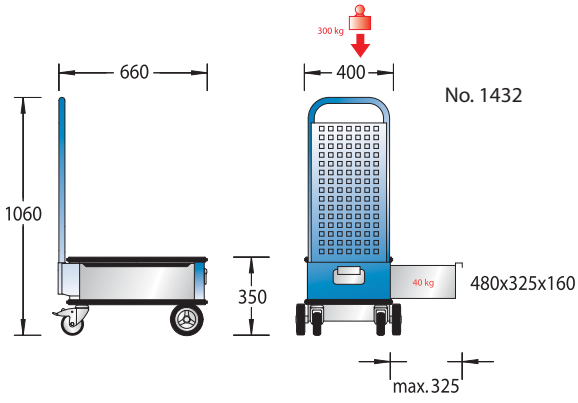
Quantities in packs may vary.

## 3-CHEST TOOL TROLLEY MODULAR SYSTEM

- When tool chests 1430 and 1431 are stacked on it, the base 1432 becomes the mobile high-capacity trolley 1585
- The base 1432 can of course also be combined with various tool chests, e.g. 1433-1072 ES
- With plug-in lockable push handle, also suitable for lifting the trolley
- A perforated metal sheet at the handle permits equipping the trolley with tools or parts for installation
- 1430, 1431 and 1432 with ABS top, central locking with cylinder lock
- Drawers fully extendable, with single-hand safety locking
- Load capacity per drawer 40 kg
- With heel and impact protection
- GEDORE chassis with high-performance wheels on roller bearings, with 2 fixed castors Ø 140 mm and 2 swivel castors Ø 100 mm, one with total brake
- Total load capacity 300 kg
- Dimensions: H 1060 x W 660 x D 400 mm
- In GEDORIT blue, drawers GEDORIT silver, top black
- Delivery without tools

No. 1432 + 1430 No. 1432

No. 1585
(No. 1430 + 1431 + 1432)




No. 1432

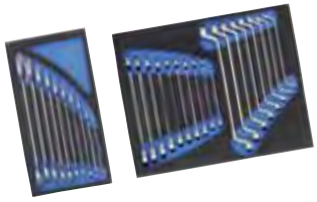
LD = Lengthwise dividers, CD = Crosswise dividers

| Code | No. | Description | H | W | D | LD | CD | |
|---|---|---|---|---|---|---|---|---|
| 6624290 | **1585** | 3-Chest tool trolley without tools | 1060 | 660 | 400 | 8x | 4x | 77.0 |
| 6618130 | **1430** | Tool chest with 3 drawers | 305 | 625 | 400 | 6x | 2x | 26.0 |
| 6615030 | **1431** | Tool chest with 2 drawers | 305 | 625 | 400 | 2x | 2x | 23.0 |
| 6615620 | **1432** | Tool chest with mobile base | 1060 | 660 | 400 | - | - | 28.0 |
| 5801550 | **1585 HS** | Hook assortment 20 pcs | | | | | | 0.7 |

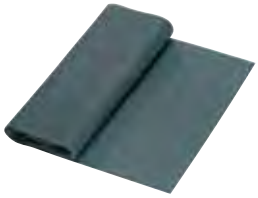
## Optional accessories


**1433-1072 ES** — 33

**1500 CT** — 105 – 111



**1500 H 13** — 47

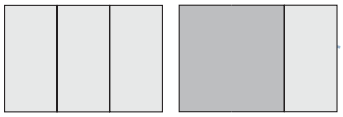


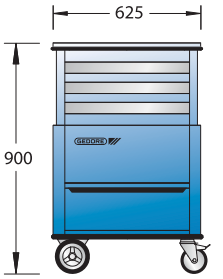

Quantities in packs may vary.

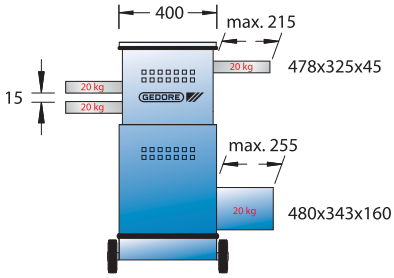
## 3010

### TOOL TROLLEY VARIO with lowering mechanism

- Working platform with ABS top
- Lowering mechanism with single-button operation
- Drawers open either side
- Ball bearings, with middle and end catches
- Drawers individually partitionable, delivery includes 6 length- and 2 crosswise dividers
- Load capacity per drawer 20 kg
- Central locking when lowered, secured by padlock
- Heel protection and all-round impact protection
- GEDORE chassis with high-performance wheels on roller bearings, with 2 fixed castors Ø 140 mm and 2 swivel castors Ø 100 mm, one with total brake
- Lifts automatically with up to 25 kg load
- Automatic lock, to produce a sturdy working surface with over 120 kg load capacity
- When lowered, total load capacity over 220 kg
- Dimensions: H 900 x W 625 x D 400 mm
- In GEDORIT blue, drawers GEDORIT silver, top black
- Delivery without tools





LD = Lengthwise dividers, CD = Crosswise dividers

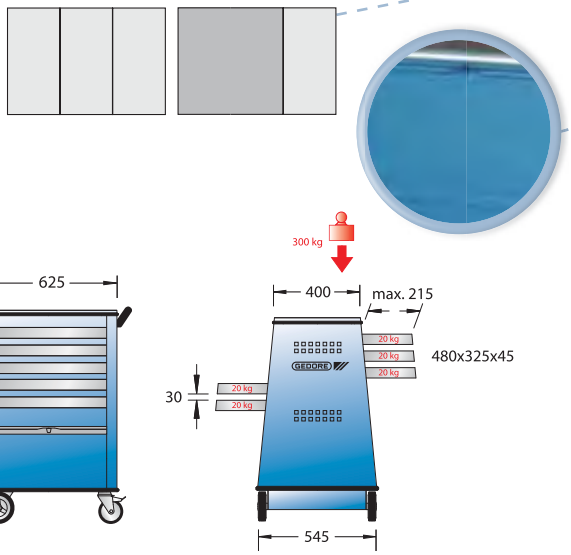
| Code | No. | H | W | D | LD | CD | |
|---|---|---|---|---|---|---|---|
| 6625260 | **3010** | 900 | 625 | 400 | 6x | 2x | 42.0 |

Quantities in packs may vary.

## 2000

### TOOL TROLLEY with 5 drawers

- Working platform with ABS top
- With handle for easy pushing, pulling and turning
- Drawers open either side, ball bearing catches, with middle and end catches
- Drawers individually partitionable, delivery includes 10 length- and 2 crosswise dividers
- Load capacity per drawer 20 kg
- Double sided metal shutters to secure the whole internal space
- Central locking with cylinder lock
- Heel protection and all-round impact protection
- GEDORE wide-track chassis with high-performance wheels on roller bearings, with 2 fixed castors Ø 140 mm and 2 swivel castors Ø 100 mm, one with total brake
- Trapezoid shape for extra stability, wheels mounted internally
- Total load capacity 300 kg
- Dimensions: H 930 x W 625 x D 400/545 mm
- In GEDORIT blue, drawers GEDORIT silver, top black
- Optional accessories: Top tool chests 1430, 1431, 1433-1072 ES, Wood plate 2000 HP



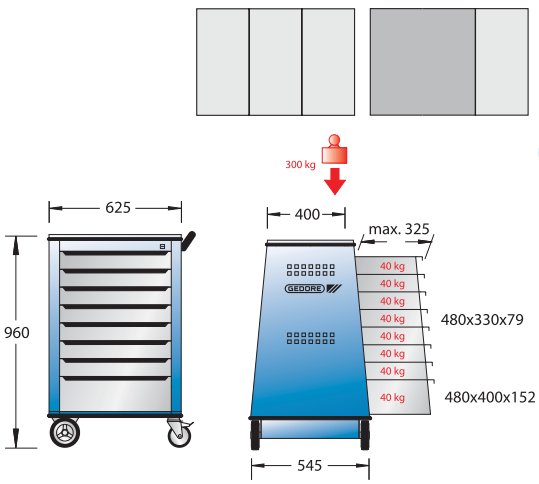
LD = Lengthwise dividers, CD = Crosswise dividers

| Code | No. | H | W | $D_1$ | $D_2$ | LD | CD | |
|---|---|---|---|---|---|---|---|---|
| 6627710 | **2000** | 930 | 625 | 400 | 545 | 10x | 2x | 47.0 |

## 2500

### TOOL TROLLEY with 8 drawers

- Working platform with ABS top
- With handle for easy pushing, pulling and turning
- Drawers fully extendable, removable, ball-catch bearings, with middle and end catches
- Single-hand safety locking
- Drawers individually partitionable, delivery includes 10 length- and 2 crosswise dividers
- Load capacity per drawer 40 kg
- Central locking with cylinder lock
- Heel protection and all-round impact protection
- GEDORE wide-track chassis with high-performance wheels on roller bearings, with 2 fixed castors Ø 140 mm and 2 swivel castors Ø 100 mm, one with total brake
- Trapezoid shape for extra stability, wheels mounted internally
- Total load capacity 300 kg
- Dimensions: H 960 x W 625 x D 400/545 mm
- Optional accessories: Top tool chests 1430, 1431, 1433-1072 ES, Wood plate 2000 HP



LD = Lengthwise dividers, CD = Crosswise dividers

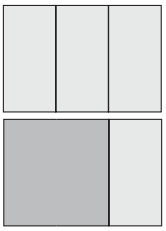
| Code | No. | H | W | $D_1$ | $D_2$ | LD | CD | |
|---|---|---|---|---|---|---|---|---|
| 6171720 | **2500** | 960 | 625 | 400 | 545 | 10x | 2x | 64.0 |

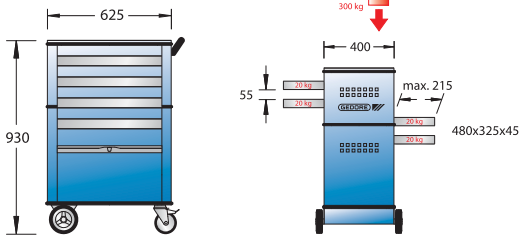
Quantities in packs may vary.

## 1580

### TOOL TROLLEY with 4 drawers

- Working platform with ABS top
- With handle for easy pushing, pulling and turning
- Drawers open either side
- Ball bearings, with middle and end catches
- Drawers individually partitionable, delivery includes 8 length- and 2 crosswise dividers
- Load capacity per drawer 20 kg
- Deep storage at base
- Both sides with square perforation
- Central locking with cylinder lock
- Double sided metal shutters to secure the whole internal space
- Heel protection and all-round impact protection
- GEDORE chassis with high-performance wheels on roller bearings, with 2 fixed castors Ø 140 mm and 2 swivel castors Ø 100 mm, one with total brake
- Total load capacity 300 kg
- Dimensions: H 930 x W 625 x D 400 mm
- In GEDORIT blue, drawers GEDORIT silver, top black
- Delivery without tools
- Optional accessories: Top tool chests 1430, 1431, 1433-1072 ES, Wood plate 2000 HP, Additional drawer KSF 1580





LD = Lengthwise dividers, CD = Crosswise dividers

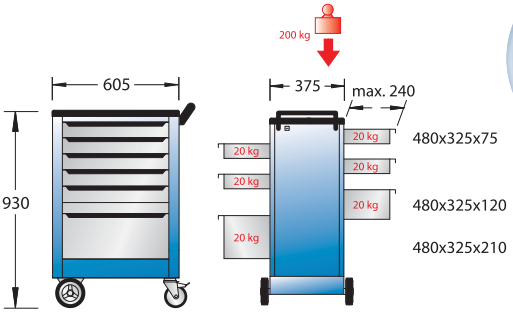
| Code | No. | H | W | D | LD | CD | |
|---|---|---|---|---|---|---|---|
| 6627550 | **1580** | 930 | 625 | 400 | 8x | 2x | 40.0 |

## 1578

### TOOL TROLLEY with 6 drawers

- Working platform in ABS with 3 compartments for small parts
- With handle for easy pushing, pulling and turning
- Drawers open either side
- Drawers individually partitionable, delivery includes 6 length- and 2 crosswise dividers
- Load capacity per drawer 20 kg
- Central locking with cylinder lock
- GEDORE chassis with high-performance wheels on roller bearings, with 2 fixed castors Ø 140 mm and 2 swivel castors Ø 100 mm, one with total brake
- Total load capacity 200 kg
- Dimensions: H 930 x W 605 x D 375 mm
- In GEDORIT blue, drawers GEDORIT silver, top black





LD = Lengthwise dividers, CD = Crosswise dividers

| Code | No. | H | W | D | LD | CD | |
|---|---|---|---|---|---|---|---|
| 9018140 | **1578** | 930 | 605 | 375 | 6x | 2x | 43.5 |

## Optional accessories


**KSF 1580** 34

**1430 • 1431** 33

Quantities in packs may vary.

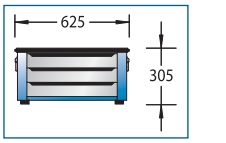
# TOP TOOL CHESTS

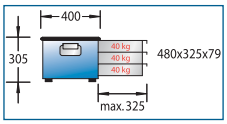
- Suitable for all GEDORE tool trolleys with a work surface of W 625 x D 400 mm
- Drawers fully extendable
- Supplied with length- and crosswise dividers
- Delivery without tools

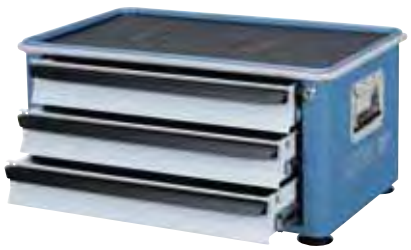
## 1430

### TOOL CHEST

- Designed particularly as top box for trolleys 1580, 1585, 2000, 2500, 3010
- With three partitionable drawers, supplied with 6 lengthwise and 2 crosswise dividers
- Drawers run smoothly on guides with ball bearings fully extendable
- Single-hand safety locking
- Load capacity per drawer 40 kg
- Central locking with cylinder lock
- ABS top, and rubber protection around the edge
- In GEDORIT blue, drawers GEDORIT silver
- Dimensions: H 305 x W 625 x D 400 mm



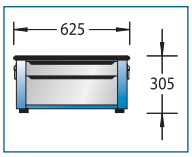



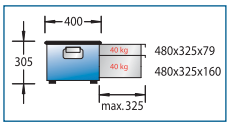
| Code | No. | H | W | D | LD | CD | |
|---|---|---|---|---|---|---|---|
| 6618130 | **1430** | 305 | 625 | 400 | 6x | 2x | 26.0 |

## 1431

### TOOL CHEST

- Designed particularly as top box for trolleys 1580, 1585, 2000, 2500, 3010
- With 2 drawers, drawers run smoothly on guides with ball bearings, fully extendable
- One partitionable drawer, supplied with 2 lengthwise and 2 crosswise dividers
- Single-hand safety locking
- Load capacity per drawer 40 kg
- Central locking with cylinder lock
- ABS top, and rubber protection around the edge
- In GEDORIT blue, drawers GEDORIT silver
- Dimensions: H 305 x W 625 x D 400 mm



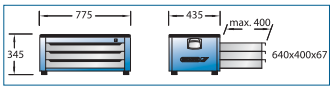



| Code | No. | H | W | D | LD | CD | |
|---|---|---|---|---|---|---|---|
| 6615030 | **1431** | 305 | 625 | 400 | 2x | 2x | 23.0 |

## 2430

### TOOL CHEST

- Designed particularly as top box for trolleys 2004, 2005
- Working platform in ABS with 3 compartments for small parts
- Three drawers individually partitionable, delivery includes 6 length- and 2 crosswise dividers
- Each drawer suitable to take 4 pieces of 1/3 tool modules no. 1500 ES / 1500 CT
- Drawer size: W 640 x D 400 x H 67 mm
- Drawers fully extendable, removable
- Single-hand operation with safety locking
- Load capacity per drawer 40 kg
- Central locking with cylinder lock
- In GEDORIT blue, drawers GEDORIT silver
- Dimensions: H 345 x W 775 x D 435 mm
- Optional accessory: Wood plate no. 2004 HP

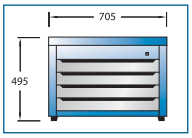


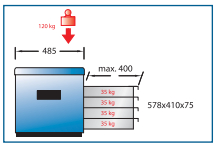
| Code | No. | H | W | D | LD | CD | |
|---|---|---|---|---|---|---|---|
| 1888927 | **2430** | 345 | 775 | 435 | 6x | 2x | 23.0 |

## 2546

### TOOL CHEST

- Four drawers fully extendable
- Drawers individually partitionable, delivery includes 6 length- and 2 crosswise dividers
- Load capacity per drawer 35 kg
- Roomy storage compartment with document partition
- Pneumatic soft opening and closing of lid
- Total load capacity 120 kg
- Dimensions: H 495 x W 705 x D 485 mm
- In GEDORIT blue, drawers GEDORIT silver



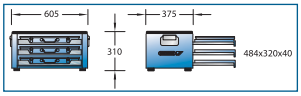



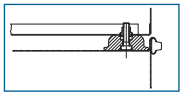
| Code | No. | H | W | D | LD | CD | | |
|---|---|---|---|---|---|---|---|---|
| 1942999 | **2546** | 495 | 705 | 485 | 6x | 2x | 48.0 | 1 |

## 1433-1072 ES

### TOOL CHEST for mobile use

- Tool chest 1433-1072 ES including 3 modular tool boxes 1072 ES-1500 L
- Open at front, central locking with turnlock fastener for a padlock
- Particularly suitable for use in combination with chassis 1432 for mobile use
- In GEDORIT blue
- Dimensions: H 310 x W 605 x D 375 mm



| Code | No. | H | W | D | |
|---|---|---|---|---|---|
| 1482483 | **1433-1072 ES** | 310 | 605 | 375 | 20.4 |
| 6627200 | **1433 L** | 310 | 605 | 375 | 16.0 |

## 1072 ES

### TOOL MODULE EMPTY

- For tool modules 1500 ES / 1500 CT
- May be individually equipped with two or three tool modules
- Foam rubber firmly glued to lid
- Suitable as spare part in tool chest 1433 L
- Sturdy sheet steel, in GEDORIT blue
- Dimensions: W 478 x D 313 x H 70 mm
- Delivery without tools

| Code | No. | W | D | H | |
|---|---|---|---|---|---|
| 6602990 | **1072 ES-1500 L** | 480 | 330 | 70 | 3.3 |

Quantities in packs may vary.

## 1072 K

### TOOL BOX

- Sturdy sheet steel, in GEDORIT blue
- With deep-drawn plastic insert with 19 compartments
- Fits into tool chest 1433 L
- Dimensions: W 480 x D 330 x H 70 mm

| Code | No. | W | D | H | |
|---|---|---|---|---|---|
| 1920049 | **1072 K-19** | 480 | 330 | 70 | 3.6 |

# ACCESSORIES FOR TOOL TROLLEYS

## 2000 HP

### WOOD PLATE

- Multiplex beech wood
- For tool trolleys 1580, 1585, 2000, 2500, 3010, and tool chests 1430, 1431, 1433

| Code | No. | |
|---|---|---|
| 1785567 | **2000 HP** | 4.0 |

## 2004 HP

### WOOD PLATE

- Multiplex beech wood
- For tool trolleys 2004 and 2005 (as well as old models 2002 and 2003) and tool chest 2430
- To fit in the plastic top, 30 mm thick, to get an additional work surface

| Code | No. | D | W | mm | |
|---|---|---|---|---|---|
| 1446967 | **2004 HP** | 410 | 590 | 30 | 5.0 |

## 2525 HP

### WOOD PLATE

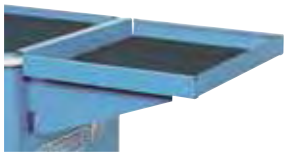
- Multiplex beech wood
- For tool trolley 2525
- To fit in the plastic top, 20 mm thick, to get an additional work surface

| Code | No. | W | D | mm | |
|---|---|---|---|---|---|
| 2082578 | **2525 HP** | 550 | 375 | 20 | 4.0 |

## 1500 H 7

### TRAY

- Will fit on 1580, 1585, 2000, 2500
- A useful tray to increase the working surface, captive coupling to the trolley
- Load capacity approx. 5 kg
- In GEDORIT blue with rubber mat



| Code | No. | H | W | D | | |
|---|---|---|---|---|---|---|
| 5792030 | **1500 H 7** | 30 | 370 | 300 | 1.6 | 1 |

## KSF 1580

### ADDITIONAL DRAWER

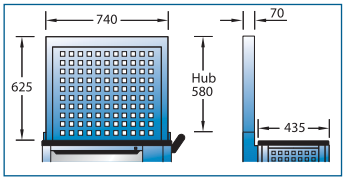
- Will fit the drawers of GEDORE tool trolley 1580
- With bearings, mounting pieces and mounting manual
- Up to 4 additional drawers can be fitted
- In GEDORIT silver

| Code | No. | H | W | D | |
|---|---|---|---|---|---|
| 6624610 | **KSF 1580** | 24 | 420 | 325 | 2.2 |

## R 2004 L

### REAR PANEL

- Can be attached to 2004, 2005
- The complete loaded rear wall can be simply lowered
- Automatically raised by two gas springs
- Neat arrangement of tools on square perforation 9 x 33 mm
- Central locking with cylinder lock
- Delivery without tools

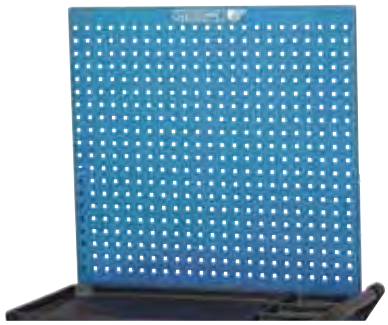



| Code | No. | H | W | D | |
|---|---|---|---|---|---|
| 1446169 | **R 2004 L** | 768 | 770 | 116 | 25.0 |

## RT 2004 L

### REAR PANEL

- Can be attached to 2004 and 2005 (as well as old models 2002 and 2003)
- Square perforation 9 x 33 mm



| Code | No. | H | W | D |
|---|---|---|---|---|
| 2663104 | **RT 2004 L** | 715 | 765 | 30 |

## RB 2004 L

### REAR PANEL

- Can be attached to 2004 and 2005 (as well as old models 2002 and 2003)
- Square perforation 9 x 33 mm

| Code | No. | H | W | D | |
|---|---|---|---|---|---|
| 1933302 | **RB 2004 L** | 700 | 665 | 15 | 5.8 |



Quantities in packs may vary.

## 2004 WST

### WRITING SUPPORT

- For tool trolleys 2004 and 2005 (as well as old models 2002 and 2003)
- Height adjustable with one swift movement
- Inclination adjustable, 4 x 90° swivel mounted for individual positioning
- Very robust for neat writing
- Keeps the working surface free
- Writing surface 310 x 400 mm
- Easy extendable, mounting material included in delivery
- Delivery without decoration

| Code | No. | |
|---|---|---|
| 2537915 | **2004 WST** | 4.0 |

## 3000 H 14

### DOOR ELEMENT for TANTO 3000

- For later installation
- The free space in the rear can be enclosed with this and secured with the cylinder lock installed
- 3000 TANTO models from 1998 on are set up for this installation, assembly materials are supplied
- Suitable trays 1500 H 9-75 and 1500 H 10-75
- In GEDORIT silver
- Delivery without tools

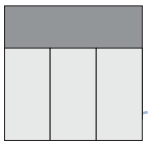
| Code | No. | |
|---|---|---|
| 5809880 | **3000 H 14** | 5.9 |

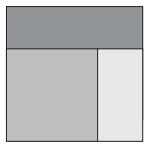
# WORKBENCHES

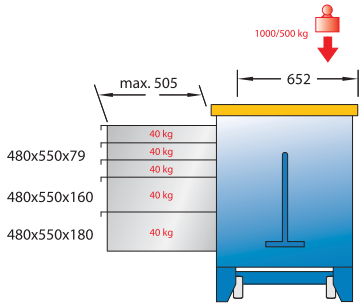
## 1505

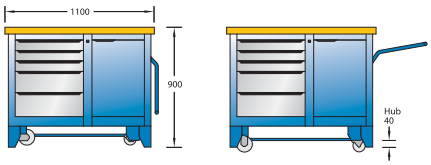
### MOBILE WORKBENCH

- Ergonomic working height
- 40 mm thick multiplex beech wood worktop, surface additionally protected by linseed oil varnish
- Five drawers, extendable up to 505 mm, with single-hand safety locking
- Drawers individually partitionable, delivery includes 9 length- and 9 crosswise dividers as well as 2 distance modules no. 1500 ED-70 K
- Ball bearings
- Load capacity per drawer 40 kg, bottom heavy-duty drawer 60 kg
- Large, lockable cupboard with shelf
- Central locking with cylinder lock
- With heel protection
- GEDORE Jumbo heavy-duty chassis with independent wheel suspension - sturdy and mobile
- With hydraulic raising mechanism - just lift the pull handle
- High floor clearance for easy, safe movement and absolutely stable standing
- Static load capacity 2000 kg, 500 kg when mobile
- Dimensions: H 900 x W 1100 x D 652 mm
- Model S with vice no. 411-150
- In GEDORIT blue, drawers GEDORIT silver
- Delivery without tools
- Prepared for mounting rear panel no. R 1504 L







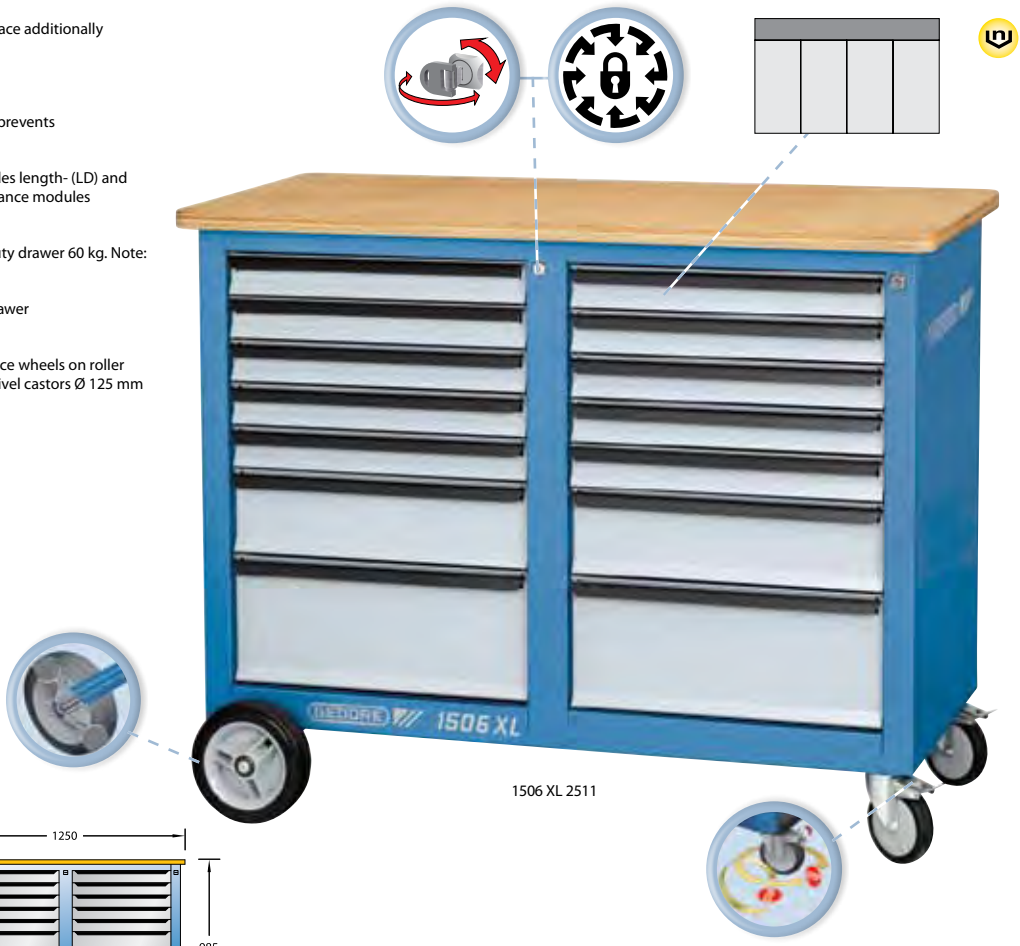
| Code | No. | Description | H | W | D | mm | LD | CD | |
|---|---|---|---|---|---|---|---|---|---|
| 6621780 | **1505** | Mobile workbench | 900 | 1100 | 652 | 40 | 9x | 9x | 138.0 |
| 6621860 | **1505 S** | Mobile workbench with vice | 900 | 1100 | 652 | 40 | 9x | 9x | 156.5 |

Quantities in packs may vary.

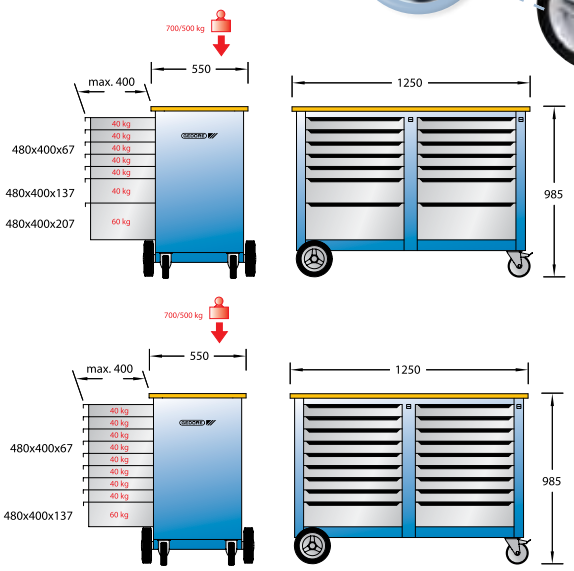
## 1506 XL

### MOBILE WORKBENCH EXTRA WIDTH

- 30 mm thick multiplex beech wood worktop, surface additionally protected by linseed oil varnish
- Ideally suited to the automotive sector
- With two similar drawer blocks
- Drawers fully extendable
- Single-hand operation with safety locking which prevents the drawers from opening when in motion
- Ball bearings
- Drawers individually partitionable, delivery includes length- (LD) and crosswise dividers (CD), see table, as well as 2 distance modules no. 1500 ED-70 K per drawer block
- Bottom drawer designed as heavy-duty drawer
- Load capacity per drawer 40 kg, bottom heavy-duty drawer 60 kg. Note: The total load capacity must not be passed!
- Static load capacity 700 kg, 500 kg when mobile
- Locking with two identical cylinder locks, each drawer block can be locked individually
- With heel protection
- GEDORE heavy-duty chassis with high-performance wheels on roller bearings, with 2 fixed castors Ø 200 mm and 2 swivel castors Ø 125 mm with total brake
- Dimensions: H 985 x W 1250 x D 550 mm
- In GEDORIT blue, drawers GEDORIT silver
- Optional accessories: Rear panel R 1504 XL-L
- Further drawer combinations on request




1506 XL 2511



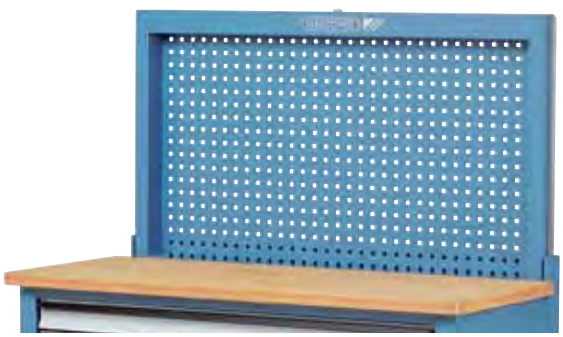
1506 XL 2810

LD = Lengthwise dividers, CD = Crosswise dividers

| Code | No. | | H | W | D | mm | LD | CD | kg |
|---|---|---|---|---|---|---|---|---|---|
| 2528088 | **1506 XL 2511** | 10x Typ 1, H = 67 mm<br>2x Typ 2, H = 137 mm<br>2x Typ 3, H = 207 mm | 985 | 1250 | 550 | 30 | 20 | 4 | 140.0 |
| 2528096 | **1506 XL 2810** | 16x Typ 1, H = 67 mm<br>2x Typ 2, H = 137 mm | 985 | 1250 | 550 | 30 | 30 | 6 | 150.0 |

R 1504 XL-L

43



411

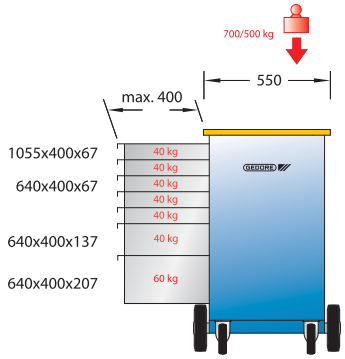
520

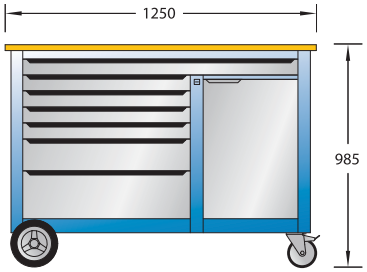
Quantities in packs may vary.

## 1504 XL

### MOBILE WORKBENCH EXTRA WIDTH

- 30 mm thick multiplex beech wood worktop, surface additionally protected by linseed oil varnish
- One extra large drawer for long tools or 6 tool modules (1/3 modules)
- Drawers fully extendable
- Single-hand operation with safety locking which prevents the drawers from opening when in motion
- Ball bearings
- Drawers individually partitionable, delivery includes 10 length- and 2 crosswise dividers
- Bottom drawer designed as heavy-duty drawer
- Load capacity per drawer 40 kg, bottom heavy-duty drawer 60 kg
- Large usable storage space with lockable door
- Central locking with cylinder lock
- With heel protection
- GEDORE heavy-duty chassis with high-performance wheels on roller bearings, with 2 fixed castors Ø 200 mm and 2 swivel castors Ø 125 mm with total brake
- Static load capacity 700 kg, 500 kg when mobile
- Dimensions: H 985 x W 1250 x D 550 mm
- In GEDORIT blue, drawers GEDORIT silver
- Delivery without tools
- Optional accessories: Rear panel R 1504 XL-L



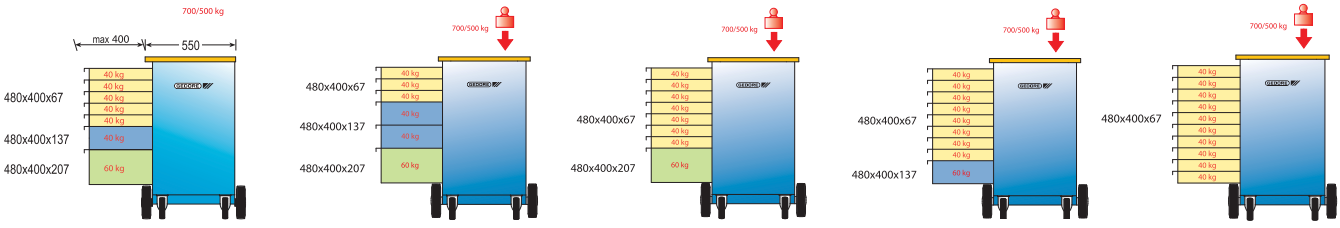
| Code | No. | | H | W | D | mm | LD | CD | |
|---|---|---|---|---|---|---|---|---|---|
| 1988468 | **1504 XL** | 1x type XL, H = 67 mm, W = 1055 mm<br>4x type 1, H = 67 mm<br>1x type 2, H = 137 mm<br>1x type 3, H = 207 mm | 985 | 1250 | 550 | 30 | 10x | 2x | 120.0 |

Quantities in packs may vary.

## MOBILE WORKBENCH

- 30 mm thick multiplex beech wood worktop, surface additionally protected by linseed oil varnish
- Five different drawer combinations
- Drawers fully extendable
- Single-hand operation with safety locking which prevents the drawers from opening when in motion
- Ball bearings
- Drawers individually partitionable, delivery includes length- (LD) and crosswise dividers (CD), see table, as well as 2 distance modules no. 1500 ED-70 K
- Bottom drawer designed as heavy-duty drawer
- Load capacity per drawer 40 kg, bottom heavy-duty drawer 60 kg (apart from 1504 1000)
- Large usable storage space with lockable door
- Central locking with cylinder lock
- With heel protection
- GEDORE heavy-duty chassis with high-performance wheels on roller bearings, with 2 fixed castors Ø 200 mm and 2 swivel castors Ø 125 mm with total brake
- Static load capacity 700 kg, 500 kg when mobile
- Dimensions: H 985 x W 1100 x D 550 mm
- Model S with vice no. 411-125
- In GEDORIT blue, drawers GEDORIT silver
- Delivery without tools
- Optional accessories: Rear panel no. R 1504 L or RT 1504 L

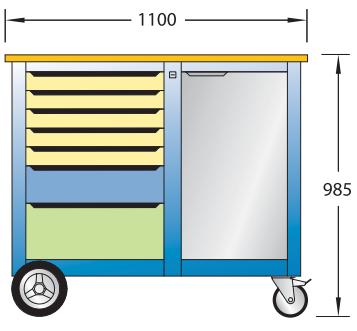
1504 0511




No. 1504-0511 | No. 1504-0321 | No. 1504-0701 | No. 1504-0801 | No. 1504-1000

LD = Lengthwise dividers, CD = Crosswise dividers

| Code | No. | | Description | LD | CD | kg |
|---|---|---|---|---|---|---|
| 6622830 | **1504 0511** | 5x type 1, H = 67 mm<br>1x type 2, H = 137 mm<br>1x type 3, H = 207 mm | Mobile workbench with 7 drawers | 10x | 2x | 100.0 |
| 6623050 | **1504 0511 S** | 5x type 1, H = 67 mm<br>1x type 2, H = 137 mm<br>1x type 3, H = 207 mm | Mobile workbench with 7 drawers and vice | 10x | 2x | 112.5 |
| 1814958 | **1504 0321** | 3x type 1, H = 67 mm<br>2x type 2, H = 137 mm<br>1x type 3, H = 207 mm | Mobile workbench with 6 drawers | 6x | 2x | 96.0 |
| 1814931 | **1504 0701** | 7x type 1, H = 67 mm<br>1x type 3, H = 207 mm | Mobile workbench with 8 drawers | 10x | 2x | 99.0 |
| 1814923 | **1504 0810** | 8x type 1, H = 67 mm<br>1x type 2, H = 137 mm | Mobile workbench with 9 drawers | 15x | 3x | 106.0 |
| 1814915 | **1504 1000** | 10x type 1, H = 67 mm | Mobile workbench with 10 drawers | 15x | 3x | 110.0 |




No. 1504-0511

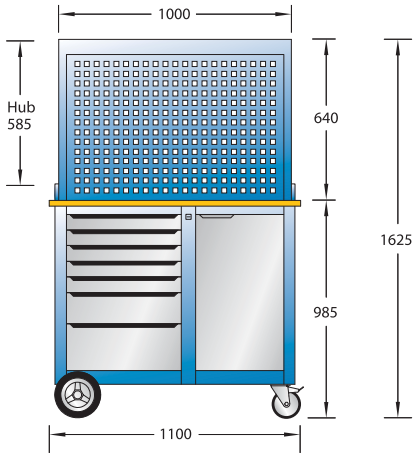


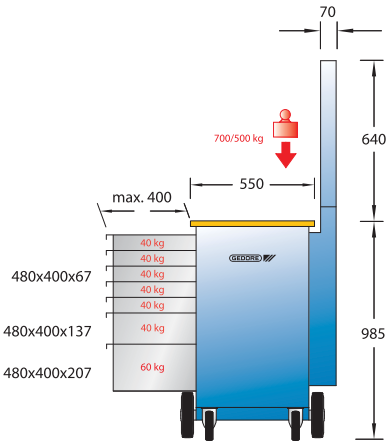
Quantities in packs may vary.

## BR 1504

### MOBILE WORKBENCH with self raising rear panel

- With installed rear panel R 1504 L
- Automatically raised by 2 gas springs
- The complete loaded rear wall can be simply lowered
- Multiplex beech wood worktop, surface additionally protected by linseed oil varnish
- Drawers fully extendable
- Single-hand operation with safety locking which prevents the drawers from opening when in motion
- Ball bearings
- Drawers individually partitionable, delivery includes 10 length- and 2 crosswise dividers as well as 2 distance modules no. 1500 ED-70 K
- Bottom drawer designed as heavy-duty drawer
- Load capacity per drawer 40 kg, bottom heavy-duty drawer 60 kg
- Large usable storage space with lockable door
- Central locking with cylinder lock
- With heel protection
- GEDORE heavy-duty chassis with high-performance wheels on roller bearings, with 2 fixed castors Ø 200 mm and 2 swivel castors Ø 125 mm with total brake
- Static load capacity 700 kg, 500 kg when mobile
- Dimensions: H 985 x W 1100 x D 550 mm
- Model LH with hook assortment no. 1504 HG
- Model S with vice no. 411-125
- In GEDORIT blue, drawers GEDORIT silver
- Delivery without tools



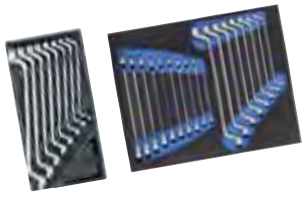



| Code | No. | Description | H | W | D | mm | LD | CD | |
|---|---|---|---|---|---|---|---|---|---|
| 6624450 | **BR 1504 0511 L** | Workbench with rear panel | 985 | 1100 | 550 | 30 | 10x | 2x | 128.0 |
| 6623990 | **BR 1504 0511 LH** | Workbench with rear panel + hook assortment | 985 | 1100 | 550 | 30 | 10x | 2x | 130.0 |
| 6624370 | **BR 1504 0511 S** | Workbench with rear panel + vice | 985 | 1100 | 550 | 30 | 10x | 2x | 142.5 |

## Optional accessories

**411** 520

**1500 ES / CT** 98 – 115

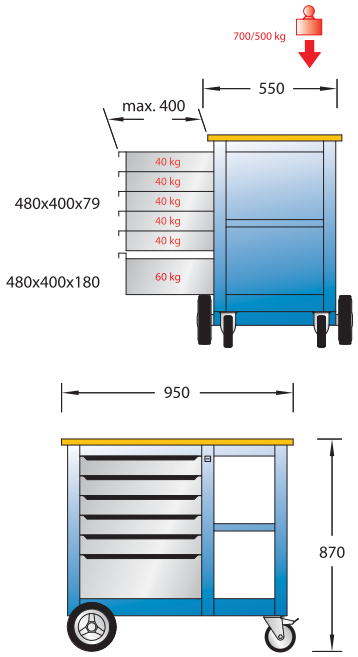


Quantities in packs may vary.

## 1502

### MOBILE WORKBENCH

- 25 mm thick multiplex beech wood worktop, surface additionally protected by linseed oil varnish
- Six drawers fully extendable
- Single-hand safety locking
- Ball bearings
- Drawers individually partitionable, delivery includes 10 length- and 2 crosswise dividers as well as 2 distance modules no. 1500 ED-70 K
- Bottom drawer designed as heavy-duty drawer
- Load capacity per drawer 40 kg, bottom heavy-duty drawer 60 kg
- Large, easily-accessible spaces for bulky parts
- Central locking with cylinder lock
- With heel protection
- GEDORE heavy-duty chassis with high-performance wheels on roller bearings, with 2 fixed castors Ø 200 mm and 2 swivel castors Ø 125 mm with total brake
- Static load capacity 700 kg, 500 kg when mobile
- Dimensions: H 875 x W 950 x D 550 mm
- Model S with vice no. 409
- In GEDORIT blue, drawers GEDORIT silver
- Delivery without tools



| Code | No. | Description | H | W | D | mm | LD | CD | kg |
|---|---|---|---|---|---|---|---|---|---|
| 6620540 | **1502** | Mobile workbench | 870 | 950 | 550 | 25 | 10x | 2x | 78.0 |
| 6620620 | **1502 S** | Mobile workbench with vice | 870 | 950 | 550 | 25 | 10x | 2x | 85.0 |

Quantities in packs may vary.

## BR 1500 LH

### WORKBENCH WITH TOOL CABINET

**B 1500 L**

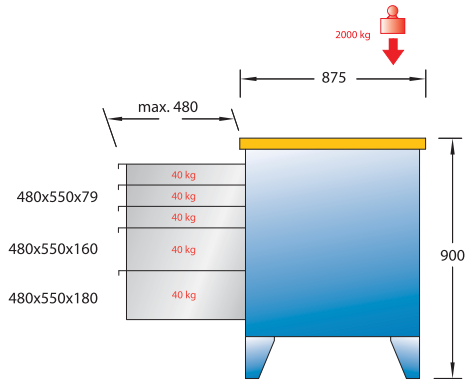
- 40 mm thick multiplex beech wood worktop, surface additionally protected by linseed oil varnish
- Five drawers, extendable up to 505 mm, individually partitionable, delivery includes 9 length- and 9 crosswise dividers
- Drawers removable
- Load capacity per drawer 40 kg
- Open space for storage, secured with strong metal shutter
- Separate locking of drawers and shutter by cylinder locks
- With heel protection
- Total load capacity 2000 kg
- Dimensions: H 900 x W 2000 x D 875 mm
- In GEDORIT blue, drawers GEDORIT silver

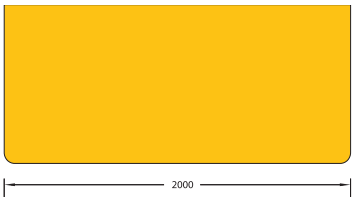
**R 1500 LH**

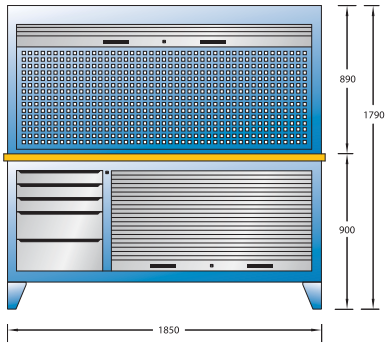
- Sheet steel construction
- With metal shutter lockable by cylinder lock
- Perforated rear to take fittings for any choice of assortment
- With hook assortment 1500 HS 23
- Dimensions: H 890 x W 1810 x D 170 mm
- In GEDORIT blue, shutter GEDORIT silver

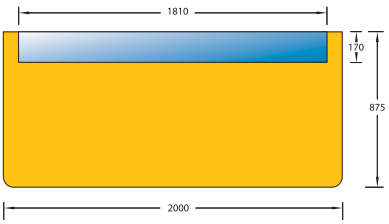
- **BR 1500 LH** Consisting of workbench B 1500 L and tool cabinet R 1500 LH

- Delivery without tools



| Code | No. | Description | H | W | D | mm | LD | CD | kg |
|---|---|---|---|---|---|---|---|---|---|
| 6618210 | **BR 1500 LH** | Workbench with tool cabinet | 1790 | 2000 | 875 | 40 | 9x | 9x | 203.7 |
| 6618050 | **B 1500 L** | Workbench without tool cabinet | 900 | 2000 | 875 | 40 | 9x | 9x | 166.0 |
| 6617910 | **R 1500 L** | Tool cabinet with blind, empty | 890 | 1810 | 170 | | | | 78.0 |


R 1500 L

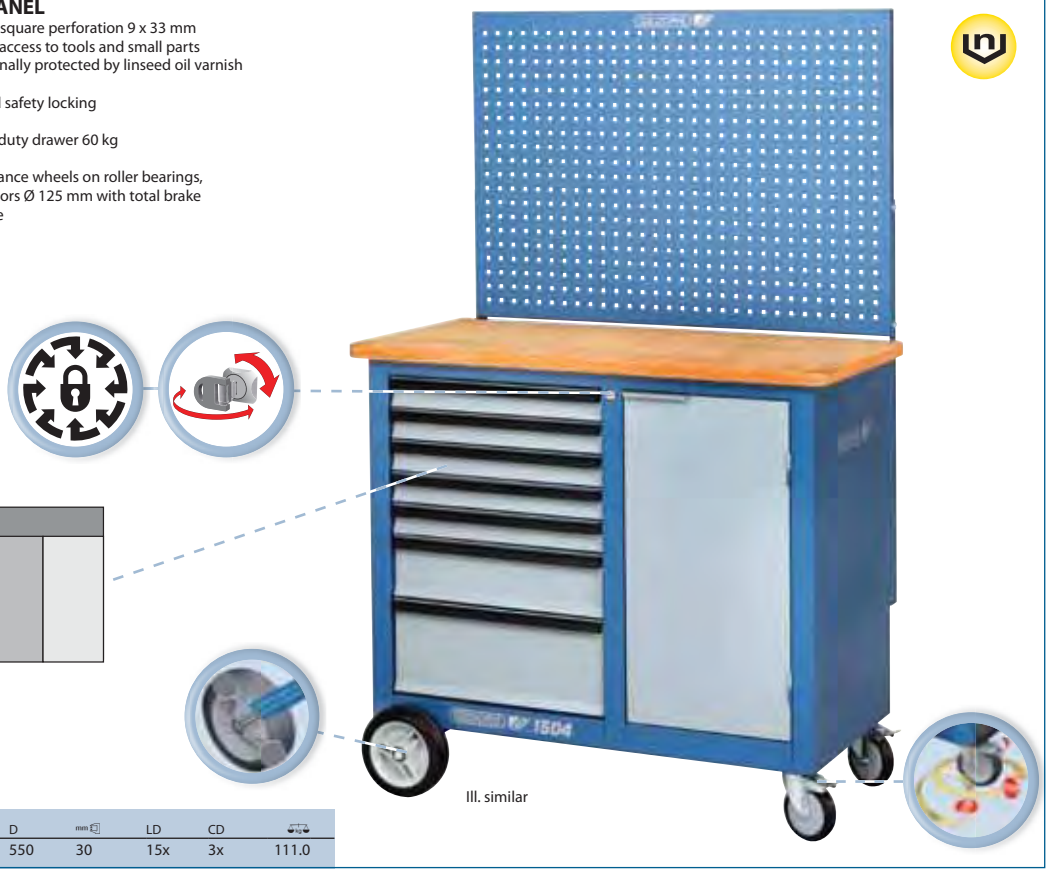
46

Quantities in packs may vary.

## BRT 1504

### MOBILE WORKBENCH WITH REAR PANEL

- Model 1504 0810 with installed rear panel with square perforation 9 x 33 mm
- Offers additional storage area and allows quick access to tools and small parts
- Multiplex beech wood worktop, surface additionally protected by linseed oil varnish
- Large usable storage space with lockable door
- With 9 drawers, wtih single-hand operation and safety locking
- Bottom drawer designed as heavy-duty drawer
- Load capacity per drawer 40 kg, bottom heavy-duty drawer 60 kg
- Central locking with cylinder lock
- GEDORE heavy-duty chassis with high-performance wheels on roller bearings, with 2 fixed castors Ø 200 mm and 2 swivel castors Ø 125 mm with total brake
- Static load capacity 700 kg, 500 kg when mobile
- Dimensions: H 1700 x W 1100 x D 550 mm



Ill. similar

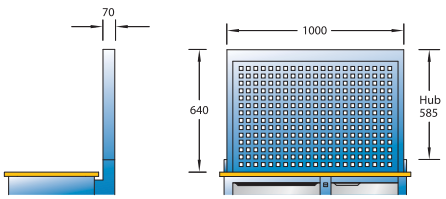
| Code | No. | H | W | D | mm | LD | CD | kg |
|---|---|---|---|---|---|---|---|---|
| 2529912 | **BRT 1504** | 985 | 1100 | 550 | 30 | 15x | 3x | 111.0 |

# ACCESSORIES FOR WORKBENCHES

## R 1504 L

### REAR PANEL

- Can be attached to workbench 1504 or 1505
- Automatically raised by two gas springs, lockable with cylinder lock
- Neat arrangement of tools
- Dimensions: H 640 x W 1000 x D 70 mm
- GEDORIT blue
- Execution LH with hook assortment No. 1504 HG

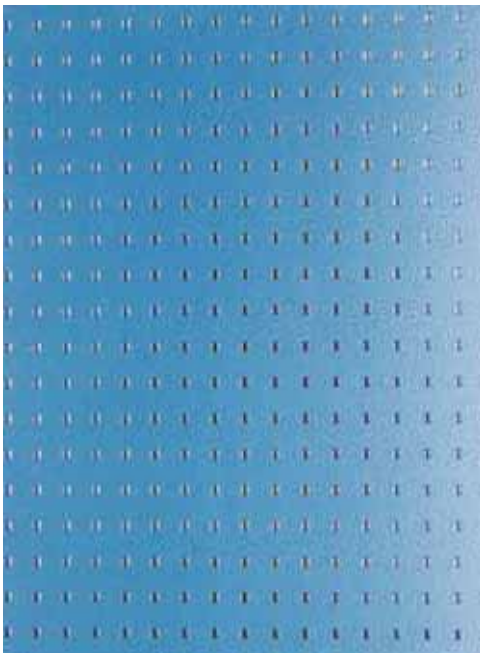



| Code | No. | Description | H | W | D | kg |
|---|---|---|---|---|---|---|
| 6623800 | **R 1504 L** | Rear panel empty | 640 | 1000 | 70 | 28.0 |
| 6624020 | **R 1504 LH** | Rear panel empty with hook assortment | 640 | 1000 | 70 | 30.0 |

## RT 1504 L

### REAR PANEL BOARD

- Can be attached to 1504 and 1505
- Square perforation 9 x 33 mm
- GEDORIT blue
- Including attachment material



| Code | No. | H | W | D | kg |
|---|---|---|---|---|---|
| 2477025 | **RT 1504 L** | 715 | 1025 | 30 | 5.0 |

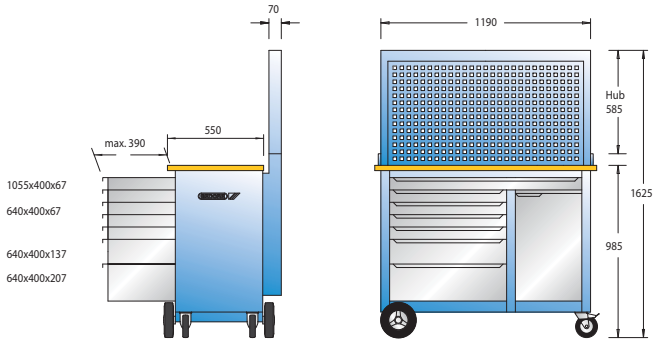


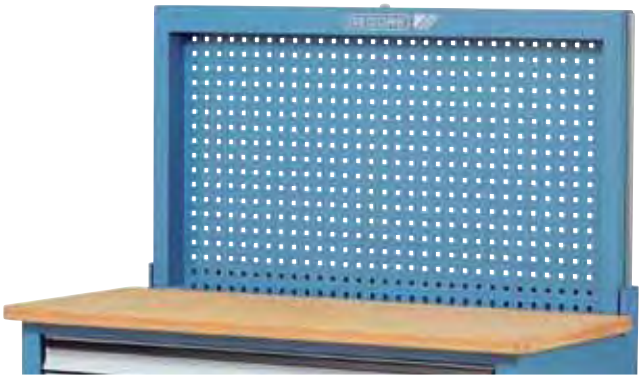
Quantities in packs may vary.

## R 1504 XL-L

### REAR PANEL

- Can be attached to workbench 1504 XL
- Automatically raised by two gas springs
- Neat arrangement of tools
- Dimensions: W 1190 x D 70 mm
- GEDORIT blue
- Execution LH with hook assortment No. 1504 HG



| Code | No. | Description | H | W | D | |
|---|---|---|---|---|---|---|
| 2251787 | **R 1504 XL-L** | Rear panel empty | 640 | 1190 | 70 | 29.0 |
| 2251795 | **R 1504 XL-LH** | Rear panel empty with hook assortment | 640 | 1190 | 70 | 31.0 |

## 1500 HS

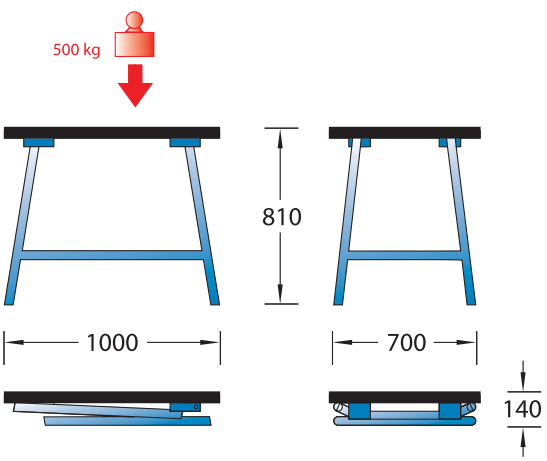
55

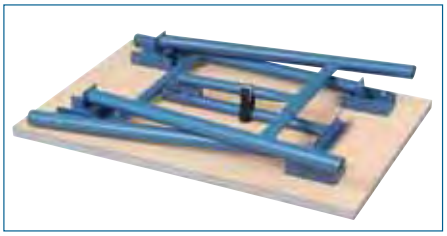
# FOLDING WORKBENCH

## B 1525

### FOLDING WORKBENCH

- Stable hinged workbench, needs little space when folded
- Strong beech wood worktop with zinc-plated steel edge protector - corrosion resistant
- Base made from steel tube, in GEDORIT blue
- Load capacity 500 kg
- Dimensions: H 810 x W 1000 x D 700 mm





| Code | No. | H | W | D | mm | |
|---|---|---|---|---|---|---|
| 6622910 | **B 1525** | 810 | 1000 | 700 | 30 | 32.0 |

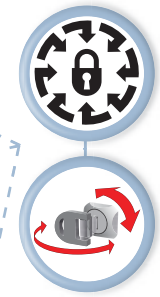
Quantities in packs may vary.

## B 1512 - B 1513

### WORKBENCH WITH DRAWER CABINET self-assembly

- **Delivery disassembled, for self-assembly, mounting material included**
- 40 mm thick multiplex beech wood worktop
- With 1 to 4 drawers, front panel height 75/150 mm
- Drawer dimensions inside: W 478 x D 623 mm, usable height 55 mm
- Suitable for 6 tool modules 1500 ES/1500 CT
- Drawers fully extendable, removable
- Individually partitionable, delivery includes length- and crosswise dividers
- Load capacity per drawer 75 kg
- Drawer cabinet can be mounted either right or left
- Central locking with cylinder lock
- Workbench stands made from U-steel section and includes floor mounting plate
- In GEDORIT blue, drawers GEDORIT silver
- Dimensions: **B 1512**: W 1500 x H 840 x D 800 mm / **B 1513**: W 2000 x H 840 x D 800 mm

No. 1512-90 / 1513-90



No. 1512/13-91

## Optional accessories

**No. 1512-90 / 1513-90**
- Bottom plate for additional storage area

**No. 1512/13-91**
- Side panel for workbench stand
- With square perforation 9x33 mm to equip with accessories

| Code | No. | Execution | W | H | D | |
|---|---|---|---|---|---|---|
| 2652242 | **B 1512-1** | 1 ▭ 75 | 1500 | 840 | 800 | 77.0 |
| 2652250 | **B 1513-1** | 1 ▭ 75 | 2000 | 840 | 800 | 91.0 |
| 2651408 | **B 1513-2** | 1 ▭ 75<br>1 ▭ 150 | 2000 | 840 | 800 | 104.7 |
| 2652269 | **B 1513-4** | 4 ▭ 75 | 2000 | 840 | 800 | 123.7 |



Quantities in packs may vary.

## 1406

### DRAWER CABINET

- Drawers fully extendable
- With mechanical interlock system that allows only one drawer to open at a time
- Drawer size inside: W 636 x D 623 mm, usable height 130/280 mm
- Individually partitionable, delivery includes length- and crosswise dividers
- Suitable for 8 tool modules 1500 ES/1500 CT
- Load capacity per drawer 75 kg
- Model -200 with load capacity 200 kg, except front panel height 75 mm = 75 kg
- Central locking with cylinder lock
- Dimensions: H 1000 x W 741 x D 713 mm
- In GEDORIT blue, drawers GEDORIT silver

| Code | No. | Execution | H | W | D | |
|---|---|---|---|---|---|---|
| 2652307 | **1406-5** | 5 ▭ 4x 150 1x 300 | 1000 | 741 | 713 | 103.0 |
| 2652358 | **1406-5-200** | 5 ▭ 4x 150 1x 300 | 1000 | 741 | 713 | 110.3 |
| 2652315 | **1406-7** | 7 ▭ 2x 75 1x 100 3x 150 1x 200 | 1000 | 741 | 713 | 120.9 |
| 2652366 | **1406-7-200** | 7 ▭ 2x 75 1x 100 3x 150 1x 200 | 1000 | 741 | 713 | 128.2 |
| 2652323 | **1406-8** | 8 ▭ 4x 75 4x 150 | 1000 | 741 | 713 | 129.1 |
| 2652390 | **1406-8-200** | 8 ▭ 4x 75 4x 150 | 1000 | 741 | 713 | 135.0 |
| 2652331 | **1406-10** | 10 ▭ 8x 75 2x 150 | 1000 | 741 | 713 | 146.0 |
| 2652404 | **1406-10-200** | 10 ▭ 8x 75 2x 150 | 1000 | 741 | 713 | 148.9 |

Quantities in packs may vary.

## 1400 L

### TOOL CABINET

- Sturdy sheet steel construction with storage and three drawers
- With fittings for tool assortment S 1400
- Including loose modules 1500 E-1993 L and 1500 E-19 L
- With cylinder lock
- In GEDORIT blue, drawers GEDORIT silver
- Dimensions: H 970 x W 650 x D 250 mm

| Code | No. | H | W | D | |
|---|---|---|---|---|---|
| 6612600 | **1400 L** | 970 | 650 | 250 | 33.0 |

## 1401 L

### TOOL CABINET

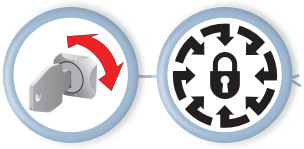
- Sturdy sheet steel construction with perforated lining for any individual arrangement
- With storage and three drawers
- With loose modules 1500 E-1993 L and 1500 E-19 L
- With cylinder lock
- In GEDORIT blue, drawers GEDORIT silver
- Dimensions: H 970 x W 650 x D 250 mm

| Code | No. | Compilation | H | W | D | |
|---|---|---|---|---|---|---|
| 5610610 | **1401 L** | Cabinet empty | 970 | 650 | 250 | 39.0 |
| 6611550 | **1401 LH** | Cabinet 1401 L<br>+ hook assortment 1500 HS 11 | 970 | 650 | 250 | 34.0 |

## R 1500 L

### TOOL CABINET

- Suitable as workbench top
- Sheet steel construction
- With metal shutter lockable by cylinder lock
- Perforated rear to take fittings for any choice of assortment
- Model LH with hook assortment no. 1500 HS 23
- Dimensions: H 890 x W 1810 x D 170 mm
- In GEDORIT blue, shutter GEDORIT silver
- Delivery without tools

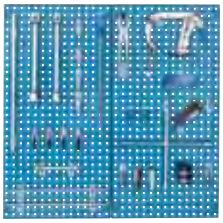


| Code | No. | H | W | D | |
|---|---|---|---|---|---|
| 6617910 | **R 1500 L** | 890 | 1810 | 170 | 78.0 |
| 6619100 | **R 1500 LH** | 890 | 1810 | 170 | 81.2 |

B 1500 L

41

Quantities in packs may vary.



# ACCESSORIES TOOL TROLLEYS / WORKBENCHES

## 1500 BL

### LIGHT STRIP FOR TOOL TROLLEYS

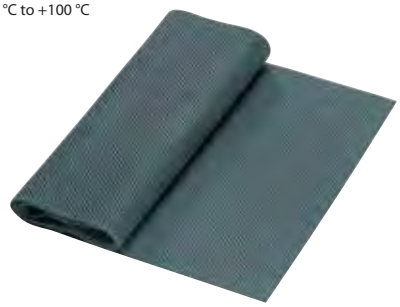
- Light strip to provide ideal illumination of drawers, particularly on GEDORE tool trolleys, tool boxes and workbenches
- A magnetic strip securely attaches the lighting to the trolley body
- Positioned above the drawers, the ten powerful LEDs illuminate the opened drawers
- This makes it easier to locate the right tool in dark or low lighting conditions, preventing the risk of cuts from chisels, knives or saw blade
- The light strip is also suitable for use on folding back panels and tool chests
- Easy battery change (three AAA batteries)
- LED technology for low power consumption and long life
- DBGM (German utility patent)
- The light strip can be used with the following GEDORE products: 2004, 2005, 2430, 2500, 3010, 2525, 2545, 2546, 2550, 2535, 3000, 1504, 1502, 1504 XL, 1506 XL, R 1504 L, R 1504 XL-L, 1505, B 1500 L, R 1500 L, B 1512, B 1513, 1406, 1400 L, 1401 L

| Code | No. | mm | |
|---|---|---|---|
| 2247542 | **1500 BL** | 430 | 280 |

## 1500 H 13

### ANTI-SLIP MAT Products sold by the metre

- For all drawers in GEDORE tool trolleys and workbenches
- Various areas of application: Workshop, household, car, spare time...
- Enormous slip resistance on many different surfaces
- Can be cut to size
- Resistant to temperatures from -30 °C to +100 °C
- Melting point approx. +250 °C
- Flame resistant
- Resistant to chemicals
- Shock- and noise absorbing
- Dimensions: W 475 x L 2000 mm



| Code | No. | |
|---|---|---|
| 5790250 | **1500 H 13** | 540 |

## 1500 WST

### WRITING SUPPORT

- For all tool trolleys 1580, 2000, 2500, 3000, 2545, 2525, 2535, 1578, and workbenches 1502, 1504, 1504 XL, 1505, 1506 XL
- Height adjustable with one swift movement
- Inclination adjustable, 4 x 90° swivel mounted for individual positioning
- Very robust for neat writing
- Keeps the working surface free
- Writing surface 310 x 400 mm
- Easy extendable, mounting material included in delivery
- Delivery without decoration

| Code | No. | |
|---|---|---|
| 5806860 | **1500 WST** | 3.9 |

## 1500 H 16

### SMALL-PARTS DRAWER FOR TOOL TROLLEYS

- To place on top of existing drawers of tool trolleys, additional surface to place small parts
- Suitable for tool trolleys and workbenches in combination with modules 1500 ES/CT: 2500, 3000, B 1500 L, 1502, 1504, 1505, 1506 XL
- Suitable for tool trolleys and workbenches without using modules 1500 ES/CT: 1580, 2000, 3010
- Tool trolley 2004: suitable for drawer height 137 and 207 mm, for 67 mm not in combination with 1500 ES/CT
- Delivery without decoration

| Code | No. | |
|---|---|---|
| 1761129 | **1500 H 16** | 644 |

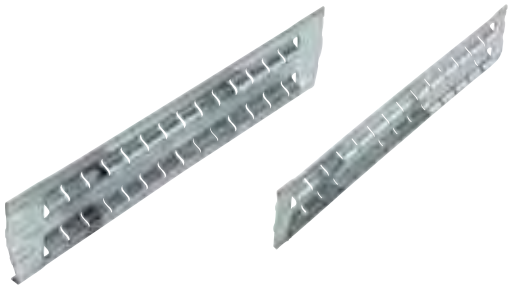
Quantities in packs may vary.

# DRAWER PARTITIONS

## E-1500 - E-3000

### LENGTHWISE DIVIDER slotted

- In three different heights
- In seven different lengths for varying drawer depths
- In zinc-plated sheet steel



| Code | No. | L | H | for use with | |
|---|---|---|---|---|---|
| 5325840 | **E-1580/14** | 317 | 42 | 1580, 2000, 3010 | 136 |
| 5326570 | **E-2500/62** | 320 | 60 | 2500 (1-7), 1431 (1), 1430 | 190 |
| 5325920 | **E-3000/36** | 346 | 60 | 3000 (1-6) | 204 |
| 1886932 | **E-2005 KL/42** | 395 | 60 | 2005, 1504 XL (type 1), 1506 XL (type 1), 2430 | 235 |
| 5326490 | **E-1504 KL/57** | 397 | 60 | 1502 (1-5), 1504 (1-6), 2003 (1-6), 2004 (type 1) | 208 |
| 2335239 | **E-2545/070** | 409 | 50 | 2545, 2546, 2550 | 200 |
| 5315880 | **E-B 1500/38** | 548 | 60 | B 1500 (1-3), 1505 (1-3) | 312 |

## E-1580

### CROSSWISE DIVIDER

- Usage: 1580, 2000, 3010
- In three different lengths, to fit the lengthwise dividers
- In zinc-plated sheet steel

| Code | No. | L | H | |
|---|---|---|---|---|
| 1394878 | **E-1580/11-40** | 40 | 40 | 12 |
| 5325760 | **E-1580/11-80** | 80 | 40 | 24 |
| 5326140 | **E-1580/11-120** | 120 | 40 | 36 |

## E-2545 - E-3000

### CROSSWISE DIVIDER

Usage:

- **E-3000**: 1430, 1431 (1), B 1500 (1-3), 1502 (1-5), 1504 (1-6), 1504 XL, 1505 (1-3), 1506 XL (type 1), 2004 (type 1), 2005 (type 1), 2430, 2500 (1-7), 3000
- **E-2545**: for 2550 consisting of 2545 and 2546
- In zinc-plated sheet steel

| Code | No. | L | H | |
|---|---|---|---|---|
| 5326060 | **E-3000/37-80** | 80 | 55 | 35 |
| 5326220 | **E-3000/37-120** | 120 | 55 | 50 |
| 2335220 | **E-2545/99** | 99 | 50 | 100 |

# TOOL HOLDERS / TOOL HOOKS

- Suitable for GEDORE tool trolleys and panels with square perforation 9 x 33 mm

## 1500 H 0

### TOOL HOOK straight mandrel

- Ø 4 mm especially suitable for GEDORE screwdrivers with hanging hole
- Suitable for perforated panels with square perforation 9 x 33 mm and 10 x 38 mm
- Zinc-plated

| Code | No. | Ø | mm | | |
|---|---|---|---|---|---|
| 5803410 | **1500 H 0-50** | 4 | 50 | 28 | 10 |

## 1500 H 1

### TOOL HOOK inclined hook end

- Suitable for perforated panels with square perforation 9 x 33 mm and 10 x 38 mm
- Zinc-plated

| Code | No. | Ø | mm | | |
|---|---|---|---|---|---|
| 5803680 | **1500 H 1-50** | 4 | 50 | 28 | 10 |

## 1500 H 2 - 1500 H 3

### SPRING CLAMP

- Suitable for perforated panels with square perforation 9 x 33 mm and 10 x 38 mm
- Zinc-plated

H2

H3

| Code | No. | Ø | mm | | |
|---|---|---|---|---|---|
| 2008351 | **1500 H 2-10** | 10-12 | 31 | 25 | 10 |
| 5803760 | **1500 H 2-13** | 12-16 | 31 | 26 | 10 |
| 2008378 | **1500 H 2-16** | 16-18 | 31 | 27 | 10 |
| 5803840 | **1500 H 3** | 23-29 | 44 | 28 | 10 |



Quantities in packs may vary.

## 1500 H 4

### BASE PLATE

- With M6 thread for universal fixing
- Suitable for perforated panels with square perforation 9 x 33 mm and 10 x 38 mm
- Zinc-plated

| Code | No. | | |
|---|---|---|---|
| 1446185 | **1500 H 4** | 26 | 10 |

## 1500 H 5

### PAPER ROLL HOLDER

- Suitable for perforated panels with square perforation 9 x 33 mm and 10 x 38 mm

| Code | No. | mm | Ø | | |
|---|---|---|---|---|---|
| 5798660 | **1500 H 5** | 250 | 6 | 94 | 1 |

## 1500 H 6

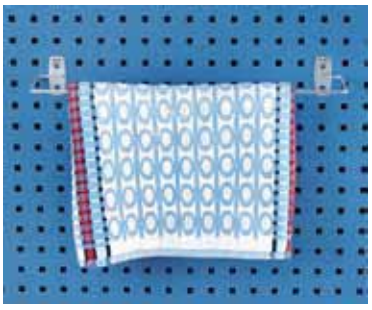
### CABLE REEL HOOK

- Suitable for perforated panels with square perforation 9 x 33 mm
- Delivery without decoration

| Code | No. | W | H | D | | |
|---|---|---|---|---|---|---|
| 5797850 | **1500 H 6** | 110 | 40 | 60 | 95 | 1 |

## 1500 H 8

### HOLDER



| Code | No. | W | Ø | |
|---|---|---|---|---|
| 5792460 | **1500 H 8** | 456 | 5 | 150 |

## 1500 H 9

### TRAY

- A handy place to keep tools that are needed constantly
- 1500 H 9-75 can be fitted in connection with door element 3000 H 14

| Code | No. | W | H | D | |
|---|---|---|---|---|---|
| 1446924 | **1500 H 9-75** | 456 | 50 | 75 | 854 |
| 5792540 | **1500 H 9-100** | 456 | 50 | 100 | 854 |

## 1500 H 10

### TRAY

- With four partitions, for often-needed small parts
- 1500 H 10-75 can be fitted in connection with door element 3000 H 14

| Code | No. | W | H | D | |
|---|---|---|---|---|---|
| 1446932 | **1500 H 10-75** | 456 | 50 | 75 | 766 |
| 5792620 | **1500 H 10-100** | 456 | 50 | 100 | 840 |

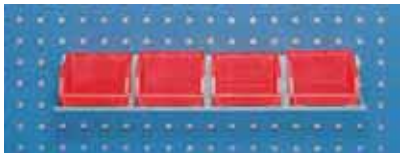

3000 TANTO

26

## 1500 H 11

### TRAY

- With 4 plastic cases 1500 H-11/3, for holding larger quantities of working materials
- Cannot be fitted in connection with door element 3000 H 14



| Code | No. | W | H | D | |
|---|---|---|---|---|---|
| 5792700 | **1500 H 11** | 456 | 55 | 95 | 655 |

## 1500 H 18

### TOOL HOOK straight mandrel

- Suitable for perforated panels with square perforation 9 x 33 mm and 10 x 38 mm
- Zinc-plated
- Delivery without tools

| Code | No. | Ø | mm | | |
|---|---|---|---|---|---|
| 2008386 | **1500 H 18-50** | 6 | 50 | 34 | 10 |
| 2008394 | **1500 H 18-100** | 6 | 100 | 46 | 10 |
| 2008408 | **1500 H 18-150** | 6 | 150 | 56 | 10 |

## 1500 H 19

### TOOL HOLDER double, straight mandrel

- Suitable for perforated panels with square perforation 9 x 33 mm
- Zinc-plated
- Delivery without tools

| Code | No. | Ø | mm | | |
|---|---|---|---|---|---|
| 2008416 | **1500 H 19-50** | 6 | 50 | 74 | 5 |
| 2008424 | **1500 H 19-100** | 6 | 100 | 98 | 5 |
| 2008432 | **1500 H 19-150** | 6 | 150 | 118 | 5 |

Quantities in packs may vary.

## 1500 H 20

### TOOL HOLDER vertical hook end

- Suitable for perforated panels with square perforation 9 x 33 mm and 10 x 38 mm
- Zinc-plated
- Delivery without decoration

| Code | No. | Ø | mm | | |
|---|---|---|---|---|---|
| 1879162 | **1500 H 20-35** | 6 | 35 | 34 | 10 |
| 2008440 | **1500 H 20-75** | 6 | 75 | 46 | 10 |
| 2008459 | **1500 H 20-135** | 6 | 135 | 56 | 10 |

## 1500 H 21

### TOOL HOLDER double, vertical hook end

- For hammers and ratchets
- Suitable for perforated panels with square perforation 9 x 33 mm
- Zinc-plated
- Delivery without tools

| Code | No. | Ø | mm | | |
|---|---|---|---|---|---|
| 2008475 | **1500 H 21-35** | 6 | 35 | 76 | 5 |
| 1879170 | **1500 H 21-50** | 6 | 50 | 80 | 5 |
| 2008483 | **1500 H 21-75** | 6 | 75 | 90 | 5 |

## 1500 H 22

### TOOL HOLDER for pliers

- Suitable for perforated panels with square perforation 9 x 33 mm
- Zinc-plated
- Delivery without tools

| Code | No. | W | D | | |
|---|---|---|---|---|---|
| 2008491 | **1500 H 22-35** | 35 | 20 | 62 | 5 |
| 1879189 | **1500 H 22-55** | 55 | 20 | 66 | 5 |
| 2008505 | **1500 H 22-75** | 75 | 20 | 68 | 5 |

## 1500 H 23

### MACHINE HOLDER FOR BATTERY SCREWDRIVER

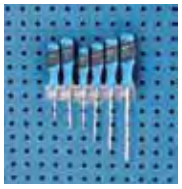
- Suitable for perforated panels with square perforation 9 x 33 mm
- Zinc-plated
- Delivery without tools

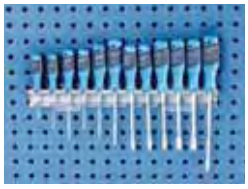
| Code | No. | Ø | | |
|---|---|---|---|---|
| 2008513 | **1500 H 23-40** | 40 | 68 | 5 |
| 1879197 | **1500 H 23-60** | 60 | 60 | 5 |
| 2008521 | **1500 H 23-80** | 80 | 80 | 5 |

## 1500 H 24

### TOOL HOLDER for screwdrivers

- Suitable for perforated panels with square perforation 9 x 33 mm
- Powder-coated
- Delivery without tools



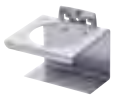


| Code | No. | Execution | | |
|---|---|---|---|---|
| 1879200 | **1500 H 24-6** | for 6 pieces | 100 | 1 |
| 2008548 | **1500 H 24-12** | for 12 pieces | 400 | 1 |

## 1500 H 25

### TOOL HOLDER for 3 cans

- Suitable for perforated panels with square perforation 9 x 33 mm
- Powder-coated
- Delivery without decoration

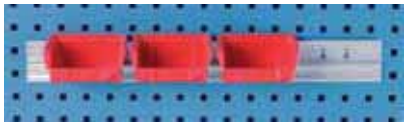


| Code | No. | Ø | W | | |
|---|---|---|---|---|---|
| 2008556 | **1500 H 25-1** | 70 | 100 | 200 | 1 |
| 1879219 | **1500 H 25-3** | 70 | 300 | 600 | 1 |

## 1500 H 26

### MOUNTING RAIL FOR STORAGE BOXES

- Suitable for perforated panels with square perforation 9 x 33 mm
- No. 1500 H 26-1 for one storage box (max. 105 mm wide)
- No. 1500 H 26 for up to 4 storage boxes (depending on width)
- Powder-coated
- Delivery without storage boxes



| Code | No. | mm | | |
|---|---|---|---|---|
| 2008564 | **1500 H 26-1** | 55 | 50 | 5 |
| 1933183 | **1500 H 26** | 495 | 418 | 1 |

## 1500 H 27

### SOCKET HOLDER

- With 11 holes
- Hole diameter 10x 25 mm and 1x 27.5 mm
- Suitable for perforated panels with square perforation 9 x 33 mm
- Powder-coated
- Delivery without tools

| Code | No. | W | H | D | | |
|---|---|---|---|---|---|---|
| 1920634 | **1500 H 27** | 352 | 60 | 54 | 500 | 1 |

## 1500 H 28

### SHELF

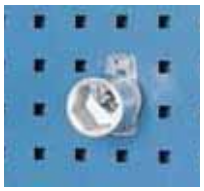
- Suitable for perforated panels with square perforation 9 x 33 mm
- Powder-coated

| Code | No. | W | H | D | | |
|---|---|---|---|---|---|---|
| 1933191 | **1500 H 28** | 496 | 168 | 303 | 3000 | 1 |

## 1500 H 29

### TOOL HOOK inclined hook end

- Suitable for perforated panels with square perforation 9 x 33 mm and 10 x 38 mm
- Zinc-plated
- Delivery without tools



| Code | No. | Ø | mm | | |
|---|---|---|---|---|---|
| 2008572 | **1500 H 29-50** | 6 | 50 | 34 | 10 |
| 2008580 | **1500 H 29-100** | 6 | 100 | 46 | 10 |

## 1500 H 30

### TOOL HOOK for sockets

- Suitable for perforated panels with square perforation 9 x 33 mm and 10 x 38 mm
- Zinc-plated

| Code | No. | $L_1$ | $L_2$ | Ø | | |
|---|---|---|---|---|---|---|
| 2008599 | **1500 H 30** | 15 | 40 | 6 | 34 | 10 |



Quantities in packs may vary.

## 1500 H 31

### ROUND HOLDER

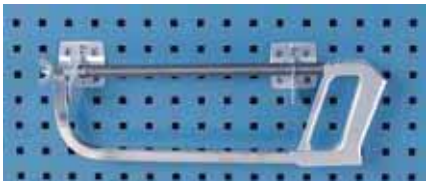
- Suitable for perforated panels with square perforation 9 x 33 mm
- Zinc-plated
- Delivery without tools

| Code | No. | W | L | | |
|---|---|---|---|---|---|
| 2008602 | **1500 H 31** | 27 | 65 | 68 | 5 |

## 1500 H 32

### SAW HOLDER

- Suitable for perforated panels with square perforation 9 x 33 mm
- For 4 saws. Please order in pairs!
- Powder-coated
- Delivery without tools

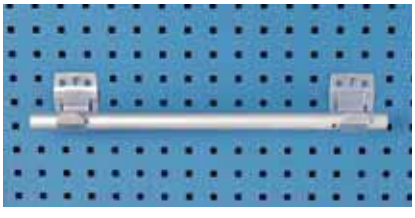


| Code | No. | D | H | | |
|---|---|---|---|---|---|
| 2008610 | **1500 H 32** | 80 | 52 | 86 | 1 |

## 1500 H 33

### TUBE HOLDER

- Suitable for perforated panels with square perforation 9 x 33 mm
- Hook width 35 mm
- Powder-coated
- Delivery without decoration

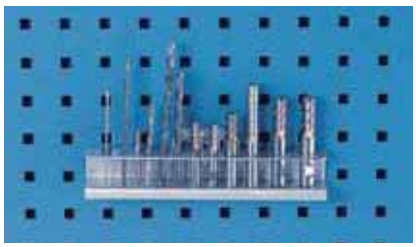


| Code | No. | W | H | D | Ø | | |
|---|---|---|---|---|---|---|---|
| 2008629 | **1500 H 33-60** | 58 | 67 | 74 | 60 | 114 | 1 |
| 2008637 | **1500 H 33-100** | 58 | 96 | 114 | 100 | 156 | 1 |

## 1500 H 34

### DRILL-BIT HOLDER

- Suitable for perforated panels with square perforation 9 x 33 mm
- No. **1500 H 34-14** with 14 holes, diam.:
- 2 ea. 3.0 4.2 6.5 7.5 8.5 16.5 mm, 1 ea. 10.5 12.5 mm
- No. **1500 H 34-28** with 28 holes, diam.:
- 4 ea. 3.2 4.2 6.5 7.5 8.5 16.5 mm, 2 ea. 10.5 12.5 mm
- Powder-coated
- Delivery without tools



| Code | No. | W | H | D | | |
|---|---|---|---|---|---|---|
| 2008645 | **1500 H 34-14** | 200 | 60 | 37 | 200 | 1 |
| 2008653 | **1500 H 34-28** | 390 | 60 | 37 | 400 | 1 |

## 1500 H 35

### HOLDER FOR ALLEN KEYS

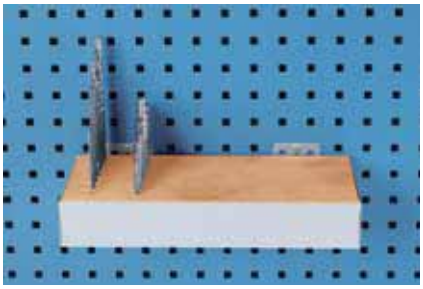
- Suitable for perforated panels with square perforation 9 x 33 mm
- Powder-coated

| Code | No. | W | H | | |
|---|---|---|---|---|---|
| 2008661 | **1500 H 35** | 200 | 73 | 300 | 1 |

## 1500 H 36

### TOOL HOLDER

- For customising (wooden plate)
- Suitable for perforated panels with square perforation 9 x 33 mm
- Powder-coated
- Delivery without tools



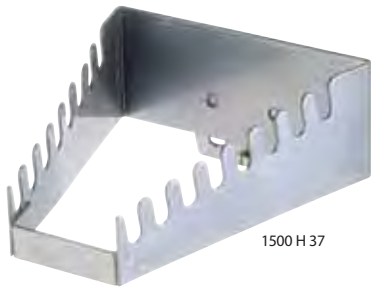
| Code | No. | W | H | D | | |
|---|---|---|---|---|---|---|
| 2008688 | **1500 H 36** | 340 | 55 | 135 | 1100 | 1 |

## 1500 H 37 - 1500 H 38

### SPANNER HOLDER

- Suitable for perforated panels with square perforation 9 x 33 mm
- No. **1500 H 37**: for 8 spanners, suitable for no. 1 B, 2, 4, 6, 7, 7 R, 7 UR
- No. **1500 H 38**: for 10 spanners, suitable for no. 2, 6
- Powder-coated
- Delivery without tools

1500 H 38



1500 H 37

| Code | No. | W | H | D | | |
|---|---|---|---|---|---|---|
| 2008696 | **1500 H 37** | 124 | 66 | 145 | 220 | 1 |
| 1920626 | **1500 H 38** | 75-147 | 227 | 60 | 400 | 1 |

## 1500 H 39

### TOOL HOLDER for pliers

- Suitable for perforated panels with square perforation 9 x 33 mm
- Zinc-plated
- Delivery without tools

| Code | No. | | |
|---|---|---|---|
| 2656582 | **1500 H 39** | 65 | 5 |

## VH 1

### TOOL HOLDER EMPTY for 8 spanners

- With handle, transport safety device (anti-theft device) and self-service suspension
- Suitable for the sets 1 B-080, 4-8, 6-8, and 7-080 as well for 7 R and 7 UR
- Delivery without tools

| Code | No. | | |
|---|---|---|---|
| 1465147 | **VH 1** | 74 | 1 |

## WVH 1

### TOOL HOLDER EMPTY for 8 spanners

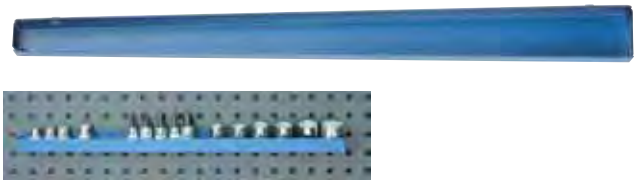
- Can be fixed firmly to various wall types, e.g. EURO-perforation panels, GEDORE perforation panels, wooden and stone walls
- Includes base support WH 1, tool holder VH 1 and two distance washers for fixing to wooden walls
- Suitable for the sets 1 B-080, 4-8, 6-8, and 7-080 as well as 7 R and 7 UR
- Delivery without tools

| Code | No. | Description | | |
|---|---|---|---|---|
| 1465120 | **WVH 1** | Wall holder complete, empty | 276 | 1 |
| 1465155 | **WH 1** | Base support | 116 | 1 |
| 1476386 | **WH 1 S** | Base support with distance washers | 160 | 1 |
| 1465171 | **E-WVH 1/4** | Distance washers for WVH 1 | 20 | 1 |

## VS 19 H

### TOOL TRAY

- For sockets
- Dimensions: W 570 x D 25-45 mm
- In sheet steel, GEDORIT blue



| Code | No. | W | D | | |
|---|---|---|---|---|---|
| 5152640 | **VS 19 H** | 570 | 25-45 | 550 | 1 |

## VS 245 H

### CHISEL HOLDER EMPTY

- For 6 chisels
- Dimensions: W 195 x H 95 x D 22 mm
- In sheet steel, GEDORIT blue

| Code | No. | W | H | D | | |
|---|---|---|---|---|---|---|
| 5456270 | **VS 245 H** | 195 | 95 | 22 | 300 | 1 |

## VS 1500 H

### GENERAL PURPOSE BOX

- Dimensions: H 330 x W 230 x D 100/120 mm

| Code | No. | |
|---|---|---|
| 5797770 | **VS 1500 H** | 1500 |

## VS 1582

### STORAGE TRAY

| Code | No. | H | W | D | | |
|---|---|---|---|---|---|---|
| 5150000 | **VS 1582-1** | 50 | 320 | 150 | 1016 | 1 |
| 5150190 | **VS 1582-2** | 150 | 320 | 50 | 1270 | 1 |
| 5150270 | **VS 1582-3** | 100 | 320 | 90 | 1118 | 1 |

## H 6

### HOLDER

- For double open ended spanner sets no. 6
- Suitable for perforated panels with square perforation 9 x 33 mm

E-PH 6

H 6-8 L

H 6-12 L

H 6-8 B

H 6-12 B

| Code | No. | Description | W | H | D | | |
|---|---|---|---|---|---|---|---|
| 5079110 | **H 6-8 B** | Sheet metal holder, empty for 8 spanners no. 6 | 390 | 140 | 15 | 372 | 1 |
| 5079540 | **H 6-12 B** | Sheet metal holder, empty for 12 spanners no. 6 | 600 | 170 | 15 | 655 | 1 |
| 5070080 | **H 6-8 L** | Plastic holder, empty for 8 spanners no. 6 | 250 | 70 | 57 | 154 | 1 |
| 5070160 | **H 6-12 L** | Plastic holder, empty for 12 spanners no. 6 | 325 | 100 | 57 | 270 | 1 |
| 5073930 | **E-PH 6-8 L** | Plastic holder, empty for 8 spanners no. 6 | | | | 18 | 1 |
| 5074070 | **E-PH 6-12 L** | Plastic holder, empty for 12 spanners no. 6 | | | | 38 | 1 |



Quantities in packs may vary.

## 1500 HS

### HOOK ASSORTMENT

◤ Suitable for perforated panels with square perforation 9 x 33 mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 5799980 | **1500 HS 11** | 14x **1500 H** 0-50<br>23x **1500 H** 1-50<br>1x **1500 H** 2-13<br>2x **1500 H** 3<br>1x **1500 H** 38<br>1x **VS 245 H** | 2680 | 1 |
| 5802010 | **1500 HS 14** | 6x **1500 H** 0-50<br>20x **1500 H** 1-50<br>6x **1500 H** 2-13<br>1x **1500 H** 3<br>1x **VS 245 H**<br>1x **VS 19 H**<br>1x **H 6-8 B** | 2388 | 1 |
| 5804060 | **1500 HS 17** | 15x **1500 H** 0-50<br>32x **1500 H** 1-50<br>4x **1500 H** 2-13<br>2x **1500 H** 3<br>1x **1500 H** 27<br>1x **1500 H** 38<br>2x **VS 245 H**<br>1x **VS 19 H** | 3514 | 1 |
| 5804220 | **1500 HS 23** | 17x **1500 H** 0-50<br>43x **1500 H** 1-50<br>12x **1500 H** 2-13<br>10x **1500 H** 3<br>1x **1500 H** 38<br>1x **VS 245 H**<br>1x **VS 19 H** | 4958 | 1 |
| 2008742 | **1500 HS 28** | 4x **1500 H** 20-35<br>2x **1500 H** 20-75<br>2x **1500 H** 20-135<br>6x **1500 H** 21-35<br>2x **1500 H** 22-35<br>1x **1500 H** 23-40<br>1x **1500 H** 24-6<br>3x **1500 H** 29-50<br>3x **1500 H** 29-100<br>2x **1500 H** 31<br>1x **1500 H** 34-14<br>1x **1500 H** 37 | 1768 | 1 |
| 5802440 | **1504 HS** | 13x **1500 H** 0-50<br>13x **1500 H** 1-50<br>2x **VS 245 H**<br>1x **H 6-12 B** | 1958 | 1 |
| 5801550 | **1585 HS** | 10x **1500 H** 1-50<br>5x **1500 H** 2-13<br>5x **1500 H** 3 | 654 | 1 |
| 2656930 | **1500 HS-1000** | 6x **1500 H** 0-50<br>15x **1500 H** 1-50<br>2x **1500 H** 2-10<br>5x **1500 H** 3<br>4x **1500 H** 29-50<br>9x **1500 H** 30<br>3x **1500 H** 39 | 1109 | 1 |
| 2656949 | **1500 HS-1002** | 1x **1500 H** 0-50<br>31x **1500 H** 1-50<br>16x **1500 H** 2-10<br>6x **1500 H** 3<br>8x **1500 H** 29-50<br>15x **1500 H** 30<br>6x **1500 H** 39<br>8x **VS 245 H** | 4526 | 1 |
| 2657058 | **1500 HS-1004** | 13x **1500 H** 0-50<br>28x **1500 H** 1-50<br>6x **1500 H** 2-10<br>6x **1500 H** 3<br>4x **1500 H** 29-50<br>20x **1500 H** 30<br>5x **1500 H** 39 | 1927 | 1 |
| 2656965 | **1500 HS-1005 A** | 5x **1500 H** 0-50<br>19x **1500 H** 1-50<br>9x **1500 H** 2-10<br>12x **1500 H** 3<br>8x **1500 H** 29-50<br>23x **1500 H** 30<br>1x **1500 H** 37<br>4x **1500 H** 39 | 1985 | 1 |
| 2656884 | **1500 HS-1006** | 5x **1500 H** 0-50<br>39x **1500 H** 1-50<br>11x **1500 H** 3<br>19x **1500 H** 9-75<br>10x **1500 H** 29-50<br>30x **1500 H** 30<br>6x **1500 H** 39 | 19516 | 1 |
| 2657015 | **1500 HS-1007** | 19x **1500 H** 0-50<br>44x **1500 H** 1-50<br>13x **1500 H** 2-10<br>7x **1500 H** 3<br>3x **1500 H** 9-75<br>7x **1500 H** 29-50<br>23x **1500 H** 30<br>1x **1500 H** 37<br>14x **1500 H** 39 | 6215 | 1 |
| 2656973 | **1500 HS-1008** | 20x **1500 H** 0-50<br>27x **1500 H** 1-50<br>10x **1500 H** 2-10<br>7x **1500 H** 3<br>7x **1500 H** 9-75<br>3x **1500 H** 29-50<br>21x **1500 H** 30<br>3x **1500 H** 37<br>9x **1500 H** 39 | 9087 | 1 |
| 2656922 | **1500 HS-1016** | 18x **1500 H** 1-50<br>6x **1500 H** 2-10<br>3x **1500 H** 39 | 849 | 1 |
| 2656906 | **1500 HS-1023** | 5x **1500 H** 0-50<br>35x **1500 H** 1-50<br>5x **1500 H** 2-10<br>2x **1500 H** 3<br>2x **1500 H** 9-75<br>4x **1500 H** 39 | 3269 | 1 |
| 2657082 | **1500 HS-1024** | 16x **1500 H** 0-50<br>26x **1500 H** 1-50<br>3x **1500 H** 2-10<br>11x **1500 H** 3<br>2x **1500 H** 29-50<br>6x **1500 H** 30<br>4x **1500 H** 39 | 1887 | 1 |
| 2657112 | **1500 HS-1025** | 8x **1500 H** 0-50<br>16x **1500 H** 1-50<br>1x **1500 H** 2-10<br>4x **1500 H** 3<br>1x **1500 H** 29-50<br>1x **1500 H** 39 | 908 | 1 |
| 2657074 | **1500 HS-1050** | 5x **1500 H** 0-50<br>10x **1500 H** 1-50<br>2x **1500 H** 2-10<br>1x **1500 H** 3<br>2x **1500 H** 29-50<br>2x **1500 H** 39 | 696 | 1 |
| 2656914 | **1500 HS-1090** | 11x **1500 H** 0-50<br>15x **1500 H** 1-50<br>6x **1500 H** 2-10<br>2x **1500 H** 3<br>7x **1500 H** 9-75<br>3x **1500 H** 29-50<br>4x **1500 H** 37<br>6x **1500 H** 39 | 8284 | 1 |
| 2657104 | **1500 HS-1091** | 12x **1500 H** 0-50<br>6x **1500 H** 1-50<br>1x **1500 H** 2-10<br>1x **1500 H** 3<br>3x **1500 H** 39 | 752 | 1 |
| 2657066 | **1500 HS-1092** | 9x **1500 H** 0-50<br>12x **1500 H** 1-50<br>1x **1500 H** 3<br>2x **1500 H** 29-50<br>1x **1500 H** 30<br>2x **1500 H** 39 | 814 | 1 |
| 2657031 | **1500 HS-1093** | 9x **1500 H** 0-50<br>8x **1500 H** 1-50<br>1x **1500 H** 2-10<br>2x **1500 H** 3<br>2x **1500 H** 30<br>4x **1500 H** 39 | 817 | 1 |
| 2656892 | **1500 HS-1150** | 3x **1500 H** 0-50<br>12x **1500 H** 1-50<br>4x **1500 H** 2-10<br>1x **1500 H** 3<br>17x **1500 H** 29-50<br>2x **1500 H** 39<br>6x **VS 245 H** | 3056 | 1 |
| 2656981 | **1500 HS-1151** | 4x **1500 H** 0-50<br>13x **1500 H** 1-50<br>1x **1500 H** 2-10<br>5x **1500 H** 3<br>9x **1500 H** 29-50<br>13x **1500 H** 30<br>1x **1500 H** 37<br>3x **1500 H** 39<br>1x **VS 245 H** | 1662 | 1 |
| 2657090 | **1500 HS-1151 A** | 5x **1500 H** 0-50<br>19x **1500 H** 1-50<br>1x **1500 H** 2-10<br>5x **1500 H** 3<br>2x **1500 H** 29-50<br>15x **1500 H** 30<br>1x **1500 H** 37<br>3x **1500 H** 39<br>1x **VS 245 H** | 1620 | 1 |
| 2656957 | **1500 HS-1400 GA** | 18x **1500 H** 0-50<br>17x **1500 H** 1-50<br>6x **1500 H** 3<br>7x **1500 H** 29-50<br>19x **1500 H** 30<br>24x **1500 H** 37<br>5x **1500 H** 39<br>14x **VS 245 H** | 11191 | 1 |
| 2657023 | **1500 HS-1400 Z** | 3x **1500 H** 0-50<br>5x **1500 H** 1-50<br>6x **1500 H** 2-10<br>7x **1500 H** 3<br>8x **1500 H** 29-50<br>1x **1500 H** 30<br>1x **1500 H** 39 | 907 | 1 |

**Please refer to the overview chart on page 54 – 55 for detailed information**

Quantities in packs may vary.

# Overview Contents Hook Assortments 1500 HS

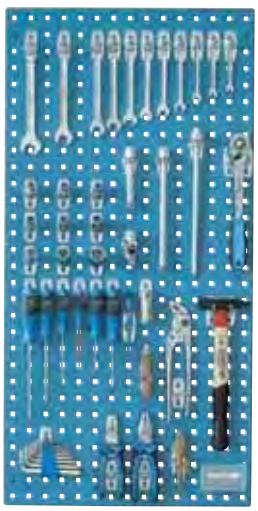
| Code | | 5803410 | 5803680 | 2008351 | 5803760 | 5803840 | 1446924 | 1879162 | 2008440 | 2008459 | 2008475 | 2008491 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | No. | **1500 H 0-50** | **1500 H 1-50** | **1500 H 2-10** | **1500 H 2-13** | **1500 H 3** | **1500 H 9-75** | **1500 H 20-35** | **1500 H 20-75** | **1500 H 20-135** | **1500 H 21-35** | **1500 H 22-35** |
| | | | | | | |  | | | | | |
| 5799980 | **1500 HS 11** | 14 | 23 | | 1 | 2 | | | | | | |
| 5802010 | **1500 HS 14** | 6 | 20 | | 6 | 1 | | | | | | |
| 5804060 | **1500 HS 17** | 15 | 32 | | 4 | 2 | | | | | | |
| 5804220 | **1500 HS 23** | 17 | 43 | | 12 | 10 | | | | | | |
| 2008742 | **1500 HS 28** | | | | | | | 4 | 2 | 2 | 6 | 2 |
| 5802440 | **1504 HS** | 13 | 13 | | | | | | | | | |
| 5801550 | **1585 HS** | | 10 | | 5 | 5 | | | | | | |
| 2656892 | **1500 HS-1150** | 3 | 12 | 4 | | 1 | | | | | | |
| 2656884 | **1500 HS-1006** | 5 | 39 | | | 11 | 19 | | | | | |
| 2656906 | **1500 HS-1023** | 5 | 35 | 5 | | 2 | 2 | | | | | |
| 2656914 | **1500 HS-1090** | 11 | 15 | 6 | | 2 | 7 | | | | | |
| 2656922 | **1500 HS-1016** | | 18 | 6 | | | | | | | | |
| 2656930 | **1500 HS-1000** | 6 | 15 | 2 | | 5 | | | | | | |
| 2656949 | **1500 HS-1002** | 1 | 31 | 16 | | 6 | | | | | | |
| 2656957 | **1500 HS-1400 GA** | 18 | 17 | | | 6 | | | | | | |
| 2656965 | **1500 HS-1005 A** | 5 | 19 | 9 | | 12 | | | | | | |
| 2656973 | **1500 HS-1008** | 20 | 27 | 10 | | 7 | 7 | | | | | |
| 2656981 | **1500 HS-1151** | 4 | 13 | 1 | | 5 | | | | | | |
| 2657015 | **1500 HS-1007** | 19 | 44 | 13 | | 7 | 3 | | | | | |
| 2657023 | **1500 HS-1400 Z** | 3 | 4 | 6 | | 7 | | | | | | |
| 2657031 | **1500 HS-1093** | 9 | 8 | 1 | | 2 | | | | | | |
| 2657058 | **1500 HS-1004** | 13 | 28 | 6 | | 6 | | | | | | |
| 2657066 | **1500 HS-1092** | 9 | 12 | | | 1 | | | | | | |
| 2657074 | **1500 HS-1050** | 5 | 10 | 2 | | 1 | | | | | | |
| 2657082 | **1500 HS-1024** | 16 | 26 | 3 | | 11 | | | | | | |
| 2657090 | **1500 HS-1151 A** | 5 | 19 | 1 | | 5 | | | | | | |
| 2657104 | **1500 HS-1091** | 12 | 6 | 1 | | 1 | | | | | | |
| 2657112 | **1500 HS-1025** | 8 | 16 | 1 | | 4 | | | | | | |


## S 1092

74

## S 1000

72






Quantities in packs may vary.

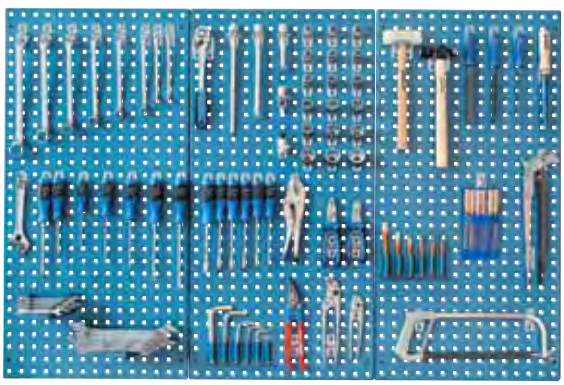
| 2008513 | 1879200 | 1920634 | 2008572 | 2008580 | 2008599 | 2008602 | 2008645 | 2008696 | 1920626 | 2656582 | 5456270 | 5152640 | 5079110 | 5079540 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1500 H 23-40** | **1500 H 24-6** | **1500 H 27** | **1500 H 29-50** | **1500 H 29-100** | **1500 H 30** | **1500 H 31** | **1500 H 34-14** | **1500 H 37** | **1500 H 38** | **1500 H 39** | **VS 245 H** | **VS 19 H** | **H 6-8 B** | **H 6-12 B** |
| | | | | | | | | | | | |  | | |
| | | | | | | | | | 1 | | 1 | | | |
| | | | | | | | | | | | 1 | 1 | 1 | |
| | | 1 | | | | | | | 1 | | 2 | 1 | | |
| | | | | | | | | | 1 | | 1 | 1 | | |
| 1 | 1 | | 3 | 3 | | 2 | 1 | 1 | | | | | | |
| | | | | | | | | | | | 2 | | | 1 |
| | | | | | | | | | | | | | | |
| | | | 17 | | | | | | | 2 | 6 | | | |
| | | | 10 | | 30 | | | | | 6 | | | | |
| | | | | | | | | | | 4 | | | | |
| | | | 3 | | | | | 4 | | 6 | | | | |
| | | | | | | | | | | 3 | | | | |
| | | | 4 | | 9 | | | | | 3 | | | | |
| | | | 8 | | 15 | | | | | 6 | 8 | | | |
| | | | 7 | | 19 | | | 24 | | 5 | 14 | | | |
| | | | 8 | | 23 | | | 1 | | 4 | | | | |
| | | | 3 | | 21 | | | 3 | | 9 | | | | |
| | | | 9 | | 13 | | | 1 | | 3 | 1 | | | |
| | | | 7 | | 23 | | | 1 | | 14 | | | | |
| | | | 8 | | 1 | | | | | 1 | | | | |
| | | | | | 2 | | | | | 4 | | | | |
| | | | 4 | | 20 | | | | | 5 | | | | |
| | | | 2 | | 1 | | | | | 2 | | | | |
| | | | 2 | | | | | | | 2 | | | | |
| | | | 2 | | 6 | | | | | 4 | | | | |
| | | | 2 | | 15 | | | 1 | | 3 | 1 | | | |
| | | | | | | | | | | 3 | | | | |
| | | | 1 | | | | | | | 1 | | | | |

## S 1151 A

89

## S 1400 GA

91



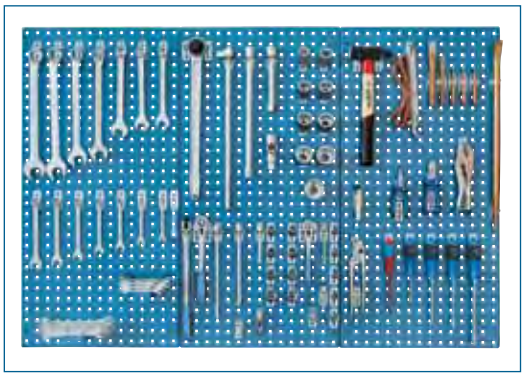
Quantities in packs may vary.

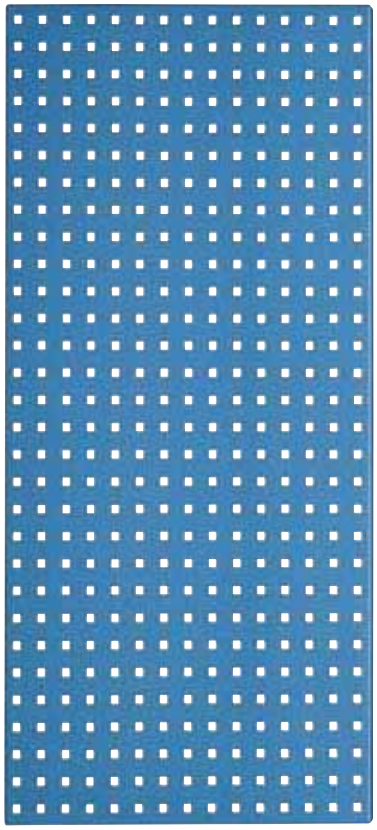
# TOOL PANELS

## 1450 L

**TOOL PANEL for tool assortment, 65 pieces**

- Proposed tool assortment serves as the basic equipment for workshop, garage or hobby
- Further panels can be added in either direction, with special spacers for wall fitting
- Made from solid sheet steel 1.5 mm thick, all 4 edges are bevelled
- Dimensions: L 1000 x H 500 mm
- In GEDORIT blue
- Tools not supplied





| Code | No. | L | H | |
|---|---|---|---|---|
| 5617110 | **1450 L** | 1000 | 500 | 5.5 |

# STAND ASHTRAY

## 1500 ST

**STAND ASHTRAY**

- Sturdy design in powder-coated sheet steel
- Convenient apertures for larger litter on three sides
- Ashtray insert in sheet steel

| Code | No. | L | W | H | | |
|---|---|---|---|---|---|---|
| 1531468 | **1500 ST** | 200 | 200 | 630 | 5.1 | 1 |

# Optional accessories

## S 1151 / S 1151 A

82
89

S 1151

S 1151 A



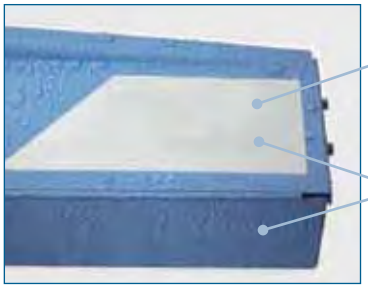
Quantities in packs may vary.

# TOOL BOXES

- With riveted joins
- Compartments to be fully pulled out
- Great stability even if only one side is opened
- In GEDORIT blue
- Tools not supplied

## Tool boxes

- Made of electrolytically zinc-plated sheet steel and therefore suitable for outdoors

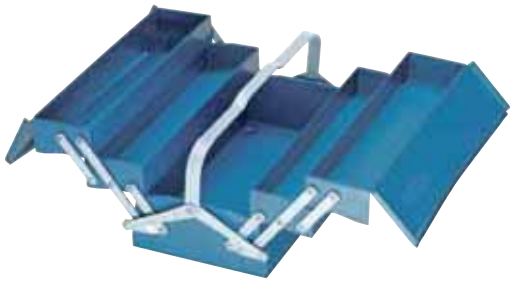


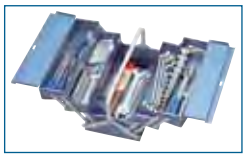
- As the zinc coating acts as a sacrificial anode, it protects should the other protective coating become damaged
- Optimum corrosion-proofing achieved with two protective coats, zinc and powder coating

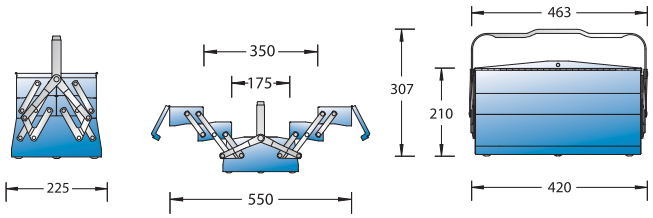
## 1265 L

### TOOL BOX 5 compartments

- With riveted joins
- Compartments to be fully pulled out
- Great stability even if only one side is opened
- GEDORIT blue powder-coated
- Dimensions: H 210 x W 420 x D 225 mm
- Particularly suitable for tool assortments S 1151 and S 1151 A
- Delivery without tools





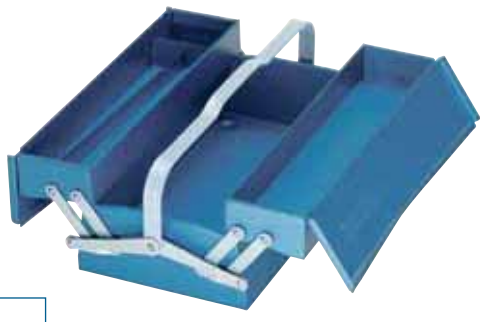


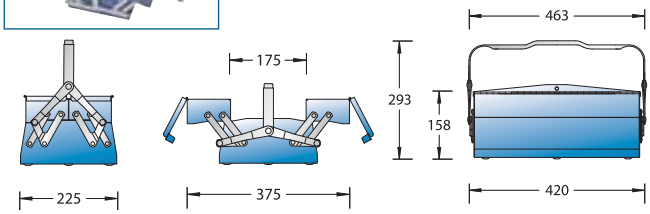

| Code | No. | H | W | D | |
|---|---|---|---|---|---|
| 6609060 | **1265 L** | 210 | 420 | 225 | 5.2 |

## 1263 L

### TOOL BOX 3 compartments

- With riveted joins
- Compartments to be fully pulled out
- Great stability even if only one side is opened
- GEDORIT blue powder-coated
- Dimensions: H 158 x W 420 x D 225 mm
- Particularly suitable for tool assortments S 1150, S 1151 and S 1151 A
- Delivery without tools



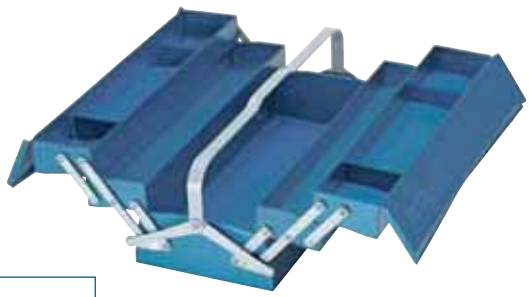


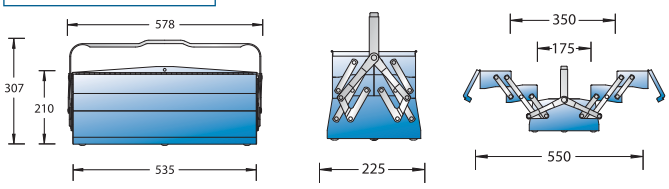

| Code | No. | H | W | D | |
|---|---|---|---|---|---|
| 6608250 | **1263 L** | 158 | 420 | 225 | 4.0 |

## 1335 L

### TOOL BOX 5 compartments, long pattern

- With riveted joins
- Compartments to be fully pulled out
- Great stability even if only one side is opened
- GEDORIT blue powder-coated
- Dimensions: H 210 x W 535 x D 225 mm
- Particularly suitable for tool assortments S 1024, S 1025, S 1151 and S 1151 A
- Delivery without tools






| Code | No. | H | W | D | |
|---|---|---|---|---|---|
| 6610580 | **1335 L** | 210 | 535 | 225 | 6.3 |

Quantities in packs may vary.

# TOOL CHESTS

## 1410 L

### TOOL CHEST

- With three large and three small drawers and carrying tray
- All drawers fully extendable on runners
- Particularly suitable for tool assortments S 1002 and S 1005 A
- Made from sturdy sheet steel, fitted with central lock
- In GEDORIT blue, drawers GEDORIT silver
- Dimensions: H 364 x W 663 x D 308 mm
- Delivery without tools

| Code | No. | H | W | D | |
|---|---|---|---|---|---|
| 6614300 | **1410 L** | 364 | 663 | 308 | 28.0 |

## 1420 L

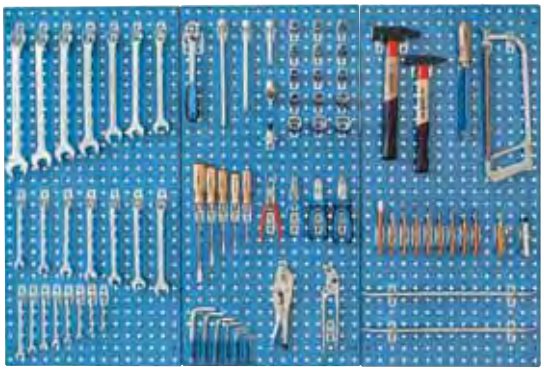
### TOOL CHEST

- With three large drawers and carrying tray
- All drawers fully extendable on runners
- Particularly suitable for tool assortments S 1002 and S 1005 A
- Made from sturdy sheet steel, fitted with central lock
- In GEDORIT blue, drawers GEDORIT silver
- Dimensions: H 298 x W 610 x D 265 mm
- Delivery without tools

| Code | No. | H | W | D | |
|---|---|---|---|---|---|
| 6615700 | **1420 L** | 298 | 610 | 265 | 20.0 |

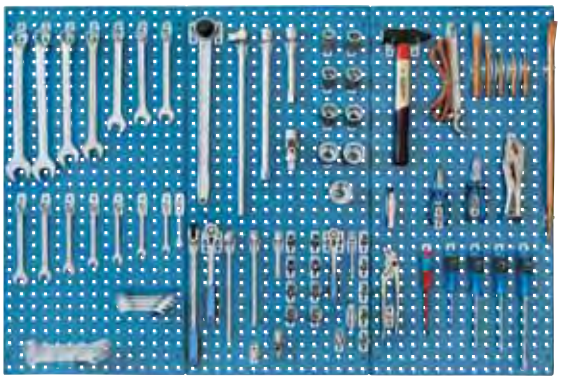
## S 1002

83



## S 1005 A

90





Quantities in packs may vary.

# TOOL BOXES

## 1370 Z

### TOOL BOX

- In special zinc-plated sheet steel for optimum protection against corrosion
- The manufacture using pressure-joint technology means great rigidity
- With removable small-parts compartment ES 1370 Z
- Fitted with carrying strap E-1370 in nylon fabric with shoulder protector
- Max. loading 25 kg
- Delivery without tools

| Code | No. | H | W | D | |
|---|---|---|---|---|---|
| 1497677 | **1370 Z** | 224 | 554 | 201.5 | 5.0 |
| 1497634 | **ES 1370 Z** | 69 | 179 | 167.0 | 0.6 |
| 5600300 | **E-1370** | | | | 0.1 |

## 1440 Z

### TOOL BOX JUMBO zinc-plated

- In special zinc-plated sheet steel for the heavy everyday-use
- Optimum corrosion protection, spray water protected
- Manufactured in pressure jointing technique, guarantees highest sturdiness
- Robust metal fittings and protected hinges
- Stopper to hold the lid open
- Wide carrying handles
- Max. loading 150 kg
- Lockable through padlock
- Lined interior
- Removable tray for small parts (ES 1440)
- Delivery without tools

| Code | No. | H | W | D | |
|---|---|---|---|---|---|
| 6628280 | **1440 Z-70** | 320 | 698 | 387 | 17.0 |
| 6628360 | **1440 Z-83** | 340 | 841 | 427 | 21.0 |
| 6629170 | **1440 Z-91** | 440 | 918 | 537 | 30.0 |
| 6629250 | **1440 Z-100** | 320 | 998 | 387 | 22.0 |

## 1441 Z

### TRANSPORT FRAME zinc-plated

- In special zinc-plated sheet steel
- Makes the tool boxes JUMBO 1440 / 1440 Z mobile
- With 4 castors, 2 of them with brake
- Delivery dismantled, for self-assembly

| Code | No. | H | W | D | |
|---|---|---|---|---|---|
| 1497766 | **1441 Z-70** | 135 | 697 | 386 | 4.9 |
| 1497774 | **1441 Z-83** | 135 | 840 | 426 | 5.4 |
| 1497782 | **1441 Z-91** | 135 | 917 | 536 | 6.0 |
| 1497790 | **1441 Z-100** | 135 | 997 | 386 | 5.8 |

## 1440

### TOOL BOX JUMBO

- Sheet steel construction with strong handles (apart from 1440-45, 1440-64)
- In GEDORIT blue, waterproof
- Strong joints, handles and stopper to hold the lid open
- Special lining, with document partition and removable tray for small parts ES 1440 (available separately)
- Please order separately transport frame 1441 Z
- Special finishes available on request
- 1440-45 without small parts tray
- Supported load 1440-70, -83, -91, -100 up to 400 kg without using the fold-down handles. When lifting, static supporting power of the fold-down handles max. 150 kg

| Code | No. | H | W | D | |
|---|---|---|---|---|---|
| 6612440 | **1440-45** | 230 | 450 | 230 | 4.0 |
| 6611040 | **1440-64** | 230 | 640 | 230 | 7.0 |
| 6616510 | **1440-70** | 320 | 698 | 387 | 19.0 |
| 6616780 | **1440-83** | 340 | 841 | 427 | 23.0 |
| 6616860 | **1440-91** | 440 | 918 | 537 | 32.0 |
| 6616940 | **1440-100** | 320 | 998 | 387 | 25.0 |
| 6611120 | **ES 1440-64** | | | | 1.0 |
| 6616000 | **ES 1440-70** | | | | 1.8 |
| 6616190 | **ES 1440-83** | | | | 2.1 |
| 6616270 | **ES 1440-91** | | | | 2.4 |
| 6616350 | **ES 1440-100** | | | | 2.0 |

Quantities in packs may vary.

## 1072 ES

### TOOL MODULE EMPTY

- For tool modules 1500 ES / 1500 CT
- May be individually equipped with two or three tool modules
- Foam rubber firmly glued to lid
- Suitable as spare part in tool chest 1433 L
- Sturdy sheet steel, in GEDORIT blue
- Dimensions: W 478 x D 313 x H 70 mm
- Delivery without tools

| Code | No. | W | D | H | |
|---|---|---|---|---|---|
| 6602990 | **1072 ES-1500 L** | 480 | 330 | 70 | 3.3 |

## 1072 K

### TOOL BOX

- Sturdy sheet steel, in GEDORIT blue
- With deep-drawn plastic insert with 19 compartments
- Fits into tool chest 1433 L
- Dimensions: W 480 x D 330 x H 70 mm

| Code | No. | W | D | H | |
|---|---|---|---|---|---|
| 1920049 | **1072 K-19** | 480 | 330 | 70 | 3.6 |

## WK 1000 L

### TOOL CASE EMPTY

- From impact-resistant blown polypropylene, resistant to oil and acid and extremes of weather, with foam insert
- Secure fastenings - tested to 30,000 movements
- Secure locking with two stage mechanism
- Folding carrying handle, large and strong

| Code | No. | |
|---|---|---|
| 5600220 | **WK 1000 L** | 1.6 |

## WK 1090 L

### TOOL CASE ELECTRICIAN 90 pieces

- Strong plastic case with aluminium frame
- Three steel hinges, screwed handle, fitted with built in locks
- Dimensions: W 460 x D 380 x H 200 mm
- Delivery without tools

| Code | No. | |
|---|---|---|
| 5600060 | **WK 1090 L** | 4.2 |

## WK 1091 L

### ELECTRICIANS TOOL CASE 18 pieces

- From eco-friendly tanned cowhide
- Carefully processed with strong industrial seams
- Base insert from zinc-plated sheet steel
- Edges reinforced with aluminium angle brackets, metal parts durable riveted
- With feet to protect sensitive surfaces
- Front part can be lowered for quick access to the tools, with two key locks to prevent inadvertent opening
- Removable carrying strap with shoulder protector and sturdy carrying handle
- Anti-theft protection due to two lockable notches, delivery includes two keys
- Document partition
- Interior measurements 430 x 200 x 290 mm

| Code | No. | |
|---|---|---|
| 1953729 | **WK 1091 L** | 4.2 |



Quantities in packs may vary.

## 1014 L - 1015 L

### ROLLER TOOL CASE

- Optionable available in silver (no. 1014 L) or black (no. 1015 L)
- 4x telescopic grip extending max. length: 1 metre
- Widely spaced wheels and large ball-bearing-mounted smooth-running wheels ensure the case can be pushed or pulled without tipping
- Frame made from aluminium profiles, body from tough, impact-resistant ABS
- When open, the case lid hinges lock in place to prevent unintentional closing
- Document partition in the lid
- The case body can be individually compartmentalised with lengthwise and crosswise dividers
- Equipped with push-fit compartments and the GEDORE "Cliptool system", enabling individualised arrangement of the tool holders
- Lockable with two tilt cylinder locks
- Internal dimensions: 470 x 210 x 360 mm
- Carrying capacity: 40 kg
- Tools not supplied

| Code | No. | Colour | W | D | H | |
|---|---|---|---|---|---|---|
| 1946315 | **1014 L** | silver | 470 | 360 | 210 | 6.8 |
| 1946323 | **1015 L** | black | 470 | 360 | 210 | 6.8 |

## 1016 L - 1018 L

### TOOL CASE

- Frame made from aluminium profiles, body from tough, impact-resistant ABS
- When open, the case lid hinges lock in place to prevent unintentional closing
- Document partition in the lid
- The case body can be individually compartmentalised with lengthwise and crosswise dividers
- Equipped with push-fit compartments and the GEDORE "Cliptool system", enabling individualised arrangement of the tool holders
- Lockable with two tilt cylinder locks
- Ground slides ensure tilt-secure standing, and also protect sensitive surfaces
- Internal dimensions No. 1016 L: 460 x 165 x 310 mm
- Internal dimensions No. 1018 L: 470 x 180 x 360 mm
- Carrying capacity: 30 kg
- Tools not supplied

| Code | No. | W | D | H | |
|---|---|---|---|---|---|
| 1946331 | **1016 L** | 460 | 310 | 165 | 4.7 |
| 1946358 | **1018 L** | 470 | 360 | 180 | 5.1 |

Quantities in packs may vary.

225

## System-based arrangement for the entire tool family


SERVICE / FEATURES 64 – 65, 98 – 99

TOOL ASSORTMENTS 66 – 97

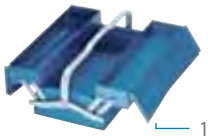
ES MODULES 100 – 104

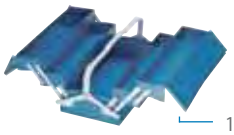
CT MODULES 105 – 111

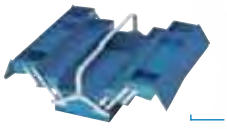
GEDORE

## Matching your chosen toolkit to the right ...
## ... tool trolley, workbench or cupboard

The table allows you to make the right choice of safe and secure storage for any particular tool set.


1263


1265


1335

1410

1420

1578

1580

2000

3010

2535

B 1513-2

3000

2500

1585

2525

2550

2545

1502

1505

B 1500

BR 1504

1401

1506 XL 2511

1506 XL 2810

BR 1500

1504

2004

2005

1504 XL

| S 1150 - 41 pieces | S 1151 - 68 pieces<br>S 1151 A - 69 pieces | S 1002 - 79 pieces | S 1004 - 80 pieces | S 1006 - 115 pieces | S 1005 A - 81 pieces | S 1400 G/GA - 100 pieces/<br>92 pieces | S 1400 G+Z - 134 pieces<br>S 1008 - 138 pieces | S 1007 - 180 pieces | S 1023 - 120 pieces | S 1500 ES-01 - 104 pieces | S 1500 ES-02 - 207 | pieces | S 1500 ES-02 - 325 pieces | S 1093 - 26 pieces | S 1025 - 49 pieces | S 1024 - 63 pieces | S 1019 - 157 pieces | S 1022 - 158 pieces | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ● | ● | only<br>1335 | ● | | | only<br>1335 | | | | | | | | | | only<br>1335 | | | |
| | ● | ● | ● | | ● | ● | | | | | | | | | | | | | |
| | ● | ● | ● | | ● | ● | ● | | ● | ● | | | ● | ● | | 1578 | | | |
| | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | | ● | ● | | ● | | 2545<br>2550 | |
| | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | | ● | ● | | ● | | B 1500 | |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | ● | ● | | | | | |
| | ● | ● | ● | | | ● | ● | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | ● | | | |
| | ● | | | ● | ● | ● | ● | ● | ● | ● | | | ● | ● | | ● | | | |
| | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | ● | ● | | |
| | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | ● | ● | ● | |

## 501 M

### BASIC TOOL SET 29 pieces

- In practical black leather case with zip fastener
- Packed with a basic assortment of tools for emergencies
- Dimensions: W 300 x D 260 x H 45 mm
- Tools in metric sizes

| Code | No. | |
|---|---|---|
| 6511090 | **501 M** | 2.5 |

| Contents | Contents | Contents |
|---|---|---|
| **7** 10 11 12 13 17 19 | **647** | **600 H** -200 |
| **142** 10 TL | **4629** | **2150** 4 5,5 6,5 |
| **625** M | **8210** -160 JC | **2160 PH** 1 2 |
| | | **2170** 3 |
| | | **E-501** ST |

## 1000

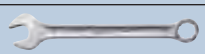
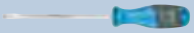
### TOOL CASE TOURING 47 pieces

- The perfect assortment for most problems
- A carefully developed assortment of tools specified as the most useful
- Packed in a handy plastic case
- The reliable companion in a car, boat or small aircraft
- Useful in the home - where good tools are always needed
- All 47 pieces are well laid out and securely fastened
- With the TOURING repairs and maintenance become easy
- The case is made from impact-resistant blown polypropylene, resistant to oil and acid and extremes of weather, with foam insert
- Secure fastenings - tested to 30000 movements
- Secure locking with two stage mechanism
- Folding carrying handle, large and strong
- GEDORE vanadium tools, chrome-plated
- No. 1000 = set with case
- No. S 1000 = set without case

1000

S 1000

| Code | No. | Contents | |
|---|---|---|---|
| 6600780 | **1000** | Tool set TOURING S 1000 + tool case WK 1000 L | 7.0 |

| Contents | Contents | Contents |
|---|---|---|
|  **7** 6 7 8 10 11 12 13 14 15 17 19 | **42** 2 (5/64AF) 2,5 3 4 5 6 8 10 | **145** 10 C |
| **19** 10 11 12 13 14 15 17 19 22 |  **2150** 4 5,5 6,5 | **8210** -180 JC |
| **1990** -5 -10 | **2160 PH** 1 2 | **8316** -160 JC |
|  **1987** | **2170** 3 | **600 H** -300 |
| **1995** |  **4615** 3 | **E-1000 P** |
| **1993 U** -10 T | **4522** | |
| | **50 MH** | |



Quantities in packs may vary.

## 1050

### TOOL ASSORTMENT AUTODOCTOR 29 pieces

- Breakdown assortment for cars
- Set in metric sizes
- In practical artificial leather wallet

| Code | No. | |
|---|---|---|
| 6604770 | **1050** | 3.2 |

| Contents |
|---|
| **7** 8 10 12 13 14 17 19 |
| 49 D 49 R |
| **145** 10 C |
| **625 M** |

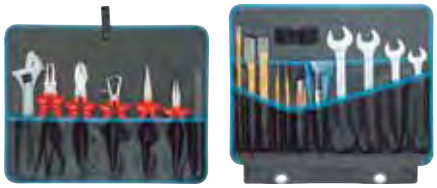
| Contents |
|---|
| **4611** |
| **4522** |
| **8250** -180 JC |

| Contents |
|---|
| **600 H** -300 |
| **2150** 4 5,5 6,5 |
| **2160 PH** 2 |

## 1090

### TOOL CASE ELECTRICIAN 90 pieces

- The perfect tool set for the electrician or property manager
- A thoughtful assortment for the work to be done
- Packed in a strong plastic case with aluminium frame
- Three steel hinges, screwed handle, fitted with built in locks
- May be used wherever the right tools have to be always at hand
- GEDORE vanadium tools, chrome-plated
- Dimensions: W 460 x D 380 x H 200 mm



| Code | No. | Contents | |
|---|---|---|---|
| 6601590 | **1090** | Tool set S 1090 + tool case WK 1090 L | 13.2 |

| Contents |
|---|
| **401** |
| **401 A** [10×] |
| **6** 14x17 18x19 21x23 22x24 |
| **8** 4 4,5 5 5,5 6 7 8 9 10 11 12 13 |
| **20** 4 4,5 5 5,5 6 7 8 9 10 11 13 |
| **2087** |
| **2095** |
| **2098** |
| **2090** -4 |
| **2093 U** -3 |
| **42** 2 (5/64AF) 2,5 3 4 5 6 7 8 10 |
| **60 CP** 10 |
| **156 S** |

| Contents |
|---|
| **2153** 5,5 |
| **2161 PH** 1 |
| **2160 PZ** 1 2 |
| **VDE 2160 PH** 1 2 |
| **VDE 2170** 3,5 4 5,5 6,5 |
| **4615** 3,5 |
| **173** 5,5 8 |
| **174** 1 |
| **745** |
| **4522** |
| **4534** -3 |
| **145** 10 JC |
| **8096** -140 |

| Contents |
|---|
| **VDE 8098** -160 |
| **VDE 8120** -160 |
| **VDE 8250** -180 |
| **VDE 8132 AB** -160 |
| **VDE 8316** -200 |
| **95** -175 |
| **99** 10-2 10-4 |
| **101** |
| **112 A** -250 |
| **112 S** |
| **600 H** -300 |
| **72 H** -100 |
| **E-1090** LK LZ LF LS |

Quantities in packs may vary.

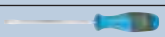
## 1016

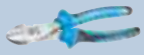
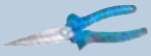
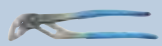
### BASIC TOOL ASSORTMENT IN TOOL CASE 87 pieces

- **Ideal for mobile applications by fitters and service personnel**
- Case, frame made from aluminium profiles, body from tough, impact-resistant ABS
- Lockable with two tilt cylinder locks
- Load capacity: 30 kg

| Code | No. | Contents | |
|---|---|---|---|
| 2330792 | **1016** | Tool set S 1016<br>+ tool case 1016 L | 13.2 |

| | Contents |
|---|---|
| | **7** 8 9 10 11 12 13 14 15 17 19 22 |
| | **19** 10 12 13 14 15 16 17 18 19 22 24 |
| | **1990** -5 |
| | **1993 U-20** |
| | **D 20** 4 5 6 7 8 9 10 11 12 13 |
| | **680** 4 5,5 6,5 |
| | **685** 3 4 5 6 |
| | **685 X** 5 6 8 |
| | **687 TX** T10 T15 T20 T25 T27 T30 T40 |

| | Contents |
|---|---|
| | **690** 1 2 |
| | **690 PZD** 1 2 3 |
| | **620** |
| | **676** |
| | **699** |
| | **2090** -4 |
| | **2093 U** -20 |
|  | **2150** 4 5,5 6,5 8 |
| | **2160 PH** 1 2 |
| | **42** 2 (5/64AF) 2,5 3 4 5 6 8 10 |

| | Contents |
|---|---|
| | **97** -125 -150 |
| | **98** -125 |
| | **99** 12-3 |
| | **100** -10 |
| | **119** -4 |
|  | **8316** -180 JC |
|  | **8132** -160 JC |
|  | **142** 10 TL |
| | **600 H** -500 |
| | **406** |
| | **4534** -5 |

## 1091

### ELECTRICIANS TOOL CASE 18 pieces

- Robust tool case with 18-piece basic assortment
- **Particularly suitable for beginners in electronic professions**
- From eco-friendly tanned cowhide
- Carefully processed with strong industrial seams
- Base insert from zinc-plated sheet steel
- Edges reinforced with aluminium angle brackets, metal parts durable riveted
- With feet to protect sensitive surfaces
- Front part can be lowered for quick access to the tools, with two key locks to prevent inadvertent opening
- Removable carrying strap with shoulder protector and sturdy carrying handle
- Anti-theft protection due to two lockable notches, delivery includes two keys
- Document partition
- Interior measurements 430 x 200 x 290 mm

| Code | No. | Contents | |
|---|---|---|---|
| 1953710 | **1091** | Tool set S 1091<br>+ tool case WK 1091 L | 8.3 |

| | Contents |
|---|---|
| | **VDE 2133** 7 8 10 |
| | **VDE 2160 PH** 1 2 3 |
| | **VDE 2170** 3 4 5,5 |
| | **4528** |
|  | **4533** -2 |

| | Contents |
|---|---|
| | **V 4614 PLUS** |
| | **4629** |
| | **8097** |

| | Contents |
|---|---|
| | **VDE 8132** -160 H |
| | **VDE 8250** -180 H |
| | **VDE 8316** -180 H |
| | **E-1091 ST** |



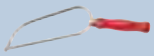
Quantities in packs may vary.

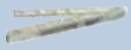
## 1092

### SOLAR INSTALLATION KIT IN TOOL CASE 25 pieces

- Robust tool case with 25-piece tool assortment
- Developed from everyday workshop routine
- Especially suitable for the rooftop installation of solar panels
- Case from eco-friendly tanned cowhide
- Carefully processed with strong industrial seams
- Base insert from zinc-plated sheet steel
- Edges reinforced with aluminium angle brackets, metal parts durable riveted
- Front part with two key locks to prevent inadvertent opening
- Removable carrying strap with shoulder protector and sturdy carrying handle
- Anti-theft protection due to two lockable notches, delivery includes two keys
- Interior measurements 430 x 200 x 290 mm

| Code | No. | Contents | |
|---|---|---|---|
| 1988441 | **1092** | Tool set S 1092<br>+ tool case WK 1091 L | 7.6 |

| | Contents |
|---|---|
| | **7 R** 8 10 13 17 19 |
| | **60 CP** 10 |
| | **145** 10 JC [2×] |
| | **2160 PH** 0 1 2 |
| | **DT 42** 6 |
|  | **404** |

| | Contents |
|---|---|
| | **8722** 2-8 |
|  | **4533** -2 |
| | **688 TX** T25 T30 T40 |
| | 676 |
| | 699 |
| | **600 H** -300 |

| | Contents |
|---|---|
| | 218010 |
| | **8314** -140 JC |
| | **4528** |
| | **8097** |

## 1093

### VDE TOOL ASSORTMENT 26 pieces

- Robust tool case with 26-piece tool assortment
- Particularly suited as the initial outfit for electrical specialists

| Code | No. | Contents | |
|---|---|---|---|
| 2657317 | **1093** | Tool set S 1093<br>+ tool case WK 1091 L | 9.0 |

| | Contents |
|---|---|
| | **142** 10 C |
| | **VDE 8250** -180 H |
| | **VDE 8132** -160 H |
| | **VDE 8314** -160 H |
|  | **VDE 2170** 4 5,5 6,5 8 |

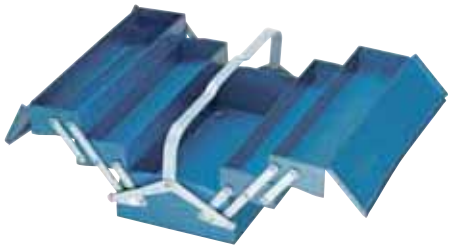
| | Contents |
|---|---|
| | **VDE 2160 PZ** 1 2 |
| | **V 4614 PLUS** |
| | **42** 2 (5/64AF) 2,5 3 4 5 6 8 10 |
| | **4533** -2 |
| | **4528** |

| | Contents |
|---|---|
| | **8097** |
| | **600 H** -500 |
|  | **112 A** -250 |
| | **110 HS** -318 |
|  | **0175** -06 |

Quantities in packs may vary.

# TOOL BOXES

- With riveted joins
- Compartments to be fully pulled out
- Great stability even if only one side is opened
- In GEDORIT blue
- Tools not supplied



- Made of electrolytically zinc-plated sheet steel and therefore suitable for outdoors

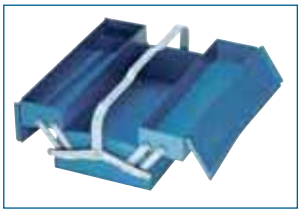
- As the zinc coating acts as a sacrificial anode, it protects should the other protective coating become damaged

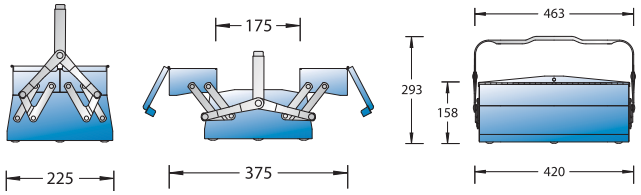
- Optimum corrosion-proofing achieved with two protective coats, zinc and powder coating

## 1263

### TOOL BOX WITH TOOL ASSORTMENT 3 compartments

- For workshops and service stations
- Tools in metric or inch sizes
- Dimensions: H 158 x W 420 x D 225 mm



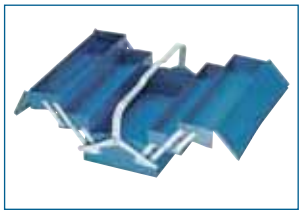


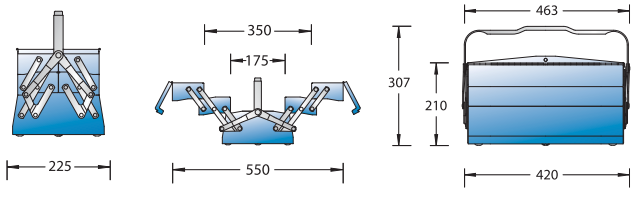

| Code | No. | Contents | |
|---|---|---|---|
| 2657384 | **1150-1263** | Tool set S 1150 + tool box 1263 L | 4.8 |
| 6608330 | **1151-1263** | Tool set S 1151 + tool box 1263 L | 15.8 |
| 6608410 | **1151 A-1263** | Tool set S 1151 A + tool box 1263 L | 15.8 |

## 1265

### TOOL BOX WITH TOOL ASSORTMENT 5 compartments

- For workshops and service stations
- Tools in metric or inch sizes
- Dimensions: H 210 x W 420 x D 225 mm






| Code | No. | Contents | |
|---|---|---|---|
| 6609140 | **1151-1265** | Tool set S 1151 + tool box 1265 L | 17.3 |
| 6609220 | **1151 A-1265** | Tool set S 1151 A + tool box 1265 L | 17.3 |

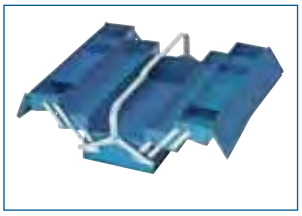


Quantities in packs may vary.

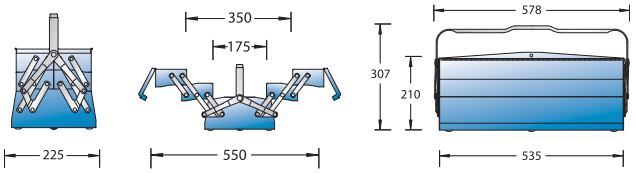
## 1335

**TOOL BOX WITH TOOL ASSORTMENT 5 compartments, long pattern**

- Tools in metric or inch sizes
- Dimensions: H 210 x W 535 x D 225 mm



| Code | No. | Contents | |
|---|---|---|---|
| 2657481 | **1004-1335** | Tool set S 1004 + tool box 1335 L | 20.4 |
| 2657430 | **1024-1335** | Tool set S 1024 + tool box 1335 L | 24.0 |
| 2657414 | **1025-1335** | Tool set S 1025 + tool box 1335 L | 13.3 |
| 6610660 | **1151-1335** | Tool set S 1151 + tool box 1335 L | 18.5 |
| 6610740 | **1151 A-1335** | Tool set S 1151 A + tool box 1335 L | 18.5 |




### S 1004

76

### S 1150

79

### S 1024 · S 1025

81
80

### S 1151 · S 1151 A

82
89

Quantities in packs may vary.

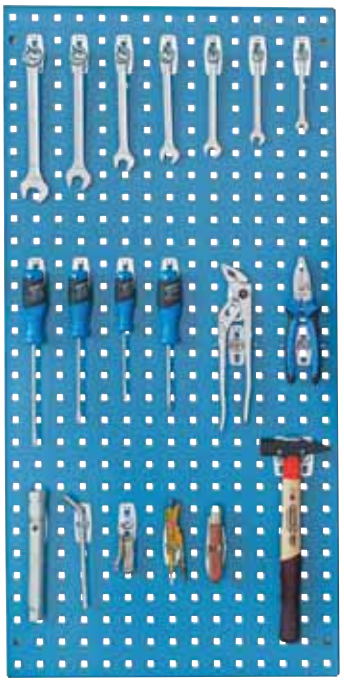
## S 1050

### TOOL ASSORTMENT AUTODOCTOR 29 pieces

- Breakdown assortment for cars
- Set in metric sizes
- Also available in practical artificial leather wallet or on tool panel

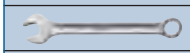
S 1050

1050

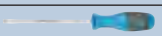


1050-1450

| Code | No. | Contents | kg |
|---|---|---|---|
| 6604850 | **S 1050** | 29 tools without wallet | 2.6 |
| 6604770 | **1050** | 29 tools in wallet | 3.2 |
| 2657325 | **1050-1450** | Tool set S 1050<br>+ tool panel 1450 L<br>+ hook assortment 1500 HS-1050 | 8.8 |

| S 1050 | Contents |
|---|---|
|  | **7** 8 10 12 13 14 17 19 |
| | 49 D 49 R |
| | **145** 10 C |

| | Contents |
|---|---|
| | **625 M** |
| | **4611** |
| | **4522** |

| | Contents |
|---|---|
| | **8250** -180 JC |
| | **600 H** -300 |
|  | **2150** 4 5,5 6,5 |
| | **2160 PH** 2 |

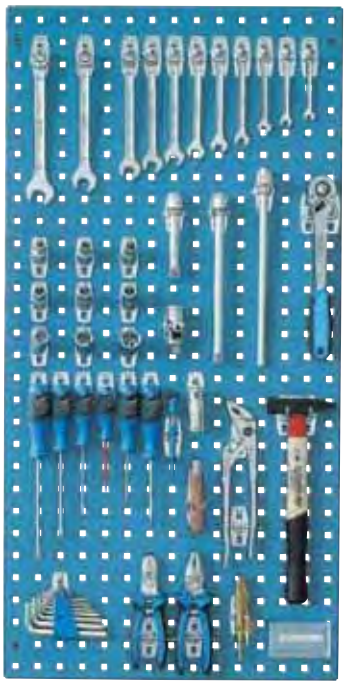
## S 1000

### TOOL ASSORTMENT TOURING 47 pieces

- The perfect assortment for most problems
- A carefully developed assortment of tools specified as the most useful
- GEDORE vanadium tools, chrome-plated
- Also available with case or on tool board

S 1000

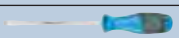
1000



1000-1450

| Code | No. | Contents | kg |
|---|---|---|---|
| 6600190 | **S 1000** | 47 tools without case | 5.3 |
| 6600780 | **1000** | Tool set TOURING S 1000<br>+ tool case WK 1000 L | 7.0 |
| 2657392 | **1000-1450** | Tool set TOURING S 1000<br>+ tool panel 1450 L<br>+ hook assortment 1500 HS-1000 | 12.0 |

| S 1000 | Contents |
|---|---|
| | **7** 6 7 8 10 11 12 13 14 15 17 19 |
| | **19** 10 11 12 13 14 15 17 19 22 |
|  | **1990** -5 -10 |
| | **1987** |
| | **1995** |
| | **1993 U** -10 T |

| | Contents |
|---|---|
| | **42** 2 (5/64AF) 2,5 3 4 5 6 8 10 |
|  | **2150** 4 5,5 6,5 |
| | **2160 PH** 1 2 |
| | **2170** 3 |
|  | **4615** 3 |
| | **4522** |

| | Contents |
|---|---|
| | **50 MH** |
| | **145** 10 C |
| | **8210** -180 JC |
| | **8316** -160 JC |
| | **600 H** -300 |
| | **E-1000 P** |

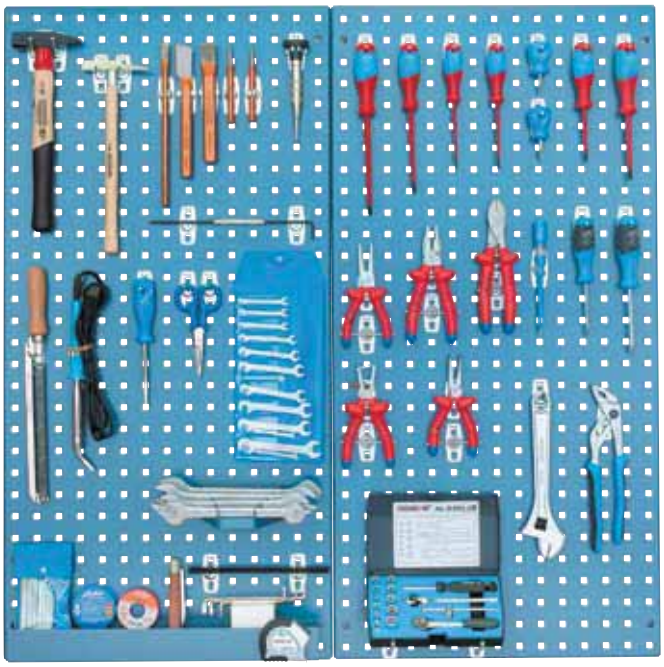


Quantities in packs may vary.

## S 1090

### TOOL CASE ELECTRICIAN 90 pieces

- The perfect tool set for the electrician or property manager
- A thoughtful assortment for the work to be done
- GEDORE vanadium tools, chrome-plated
- Also available with case or on tool boards



1090-1450-2

1090

| Code | No. | Contents | |
|---|---|---|---|
| 6601400 | **S 1090** | 90 tools without case | 8.3 |
| 6601590 | **1090** | Tool set S 1090<br>+ tool case WK 1090 L | 13.2 |
| 2657538 | **1090-1450-2** | Tool set S 1090<br>+ 2x tool panel 1450 L<br>+ hook assortment 1500 HS-1090 | 27.6 |

| S 1090 | Contents |
|---|---|
| | **401** |
| | **401 A** [10×] |
| | **6** 14x17 18x19 21x23 22x24 |
| | **8** 4 4,5 5 5,5 6 7 8 9 10 11 12 13 |
| | **20** 4 4,5 5 5,5 6 7 8 9 10 11 13 |
| | **2087** |
| | **2095** |
| | **2098** |
| | **2090** -4 |
| | **2093 U** -3 |
| | **42** 2 (5/64AF) 2,5 3 4 5 6 7 8 10 |
| | **60 CP** 10 |
| | **156 S** |
| | **2153** 5,5 |

| | Contents |
|---|---|
| | **2161 PH** 1 |
| | **2160 PZ** 1 2 |
| | **VDE 2160 PH** 1 2 |
| | **VDE 2170** 3,5 4 5,5 6,5 |
| | **4615** 3,5 |
| | **173** 5,5 8 |
| | **174** 1 |
| | **745** |
| | **4522** |
| | **4534** -3 |
| | **145** 10 JC |
| | **8096** -140 |

| | Contents |
|---|---|
| | **VDE 8098** -160 |
| | **VDE 8120** -160 |
| | **VDE 8250** -180 |
| | **VDE 8132 AB** -160 |
| | **VDE 8316** -200 |
| | **95** -175 |
| | **99** 10-2 10-4 |
| | **101** |
| | **112 A** -250 |
| | **112 S** |
| | **600 H** -300 |
| | **72 H** -100 |
| | **E-1090** LK LZ LF LS |

Quantities in packs may vary.

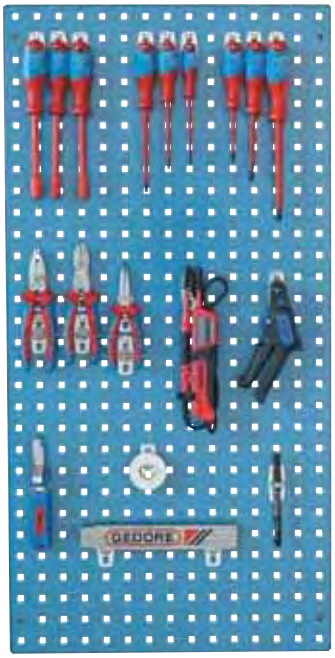
## S 1091

### ELECTRICIANS TOOL CASE 18 pieces

- Basic assortment particularly suitable for beginners in electronic professions
- Also available with case or on tool board

S 1091

1091



1091-1450

| Code | No. | Contents | |
|---|---|---|---|
| 2655845 | **S 1091** | 18 tools in metric sizes | 4.1 |
| 1953710 | **1091** | Tool set S 1091<br>+ tool case WK 1091 L | 8.3 |
| 2655942 | **1091-1450** | Tool set S 1091<br>+ tool panel 1450 L<br>+ hook assortment 1500 HS-1091 | 9.6 |

| | Contents |
|---|---|
| | **VDE 2133** 7 8 10 |
| | **VDE 2160 PH** 1 2 3 |
| | **VDE 2170** 3 4 5,5 |
| | **4528** |
| | **4533** -2 |

| | Contents |
|---|---|
| | **V 4614 PLUS** |
| | **4629** |
| | **8097** |

| | Contents |
|---|---|
| | **VDE 8132** -160 H |
| | **VDE 8250** -180 H |
| | **VDE 8316** -180 H |
| | **E-1091 ST** |

## S 1092

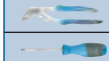
### SOLAR INSTALLATION KIT IN TOOL CASE 25 pieces

- Developed from everyday workshop routine
- Especially suitable for the rooftop installation of solar panels
- Also available with case or on tool board

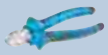
1092

1092-1450

| Code | No. | Contents | |
|---|---|---|---|
| 2655896 | **S 1092** | 25 tools in metric sizes | 3.4 |
| 1988441 | **1092** | Tool set S 1092<br>+ tool case WK 1091 L | 7.6 |
| 2657295 | **1092-1450** | Tool set S 1092<br>+ tool panel 1450 L<br>+ hook assortment 1500 HS-1092 | 9.8 |

| S 1092 | Contents |
|---|---|
| | **7 R** 8 10 13 17 19 |
| | **60 CP** 10 |
|  | **145** 10 JC [2x] |
| | **2160 PH** 0 1 2 |
| | **DT 42** 6 |
| | **404** |

| | Contents |
|---|---|
| | **8722** 2-8 |
| | **4533** -2 |
| | **688 TX** T25 T30 T40 |
| | 676 |
| | 699 |

| | Contents |
|---|---|
| | **600 H** -300 |
| | 218010 |
|  | **8314** -140 JC |
| | **4528** |
| | **8097** |



Quantities in packs may vary.

## S 1093

### VDE TOOL ASSORTMENT 26 pieces

- Particularly suited as the initial outfit for electrical specialists
- The GEDORE tool case or tool trolley are suited for mobile assignments
- Recommended hook assortment 1500 HS-1093 (26 pieces)
- Also available with case or on tool board

S 1093

1093

1093-1450

| Code | No. | Contents | |
|---|---|---|---|
| 2319942 | **S 1093** | 26 tools in metric sizes | 4.8 |
| 2657317 | **1093** | Tool set S 1093<br>+ tool case WK 1091 L | 9.0 |
| 2657309 | **1093-1450** | Tool set S 1093<br>+ tool panel 1450 L<br>+ hook assortment 1500 HS-1093 | 11.1 |

| S 1093 | Contents |
|---|---|
| | **142** 10 C |
| | **VDE 8250** -180 H |
| | **VDE 8132** -160 H |
| | **VDE 8314** -160 H |
| | **VDE 2170** 4 5,5 6,5 8 |

| | Contents |
|---|---|
| | **VDE 2160 PZ** 1 2 |
| | **V 4614 PLUS** |
| | **42** 2 (5/64AF) 2,5 3 4 5 6 8 10 |
| | **4533** -2 |
| | **4528** |

| | Contents |
|---|---|
| | **8097** |
| | **600 H** -500 |
|  | **112 A** -250 |
| | **110 HS** -318 |
| | **0175** -06 |

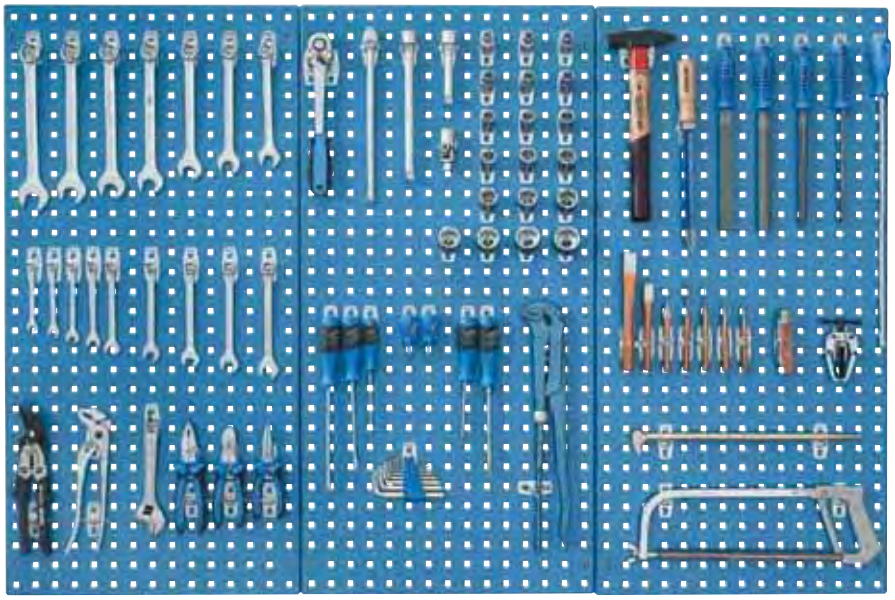
Quantities in packs may vary.

## S 1004

### MECHANIC'S TOOL ASSORTMENT 80 pieces

- Particularly suitable for the rear panel R 1504 L
- Recommended hook assortment 1500 HS-1004 (82 pieces)
- Tools in metric sizes
- Also available in tool box or on tool boards

mm



1004 G-1450-3

S 1004

1004 G-1335

| Code | No. | Contents | |
|---|---|---|---|
| 6600000 | **S 1004** | 80 tools in metric sizes | 14.1 |
| 2657481 | **1004-1335** | Tool set S 1004<br>+ tool box 1335 L | 20.4 |
| 2657473 | **1004-1450-3** | Tool set S 1004<br>+ 3x tool panel 1450 L<br>+ hook assortment 1500 HS-1004 | 32.5 |

| S 1004 | Contents |
|---|---|
| | **7** 8 9 10 11 12 13 14 15 16 17 18 19 21 22 23 24 |
| | **19** 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32 |
| | **1987** |
| | **1995** |
| | **1990** -5 -10 |
| | **1993 U** -10 T |
| | **42** 2 (5/64AF) 2,5 3 4 5 6 8 10 |
| | **60 CP** 8 |
| | **143** 10 C |
| | **175** 1.1/2 |
| | **139** -400 |

| | Contents |
|---|---|
| | **100** -10 |
| | **99** 10-3 |
| | **97** -150 -200 |
| | **98** -125 |
| | **119** -3 -5 |
| | **403** |
| | **640** -1800 |
| | **132** -150 |
| | **4522** |
| | **8250** -180 JC |
| | **8132** -160 JC |
| | **8316** -160 JC |

| | Contents |
|---|---|
| | **424026** |
| | **600 H** -500 |
| | **8701** 2-8 |
| | **8719** 2-8 |
| | **8722** 2-8 |
| | **8725** 2-8 |
| | **2150** 4 6,5 8 |
| | **2153** 5,5 |
| | **2160 PH** 2 3 |
| | **2161 PH** 2 |
| | **1.12** /01 |



Quantities in packs may vary.

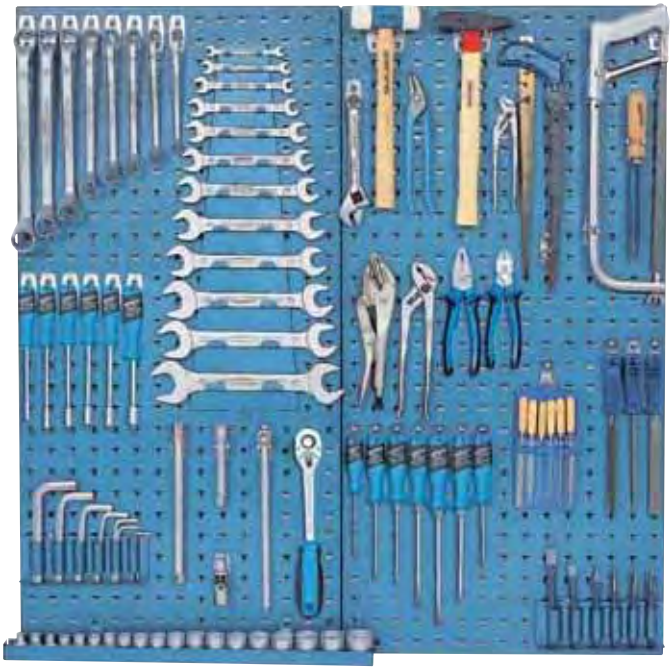
## S 1400 G

### UNIVERSAL TOOL ASSORTMENT 100 pieces

- Tools in metric sizes
- Supplied in tool modules 1500 ES, suitable to fit in 5 drawers of the GEDORE tool trolleys and workbenches
- Also available in tool cabinet, tool trolley or on tool boards

mm

1400 G-2005



1400 G-1450-2

1400 G

| Code | No. | Contents | kg |
|---|---|---|---|
| 6612790 | **S 1400 G** | 100 tools in metric sizes | 17.7 |
| 6613250 | **1400 G** | Tool set S 1400 G<br>+ tool cabinet 1400 L | 46.7 |
| 6617320 | **1400 G-1450-2** | Tool set S 1400 G<br>+ 2x tool panel 1450 L<br>+ hook assortment 1500 HS 17 | 30.6 |
| 2657570 | **1400 G-2005** | Tool set S 1400 G<br>+ tool trolley 2005 0511 | 110.7 |

S 1400 G

| S 1400 G | Contents |
|---|---|
| | **42** 1,3 1,5 2 (5/64AF) 2,5 3 4 5 6 8 10 |
| | **2** 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 |
| | **6** 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 |
| | **19** 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32 |
| | **IN 19** 6 7 8 9 10 12 14 |
| | **142** 10 JC |
| | **8132** -160 JC |
| | **8250** -180 JC |
| | **8316** -160 JC |
| | **97** -250 |
| | **98** -125 |
| | **99** 12-5 |
| | **100** -12 |

| | Contents |
|---|---|
| | **119** -1,5 -3 -4 |
| | **600 H** -300 |
| | **600 E** -500 |
| | **225 E** -40 |
| | **1993 U** -10 T |
| | **1987** |
| | **1995** |
| | **1990** -5 -10 |
| | **2133** 5,5 6 7 8 9 10 |
| | **2150** 4 5,5 6,5 8 |
| | **2160 PH** 1 2 |
| | **60 CP** 8 |

| | Contents |
|---|---|
| | **137** 10 |
| | **406** |
| | **403** |
| | **8701** 2-6 |
| | **8719** 2-6 |
| | **8722** 2-6 |
| | **8728** |
| | **132** -150 |
| | **424026** |
| | **1500 E-N L** [3×] |

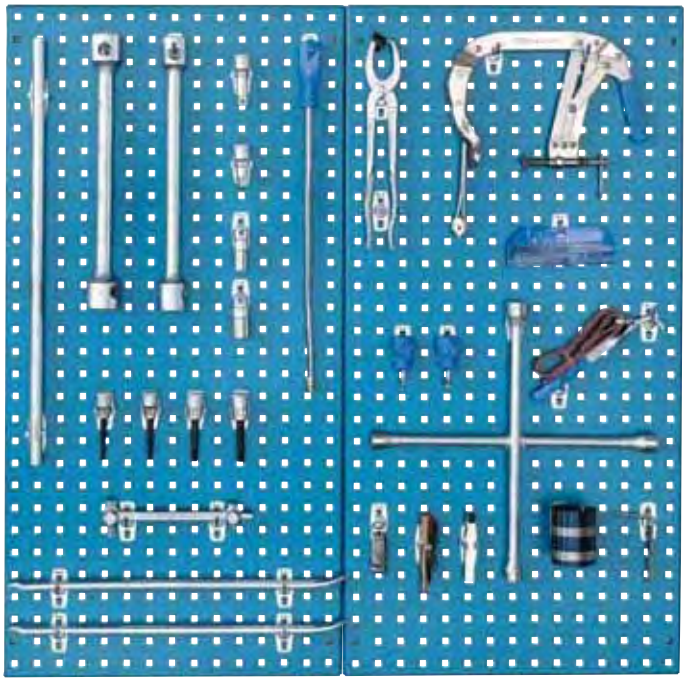
Quantities in packs may vary.

## S 1400 Z

### SUPPLEMENTARY TOOL ASSORTMENT 34 pieces

- Tools in metric sizes
- Ideally suited to the automotive sector
- Recommended hook assortment 1500 HS-1400 Z (31 pieces)
- Also available in tool cabinet, tool trolley or on tool boards

mm



1400 Z-1450-2

1400 GZ-2005

1400 GZ

S 1400 Z

| Code | No. | Contents | |
|---|---|---|---|
| 6612950 | **S 1400 Z** | 34 tools in metric sizes | 11.3 |
| 2657333 | **1400 Z-1450-2** | Tool set S 1400 G<br>+ 2x tool panel 1450 L<br>+ hook assortment 1500 HS-1400 Z | 23.2 |
| 2657368 | **1400 GZ-2005** | Tool sets S 1400 G + S 1400 Z<br>+ tool trolley 2005 0511 | 122.0 |
| 6613330 | **1400 GZ** | Tool sets S 1400 G + S 1400 Z<br>+ tool cabinet 1400 L | 57.4 |

| S 1400 Z | Contents |
|---|---|
| | **1990** -2.1/2 -3 |
| | **INX 19 L** 6-100 8-100 10-100 12-100 |
| | **2153** 6,5 |
| | **2161 PH** 2 |
| | **27** 24x27 30x32 |
| | **27 D** |
| | **28** PU CS |
| | **36** 1-140 |

| | Contents |
|---|---|
| | **38** 20 [2×] |
| | **50** |
| | **54** |
| | **125** 1 |
| | **128** 2-225 |
| | **135** 13 |

| | Contents |
|---|---|
| | **299** |
| | **625 M** |
| | **640** -1800 |
| | **702** 13 M |
| | **4610** |
| | **8729** [2×] |



Quantities in packs may vary.

## S 1150

### UNIVERSAL TOOL ASSORTMENT 41 pieces

- For car repairs, household repairs and for the professional
- Recommended hook assortment 1500 HS-1150 (45 pieces)
- Tools in metric sizes
- Also available in tool box or on tool board

mm

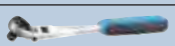
S 1150

1150-1263

1150-1450

| Code | No. | Contents | |
|---|---|---|---|
| 6606980 | **S 1150** | 41 tools in metric sizes | 4.8 |
| 2657384 | **1150-1263** | Tool set S 1150<br>+ tool box 1263 L | 4.8 |
| 2657376 | **1150-1450** | Tool set S 1150<br>+ tool panel 1450 L<br>+ hook assortment 1500 HS-1150 | 13.4 |

| S 1150 | Contents |
|---|---|
| | **1 B** 8 10 11 13 14 15 17 19 22 |
| | **30** 6 7 8 9 10 11 12 13 14 15 17 19 22 |
| | **3090** -3 -5 -10 |
| | **3095** |

| | Contents |
|---|---|
|  | **3093 GU** -3 |
| | **42** 3 4 5 6 8 10 |
| | **52** |
| | **145** 10 C |

| | Contents |
|---|---|
| | **2150** 5,5 8 |
| | **2160 PH** 2 |
| | **8250** -180 JC |
|  | **97** -125 |
| | **600 H** -300 |

Quantities in packs may vary.

## S 1025

### SANITARY TOOL ASSORTMENT STARTER 49 pieces

- User-friendly set for future plant mechanics in sanitary, heating and air condition technology
- Also available in tool box or on tool boards

mm

1025-1450-2

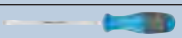
1025-1335

S 1025

Schlüsselknarre R-Serie

| Code | No. | Contents | |
|---|---|---|---|
| 2319896 | **S 1025** | 49 tools | 7.0 |
| 2657414 | **1025-1335** | Tool set S 1025<br>+ tool box 1335 L | 13.3 |
| 2657406 | **1025-1450-2** | Tool set S 1025<br>+ 2x tool panel 1450 L<br>+ hook assortment 1500 HS-1025 | 18.9 |

| S 1025 | Contents |
|---|---|
| | **231000** |
| | **225010** |
| | **232001** |
| | **100** 1.1/2 |
| | **914424** |
| | **316000** |
| | **317000** |
| | **379100** |
| | **320000** |

| | Contents |
|---|---|
| | **329000** |
| | **406** |
|  | **4522** |
| | **600 H** -500 |
| | **4533** -2 |
|  | **2150** 4 5,5 |
| | **2160** PH 1 PH 2 |
| | **4615** 3 |
| | **7 R** 10 13 17 19 24 |

| | Contents |
|---|---|
| | **920** 11 |
| | **680** 4 6,5 |
| | **685** 3 4 5 6 |
| | **685 X** 5 6 8 |
| | **690** 1 2 |
| | **690 PZD** 1 2 3 |
| | **687 TX** T8 T9 T10 T15 T20 T25 T27 T30 T40 |
| | **620** |



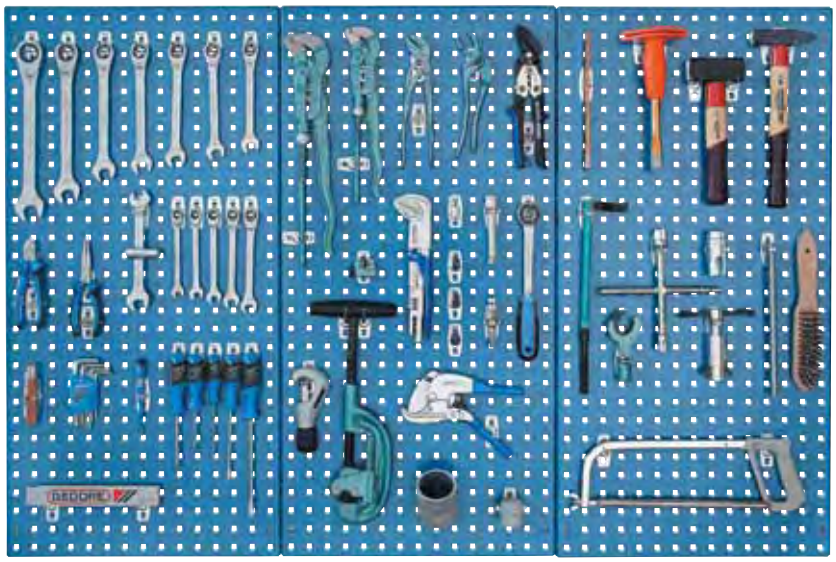
Quantities in packs may vary.

## S 1024

### SANITARY TOOL ASSORTMENT PROFI 63 pieces

- User-friendly set for plant mechanics in sanitary, heating and air condition technology
- Recommended hook assortment 1500 HS-1024 (68 pieces)
- Tools in metric sizes
- Also available in tool box or on tool boards

mm



1024-1450-3

1024-1335

Schlüsselknarre R-Serie

S 1024

| Code | No. | Contents | |
|---|---|---|---|
| 2319888 | **S 1024** | 63 tools | 17.7 |
| 2657430 | **1024-1335** | Tool set S 1024<br>+ tool box 1335 L | 24.0 |
| 2657422 | **1024-1450-3** | Tool set S 1024<br>+ 3x tool panel 1450 L<br>+ hook assortment 1500 HS-1024 | 36.2 |

| S 1024 | Contents |
|---|---|
| | **7 R** 10 11 12 13 14 15 16 17 18 19 22 24 |
| | **220020** |
| | **231000** |
| | **225011** |
| | **226842** |
| | **245010** |
| | **100** 1 1.1/2 |
| | **914424** |
| | **8314** -160 JC |
| | **8133** -180 JC |
| | **112** -2510 |
| | **110 HS** -256 |
| | **4533** -2 |

| | Contents |
|---|---|
| | **316000** |
| | **316** 501 502 503 |
| | **317000** |
| | 380100 |
| | 380200 |
| | **378500** |
| | **4615** 3 |
| | **2150** 4 5,5 8 |
| | **2160** PH 1 PH 2 |
| | **42** 1,3 1,5 2 (5/64AF) 2,5 3 4 5 6 8 10 |
| | **1994** |
| | **403** |
| | **4522** |
| | **646** |

| | Contents |
|---|---|
| | **600 H** -500 |
| | **620 H** -1250 |
| | **424026** |
| | **312000** |
| | **314000** |
| | **320000** |
| | **329000** |
| | **232001** |
| | **232500** |
| | **3810** 30 |
| | **1990** -5 |

Quantities in packs may vary.

## S 1151

### TOOL ASSORTMENT 68 pieces

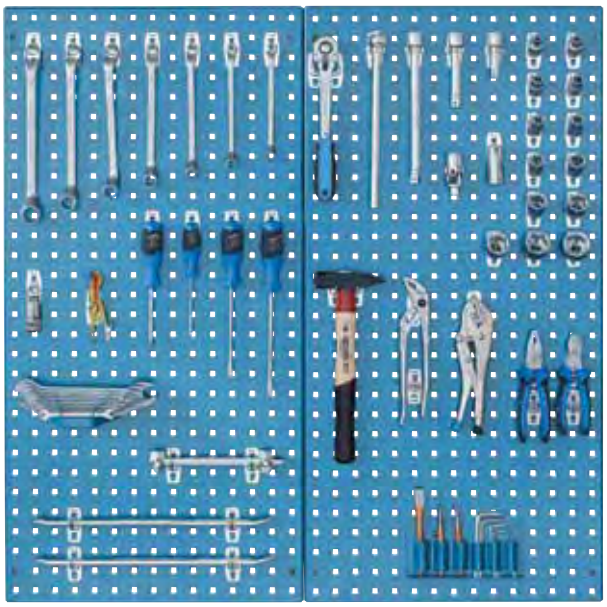
- For workshops and service stations
- Recommended hook assortment 1500 HS-1151 (50 pieces)
- Tools in metric sizes
- Also available in tool box or on tool boards

mm

1151-1263

1151-1265

1151-1335



1151-1450-2

S 1151

| Code | No. | Contents | |
|---|---|---|---|
| 6607010 | **S 1151** | 68 tools in metric sizes | 9.6 |
| 6608330 | **1151-1263** | Tool set S 1151<br>+ tool box 1263 L | 15.8 |
| 6609140 | **1151-1265** | Tool set S 1151<br>+ tool box 1265 L | 17.3 |
| 6610660 | **1151-1335** | Tool set S 1151<br>+ tool box 1335 L | 18.5 |
| 6617240 | **1151-1450-2** | Tool set S 1151<br>+ 2x tool panel 1450 L<br>+ hook assortment 1500 HS-1151 | 17.3 |

| S 1151 | Contents |
|---|---|
| | **2** 8x9 10x11 12x13 14x15 16x17 18x19 20x22 |
| | **6** 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 |
| | **19** 10 11 12 13 14 15 17 19 22 24 27 30 32 |
| | **1990** -3 -5 -10 |
| | **1987** |
| | **1995** |
| | **1993 U** -10 T |
| | **38** 16 [2×] |

| | Contents |
|---|---|
| | **42** 2,5 3 4 5 6 8 |
| | **2150** 4 6,5 8 |
| | **2160 PH** 2 |
| | **50** |
| | **137** 10 |
| | **145** 10 C |
| | **299** |
| | **100** -12 |

| | Contents |
|---|---|
| | **99** 10-4 |
| | **97** -150 |
| | **625** M |
| | **4611** |
| | **8250** -180 JC |
| | **8316** -160 JC |
| | **600 H** -500 |



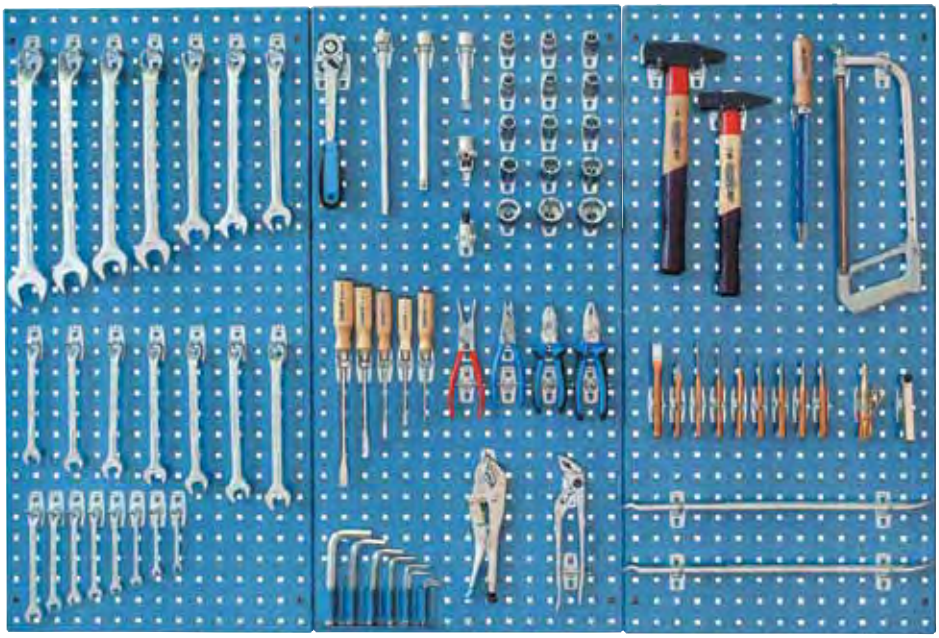
Quantities in packs may vary.

## S 1002

### TOOL ASSORTMENT FOR TRACTORS 79 pieces

- For tractors and other agricultural machines of all brands with metric screws
- Recommended hook assortment 1500 HS-1002 (91 pieces)
- Also available in tool trolley or on tool boards

mm



1002-1450-3

1002-1578

S 1002

| Code | No. | Contents | |
|---|---|---|---|
| 6600270 | **S 1002** | 79 tools in metric sizes | 16.1 |
| 2657457 | **1002-1450-3** | Tool set S 1002<br>+ 3x tool panel 1450 L<br>+ hook assortment 1500 HS-1002 | 32.7 |
| 2657465 | **1002-1578** | Tool set S 1002<br>+ tool trolley 1578 | 59.6 |

| S 1002 | Contents |
|---|---|
| | **1 B** 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 22 23 24 27 28 30 32 |
| | **19** 10 11 12 13 14 15 16 17 18 19 22 24 27 30 32 |
| | **IS 19** 12x2 |
| | **1990** -5 -10 |
| | **1987** |
| | **1995** |
| | **1993 U** -10 T |
| | **38** 20 [2x] |
| | **42** 3 4 5 6 8 10 12 14 |
| | **137** 10 |

| | Contents |
|---|---|
| | **145** 10 C |
| | **147** 5,5 7 9 12 |
| | **162** 2 |
| | **100** -10 |
| | **99** 12-5 12-6 12-8 |
| | **97** -150 |
| | **98** -125 |
| | **119** -3 -4 -5 |
| | **403** |
| | **132** -200 |

| | Contents |
|---|---|
| | **702** 20 M |
| | **4610** |
| | **8010 A** 2 |
| | **8010 J** 2 |
| | **8250** -180 JC |
| | **8316** -160 JC |
| | **600 H** -500 -1000 |

Quantities in packs may vary.

## S 1016

### BASIC TOOL ASSORTMENT IN TOOL CASE 87 pieces

- Ideal for mobile applications by fitters and service personnel
- Also available with case or on tool board

mm

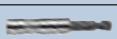
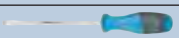
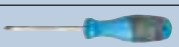
1016-1450

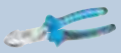
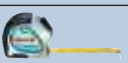
1016

S 1016

| Code | No. | Contents | ⚖ |
|---|---|---|---|
| 2319918 | **S 1016** | 87 tools without case | 8.5 |
| 2330792 | **1016** | Tool set S 1016<br>+ tool case 1016 L | 13.2 |
| 2657546 | **1016-1450** | Tool set S 1016<br>+ tool panel 1450 L<br>+ hook assortment 1500 HS-1016 | 14.9 |

| S 1016 | Contents |
|---|---|
| | **7** 8 9 10 11 12 13 14 15 17 19 22 |
| | **1993 U** -10 T |
| | **19** 10 11 12 13 14 16 17 18 19 21 22 24 |
| | **1990** -5 -10 |
| | **1987** |
| | **D 20** 4 5 6 7 8 9 10 11 12 13 |
| | **680** 4 5,5 6,5 |
| | **685** 3 4 5 6 |
| | **685 X** 5 6 8 |

| | Contents |
|---|---|
| | **687 TX** T10 T15 T20 T25 T27 T30 T40 |
| | **690** 1 2 |
| | **690 PZD** 1 2 3 |
| | **620** |
| | **676** |
|  | **699** |
|  | **2090** -4 |
| | **2093 U** -20 |
|  | **2150** 4 5,5 6,5 8 |
|  | **2160 PH** 1 2 |
| | **42** 2 (5/64AF) 2,5 3 4 5 6 8 10 |

| | Contents |
|---|---|
| | **97** -125 -150 |
| | **98** -125 |
| | **99** 12-3 |
| | **100** -10 |
| | **119** -4 |
|  | **8316** -180 JC |
| | **8132** -160 JC |
| | **142** 10 TL |
| | **600 H** -500 |
| | **406** |
|  | **4534** -5 |



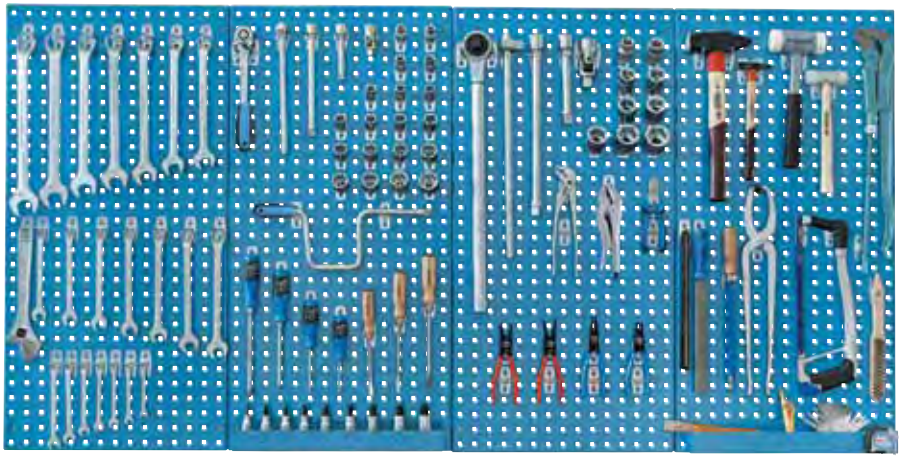
Quantities in packs may vary.

## S 1006

### TOOL ASSORTMENT FOR TRUCKS 115 pieces

- For service and repairs
- Recommended hook assortment 1500 HS-1006 (120 pieces)
- Tools in metric sizes
- Also available in tool trolley or on tool boards

mm



1006-1450-4

1006-2004

S 1006

| Code | No. | Contents | |
|---|---|---|---|
| 6600940 | **S 1006** | 115 tools in metric sizes | 33.3 |
| 2657597 | **1006-1450-4** | Tool set S 1006<br>+ 4x tool panel 1450 L<br>+ hook assortment 1500 HS-1006 | 74.8 |
| 2657600 | **1006-2004** | Tool set S 1006<br>+ tool trolley 2004 0511 | 117.3 |

| S 1006 | Contents |
|---|---|
| | **1 B** 8 9 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 29 30 32 |
| | **19** 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32 |
| | **IN 19** 5 6 7 8 9 10 12 14 17 |
| | **1990** -5 -10 |
| | **1985** |
| | **1987** |
| | **1995** |
| | **1993 U** -10 T |
| | **32** 19 22 24 27 29 30 32 36 38 |
| | **3290** -8 -16 |
| | **3287** |
| | **3295** |
| | **3293 U** -3 |
| | **60 CP** 12 |

| | Contents |
|---|---|
| | **135** 19 |
| | **137** 10 |
| | **146** 10 CP |
| | **100** 2 |
| | **147** 7 9 10 |
| | **2160 PH** 1 2 3 4 |
| | **100** -10 |
| | **97** -200 |
| | **119** -4 -5 -6 |
| | **96** -200 |
| | **407** |
| | **407 A** [12×] |
| | **644** |
| | **132** -250 |

| | Contents |
|---|---|
| | **702** 20 M |
| | **4534** -3 |
| | **4610** |
| | **8000** A 2 A 21 |
| | **8000** J 2 J 21 |
| | **8316** -160 JC |
| | **248 ST** -50 |
| | **225 E** -32 |
| | **600 H** -100 -1500 |
| | **8701** 2-10 |

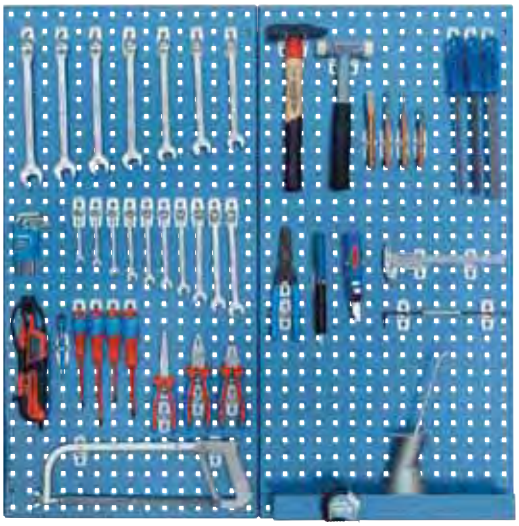
Quantities in packs may vary.

## S 1023

### TOOL ASSORTMENT FOR MECHANICAL ENGINEERS 120 pieces

- Practical entry-level toolset
- The range includes mechanical and electrical engineering tools
- Recommended hook assortment 1500 HS-1023 (53 pieces)
- Also available in tool trolley or on tool boards

mm



1023-1450-2

1023-1578

S 1023

| Code | No. | Contents | |
|---|---|---|---|
| 1999060 | **S 1023** | 118 tools in metric sizes | 13.0 |
| 2657619 | **1023-1450-2** | Tool set S 1023<br>+ 2x tool panel 1450 L<br>+ hook assortment 1500 HS-1023 | 27.3 |
| 2657627 | **1023-1578** | Tool set S 1023<br>+ tool trolley 1578 | 56.5 |

| S 1023 | Contents |
|---|---|
| | **1 B** 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 |
| | **D 20** 4 5 6 7 8 9 10 11 12 13 |
| | **680** 4 5,5 6,5 |
| | **685** 3 4 5 6 |
| | **685 X** 5 6 8 |
| | **687 TX** T10 T15 T20 T25 T27 T30 T40 |
| | **690** 1 2 |
| | **690 PZD** 1 2 3 |
| | **620** |
| | **676** |
| | **699** |
| | **2090** -4 |
| | **2093 U** -20 |
| | **1993 U** -10 T |
| | **19** 8 9 10 11 12 13 14 15 16 17 19 22 24 27 30 32 |
| | **1987** |
| | **1990** -5 -10 |

| | Contents |
|---|---|
| | **1995** |
| | **VDE 8132** -200 H |
| | **VDE 8250** -180 H |
| | **VDE 8314** -160 H |
| | **VDE 2170** 4 5,5 |
| | **VDE 2160 PH** 1 2 |
| | **V 4614 PLUS** |
| | **4615** 3 |
| | **171 IS** 1,2 1,5 2 |
| | **165 PH** 00 0 |
| | **8305** -2 |
| | **8306** -5 |
| | **42** 1,3 1,5 2 (5/64AF) 2,5 3 4 5 6 8 10 |
| | **97** -150 |
| | **100** -10 |
| | **119** -3 -5 |

| | Contents |
|---|---|
| | **600 H** -500 |
| | **248 ST** -30 |
| | **8701** 2-8 |
| | **8719** 2-8 |
| | **8722** 2-8 |
| | **403** |
| | **4528** |
| | **710** |
| | **745** |
| | **4534** -3 |
| | **298** -04 |
| | **8354** -1 |
| | **8139** -220 TL |



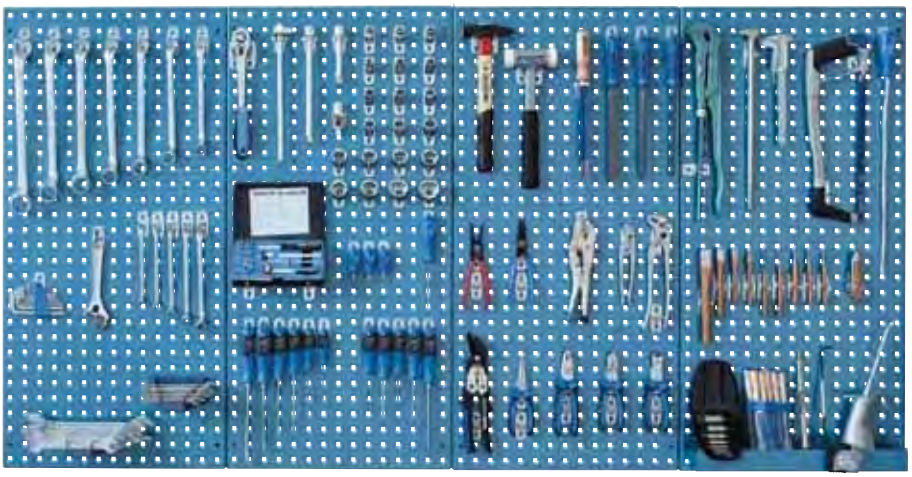
Quantities in packs may vary.

## S 1008

### MECHANIC'S TOOL ASSORTMENT 138 pieces

- A useful selection of tools for many jobs
- Recommended hook assortment 1500 HS-1008 (107 pieces)
- Tools in metric sizes
- Also available in tool trolley or on tool boards

mm

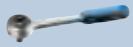


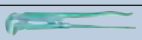
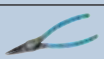
1008-1450-4

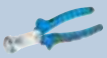
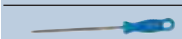
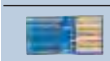
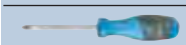
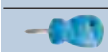
1008-2525

S 1008

| Code | No. | Contents | |
|---|---|---|---|
| 6603610 | **S 1008** | 138 tools in metric sizes | 23.5 |
| 2657635 | **1008-1450-4** | Tool set S 1008<br>+ 4x tool panel 1450 L<br>+ hook assortment 1500 HS-1008 | 54.5 |
| 2657643 | **1008-2525** | Tool set S 1008<br>+ tool trolley 2525-520 | 90.5 |

| S 1008 | Contents |
|---|---|
| | **2** 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32 |
| | **6** 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32 |
| | **19** 8 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32 |
| | **1987** |
| | **1995** |
|  | **1990** -5 -10 |
| | **1993 U** -10 T |
|  | **2093 U** -3 |
| | **20** 4 4,5 5 5,5 6 7 8 9 10 11 13 |
| | **2087** |
|  | **2090** -4 |
| | **2095** |
| | **2098** |
| | **42** 2 (5/64AF) 2,5 3 4 5 6 8 10 |
| | **60 CP** 8 |
| | **298** -04 |

| | Contents |
|---|---|
| | **137** 10 |
|  | **140** |
| | **143** 10 C |
| | **144** 7 C |
|  | **156 S** |
|  | **175** 1.1/2 |
|  | **139** -400 |
|  | **100** -10 |
| | **99** 10-3 12-5 |
| | **97** -125 -150 -200 |
| | **98** -125 |
|  | **119** -3 -5 |
| | **407** |
|  | **640** -1800 |
| | **132** -200 |
| | **710** |
|  | **745** |
|  | **4522** |
| | **4534** -3 |
| | **8000 A** 2 |
|  | **8000 J** 2 |

| | Contents |
|---|---|
| | **8250** -180 JC |
| | **8132** -160 JC |
| | **8316** -160 JC |
|  | **8367** -160 JC |
|  | **8551** 1 2 3 4 5 6 7 8 |
| | **600 H** -500 |
| | **248 ST** -40 |
| | **8701** 2-8 |
| | **8719** 2-8 |
|  | **8722** 2-8 |
| | **424026** |
|  | **8728** |
| | **2150** 3 4 5,5 |
| | **2153** 6,5 |
|  | **2154** 6,5 8 10 |
| | **2160 PZ** 1 2 |
|  | **2160 PH** 1 2 3 |
|  | **2161 PH** 1 2 |

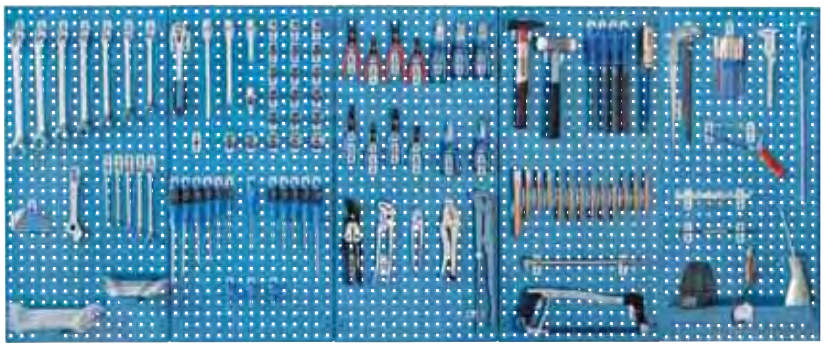
Quantities in packs may vary.

## S 1007

### MECHANIC'S TOOL ASSORTMENT 180 pieces

- A complete tool assortment for the professional
- Recommended hook assortment 1500 HS-1007 (131 pieces)
- Tools in metric sizes
- Also available in tool trolley or on tool boards

mm



1007-1450-5

1007-2004

S 1007

| Code | No. | Contents | |
|---|---|---|---|
| 6601080 | **S 1007** | 180 tools in metric sizes | 27.7 |
| 2657686 | **1007-1450-5** | Tool set S 1007<br>+ 5x tool panel 1450 L<br>+ hook assortment 1500 HS-1007 | 117.4 |
| 2657694 | **1007-2004** | Tool set S 1007<br>+ tool trolley 2004 0511 | 111.7 |

| S 1007 | Contents |
|---|---|
| | **2** 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32 |
| | **6** 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32 |
| | **19** 8 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32 |
| | **IN 19** 5 6 7 8 9 10 12 14 17 |
| | **1987** |
| | **1995** |
| | **1990** -5 -10 |
| | **1993 U** -10 T |
| | **2093 U** -3 |
| | **20** 4 4,5 5 5,5 6 7 8 9 10 11 13 |
| | **2087** |
| | **2090** -4 |
| | **2095** |
| | **2098** |
| | **42** 2 (5/64AF) 2,5 3 4 5 6 8 10 |
| | **60 CP** 8 |
| | **298** -04 |
| | **137** 10 |
| | **140** |
| | **143** 10 C |
| | **144** 7 C |

| | Contents |
|---|---|
| | **156 S** |
| | **175** 1.1/2 |
| | **139** -400 |
| | **100-10** |
| | **99** 10-3 12-5 |
| | **97** -125 -150 -200 |
| | **98** -125 |
| | **119** -2 -3 -4 -5 -6 -8 |
| | **402** |
| | **404** |
| | **407** |
| | **640** -1800 |
| | **132** -200 |
| | **710** |
| | **745** |
| | **880** 5,5 6,5 8 12 |
| | **885** 4 5 6 8 10 |
| | **890** 2 3 4 |
| | **887 TX** T27 T30 T40 T45 |
| | **KB 819** |
| | **K 1900** |
| | **4522** |
| | **4534** -3 |
| | **8000** A 1 A 2 A 11 A 21 |

| | Contents |
|---|---|
| | **8000** J 1 J 2 J 11 J 21 |
| | **8250** -180 JC |
| | **8132** -160 JC |
| | **8132 AB** -160 JC |
| | **8316** -160 JC |
| | **8367** -160 JC |
| | **8551** 1 2 3 4 5 6 7 8 |
| | **600 H** -500 |
| | **248 ST** -40 |
| | **8701** 2-8 |
| | **8719** 2-8 |
| | **8722** 2-8 |
| | **8725** 2-8 |
| | **424026** |
| | **8728** |
| | **2150** 3 4 5,5 |
| | **2153** 6,5 |
| | **2154** 6,5 8 10 |
| | **2160 PZ** 1 2 |
| | **2160 PH** 1 2 3 |
| | **2161 PH** 1 2 |



Quantities in packs may vary.

## S 1151 A

### TOOL ASSORTMENT INCH 69 pieces

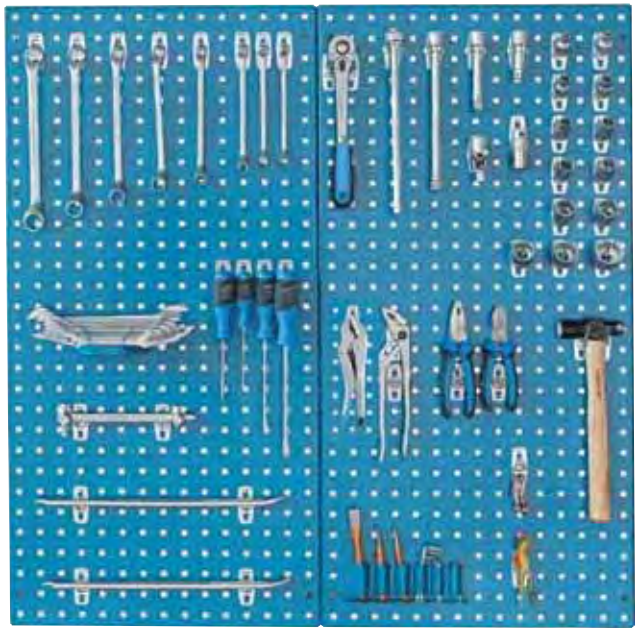
- For workshops and service stations
- Recommended hook assortment 1500 HS-1151 A (52 pieces)
- Tools in inch sizes
- Also available in tool box or on tool boards

"AF

1151 A-1263

1151 A-1265

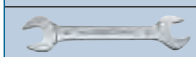
1151 A-1335



1151 A-1450-2

S 1151 A

| Code | No. | Contents | |
|---|---|---|---|
| 6607280 | **S 1151 A** | 69 tools in inch sizes | 9.4 |
| 6608410 | **1151 A-1263** | Tool set S 1151 A<br>+ tool box 1263 L | 15.8 |
| 6609220 | **1151 A-1265** | Tool set S 1151 A<br>+ tool box 1265 L | 17.3 |
| 6610740 | **1151 A-1335** | Tool set S 1151 A<br>+ tool box 1335 L | 18.5 |
| 2657449 | **1151 A-1450-2** | Tool set S 1151 A<br>+ 2x tool panel 1450 L<br>+ hook assortment 1500 HS-1151 A | 22.0 |

| S 1151 A | Contents |
|---|---|
| | **2** 1/4x5/16AF 5/16x3/8AF 3/8x7/16AF 7/16x1/2AF 9/16x5/8AF 19/32x11/16AF 3/4x25/32AF 13/16x7/8AF |
|  | **6** 1/4x5/16AF 5/16x3/8AF 7/16x1/2AF 9/16x5/8AF 19/32x11/16AF 3/4x25/32AF 13/16x7/8AF 15/16x1AF |
| | **D 19** 5/16AF 3/8AF 7/16AF 1/2AF 9/16AF 5/8AF 11/16AF 3/4AF 7/8AF 15/16AF 1AF 1.1/16AF 1.1/4AF |
| | **1990** -3 -5 -10 |
|  | **1987** |
| | **1995** |
| | **1993 U** -10 T |

| | Contents |
|---|---|
|  | **38** 16 [2x] |
| | **42** 3/32AF 1/8AF 5/32AF 3/16AF 7/32AF (5,5MM) 1/4AF |
|  | **2150** 4 6,5 8 |
| | **2160 PH** 2 |
| | **50** |
| | **137** 10 |
| | **145** 10 C |
| | **299** |
|  | **100** -12 |

| | Contents |
|---|---|
| | **99** 10-4 |
| | **97** -150 |
| | **625** A |
| | **4611** |
| | **8250** -180 JC |
| | **8316** -160 JC |
| | **8601** 1 |

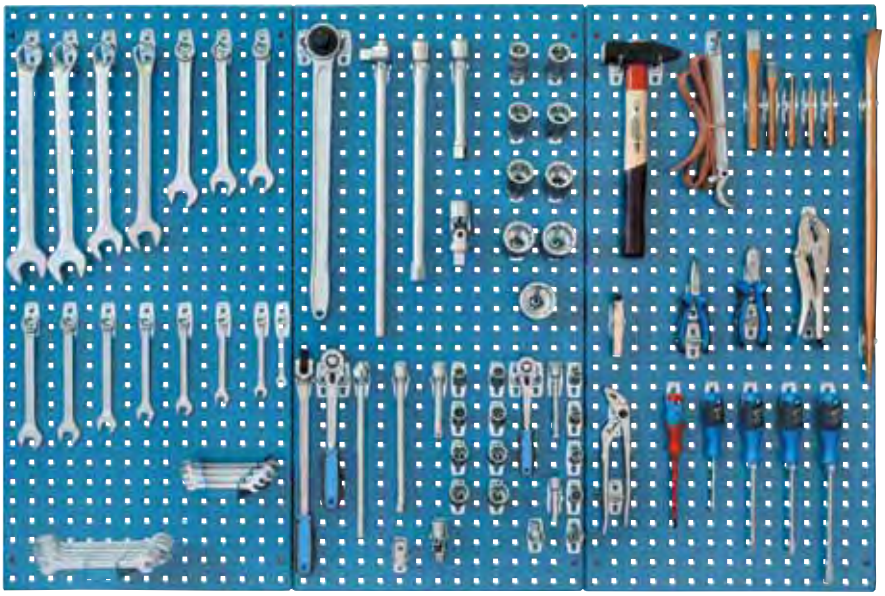
Quantities in packs may vary.

## S 1005 A

### TOOL ASSORTMENT FOR CONSTRUCTION MACHINES 81 pieces

- For construction machinery using inch sizes
- Especially suitable for Caterpillar® machines
- Recommended hook assortment 1500 HS-1005 A (81 pieces)
- Tools in inch sizes
- Also available in tool trolley or on tool boards

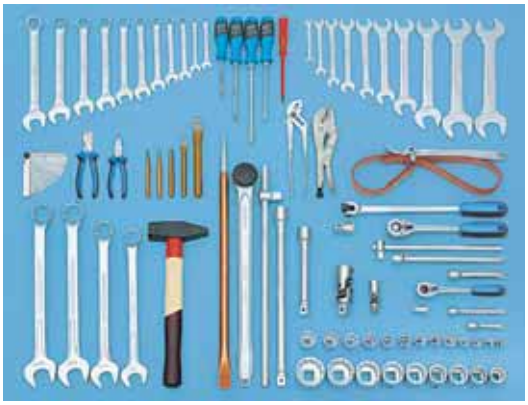
"AF



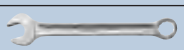
1005 A-1450-3

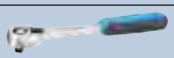
1005 A-3000

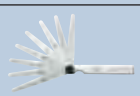
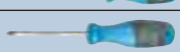
S 1005 A



| Code | No. | Contents | |
|---|---|---|---|
| 6600510 | **S 1005 A** | 81 tools in inch sizes | 22.9 |
| 2657503 | **1005 A-1450-3** | Tool set S 1005 A<br>+ 3x tool panel 1450 L<br>+ hook assortment 1500 HS-1005 A | 41.4 |
| 2657511 | **1005 A-3000** | Tool set S 1005 A<br>+ tool trolley 3000 TANTO | 89.9 |

| S 1005 A | Contents |
|---|---|
|  | **1 B** 1.1/16AF 1.1/8AF 1.1/4AF 1.5/16AF |
| | **6** 1/4x5/16AF 3/8x7/16AF 1/2x9/16AF 19/32x11/16AF 5/8x3/4AF 13/16x7/8AF 15/16x1AF 1.1/16x1.1/8AF 1.1/4x1.3/8AF 1.5/16x1.1/2AF |
|  | **7** 3/8AF 7/16AF 1/2AF 9/16AF 5/8AF 11/16AF 3/4AF 13/16AF 7/8AF 15/16AF 1AF |
| | **D 19** 9/16AF 5/8AF 11/16AF 3/4AF 13/16AF 7/8AF 15/16AF 1AF |
| | **1993 U** -10 T |
| | **1990** -5 -10 |
| | **1932** |
|  | **1987** |
| | **1995** |
|  | **1997** |
| | **D 30** 7/16AF 1/2AF 9/16AF 5/8AF 3/4AF |

| | Contents |
|---|---|
| | **3090** -3 -5 |
| | **3019** |
|  | **3093 U** -10 |
| | **D 32** 7/8AF 1AF 1.1/16AF 1.1/8AF 1.1/4AF 1.5/16AF 1.1/2AF 1.5/8AF 1.3/4AF |
| | **3290** -8 -16 |
|  | **3287** |
| | **3295** |
| | **3293 U** -2 |
| | **137** 10 |
| | **145** 10 C |
| | **100** -12 |

| | Contents |
|---|---|
| | **99** 10-4 12-8 |
| | **97** -150 -200 |
|  | **702** 26 A |
| | **36** 2-200 |
| | **8132 AB** -160 JC |
| | **8316** -160 JC |
| | **600 H** -1000 |
| | **137** -600 |
| | **2154** 8 12 |
|  | **2160 PH** 2 3 |
| | **VDE 2170** 5,5 |



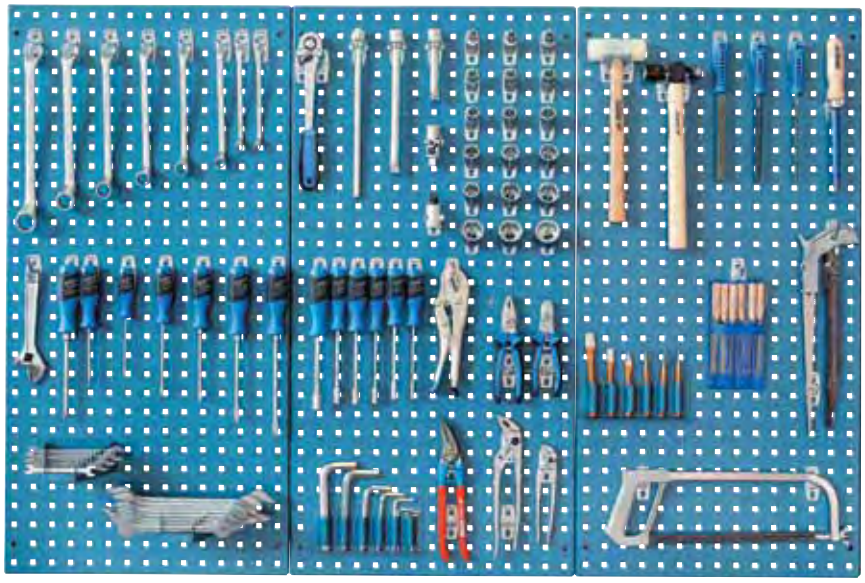
Quantities in packs may vary.

## S 1400 GA

### UNIVERSAL TOOL ASSORTMENT INCH 92 pieces

- Tools in inch sizes
- Recommended hook assortment 1500 HS-1400 GA (110 pieces)
- Also available in tool trolley or on tool boards

"AF



1400 GA-1450-3

1400 GA-2525

S 1400 GA

| Code | No. | Contents | |
|---|---|---|---|
| 6612870 | **S 1400 GA** | 92 tools in inch sizes | 17.7 |
| 2657554 | **1400 GA-1450-3** | Tool set S 1400 GA<br>+ 3x tool panel 1450 L<br>+ hook assortment 1500 HS-1400 GA | 45.4 |
| 2657562 | **1400 GA-2525** | Tool set S 1400 GA<br>+ tool trolley 2525-520 | 84.7 |

| S 1400 GA | Contents |
|---|---|
| | **2** 1/4x5/16AF 5/16x3/8AF 7/16x1/2AF 9/16x5/8AF 19/32x11/16AF 3/4x25/32AF 13/16x7/8AF 15/16x1AF |
| | **6** 1/4x5/16AF 5/16x3/8AF 3/8x7/16AF 7/16x1/2AF 1/2x9/16AF 9/16x5/8AF 19/32x11/16AF 5/8x3/4AF 3/4x7/8AF 25/32x13/16AF 15/16x1AF 1.1/16x1.1/8AF |
| | **D 19** 3/8AF 13/32AF 7/16AF 1/2AF 9/16AF 19/32AF 5/8AF 11/16AF 3/4AF 25/32AF 13/16AF 7/8AF 15/16AF 1AF 1.1/16AF 1.1/8AF 1.1/4AF |
| | **IS 19** 16x2,5 |
| | **1993 U** -10 T |
| | **1987** |
| | **1990** -5 -10 |
| | **1995** |
| | **42** 1/8AF 5/32AF 3/16AF 1/4AF 5/16AF 3/8AF 1/2AF 9/16AF |
| | **2150** 4 5,5 |
| | **2154** 6,5 8 10 |

| | Contents |
|---|---|
| | **2160 PH** 2 3 |
| | **2133** 3/16AF 1/4AF 9/32AF 5/16AF 11/32AF 3/8AF |
| | **60 CP** 8 |
| | **137** 10 |
| | **144** 7 C |
| | **145** 10 C |
| | **100** -10 |
| | **99 10** -3 -4 |
| | **97** -125 -150 |
| | **98** -125 |
| | **402** |
| | **403** |

| | Contents |
|---|---|
| | **132-150** |
| | **8250** -180 JC |
| | **8316** -160 JC |
| | **421025** |
| | **225 E** -40 |
| | **8601** 1 |
| | **8701** 2-6 |
| | **8719** 2-6 |
| | **8722** 2-6 |
| | **8728** |

Quantities in packs may vary.

## S 1019

### TOOL ASSORTMENT CARS 157 pieces

- Ideal for maintenance and service work on cars
- Suitable for cars of all brands with metric and TORX® screws
- Supplied in tool modules 1500 ES
- For tool trolleys 2000, 2500, 2525-520, 3000 TANTO, 2005 models 0511, 0701, 0810, 2004 models 0511, 0620, 0701, 0810, 1000
- For work benches 1502, 1504 XL, 1504 models 0511, 0620, 0701, 0810, 1000, 1506 XL models 2511 and 2810
- Also available in tool trolley 2004 0511

mm

1019-2004

S 1019

| Code | No. | Contents | |
|---|---|---|---|
| 2319926 | **S 1019** | 157 tools | 22.1 |
| 2657651 | **1019-2004** | Tool set S 1019 + tool trolley 2004 0511 | 106.1 |

| | Contents |
|---|---|
| | **6** 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 |
| | **7 R** 8 10 12 13 14 15 16 17 18 19 |
| | **400** 8x10 10x11 12x14 17x19 13x15 |
| | **20** 4 5 5,5 6 7 8 9 10 11 12 13 14 |
| | **IN 20** 3 4 5 6 8 |
| | **TX 20** E4 E5 E6 E7 E8 E10 |
| | **ITX 20** T8 T9 T10 T15 T20 T25 T27 T30 T40 |
| | **2087** |
| | **2090** -4 |
| | **2095** |
| | **2098** |
| | **2093 U** -10 |
| | **1993 U** -20 |
| | **1987** |
| | **1995** |
| | **1990** -5 -10 |
| | **19** 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32 |

| | Contents |
|---|---|
| | **IS 19** 10x1,6 12x2 |
| | **IKS 19** 2 3 4 |
| | **INX 19** 8 10 |
| | **IN 19** 5 6 7 8 9 10 12 14 17 |
| | **IN 19 L** 5-90 6-90 8-90 10-140 12-140 14-140 |
| | **ITX 19** T20 T25 T27 T30 T40 T45 T50 T55 T60 |
| | **ITX 19 L** T20-100 T25-100 T27-100 T30-100 T40-100 T45-100 T50-100 T55-100 T60-100 |
| | **708** |
| | **142** 10 JC |
| | **8132** -160 JC |
| | **8250** -180 JC |
| | **8316** -160 JC |
| | **8000 A** 1 2 21 |
| | **8000 J** 1 2 21 |

| | Contents |
|---|---|
| | **2150** 4 5,5 6,5 8 |
| | **2160 PH** 1 2 |
| | **119** -3 -4 -5 -6 -7 -8 |
| | **600 H** -500 |
| | **248 ST** -40 |
| | **38** 20 |
| | **643** |
| | **702 20 M** |
| | **4550** -20 |
| | **133 D** -150 |
| | **132** -150 |
| | **8701** 2-8 |
| | **8719** 2-8 |
| | **8722** 2-8 |
| | **8725** 2-8 |
| | **8726** |



Quantities in packs may vary.

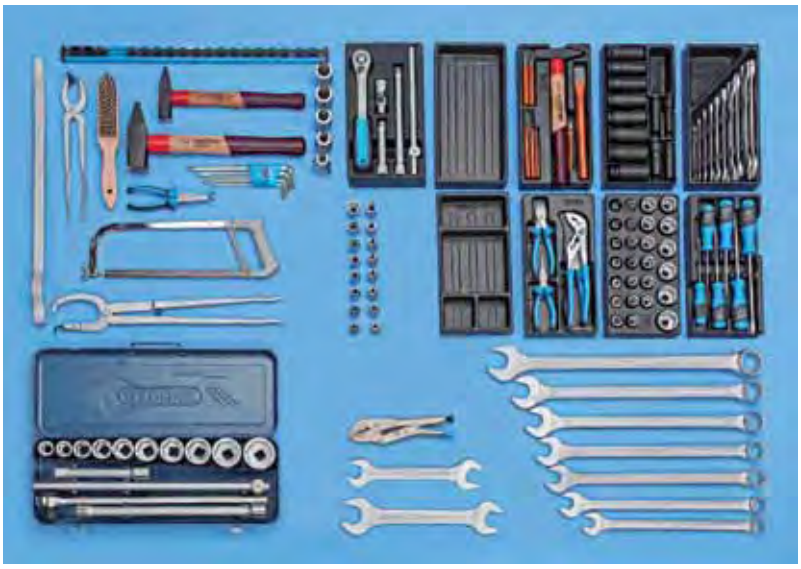
## S 1022

### TOOL ASSORTMENT HGV 158 pieces

- Ideal for maintenance and service work on industrial vehicles of all brands with metric and TORX® screws
- For tool trolleys 2000, 2500, 2525-520, 3000 TANTO, 2005 models 0511, 0701, 0810, 2004 models 0511, 0620, 0701, 0810
- For work benches 1502, 1504 XL, 1504 models 0511, 0620, 0701, 0810, 1506 XL models 2511 and 2810
- Also available in tool trolley 2005 0511

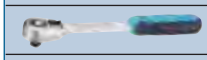
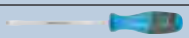
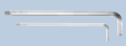
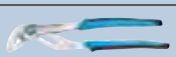
mm

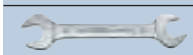
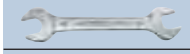
1022-2005

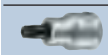
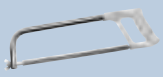
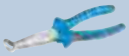
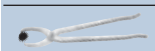
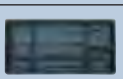


S 1022

| Code | No. | Contents | |
|---|---|---|---|
| 2319934 | **S 1022** | 158 tools | 45.5 |
| 2657678 | **1022-2005** | Tool set S 1022 + tool trolley 2005 0511 | 138.5 |

| | Contents |
|---|---|
|  | **1993 U** -20 |
| | **1987** |
| | **1995** |
| | **1990** -5 -10 |
| | **19** 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32 |
| | **IN 19** 6 7 8 9 10 12 14 |
| | **K 19 L** 10 13 14 16 17 18 19 21 22 23 24 27 |
|  | **2150** 4 5,5 6,5 8 |
| | **2160 PH** 1 2 |
|  | **42 KEL** 2 2,5 3 4 5 6 8 10 |
|  | **142** 10 JC |
| | **8132** -160 JC |
| | **8250** -180 JC |

| | Contents |
|---|---|
| | **8316** -160 JC |
|  | **6** 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 |
|  | **6** 30x32 36x41 |
| | **7 XL** 24 27 30 32 34 36 41 |
|  | **97** -250 |
| | **98** -125 |
| | **99** 12-5 |
| | **100** -12 |
| | **119** -1,5 -3 -4 |
| | **600 H** -300 |
| | **137** 10 |
| | **TX 19** E10 E11 E12 E14 E16 E18 E20 E24 |
| | **ITX 19** T20 T25 T27 T30 T40 T45 T50 T55 |
| | **3293 U** -2 |
| | **32** 22 24 27 30 32 36 38 41 46 50 |

| | Contents |
|---|---|
| | **3287** |
| | **3290** -8 -16 |
|  | **ITX 32** T60 T70 T80 T90 T100 |
|  | **403** |
|  | **39** |
|  | **8138** -200 JC |
|  | **135** 13 20 |
| | **646** |
| | **600 H** -500 -1500 |
|  | **SL 1912** [2×] |
| | **1500 ED-30** [12×] |
| | **1500 E-N L** [2×] |
|  | **1500 E-S L** |

Quantities in packs may vary.

## S 1500 ES-01

### MODULE ASSORTMENT SMALL 104 pieces

- General basic range for beginners in all professions
- Tools in metric sizes
- Proved GEDORE ES tool modules from ABS
- For tool trolleys 1578, 1580, 1585, 2000, 2525-520, 2535, 3010, 3000 TANTO, 2005 models 0511, 0701, 0810, 2004 models 0321, 0511, 0620, 0701, 0810, 1000 and workbench 1506 XL models 2511 and 2810
- Also available in tool trolley 1578

mm

1500 ES-01-1578

S 1500 ES-01

| Code | No. | |
|---|---|---|
| 2319845 | **S 1500 ES-01**<br>1500 ES-1 B<br>1500 ES-19<br>1500 ES-1993 U-20<br>1500 ES-20<br>1500 ES-145<br>1500 ES-350<br>1500 ES-2150 PH | 12.1 |
| 2657589 | **1500 ES-01-1578**<br>**S 1500 ES**-01<br>+ **1578** | 55.6 |

| S 1500 ES-01 | Contents |
|---|---|
| | **1 B** 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 |
| | **42** 2 (5/64AF) 2,5 3 4 5 6 8 10 |
| | **19** 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32 |
| | **IN 19** 6 7 8 9 10 12 14 |
| | **1993 U** -20 |
| | **1987** |
| | **1995** |
| | **1990** -5 -10 |
| | **20** 4 5 5,5 6 7 8 9 10 11 12 13 14 |
| | **IN 20** 3 4 5 6 8 |
| | **TX 20** E4 E5 E6 E7 E8 E10 |

| | Contents |
|---|---|
| | **ITX 20** T8 T9 T10 T15 T20 T25 T27 T30 T40 |
| | **2087** |
| | **2090** -4 |
| | **2095** |
| | **2098** |
| | **2093 U** -10 |
| | **142** 10 JC |
| | **8132** -160 JC |
| | **8250** -180 JC |
| | **8316** -160 JC |

| | Contents |
|---|---|
| | **97** -250 |
| | **98** -125 |
| | **99** 12-5 |
| | **100** -12 |
| | **119** -1,5 -3 -4 |
| | **600 H** -300 |
| | **2150** 4 5,5 6,5 8 |
| | **2160 PH** 1 2 |

Suitable tool trolleys and workbenches for your tool assortments - see page 64 – 65

Quantities in packs may vary.

## S 1500 ES-02

### MODULE ASSORTMENT MIDDLE 207 pieces

- Basic equipment for the commercial sector or ambitious do-it-yourselfers
- Tools in metric sizes
- Proved GEDORE ES tool modules from ABS
- For tool trolleys 2525-520, 2500, 3000 TANTO, 2005 models 0701, 0810, 2004 models 0620, 0701, 0810, 1000
- For work bench 1504 models 0701, 0810, 1000, 1506 XL models 2511 and 2810
- Also available in tool trolley 2004 0620

mm

1500 ES-02-2004

S 1500 ES-02

| Code | No. | |
|---|---|---|
| 2319853 | **S 1500 ES-02**<br>1500 ES-1 B<br>1500 ES-6<br>1500 ES-19 IS<br>1500 ES-ITX 19 LKP<br>1500 ES-IN 19 LKM<br>1500 ES-1993 U-20<br>1500 ES-20<br>1500 ES-2133<br>1500 ES-7 R<br>1500 ES-145<br>1500 ES-350<br>1500 ES-711<br>1500 ES-2150 PH<br>1500 ES-K 1900<br>1500 ES-8000<br>1500 ED-70 L [6x] | 29.1 |
| 2657708 | **1500 ES-02-2004**<br>**S 1500 ES**-02<br>+ **2004** 0620 | 117.1 |

| S 1500 ES-02 | Contents |
|---|---|
| | **1 B** 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 |
| | **42** 2 (5/64AF) 2,5 3 4 5 6 8 10 |
| | **6** 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 |
| | **19** 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32 |
| | **IS 19** 10x1,6 12x2 |
| | **IKS 19** 2 3 4 |
| | **INX 19** 8 10 |
| | **ITX 19** T20 T25 T27 T30 T40 T45 T50 T55 T60 |
| | **ITX 19 L** T20-100 T25-100 T27-100 T30-100 T40-100 T45-100 T50-100 T55-100 T60-100 |
| | **708** |
| | **IN 19** 5 6 7 8 9 10 12 14 17 |
| | **IN 19 L** 5-90 6-90 8-90 10-140 12-140 14-140 |
| | **1993 U** -20 |

| | Contents |
|---|---|
| | **1987** |
| | **1995** |
| | **1990** -5 -10 |
| | **20** 4 5 5,5 6 7 8 9 10 11 12 13 14 |
| | **IN 20** 3 4 5 6 8 |
| | **TX 20** E4 E5 E6 E7 E8 E10 |
| | **ITX 20** T8 T9 T10 T15 T20 T25 T27 T30 T40 |
| | **2087** |
| | **2090** -4 |
| | **2095** |
| | **2098** |
| | **2093 U** -10 |
| | **2133** 5,5 6 7 8 9 10 |
| | **7 R** 8 10 12 13 14 15 16 17 18 19 |
| | **142** 10 JC |
| | **8132** -160 JC |
| | **8250** -180 JC |
| | **8316** -160 JC |
| | **97** -250 |
| | **98** -125 |
| | **99** 12-5 |
| | **100** -12 |

| | Contents |
|---|---|
| | **119** -1,5 -3 -4 |
| | **600 H** -300 |
| | **140** |
| | **4534** -5 |
| | **708** |
| | **711** |
| | **720** |
| | **745** |
| | **2150** 4 5,5 6,5 8 |
| | **2160 PH** 1 2 |
| | **K 19** 10 13 14 17 19 |
| | **880** 7 8 9 12 |
| | **885** 5 6 8 10 |
| | **890** 1 2 3 4 |
| | **KB 819** |
| | **K 1900** |
| | **8000 A** 1 2 21 |
| | **8000 J** 1 2 21 |
| | **1500 ED-70 L** [6x] |

Quantities in packs may vary.

## S 1500 ES-03

### MODULE ASSORTMENT LARGE 325 pieces

- Extensive industrial range for professionals
- Tools in metric sizes
- Proved GEDORE ES tool modules from ABS
- For tool trolleys 2005 models 0810, 2004 models 0810, 1000
- For work bench 1504 models 0810, 1000, 1504 XL, 1506 XL models 2511, 2810
- Also available in tool trolley 2004 0810

mm

1500 ES-03-2004

| Code | No. | |
|---|---|---|
| 2319861 | **S 1500 ES-03** | 34.8 |
| | 1500 ES-1 B | |
| | 1500 ES-19 IS | |
| | 1500 ES-1993 U-20 | |
| | 1500 ES-2 | |
| | 1500 ES-2 B | |
| | 1500 ES-20 | |
| | 1500 ES-20 BIT | |
| | 1500 ES-2133 | |
| | 1500 ES-2150 PH | |
| | 1500 ES-2163 BTX | |
| | 1500 ES-34 | |
| | 1500 ES-350 | |
| | 1500 ES-400 | |
| | 1500 ES-6 | |
| | 1500 ES-7 R | |
| | 1500 ES-711 | |
| | 1500 ES-8000 | |
| | 1500 ES-DT 42 | |
| | 1500 ES-IN 19 LKM | |
| | 1500 ES-ITX 19 LKP | |
| | 1500 ES-K 1900 | |
| | 1500 ES-VDE 145 | |
| | 1500 ES-VDE 2170 PZ | |
| | 8551-55 | |
| | H 42 KEL-88 | |
| | H 43 KTX-07 | |
| | 8728 | |
| | 60 P 8 | |
| | 137 10 | |
| | 4615 3 | |
| | 4522 | |
| | 1940 | |
| | 1500 ED-70 K [3x] | |
| 2657716 | **1500 ES-03-2004** | 125.8 |
| | **S 1500 ES**-03 | |
| | + **2004** 0810 | |

S 1500 ES-03



Quantities in packs may vary.

## S 1500 ES-03

Contents

**1 B** 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

**42** 2 (5/64AF) 2,5 3 4 5 6 8 10

**19** 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32

**IS 19** 10x1,6 12x2

**IKS 19** 2 3 4

**INX 19** 8 10

**1993 U** -20

**1987**

**1995**

**1990** -5 -10

**2** 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22

**2 B** 6x7 8x9 10x11 12x13 14x15 17x19

**20** 4 5 5,5 6 7 8 9 10 11 12 13 14

**IN 20** 3 4 5 6 8

**TX 20** E4 E5 E6 E7 E8 E10

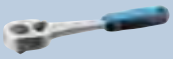
**ITX 20** T8 T9 T10 T15 T20 T25 T27 T30 T40

**2087**

**2090** -4

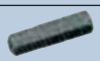
**2095**

**2098**

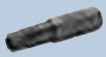

**2093 U** -10

**20 L** 4 4,5 5 6 7 8 9 10 12 13

**680** 4 5,5 6,5 8


**685** 2,5 3 4 5 6

**685 X** 5 6 8


**687 TX** T6 T7 T8 T9 T10 T15 T20 T25 T27 T30 T40

**690** 1 2 3

**690 PZD** 1 2 3

**649**

Contents

**673** 6,3

**699**

**620**

**676**

**639**

**2133** 5,5 6 7 8 9 10

**2150** 4 5,5 6,5 8

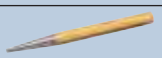
**2160 PH** 1 2

**2163 BTX** T8 T10 T15 T20 T25 T30

**34** 8x9 10x11 12x13 14x15 16x17

**97** -250

**98** -125


**99** 12-5

**100** -12

**119** -1,5 -3 -4

**600 H** -300

**400** 8x10 10x11 12x14 17x19 13x15

**6** 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27

**7 R** 8 10 12 13 14 15 16 17 18 19

**140**

**4534** -5

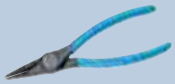
**708**

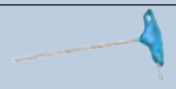
**711**

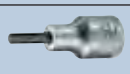
**720**

**745**

**8000 A** 1 2 21


**8000 J** 1 2 21


**DT 42** 2 2,5 3 4 5 6 7 8 10


**IN 19** 5 6 7 8 9 10 12 14 17

Contents

**IN 19 L** 5-90 6-90 8-90 10-140 12-140 14-140

**ITX 19** T20 T25 T27 T30 T40 T45 T50 T55 T60

**ITX 19 L** T20-100 T25-100 T27-100 T30-100 T40-100 T45-100 T50-100 T55-100 T60-100

**708**

**K 19** 10 13 14 17 19

**880** 7 8 9 12

**885** 5 6 8 10

**890** 1 2 3 4

**KB 819**

**K 1900**

**142** 10 C

**VDE 8250** -180 H

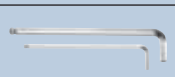
**VDE 8132** -160 H

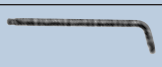
**VDE 8314** -160 H

**VDE 2170** 4 5,5 6,5 8

**VDE 2160 PZ** 1 2

**8551** 1 2 3 4 5


**42 KEL** 2 2,5 3 4 5 6 8 10


**43 KTX** T10 T15 T20 T25 T27 T30 T40

**8728**

**60 P** 8

**137** 10

**4615** 3

**4522**

**1940**

**1500 ED-70 K** [3x]

# Tool Modules

**With the user friendly tool modules from GEDORE · up from page 100**

## ES-Module

1/3 MODULES

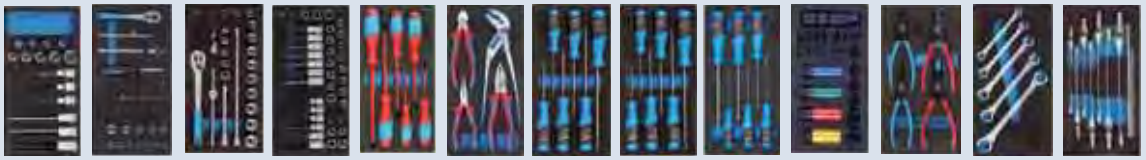
1500 ES-2 | 1500 ES-34 | 1500 ES-6 | 1500 ES-7 R | 1500 ES-2133 | 1500 ES-145 | 1500 ES-350 | 1500 ES-711 | 1500 ES-1993 U-20 | 1500 ES-19 | 1500 ES-IN 19 LKM | 1500 ES-19 IS | 1500 ES-ITX 19 LKP | 1500 ES-1 07 | 1500 ES 1993 T | 1500 ES-20

1500 ES-30 | 1500 ES-ITX 30 | 1500 ES-K 1900 | 1500 ES-VDE 2170 PZ | 1500 ES-VDE 145 | 1500 ES-2150 PH | 1500 ES-2150 PZ | 1500 ES-2163 BTX | 1500 ES-2163 TXB | 1500 ES-K 19L | 1500 ES-8000 | 1500 ES-400 | 1500 ES-2B | 1500 ES-534 | 1500 E-SL | 1500 E-N-L

## CT Tool Modules

1/3 MODULES

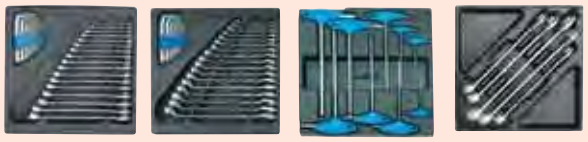
1500 CT1-2 | 1500 CT1-34 | 1500 CT1-6 | 1500 CT1-7 R | 1500 CT1-2133 | 1500 CT1-142 | 1500 CT1-350 | 1500 CT1-711 | 1500 CT1-1993 U-20 | 1500 CT1-19 | 1500 CT1-D 19 | 1500 CT1-19 IS | 1500 CT1-ITX 19 LKP | 1500 CT1-1993 T



1500 CT1-IN 19 LKM | 1500 CT1-20 | 1500 CT1-30 | 1500 CT1-ITX 30 | 1500 CT1-VDE 2170 PZ | 1500 CT1-VDE 142 | 1500 CT1-2150 PH | 1500 CT1-2150 PZ | 1500 CT1-2163 BTX | 1500 CT1-K 1900 | 1500 CT1-8000 | 1500 CT1-400 | 1500 CT1-534

2/3 MODULES

## ES-Module



1500 ES-7 | 1500 ES-1 B | 1500 ES-DT 42 | 1500 ES-7-32

2/3 MODULE

## CT-Module

1500 CT2-1 B | 1500 CT2-7 | 1500 CT2-DT 42 | 1500 CT2-7-32

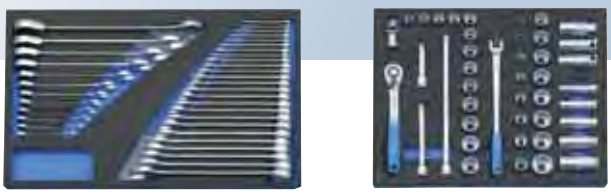
DISTANCE MODULES

## DISTANCE MODULES

1500 ED-30 | 1500 ED-70 | 1500 ED-70 K | 1500 ED-150K

1500 ED-70 XL | 1500 ES-20 BIT | 1500-ED-85

**2005**



109 – 111

# Tool modules

- For keeping order in the GEDORE tool trolleys and mobile workbenches with variable divisions
- Dimensions:
  - 1/3 module = W 157.5 x D 310 mm
  - 2/3 module = W 315.0 x D 310 mm
- For models 1502, 1504, 1506 XL, 2002, 2003, 2004, 2500 please order distance module 1500 ED-70 or 1500 ED-70 K additionally
- For model 1505 please order 1500 ED-70 or 1500 ED-70 K as well as 1500 ED-150 K additionally
- For model 2005 and 1504 XL please order 1500 ED-70 XL additionally

## ES Modules 1500 ES

- From impact-resistant ABS
- Resistant to oil and acids
- Each tool is securely held in its own pocket, prevented from slipping and protected from damage
- Grip recesses facilitate removal of the tools

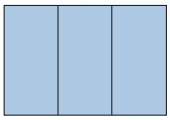
## CT Modules 1500 CT

- 2-colour foam insert provides easy optical check of completeness
- Particularly suited for work in sensitive areas, in which it must be assured that no tools are left behind.
- Underlay blue, overlay black. A visible blue pocket indicates a missing tool
- Each tool is securely held in its own pocket, prevented from slipping and protected from damage
- Grip recesses facilitate removal of the tools
- Clearly visible tool contours simplify replacement into the correct pocket
- Resistant to oil and grease
- Easy to clean with water, soap and a nailbrush

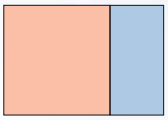
# Possible combinations of the modules

## Tool trolley and workbench models

1578, 1580, 1585, 2000, 2525, 2535, 3010 as well as the small drawers of 2500

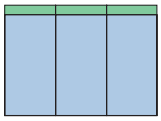


3x 1/3 modules

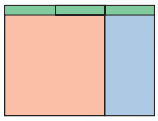


1x 2/3 modules and 1x 1/3 module

3000 TANTO

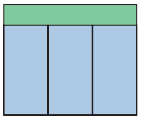


3x 1/3 modules
3x distance module 1500 ED-30

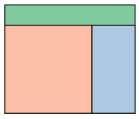


1x 2/3 modules and 1x 1/3 module
3x distance module 1500 ED-30

2004, 1502, 1504, 1506 XL as well as the big drawer of 2500

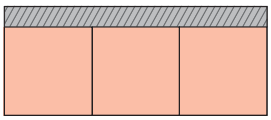


3x 1/3 modules
1x distance module 1500 ED-70 or 1500 ED-70 K

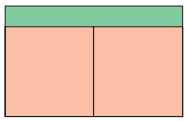


1x 2/3 and 1x 1/3 modules
1x distance module 1500 ED-70 or 1500 ED-70 K

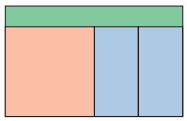
2005, 2430, 1504 XL



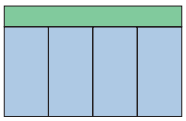
XL drawer
3x 2/3 modules
2x distance modules 1500 ED-70 or 1500 ED-70 K



2x 2/3 modules
1x distance module 1500 ED-70 XL

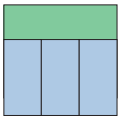


1x 2/3 and 2x 1/3 modules
1x distance module 1500 ED-70 XL

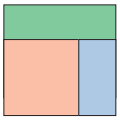


4x 1/3 modules
1x distance module 1500 ED-70 XL

B 1500 L, 1505

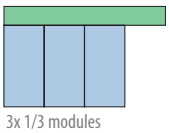


3x 1/3 modules
1x distance module 1500 ED-150 K

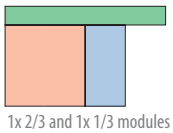


1x 2/3 and 1x 1/3 modules
1x distance module 1500 ED-150 K

2545, 2550, B 1512, B 1513



3x 1/3 modules
1x distance module 1500 ED-85



1x 2/3 and 1x 1/3 modules
1x distance module 1500 ED-85

* When ordering model 2004, 1502 or 1504 2 pieces of 1500 ED-70 K are supplied f.o.c.

# TOOL MODULES

## ES TOOL MODULES

- Impact resistant ABS
- Oil and acid resistant
- For keeping order in the GEDORE tool trolleys and mobile workbenches with variable divisions
- Dimensions:
  1/3 module = W 157.5 x D 310 mm
  2/3 module = W 315.0 x D 310 mm
- For models 1502, 1504, 1506 XL, 2004, 2500 please order distance module 1500 ED-70 or 1500 ED-70 K additionally
- For model 1505 please order 1500 ED-70 or 1500 ED-70 K as well as 1500 ED-150 K additionally
- For model 2005 and 1504 XL please order 1500 ED-70 XL additionally

### 1500 ES-1 B

**COMBINATION SPANNER SET in 2/3 ES tool module**

| Code | No. | |
|---|---|---|
| 6612280 | **1500 ES-1 B**<br>**1 B** 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22<br>**PH 42**-88 (2 2,5 3 4 5 6 8 10) | 2790 |

| Code | No. | |
|---|---|---|
| 5620330 | **1500 E-1B-7 L**<br>ES tool module empty | 250 |

### 1500 ES-2

**RING SPANNER SET in 1/3 ES tool module**

| Code | No. | |
|---|---|---|
| 6621190 | **1500 ES-2**<br>**2** 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 | 1616 |

| Code | No. | |
|---|---|---|
| 5626290 | **1500 E-2 L**<br>ES tool module empty | 250 |

### 1500 ES-2 B

**RING SPANNER SET, SHORT PATTERN in 1/3 ES tool module**

| Code | No. | |
|---|---|---|
| 1731165 | **1500 ES-2 B**<br>**2 B** 6x7 8x9 10x11 12x13 14x15 17x19 | 630 |

| Code | No. | |
|---|---|---|
| 1731173 | **1500 E-2B-400 L**<br>ES tool module empty | 120 |

### 1500 ES-6

**OPEN ENDED SPANNER SET in 1/3 ES tool module**

| Code | No. | |
|---|---|---|
| 6621000 | **1500 ES-6**<br>**6** 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 | 1702 |

| Code | No. | |
|---|---|---|
| 5626100 | **1500 E-6-7R L**<br>ES tool module empty | 250 |

### 1500 ES-7

**COMBINATION SPANNER SET in 2/3 ES tool module**

| Code | No. | |
|---|---|---|
| 6612520 | **1500 ES-7**<br>**7** 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22<br>**PH 42**-88 (2 2,5 3 4 5 6 8 10) | 2232 |

| Code | No. | |
|---|---|---|
| 5620330 | **1500 E-1B-7 L**<br>ES tool module empty | 250 |

### 1500 ES-7-32

**COMBINATION SPANNER SET in 2/3 ES tool module**

| Code | No. | |
|---|---|---|
| 1761145 | **1500 ES-7-32**<br>**7** 23 24 27 30 32 | 2348 |

| Code | No. | |
|---|---|---|
| 1761153 | **1500 E-7-32 L**<br>ES tool module empty | 1000 |

### 1500 ES-7 R

**COMBINATION RATCHET SPANNER SET in 1/3 ES tool module**

| Code | No. | |
|---|---|---|
| 2305429 | **1500 ES-7 R**<br>**7 R** 8 10 12 13 14 15 16 17 18 19 | 1500 |

| Code | No. | |
|---|---|---|
| 5626100 | **1500 E-6-7R L**<br>ES tool module empty | 250 |

### 1500 ES-19

**SOCKET SET 1/2", HEXAGON in 1/3 ES tool module**

| Code | No. | |
|---|---|---|
| 6626580 | **1500 ES-19**<br>**19** 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32<br>**IN 19** 6 7 8 9 10 12 14 | 2956 |

| Code | No. | |
|---|---|---|
| 5621650 | **1500 E-19 L**<br>ES tool module empty | 140 |



Quantities in packs may vary.

## 1500 ES-D 19

**SOCKET SET 1/2", UD PROFILE in 1/3 ES tool module**

| Code | No. | |
|---|---|---|
| 1899694 | **1500 ES-D 19**<br>**D 19** 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32<br>**IN 19** 6 7 8 9 10 12 14 | 2900 |

| Code | No. | |
|---|---|---|
| 5621650 | **1500 E-19 L**<br>ES tool module empty | 140 |

## 1500 ES-19 IS

**SOCKET SET 1/2" in 1/3 ES tool module**

| Code | No. | |
|---|---|---|
| 1733109 | **1500 ES-19 IS**<br>**19** 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32<br>**IS 19** 10x1,6 12x2<br>**IKS 19** 2 3 4<br>**INX 19** 8 10 | 2984 |

| Code | No. | |
|---|---|---|
| 5621650 | **1500 E-19 L**<br>ES tool module empty | 140 |

## 1500 ES-IN 19 LKM

**SCREWDRIVER BIT SOCKET SET 1/2" in 1/3 ES tool module**

| Code | No. | |
|---|---|---|
| 1402234 | **1500 ES-IN 19 LKM**<br>**IN 19** 5 6 7 8 9 10 12 14 17<br>**IN 19 L** 5-90 6-90 8-90 10-140 12-140 14-140 | 2124 |

| Code | No. | |
|---|---|---|
| 1402714 | **1500 E-IN 19 LKM**<br>ES tool module empty | 150 |

## 1500 ES-ITX 19 LKP

**SCREWDRIVER BIT SOCKET SET 1/2" in 1/3 ES tool module**

| Code | No. | |
|---|---|---|
| 1402226 | **1500 ES-ITX 19 LKP**<br>**ITX 19** T20 T25 T27 T30 T40 T45 T50 T55 T60<br>**ITX 19 L** T20-100 T25-100 T27-100 T30-100 T40-100 T45-100 T50-100 T55-100 T60-100<br>**708** | 2156 |

| Code | No. | |
|---|---|---|
| 1402706 | **1500 E-ITX 19 LKP**<br>ES tool module empty | 150 |

## 1500 ES-K 19 L

**SET IMPACT SOCKETS 1/2" in 1/3 ES tool module**

| Code | No. | |
|---|---|---|
| 1640836 | **1500 ES-K 19 L**<br>**K 19 L** 10 13 14 16 17 18 19 21 22 23 24 27 | 3394 |

| Code | No. | |
|---|---|---|
| 1643371 | **1500 E-K 19 L L**<br>ES tool module empty | 120 |

## 1500 ES-20

**SOCKET SET 1/4" in 1/3 ES tool module**

| Code | No. | |
|---|---|---|
| 6626230 | **1500 ES-20**<br>**20** 4 5 5,5 6 7 8 9 10 11 12 13 14<br>**IN 20** 3 4 5 6 8<br>**TX 20** E4 E5 E6 E7 E8 E10<br>**ITX 20** T8 T9 T10 T15 T20 T25 T27 T30 T40<br>**2087 2090**-4<br>**2095 2098 2093** U-10 | 1066 |

| Code | No. | |
|---|---|---|
| 5621490 | **1500 E-20 L**<br>ES tool module empty | 140 |

## 1500 ES/CT-20 BIT

**TOOL MODULE 1/4" with assortment**

- Only suitable for tool trolley 2004, and workbenches 1502, 1504, 1505 and 1506 XL
- For models 2005, 2430 and 1504 XL with distance module 1500 ED-70 S
- Dimensions: W 475 x D 77 x H 40 mm

| Code | No. | |
|---|---|---|
| 1733419 | **1500 ES/CT-20 BIT**<br>**20 L** 4 4,5 5 6 7 8 9 10 12 13<br>**680** 4 5,5 6,5 8<br>**685** 2,5 3 4 5 6<br>**685 X** 5 6 8<br>**687 TX** T6 T7 T8 T9 T10 T15 T20 T25 T27 T30 T40<br>**690** 1 2 3<br>**690 PZD** 1 2 3<br>**649 673** 6,3<br>**699 620**<br>**676 639** | 700 |

## 1500 ES-30

**SOCKET SET 3/8" in 1/3 ES tool module**

| Code | No. | |
|---|---|---|
| 6626070 | **1500 ES-30**<br>**30** 6 7 8 9 10 11 12 13 14 15 16 17 18 19<br>**IN 30** 4 5 6 8 10<br>**3095 3087**<br>**3090**-5 -10 **3093 U-10** | 1830 |

| Code | No. | |
|---|---|---|
| 5621220 | **1500 E-30 L**<br>ES tool module empty | 140 |

## 1500 ES-ITX 30

**SCREWDRIVER BIT SOCKET SET 3/8" in 1/3 ES tool module**

| Code | No. | |
|---|---|---|
| 1640860 | **1500 ES-ITX 30**<br>**IN 30 L** 4 5 6 7 8 10<br>**ITX 30** T20 T25 T27 T30 T40 T45 T50<br>**ITX 30 L** T20 T25 T27 T30 T40 T45 T50<br>**TX 30** E5 E6 E7 E8 E10 E11 E12 E14<br>**IS 30** 5,5 6,5 8 10 12<br>**IKS 30** 1 2 3<br>**IKS 30 PZD** 1 2 3 | 2346 |

| Code | No. | |
|---|---|---|
| 1643363 | **1500 E-ITX 30 L**<br>ES tool module empty | 140 |

Quantities in packs may vary.

## 1500 ES-34

**SWIVEL HEAD WRENCH SET in 1/3 ES tool module**

| Code | No. | |
|---|---|---|
| 6605070 | **1500 ES-34**<br>**34** 8x9 10x11 12x13 14x15 16x17 | 1272 |

| Code | No. | |
|---|---|---|
| 5622890 | **1500 E-34 L**<br>ES tool module empty | 150 |

## 1500 ES-145

**PLIERS SET in 1/3 ES tool module**

| Code | No. | |
|---|---|---|
| 6614650 | **1500 ES-145**<br>**142** 10 JC<br>**8250**-180 JC<br>**8132**-160 JC<br>**8316**-160 JC | 1400 |

| Code | No. | |
|---|---|---|
| 5620840 | **1500 E-145 L**<br>ES tool module empty | 140 |

## 1500 ES-400

**SET OF OPEN FLARE NUT SPANNERS in 1/3 ES tool module**

| Code | No. | |
|---|---|---|
| 1731157 | **1500 ES-400**<br>**400** 8x10 10x11 12x14 13x15 17x19 | 824 |

| Code | No. | |
|---|---|---|
| 1731173 | **1500 E-2B-400 L**<br>ES tool module empty | 120 |

## 1500 ES-DT 42

**HEXAGON SOCKET KEY SET in 2/3 ES tool module**

| Code | No. | |
|---|---|---|
| 1543474 | **1500 ES-DT 42**<br>**DT 42** 2 2,5 3 4 5 6 7 8 10 | 1337 |

| Code | No. | |
|---|---|---|
| 1543490 | **1500 E-DT 42 L**<br>ES tool module empty | 270 |

## 1500 ES-VDE 145

**VDE PLIERS SET in 1/3 ES tool module**

1000 V

| Code | No. | |
|---|---|---|
| 1733079 | **1500 ES-VDE 145**<br>**142** 10 C<br>**VDE 8250**-180 H<br>**VDE 8132**-160 H<br>**VDE 8314**-160 H | 1320 |

| Code | No. | |
|---|---|---|
| 5620840 | **1500 E-145 L**<br>ES tool module empty | 140 |

## 1500 ES-534

**SET COMBINATION SWIVEL HEAD WRENCHES in 1/3 ES tool module**

| Code | No. | |
|---|---|---|
| 1813196 | **1500 ES-534**<br>**534** 10 11 13 14 15 17 19<br>**26 RS** 1 2 | 1614 |

| Code | No. | |
|---|---|---|
| 1813226 | **1500 E-534 L**<br>ES tool module empty | 1400 |

## 1500 ES-137

**GRIP WRENCH SET in 1/3 ES tool module**

| Code | No. | |
|---|---|---|
| 2188198 | **1500 ES-137**<br>**137** 7<br>**137** 10<br>**137 KR**-7<br>**138 Y** | 1970 |

| Code | No. | |
|---|---|---|
| 2188139 | **1500 E-137 L**<br>ES tool module empty | 140 |

## 1500 ES-350

**CHISEL SET in 1/3 ES tool module**

| Code | No. | |
|---|---|---|
| 6613760 | **1500 ES-350**<br>**97**-250<br>**98**-125<br>**99** 12-5<br>**100**-12<br>**119**-1,5 3 4<br>**600 H**-300 | 1818 |

| Code | No. | |
|---|---|---|
| 5620680 | **1500 E-350 L**<br>ES tool module empty | 140 |

## 1500 ES-711

**PRECISION MECHANICS in 1/3 ES tool module**

| Code | No. | |
|---|---|---|
| 1402218 | **1500 ES-711**<br>**140**<br>**4534**-5<br>**708**<br>**711**<br>**720**<br>**745** | 972 |

| Code | No. | |
|---|---|---|
| 1402692 | **1500 E-711 L**<br>ES tool module empty | 150 |



Quantities in packs may vary.

## 1500 ES-K 1900

**IMPACT DRIVER SET**
**in 1/3 ES tool module**

| Code | No. | |
|---|---|---|
| 1402242 | **1500 ES-K 1900**<br>**K 19** 10 13 14 17 19<br>**880** 7 8 9 12<br>**885** 5 6 8 10<br>**890** 1 2 3 4<br>**KB 819**<br>**K 1900** | 1900 |

| Code | No. | |
|---|---|---|
| 1402722 | **1500 E-K 1900 L**<br>ES tool module empty | 150 |

## 1500 ES-1993 U-20

**ACCESSORIES FOR SOCKET WRENCHES 1/2"**
**in 1/3 ES tool module**

| Code | No. | |
|---|---|---|
| 1550756 | **1500 ES-1993 U-20**<br>**1993** U-20<br>**1987**<br>**1995**<br>**1990**-5 -10 | 1191 |

| Code | No. | |
|---|---|---|
| 5621810 | **1500 E-1993 L**<br>ES tool module empty | 140 |

## 1500 ES-1993 T

**ACCESSORIES FOR SOCKET WRENCHES 1/2"**
**in 1/3 ES tool module**

| Code | No. | |
|---|---|---|
| 6626740 | **1500 ES-1993 T**<br>**1993** U-10 T<br>**1987**<br>**1995**<br>**1990**-5 -10 | 1984 |

| Code | No. | |
|---|---|---|
| 5621810 | **1500 E-1993 L**<br>ES tool module empty | 140 |

## 1500 ES-2133

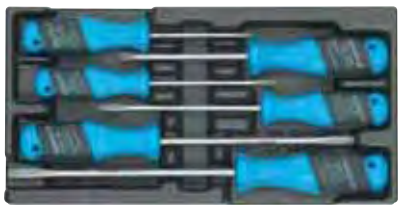
**SOCKET WRENCH SET**
**in 1/3 ES tool module**

| Code | No. | |
|---|---|---|
| 1751239 | **1500 ES-2133**<br>**2133** 5,5 6 7 8 9 10 | 1038 |

| Code | No. | |
|---|---|---|
| 1523767 | **1500 E-2150 L**<br>ES tool module empty | 140 |

## 1500 ES-2150 PH

**SCREWDIVER SET**
**in 1/3 ES tool module**



| Code | No. | |
|---|---|---|
| 1523708 | **1500 ES-2150 PH**<br>**2150** 4 5,5 6,5 8<br>**2160 PH** 1 2 | 820 |

| Code | No. | |
|---|---|---|
| 1523767 | **1500 E-2150 L**<br>ES tool module empty | 140 |

## 1500 ES-2150 PZ

**SCREWDRIVER SET**
**in 1/3 ES tool module**

| Code | No. | |
|---|---|---|
| 1523694 | **1500 ES-2150 PZ**<br>**2150** 4 5,5 6,5 8<br>**2160 PZ** 1 2 | 846 |

| Code | No. | |
|---|---|---|
| 1523767 | **1500 E-2150 L**<br>ES tool module empty | 140 |

## 1500 ES-2163 BTX

**SCREWDRIVER SET**
**in 1/3 ES tool module**

| Code | No. | |
|---|---|---|
| 1582666 | **1500 ES-2163 BTX**<br>**2163 BTX** T8 T10 T15<br>T20 T25 T30 | 638 |

| Code | No. | |
|---|---|---|
| 5621060 | **1500 E-150 L**<br>ES tool module empty | 140 |

## 1500 ES-2163 TXB

**SCREWDRIVER SET**
**in 1/3 ES tool module**

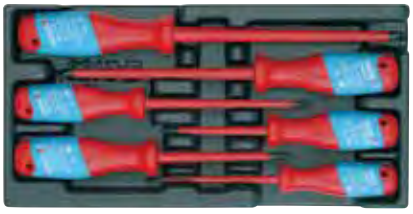
| Code | No. | |
|---|---|---|
| 1616625 | **1500 ES-2163 TXB**<br>**2163 TXB** T10 T15 T20<br>T25 T30 T40 | 724 |

| Code | No. | |
|---|---|---|
| 1523767 | **1500 E-2150 L**<br>ES tool module empty | 140 |

## 1500 ES-VDE 2170 PZ

**VDE SCREWDRIVER SET**
**in 1/3 ES tool module**

1000 V



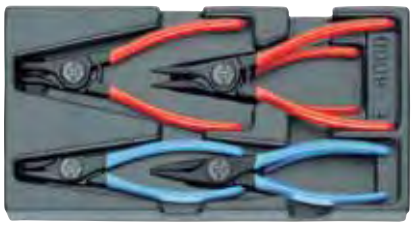
| Code | No. | |
|---|---|---|
| 1733095 | **1500 ES-VDE 2170 PZ**<br>**VDE 2170** 4 5,5 6,5 8<br>**VDE 2160 PZ** 1 2 | 846 |

| Code | No. | |
|---|---|---|
| 1523767 | **1500 E-2150 L**<br>ES tool module empty | 140 |

Quantities in packs may vary.

## 1500 ES-8000

### CIRCLIP PLIERS in 1/3 ES tool module



| Code | No. | |
|---|---|---|
| 1402196 | **1500 ES-8000**<br>**8000 A** 1 **A** 2 **A** 21<br>**8000 J** 1 **J** 2 **J** 21 | 1136 |

| Code | No. | |
|---|---|---|
| 1446479 | **1500 E-8000 L**<br>ES tool module empty | 150 |

## 1500 ES-1.07

### PULLER SET in 1/3 ES tool module

- **Puller set:** 1 cross-beam each 2- and 3-arm pattern (clamping reach 90 mm), 1 spindle, and 3 slim quick-release pulling legs (clamping depth 100 mm)

| Code | No. | |
|---|---|---|
| 1933213 | **1500 ES-1.07**<br>1x 106/103<br>1x 107/103<br>1x 1.1406140<br>3x 106/S100-E | 1980 |

| Code | No. | |
|---|---|---|
| 1933248 | **1500 E-1.07 L**<br>ES tool module empty | 200 |

## 1500 E-N L

### TOOL MODULE EMPTY

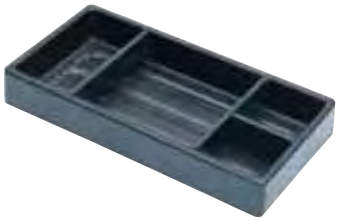
- Impact resistant ABS, black grained
- Dimensions: W 157.5 x D 310 mm (1/3 module)

| Code | No. | W | D | H | | |
|---|---|---|---|---|---|---|
| 5622540 | **1500 E-N L** | 157.5 | 310 | 42 | 250 | 1 |

## 1500 E-S L

### TOOL MODULE EMPTY

- With compartments for small parts
- Impact resistant ABS, black grained
- Dimensions: W 157.5 x D 310 mm (1/3 module)



| Code | No. | W | D | H | | |
|---|---|---|---|---|---|---|
| 1879227 | **1500 E-S L** | 157.5 | 310 | 42 | 150 | 1 |

## 1500 ED-30

### DISTANCE MODULE EMPTY

- For fixing modules 1500 ES in drawer sizes W 480 x D 350 mm of tool trolleys 3000 TANTO
- Impact resistant ABS, black grained
- Dimensions: W 157 x D 30 x H 42 mm

| Code | No. | W | D | H | | |
|---|---|---|---|---|---|---|
| 5626370 | **1500 ED-30** | 157 | 30 | 42 | 30 | 1 |

## 1500 ED-70

### DISTANCE MODULE WITH SMALL BOXES

- For fixing modules 1500 ES in drawer sizes W 480 x L 400 mm of tool trolleys 2004, 2500 and workbenches 1502, 1504, 1505 and 1506 XL
- Module in sheet steel containing four practical transparent plastic boxes for small parts, lid easily removable, execution L without boxes
- Dimensions: W 475 x D 77 x H 40 mm

| Code | No. | W | D | H | | |
|---|---|---|---|---|---|---|
| 6627120 | **1500 ED-70** | 475 | 77 | 40 | 900 | 1 |
| 5627930 | **1500 ED-70 L** | 475 | 77 | 40 | 750 | 1 |

## 1500 ED-70 K

### DISTANCE MODULE EMPTY

- For fixing modules 1500 ES in drawers with depth 400 mm of tool trolleys 2004, 2500 and workbenches 1502, 1504, 1505 and 1506 XL
- Impact resistant ABS, black grained
- Dimensions: W 475 x D 77 x H 40 mm

| Code | No. | W | D | H | | |
|---|---|---|---|---|---|---|
| 1618687 | **1500 ED-70 K** | 475 | 77 | 40 | 120 | 1 |

## 1500 ED-70 S

### DISTANCE MODULE 1/3 EMPTY

- For tool trolley 2005, workbench 1504 XL and tool chest 2430, suitable as distance piece for module 1/3
- Module in sheet steel
- Dimensions: W 152 x D 77 x H 40 mm

| Code | No. | W | D | H | | |
|---|---|---|---|---|---|---|
| 1851462 | **1500 ED-70 S** | 152 | 77 | 40 | 150 | 1 |

## 1500 ED-70 XL

### DISTANCE MODULE EMPTY

- Suitable to take torque wrenches and other long hand tools or small pieces
- Only appropriate to tool trolley 2005 as well as workbench 1504 XL and tool chest 2430
- Module in sheet steel
- Dimensions: W 625 x D 77 x H 40 mm

| Code | No. | W | D | H | | |
|---|---|---|---|---|---|---|
| 1803069 | **1500 ED-70 XL** | 625 | 77 | 40 | 854 | 1 |

## 1500 ED-85

### DISTANCE MODULE EMPTY

- Only appropriate to tool trolley 2545 and tool chest 2546
- Module in sheet steel
- Dimensions: W 538 x D 85 x H 40 mm

| Code | No. | W | D | H | | |
|---|---|---|---|---|---|---|
| 1972588 | **1500 ED-85** | 538 | 85 | 40 | 845 | 1 |

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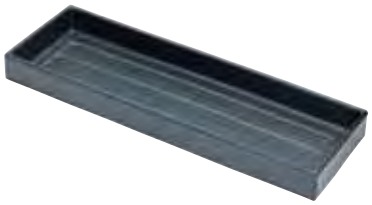
## 1500 ED-150 K

### DISTANCE MODULE EMPTY

- Suitable to take torque wrenches and other long hand tools or small pieces
- Impact resistant ABS, black grained
- Dimensions: W 480 x D 150 x H 42 mm



| Code | No. | W | D | H | | |
|---|---|---|---|---|---|---|
| 1879243 | **1500 ED-150 K** | 480 | 150 | 42 | 150 | 1 |



Quantities in packs may vary.

# CT TOOL MODULES

## 1500 CT2-1 B

**COMBINATION SPANNER SET in 2/3 CT tool module**

| Code | No. | |
|---|---|---|
| 2308819 | **1500 CT2-1 B**<br>**1 B** 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22<br>**PH 42**-88 (2 2,5 3 4 5 6 8 10) | 2385 |

| Code | No. | |
|---|---|---|
| 2322277 | **EI-1500 CT2-1B L**<br>CT tool module empty | 70 |

## 1500 CT1-2

**RING SPANNER SET in 1/3 CT tool module**

| Code | No. | |
|---|---|---|
| 2308827 | **1500 CT1-2**<br>**2** 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 | 1360 |

| Code | No. | |
|---|---|---|
| 2322285 | **EI-1500 CT1-2 L**<br>CT tool module empty | 50 |

## 1500 CT1-2 B

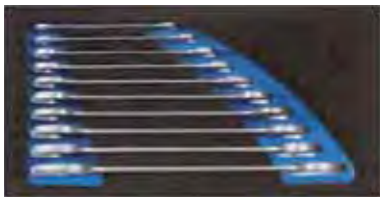
**RING SPANNER SET, SHORT PATTERN in 1/3 CT tool module**

| Code | No. | |
|---|---|---|
| 2308843 | **1500 CT1-2 B**<br>**2 B** 6x7 8x9 10x11 12x13 14x15 17x19 | 376 |

| Code | No. | |
|---|---|---|
| 2322293 | **EI-1500 CT1-2B L**<br>CT tool module empty | 50 |

## 1500 CT1-6

**OPEN ENDED SPANNER SET in 1/3 CT tool module**



| Code | No. | |
|---|---|---|
| 2308851 | **1500 CT1-6**<br>**6** 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 | 1440 |

| Code | No. | |
|---|---|---|
| 2322307 | **EI-1500 CT1-6 L**<br>CT tool module empty | 50 |

## 1500 CT2-7

**COMBINATION SPANNER SET in 2/3 CT tool module**

| Code | No. | |
|---|---|---|
| 2308878 | **1500 CT2-7**<br>**7** 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22<br>**PH 42**-88 (2 2,5 3 4 5 6 8 10) | 1750 |

| Code | No. | |
|---|---|---|
| 2324164 | **EI-1500 CT2-7 L**<br>CT tool module empty | 70 |

## 1500 CT2-7-32

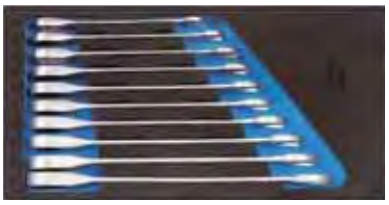
**COMBINATION SPANNER SET in 2/3 CT tool module**

| Code | No. | |
|---|---|---|
| 2308886 | **1500 CT2-7-32**<br>**7** 23 24 27 30 32 | 1865 |

| Code | No. | |
|---|---|---|
| 2324172 | **EI-1500 CT2-7-32 L**<br>CT tool module empty | 70 |

## 1500 CT1-7 R

**COMBINATION RATCHET SPANNER SET in 1/3 CT tool module**



| Code | No. | |
|---|---|---|
| 2308894 | **1500 CT1-7 R**<br>**7 R** 8 10 12 13 14 15 16 17 18 19 | 1240 |

| Code | No. | |
|---|---|---|
| 2322315 | **EI-1500 CT1-7R-UR L**<br>CT tool module empty | 50 |

## 1500 CT1-7 RA

**COMBINATION RATCHET SPANNER SET in 1/3 CT tool module**

| Code | No. | |
|---|---|---|
| 2327686 | **1500 CT1-7 RA**<br>**7 R** 8 10 12 13 14 15 16 17 18 19<br>**7 RA**-12,5 -10 -6,3<br>**618** | 1270 |

| Code | No. | |
|---|---|---|
| 2327708 | **EI-1500 CT1-7RA-URA L**<br>CT tool module empty | 50 |

## 1500 CT1-7 URA

**COMBINATION RATCHET SPANNER SET in 1/3 CT tool module**

| Code | No. | |
|---|---|---|
| 2327678 | **1500 CT1-7 URA**<br>**7 UR** 8 10 12 13 14 15 16 17 18 19<br>**7 RA**-12,5 -10 -6,3<br>**618** | 1280 |

| Code | No. | |
|---|---|---|
| 2327708 | **EI-1500 CT1-7RA-URA L**<br>CT tool module empty | 50 |

Quantities in packs may vary.

## 1500 CT1-19

**SOCKET SET 1/2", HEXAGON in 1/3 CT tool module**

| Code | No. | |
|---|---|---|
| 2308908 | **1500 CT1-19**<br>**19** 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32<br>**IN 19** 6 7 8 9 10 12 14 | 2790 |

| Code | No. | |
|---|---|---|
| 2322323 | **EI-1500 CT1-19 L**<br>CT tool module empty | 47 |

## 1500 CT1-D 19

**SOCKET SET 1/2", UD PROFILE in 1/3 CT tool module**

| Code | No. | |
|---|---|---|
| 2308916 | **1500 CT1-D 19**<br>**D 19** 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32<br>**IN 19** 6 7 8 9 10 12 14 | 2680 |

| Code | No. | |
|---|---|---|
| 2322323 | **EI-1500 CT1-19 L**<br>CT tool module empty | 47 |

## 1500 CT1-19 IS

**SOCKET SET 1/2" in 1/3 CT tool module**

| Code | No. | |
|---|---|---|
| 2308924 | **1500 CT1-19 IS**<br>**19** 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32<br>**IS 19** 10x1,6 12x2<br>**IKS 19** 2 3 4<br>**INX 19** 8 10 | 2765 |

| Code | No. | |
|---|---|---|
| 2322331 | **EI-1500 CT1-19IS L**<br>CT tool module empty | 50 |

## 1500 CT1-IN 19 LKM

**SCREWDRIVER BIT SOCKET SET 1/2" in 1/3 CT tool module**

| Code | No. | |
|---|---|---|
| 2308932 | **1500 CT1-IN 19 LKM**<br>**IN 19** 5 6 7 8 9 10 12 14 17<br>**IN 19 L** 5-90 6-90 8-90 10-140 12-140 14-140 | 1900 |

| Code | No. | |
|---|---|---|
| 2322358 | **EI-1500 CT1-IN19LKM L**<br>CT tool module empty | 50 |

## 1500 CT1-ITX 19 LKP

**SCREWDRIVER BIT SOCKET SET 1/2" in 1/3 CT tool module**

| Code | No. | |
|---|---|---|
| 2308940 | **1500 CT1-ITX 19 LKP**<br>**ITX 19** T20 T25 T27 T30 T40 T45 T50 T55 T60<br>**ITX 19 L** T20-100 T25-100 T27-100 T30-100 T40-100 T45-100 T50-100 T55-100 T60-100<br>**708** | 1915 |

| Code | No. | |
|---|---|---|
| 2322366 | **EI-1500 CT1-ITX19LKP L**<br>CT tool module empty | 50 |

## 1500 CT1-20

**SOCKET SET 1/4" in 1/3 CT tool module**

| Code | No. | |
|---|---|---|
| 2308967 | **1500 CT1-20**<br>**20** 4 5 5,5 6 7 8 9 10 11 12 13 14<br>**IN 20** 3 4 5 6 8<br>**TX 20** E4 E5 E6 E7 E8 E10<br>**ITX 20** T8 T9 T10 T15 T20 T25 T27 T30 T40<br>**2087 2090**-4<br>**2095 2098 2093** U-10 | 845 |

| Code | No. | |
|---|---|---|
| 2322374 | **EI-1500 CT1-20 L**<br>CT tool module empty | 50 |

## 1500 ES/CT-20 BIT

**TOOL MODULE 1/4" with assortment**

- Only suitable for tool trolley 2004, and workbenches 1502, 1504, 1505 and 1506 XL
- For models 2005, 2430 and 1504 XL with distance module 1500 ED-70 S
- Dimensions: W 475 x D 77 x H 40 mm

| Code | No. | |
|---|---|---|
| 1733419 | **1500 ES/CT-20 BIT**<br>**20 L** 4 4,5 5 6 7 8 9 10 12 13<br>**680** 4 5,5 6,5 8<br>**685** 2,5 3 4 5 6<br>**685 X** 5 6 8<br>**687 TX** T6 T7 T8 T9 T10 T15 T20 T25 T27 T30 T40<br>**690** 1 2 3<br>**690 PZD** 1 2 3<br>**649 673** 6,3<br>**699 620 676 639** | 700 |

## 1500 CT1-30

**SOCKET SET 3/8" in 1/3 CT tool module**

| Code | No. | |
|---|---|---|
| 2308975 | **1500 CT1-30**<br>**30** 6 7 8 9 10 11 12 13 14 15 16 17 18 19<br>**IN 30** 4 5 6 8 10<br>**3095 3087**<br>**3090**-5 -10 **3093 U-10** | 1670 |

| Code | No. | |
|---|---|---|
| 2322382 | **EI-1500 CT1-30 L**<br>CT tool module empty | 50 |

## 1500 CT1-ITX 30

**SCREWDRIVER BIT SOCKET SET 3/8" in 1/3 CT tool module**

| Code | No. | |
|---|---|---|
| 2308983 | **1500 CT1-ITX 30**<br>**IN 30 L** 4 5 6 7 8 10<br>**ITX 30** T20 T25 T27 T30 T40 T45 T50<br>**ITX 30 L** T20 T25 T27 T30 T40 T45 T50<br>**TX 30** E5 E6 E7 E8 E10 E11 E12 E14<br>**IS 30** 5,5 6,5 8 10 12<br>**IKS 30** 1 2 3<br>**IKS 30 PZD** 1 2 3 | 2175 |

| Code | No. | |
|---|---|---|
| 2322390 | **EI-1500 CT1-ITX30 L**<br>CT tool module empty | 50 |



Quantities in packs may vary.

## 1500 CT1-34

**SWIVEL HEAD WRENCH SET**
**in 1/3 CT tool module**

| Code | No. | |
|---|---|---|
| 2308991 | **1500 CT1-34**<br>**34** 8x9 10x11 12x13 14x15 16x17 | 1035 |

| Code | No. | |
|---|---|---|
| 2322404 | **EI-1500 CT1-34 L**<br>CT tool module empty | 50 |

## 1500 CT2-DT 42

**HEXAGON SOCKET KEY SET**
**in 2/3 CT tool module**

| Code | No. | |
|---|---|---|
| 2309009 | **1500 CT2-DT 42**<br>**DT 42** 2 2,5 3 4 5 6 7 8 10 | 900 |

| Code | No. | |
|---|---|---|
| 2322412 | **EI-1500 CT2-DT42 L**<br>CT tool module empty | 70 |

## 1500 CT1-142

**PLIERS SET**
**in 1/3 CT tool module**

| Code | No. | |
|---|---|---|
| 2309025 | **1500 CT1-142**<br>**142** 10 JC<br>**8250**-180 JC<br>**8132**-160 JC<br>**8316**-160 JC | 1220 |

| Code | No. | |
|---|---|---|
| 2322420 | **EI-1500 CT1-142 L**<br>CT tool module empty | 50 |

## 1500 CT1-VDE 142

**VDE PLIERS SET**
**in 1/3 CT tool module**

1000 V

| Code | No. | |
|---|---|---|
| 2309033 | **1500 CT1-VDE 142**<br>**142** 10 C<br>**VDE 8250**-180 H<br>**VDE 8132**-160 H<br>**VDE 8314**-160 H | 1160 |

| Code | No. | |
|---|---|---|
| 2322439 | **EI-1500 CT1-VDE142 L**<br>CT tool module empty | 50 |

## 1500 CT1-350

**CHISEL SET**
**in 1/3 CT tool module**

| Code | No. | |
|---|---|---|
| 2309041 | **1500 CT1-350**<br>**97**-250<br>**98**-125<br>**99** 12-5<br>**100**-12<br>**119**-1,5 3 4<br>**600 H**-300 | 1425 |

| Code | No. | |
|---|---|---|
| 2322447 | **EI-1500 CT1-350 L**<br>CT tool module empty | 50 |

## 1500 CT1-400

**SET OF OPEN FLARE NUT SPANNERS**
**in 1/3 CT tool module**

| Code | No. | |
|---|---|---|
| 2309068 | **1500 CT1-400**<br>**400** 8x10 10x11 12x14 13x15 17x19 | 565 |

| Code | No. | |
|---|---|---|
| 2324210 | **EI-1500 CT1-400 L**<br>CT tool module empty | 50 |

## 1500 CT1-534

**SET COMBINATION SWIVEL HEAD WRENCHES**
**in 1/3 CT tool module**

| Code | No. | |
|---|---|---|
| 2309076 | **1500 CT1-534**<br>**534** 10 11 13 14 15 17 19<br>**26 RS** 1 2 | 1405 |

| Code | No. | |
|---|---|---|
| 2322455 | **EI-1500 CT1-534 L**<br>CT tool module empty | 50 |

## 1500 CT1-711

**PRECISION MECHANICS**
**in 1/3 CT tool module**

| Code | No. | |
|---|---|---|
| 2309084 | **1500 CT1-711**<br>**140**<br>**4534**-5<br>**708**<br>**711**<br>**720**<br>**745** | 930 |

| Code | No. | |
|---|---|---|
| 2322463 | **EI-1500 CT1-711 L**<br>CT tool module empty | 50 |

## 1500 CT1-K 1900

**IMPACT DRIVER SET**
**in 1/3 CT tool module**

| Code | No. | |
|---|---|---|
| 2309092 | **1500 CT1-K 1900**<br>**K 19** 10 13 14 17 19<br>**K 19 LS** 17 19 21 22<br>**880** 7 8 9 12<br>**885** 5 6 8 10<br>**890** 1 2 3 4<br>**KB 819**<br>**K 1900** | 2645 |

| Code | No. | |
|---|---|---|
| 2322471 | **EI-1500 CT1-K1900 L**<br>CT tool module empty | 50 |

Quantities in packs may vary.

## 1500 CT1-1993 U-20

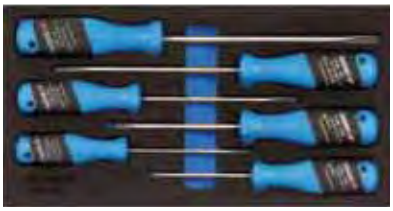
**ACCESSORIES FOR SOCKET WRENCHES 1/2"**
**in 1/3 CT tool module**

| Code | No. | |
|---|---|---|
| 2309114 | **1500 CT1-1993 U-20**<br>**1993** U-20<br>**1987**<br>**1995**<br>**1990**-5 -10 | 1700 |

| Code | No. | |
|---|---|---|
| 2322498 | **EI-1500 CT1-1993 L**<br>CT tool module empty | 50 |

## 1500 CT1-2150 PH

**SCREWDIVER SET**
**in 1/3 CT tool module**

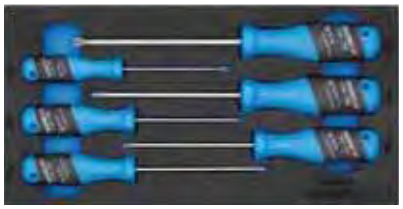


| Code | No. | |
|---|---|---|
| 2309130 | **1500 CT1-2150 PH**<br>**2150** 4 5,5 6,5 8<br>**2160 PH** 1 2 | 630 |

| Code | No. | |
|---|---|---|
| 2322528 | **EI-1500 CT1-2150 L**<br>CT tool module empty | 50 |

## 1500 CT1-2163 TXB

**SCREWDIVER SET**
**in 1/3 CT tool module**



| Code | No. | |
|---|---|---|
| 2309165 | **1500 CT1-2163 TXB**<br>**2163 TXB** T10 T15 T20<br>T25 T30 T40 | 500 |

| Code | No. | |
|---|---|---|
| 2324237 | **EI-1500 CT1-2163TXB L**<br>CT tool module empty | 50 |

## 1500 CT1-1993 T

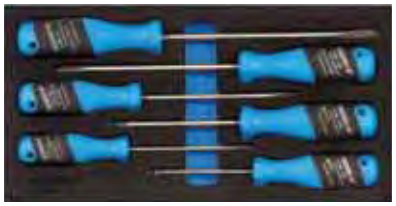
**ACCESSORIES FOR SOCKET WRENCHES 1/2"**
**in 1/3 CT tool module**

| Code | No. | |
|---|---|---|
| 2309106 | **1500 CT1-1993 T**<br>**1993** U-10 T<br>**1987**<br>**1995**<br>**1990**-5 -10 | 1765 |

| Code | No. | |
|---|---|---|
| 2322498 | **EI-1500 CT1-1993 L**<br>CT tool module empty | 50 |

## 1500 CT1-2150 PZ

**SCREWDIVER SET**
**in 1/3 CT tool module**



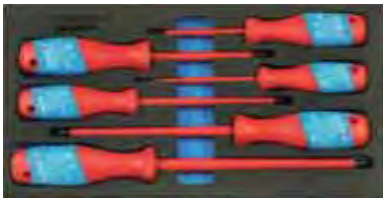
| Code | No. | |
|---|---|---|
| 2309149 | **1500 CT1-2150 PZ**<br>**2150** 4 5,5 6,5 8<br>**2160 PZ** 1 2 | 630 |

| Code | No. | |
|---|---|---|
| 2322528 | **EI-1500 CT1-2150 L**<br>CT tool module empty | 50 |

## 1500 CT1-VDE 2170 PZ

**VDE SCREWDRIVER SET**
**in 1/3 CT tool module**

1000 V

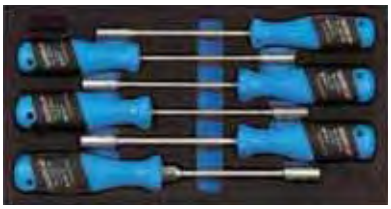


| Code | No. | |
|---|---|---|
| 2309173 | **1500 CT1-VDE 2170 PZ**<br>**VDE 2170** 4 5,5 6,5 8<br>**VDE 2160 PZ** 1 2 | 625 |

| Code | No. | |
|---|---|---|
| 2322552 | **EI-1500 CT1-VDE2170PZ L**<br>CT tool module empty | 50 |

## 1500 CT1-2133

**SOCKET WRENCH SET**
**in 1/3 CT tool module**

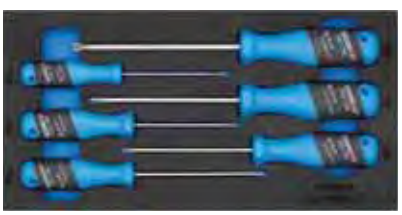


| Code | No. | |
|---|---|---|
| 2309122 | **1500 CT1-2133**<br>**2133** 5,5 6 7 8 9 10 | 820 |

| Code | No. | |
|---|---|---|
| 2322501 | **EI-1500 CT1-2133 L**<br>CT tool module empty | 50 |

## 1500 CT1-2163 BTX

**SCREWDIVER SET**
**in 1/3 CT tool module**

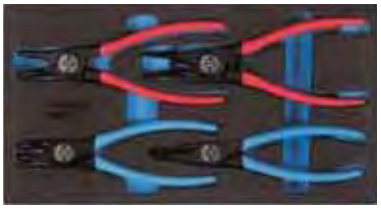


| Code | No. | |
|---|---|---|
| 2309157 | **1500 CT1-2163 BTX**<br>**2163 BTX** T8 T10 T15<br>T20 T25 T30 | 400 |

| Code | No. | |
|---|---|---|
| 2322544 | **EI-1500 CT1-2163BTX L**<br>CT tool module empty | 50 |

## 1500 CT1-8000

**CIRCLIP PLIERS**
**in 1/3 CT tool module**



| Code | No. | |
|---|---|---|
| 2309181 | **1500 CT1-8000**<br>**8000 A** 1 **A** 2 **A** 21<br>**8000 J** 1 **J** 2 **J** 21 | 1010 |

| Code | No. | |
|---|---|---|
| 2322560 | **EI-1500 CT1-8000 L**<br>CT tool module empty | 50 |



Quantities in packs may vary.

# CT TOOL MODULES 2005 CT

## CT Modules 2005 CT for volume drawers

- In 2 sizes:
  CT4 = 1/1 drawer 2005 (633 x 390 x 35 mm)
  CT2 = 1/2 drawer 2005 (316.5 x 390 x 35 mm)
- CT4 suitable for 2005, 1504 XL, 2430
- CT2 suitable for 1506 XL, 1504 and 2004

## BASIC MODULES

### 2005 CT4-U-20

**SOCKET SET 1/4"-3/8"-1/2" in 4/4 CT tool module**

- Dimensions: 633 x 390 x 35 mm

| Code | No. | |
|---|---|---|
| 2016257 | **2005 CT4-U-20**<br>**20** 5,5 6 7 8 9 10 11 12 13 14<br>**2093 U**-20<br>**2093 U**-3 T<br>**2090**-4 -6<br>**2095**<br>**D 30** 8 9 10 11 12 13 14 15 16 17 18 19 21 22<br>**IN 30 L** 4 5 6 7 8 10<br>**ITX 30 L** T20 T25 T27 T30 T40 T45 T50<br>**TX 30** E5 E6 E7 E8 E10 E11 E12 E14<br>**IKS 30** 1 2 3<br>**IKS 30 PZD** 1 2 3<br>**IS 30** 5,5 6,5 8 10 12<br>**52 53 56**<br>**3093 U**-20<br>**3090 A**-5 -10<br>**3095**<br>**D 19** 10 11 12 13 14 15 16 17 18 19 21 22 23 24 27 30 32<br>**1993** U-20<br>**1990**-5 -10<br>**1930**<br>**1995**<br>**1996** | 7400 |

### 2005 CT2-D 19

**SCREWDRIVER BIT SOCKET SET 1/2" in 2/4 CT tool module**

- Dimensions: 316.5 x 390 x 35 mm

| Code | No. | |
|---|---|---|
| 2016494 | **2005 CT2-D 19**<br>**19** 34 36<br>**D 19** 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 32<br>**1990**-5 -10<br>**1993 U**-20<br>**1995**<br>**1996** | 4400 |

### 2005 CT2-D 30

**SCREWDRIVER BIT SOCKET SET 3/8" in 2/4 CT tool module**

- Dimensions: 316.5 x 390 x 35 mm

| Code | No. | |
|---|---|---|
| 2016486 | **2005 CT2-D 30**<br>**D 30** 10 11 12 13 14 15 16 17 18 19 20 21 22<br>**D 30** 1/4 5/16 3/8 13/32 7/16 1/2 9/16 19/32 5/8 11/16 3/4 13/16 25/32 7/8 15/16 1"<br>**D 30 L** 10 13 17 19 22<br>**52 53 56**<br>**3090**-3 -5 -10<br>**3093 U**-20<br>**3095**<br>**3096** | 3400 |

### 2005 CT2-D 20

**SCREWDRIVER BIT SOCKET SET 1/4" in 2/4 CT tool module**

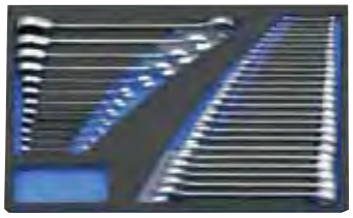
- Dimensions: 316.5 x 390 x 35 mm

| Code | No. | |
|---|---|---|
| 2016478 | **2005 CT2-D 20**<br>**D 20** 4 4,5 5 5,5 6 7 8 9 10 11 12 13<br>**D 20** 3/16 7/32 1/4 9/32 5/16 11/32 13/32 3/8 7/16 1/2 9/16"<br>**20 L** 4 4,5 5 5,5 6 7 8 9 10 11 12 13<br>**2093** U-20<br>**2093 U**-3 T<br>**2093 HR**-94<br>**2090**-2 -4 -6 -12<br>**2095**<br>**2097**<br>**2098** T<br>**620**<br>**639**<br>**680** 4 6,5<br>**685** 3 4 5 6<br>**690** 1 2<br>**690 PZD** 1 2 3<br>**687 TX** T8 T9 T10 T15 T20 T25 T27 T30 T40 | 1600 |

### 2005 CT4-7-7R

**COMBINATION SPANNER SET in 4/4 CT tool module**

- Dimensions: 633 x 390 x 35 mm



| Code | No. | |
|---|---|---|
| 2016451 | **2005 CT4-7-7R**<br>**7** 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30<br>**7 R** 1/4 5/16 3/8 7/16 1/2 9/16 5/8 3/4 7/8 1" 1.1/16 1.1/8" | 1000 |

Quantities in packs may vary.

## 2005 CT4-2-7

**COMBINATION SPANNER SET in 4/4 CT tool module**

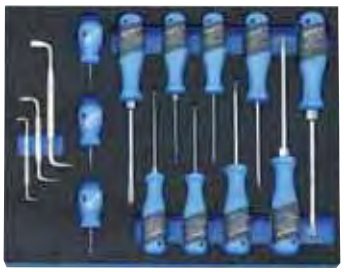
◤ Dimensions: 633 x 390 x 35 mm

| Code | No. | |
|---|---|---|
| 2016265 | **2005 CT4-2-7**<br>**2** 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27<br>**7** 6 7 8 9 10 11 12 13 14 15 16 17 18 19 21 22 24 27<br>**7 R** 10 11 12 13 14 15 16 17 18 19 22 | 5800 |

## 2005 CT2-2160

**SCREWDRIVER SET in 2/4 CT tool module**

◤ Dimensions: 316.5 x 390 x 35 mm



| Code | No. | |
|---|---|---|
| 2016311 | **2005 CT2-2160**<br>**2160 PH** 1 2 3<br>**2160 PZ** 1 2 3<br>**2154** 3,5 5,5 8<br>**2153** 4<br>**2161 PH** 1<br>**2161 PZ** 1<br>**173** 4 8<br>**174** 1 | 1200 |

## 2005 CT2-119

**TOOL SET in 2/4 CT tool module**

◤ Dimensions: 316.5 x 390 x 35 mm

| Code | No. | |
|---|---|---|
| 2016338 | **2005 CT2-119**<br>**95**-200<br>**99** 12-3 12-5 12-6 12-8<br>**100**-12<br>**119**-3 -4 -5 -6 -8 -84 -86 -175<br>**132**-150<br>**133**-150<br>**133 D**-150<br>**702** 20 M<br>**706 708 711**<br>**4612** | 2400 |

## 2005 CT4-2160-119

**TOOL SET in 4/4 CT tool module**

◤ Dimensions: 633 x 390 x 35 mm

| Code | No. | |
|---|---|---|
| 2016435 | **2005 CT4-2160-119**<br>**2160 PH** 1 2 3<br>**2160 PZ** 1 2 3<br>**2154** 3,5 5,5 8<br>**2153** 4<br>**2161 PH** 1<br>**2161 PZ** 1<br>**173** 4 8<br>**174** 1<br>**95**-200<br>**99** 12-3 12-5 12-6 12-8<br>**100**-12<br>**119**-3 -4 -5 -6 -8 -84 -86 -175<br>**132**-150<br>**133**-150<br>**133 D**-150<br>**702** 20 M<br>**706 708 711**<br>**4612** | 3600 |

## 2005 CT4-8000

**TOOL SET in 4/4 CT tool module**

◤ Dimensions: 633 x 390 x 35 mm

| Code | No. | |
|---|---|---|
| 2016303 | **2005 CT4-8000**<br>**600 H**-300 -500<br>**248 ST**-40<br>**142** 10 JC<br>**8132**-160 JC<br>**8316**-160 JC<br>**8250**-180 JC<br>**8000 A** 1 2 21<br>**8000 J** 1 2 21 | 4000 |

## E-2005 CT

**LENGTHWISE DIVIDER without slots**

◤ To fix the modules 2005 CT2

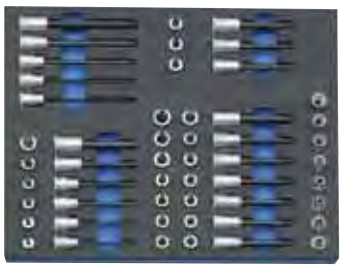
| Code | No. | H |
|---|---|---|
| 2104601 | **E-2005 CT H-40** | 40 |

# SUPPLEMENT MODULES

## 2005 CT2-TX 30

**SOCKET SET 3/8" in 2/4 CT tool module**

◤ Dimensions: 316.5 x 390 x 35 mm



| Code | No. | |
|---|---|---|
| 2016508 | **2005 CT2-TX 30**<br>**IN 30** 4 5 6 7 8 10<br>**IN 30 L** 4-95 5-95 6-95 7-95 8-95 10-95<br>**IN 30 LK** 4 5 6 8 10<br>**ITX 30** T20 T25 T27 T30 T40 T45 T50<br>**ITX 30 B** T20 T25 T27 T30 T40 T45 T50<br>**ITX 30 L** T20 T25 T27 T30 T40 T45 T50<br>**TX 30** E5 E6 E7 E8 E10 E11 E12 E14<br>**INX 30** 5 6 8<br>**INX 30 L** 6 8 10 | 3000 |

## 2005 CT2-D 19L

**SCREWDRIVER BIT SOCKET SET 1/2" in 2/4 CT tool module**

◤ Dimensions: 316.5 x 390 x 35 mm

| Code | No. | |
|---|---|---|
| 2016516 | **2005 CT2-D 19L**<br>**D 19 L** 10 12 13 14 15 16 17 18 19 21 22 24 27 30 32 34<br>**IN 19** 10 12 14 17 19<br>**IN 19 L** 12-140 14-140<br>**IN 19 LK** 10-140 12-140<br>**INX 19** 12 14<br>**INX 19 L** 12-100 14-100<br>**ITX 19** T55 T60<br>**ITX 19 B** T50 T55 T60<br>**ITX 19 L** T55-100 T60-100<br>**TX 19** E16 E18 E20 E24 | 2000 |



Quantities in packs may vary.

## 2005 CT2-TX

**SET SWIVEL HEAD WRENCHES DOUBLE ENDED in 2/4 CT tool module**

◤ Dimensions: 316.5 x 390 x 35 mm

| Code | No. | |
|---|---|---|
| 2016273 | **2005 CT2-TX**<br>**ITX 34** T15xT20 T25xT27 T30xT40 T45xT50 T55xT60<br>**TX 34** E6xE8 E10xE12 E14xE18 E20xE24<br>**IN 34** 3x4 5x6 8x10 12x14 17x19<br>**26 D** 6 8 10 12 | 3400 |

## 2005 CT2-INR

**SCREWDRIVER BIT SOCKET SET 1/2" in 2/4 CT tool module**

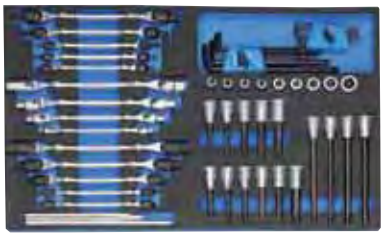
◤ Dimensions: 316.5 x 390 x 35 mm

| Code | No. | |
|---|---|---|
| 2016281 | **2005 CT2-INR**<br>**ITX 19 B** T20 T25 T27 T30 T40 T45 T50 T55 T60<br>**INX 19 L** 6-100 8-100 10-100 12-100 14-100<br>**INR 19 L** M5-100 M6-100 M6-188 M8-100 M8-188 M10-100 M10-188 M12-100 M12-188 M14-100<br>**H 42 KEL**-88 (2 2,5 3 4 5 6 8 10)<br>**H 43 TX**-09 (T7 T8 T9 T10 T15 T20 T25 T30 T40) | 3600 |

## 2005 CT4-TX-INR

**SOCKET SET in 4/4 CT tool module**

◤ Dimensions: 633 x 390 x 35 mm

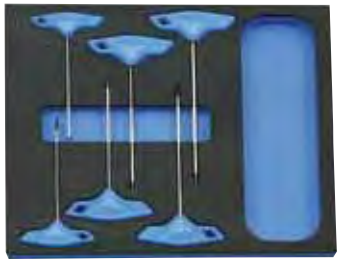


| Code | No. | |
|---|---|---|
| 2016389 | **2005 CT4-TX-INR**<br>**ITX 34** T15xT20 T25xT27 T30xT40 T45xT50 T55xT60<br>**TX 34** E6xE8 E10xE12 E14xE18 E20xE24<br>**IN 34** 3x4 5x6 8x10 12x14 17x19<br>**26 D** 6 8 10 12<br>**ITX 19 B** T20 T25 T27 T30 T40 T45 T50 T55 T60<br>**INX 19 L** 6-100 8-100 10-100 12-100 14-100<br>**INR 19 L** M5-100 M6-100 M6-188 M8-100 M8-188 M10-100 M10-188 M12-100 M12-188 M14-100<br>**H 42 KEL**-88 (2 2,5 3 4 5 6 8 10)<br>**H 43 TX**-09 (T7 T8 T9 T10 T15 T20 T25 T30 T40) | 7000 |

## 2005 CT2-42 TX

**SCREWDRIVER SET in 2/4 CT tool module**

◤ Dimensions: 316.5 x 390 x 35 mm



| Code | No. | |
|---|---|---|
| 2016559 | **2005 CT2-42 TX**<br>**42 TX** T15 T20 T25 T27 T30 T40 | 400 |

## 2005 CT2-33 T

**NUT DRIVER SET in 2/4 CT tool module**

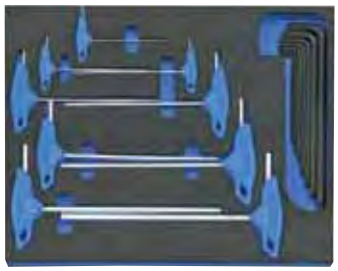
◤ Dimensions: 316.5 x 390 x 35 mm

| Code | No. | |
|---|---|---|
| 2016532 | **2005 CT2-33 T**<br>**33 T** 7 8 9 10 11 12 13 14 | 1200 |

## 2005 CT2-DT 42

**HEXAGON ALLEN KEY SET in 2/4 CT tool module**

◤ Dimensions: 316.5 x 390 x 35 mm

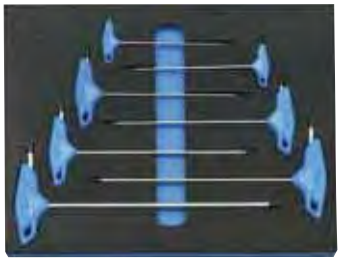


| Code | No. | |
|---|---|---|
| 2016540 | **2005 CT2-DT 42**<br>**DT 42** 2 2,5 3 4 5 6 7 8 10<br>**H 42 KEL**-88 (2 2,5 3 4 5 6 8 10) | 800 |

## 2005 CT2-43 KTX

**HEXAGON ALLEN KEY SET in 2/4 CT tool module**

◤ Dimensions: 316.5 x 390 x 35 mm



| Code | No. | |
|---|---|---|
| 2016567 | **2005 CT2-43 KTX**<br>**DT 43 KTX** T10 T15 T20 T25 T27 T30 T40 | 600 |

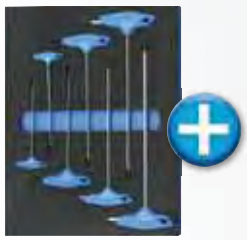
Quantities in packs may vary.

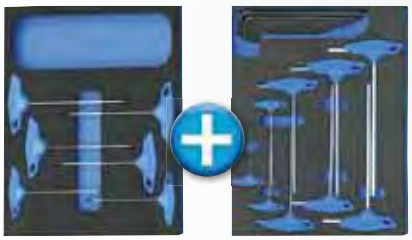
## On request:
## Mobile tool cabinet and tool chest with 365-piece MOTORCYCLE tool set

- Ideal for service, maintenance and repair work
- Developed from everyday workshop routine
- Universal multi-use kit
- Metric and/or imperial tools
- With Check-Tool-system

# 365-PIECES
# 2005-2430 MOT

**2005 CT...**

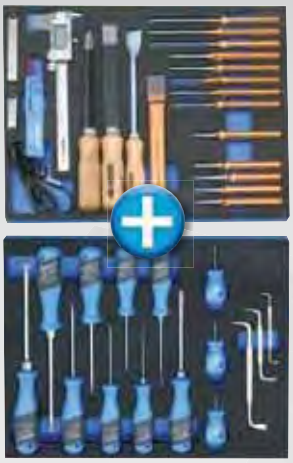


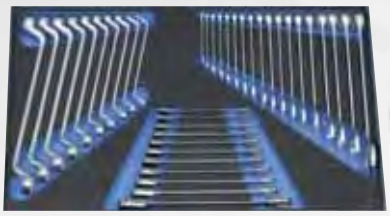


**Mobile tool cabinet with 258-piece CAR tool set**

# 258-PIECES 2005 AUTO

**2005 CT...**





## Check-Tool-System 2005 CT

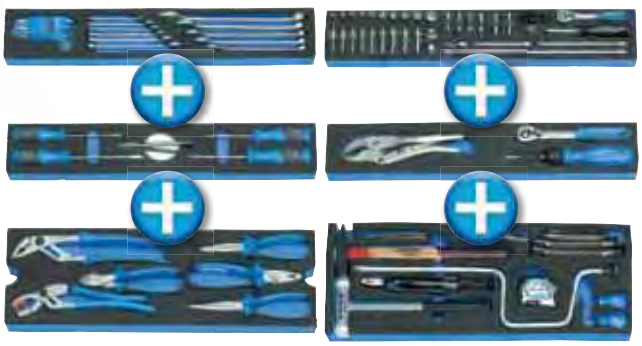
- 2-colour foam insert provides easy optical check of completeness
- Ideally suited for use in sensitive areas, where it is essential to ensure that no tools are left behind
- Underlay blue, overlay black. A visible blue pocket indicates a missing tool
- Each tool is securely held in its own pocket, prevented from slipping and protected from damage
- Grip recesses facilitate removal of the tools
- Clearly visible tool contours simplify replacement into the correct pocket
- Resistant to oil and grease

GEDORE

# 2004-1085 A
# RotorTec

## 2004-1080 GA
## JetTec

## 1335-1081 AA
## JetTec Apron



17
GEDORE
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GEDORE
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GEDORE
4

**Precise and durable + Quality with profile**


SERVICE / FEATURES 118 – 125

RATCHET SPANNERS 126 – 131

Schlüsselknarre® R-Serie

COMBINATION SPANNERS 132 – 135

OPEN ENDED SPANNERS 136 – 143

DOUBLE ENDED RING SPANNERS 144 – 147

SLOGGING SPANNERS 148 – 152

DEEP RING SPANNERS 153 – 155

CROWFOOT SPANNERS 156

SWIVEL HEAD WRENCHES 156 – 157

SOCKET WRENCHES 158 – 164

MULTI FITTING KEYS 165

HOOK SPANNERS 166

USEFUL HELPERS 167

# Spanners

## A well-functioning extended range

- Extremely large selection in standardised and non-standardised, metric (mm), imperial (AF) and Whitworth (W) sizes
- Top-grade industrial quality for the hardest of continuous use
- Available singly or in practical sets or modules
- Customised manufacturing, designs and types on request

## Durable and for high loadings

- For heavy continuous use and safety in everyday work
- High bending strength - GEDORE quality spanners do not fracture or splinter when overloaded, but deform under incorrect use, therefore posing a lower risk of injury to the user
- Comfortable to hold due to ergonomic profiles without sharp edges
- Secure grip even with oily hands
- Non-glare look thanks to matt chrome-plating

## Precision, correct measurements and perfect fit

- The most important requirements for harmless and safe work
- Complete transmission of available torque
- Long life of nut and bolt
- Profiles easy on the bolt heads (UD, jaw, hexagon)
- Minimum production tolerances ensure that spanners fit perfectly on bolts

## Everything safely under control

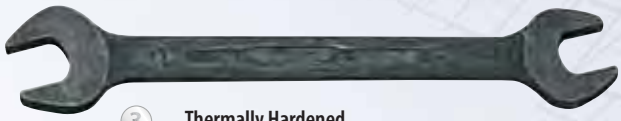
- Use of the very best raw materials, state-of-the-art machinery and environmentally-friendly production processes
- Tools without chrome VI have been a given thing for several years
- Our tool experts guarantee precision-like processing and permanent development
- Unique manufacturing processes and special tool treatment for optimum results
- Stringent quality checks after each production step ensure a constantly high level
- Professional service through to development of special customised tools

# The production of a spanner

**From the tool blank to the final product.**
**Quality comes with existence - Step by Step.**

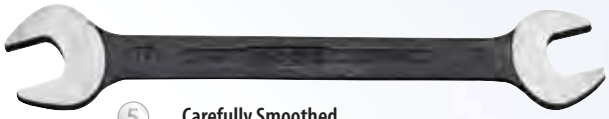
1 **... High-Quality Steel 31CrV3**
Highly-efficient eccentric presses cut the blank for an open-ended spanner from high-quality flat steel.

2 **... Hot Forging Process**
In the pusher furnace, the blank is heated to the exact pre-selected temperature and enters the forge while still red hot. The steel is given its form under the multi-ton blows of a drop hammer.



3 **... Thermally Hardened**
Using a special thermal treatment, achieves maximum hardness - and a guarantee of long service life.

4 **... Precisely Ground**
The jaws of the spanners are given their exact dimensions only after the hardening process. For this purpose, a high-tech grinding robot has been developed especially for this operation.

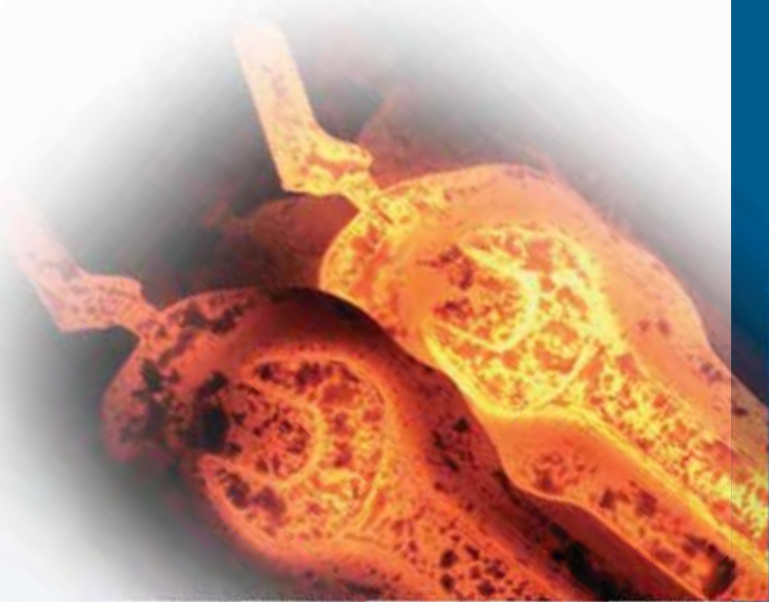


5 **... Carefully Smoothed**
Any corners and edges still remaining are smoothed off by vibratory grinding, until the heads and shaft are absolutely free of burrs. The heads are additionally ground.

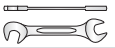
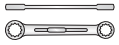
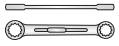
6 **... Extensively Treated**
The extensive electroplating gives the spanners an effective surface protection and a perfect appearance. During this process, an efficient recycling plant ensures that the environment will not be affected.

## Why matt chrome-plated?

- Non-glare look
- Non-slip surface for a firm grip even when hands are dirty
- Double protection against corrosion A nickel layer is applied before chrome-plating. Nickel and chrome: these two layers combine to form optimum protection against corrosion.
- Chrome chips are practically unheard of on matte chrome-plated tools
- The matte chrome-plated GEDORE finish retains its elegant look for decades



# Spanner matrix

| Type / Series | | Special | | mm | "AF | Whitw. | | |
|---|---|---|---|---|---|---|---|---|
| | | | | 3 ⟶ 80 mm | 1/16" AF ⟶ 3.1/4"AF | 1/8" W ⟶ 3/4"W | | |
| No. 1B | UNIDRIVE | | | 5 - 80 mm | 1/4" AF - 3.1/4"AF | 1/8"W - 3/4"W | ● | ● |
| No. 7 | UNIDRIVE | | | 3 - 36 mm | 3/16" AF - 1"AF | – | ● | ● |
| No. 7XL | UNIDRIVE | | | 7 - 46 mm | – | – | ● | ● |
| No. 7R | UNIDRIVE | Schlüsselknarre R-Serie | | 8 - 36 mm | 1/4"AF - 1.1/4"AF | – | ● | ● |
| No. 7UR | UNIDRIVE | Schlüsselknarre R-Serie | | 8 - 24 mm | – | – | ● | |
| No. 7R XL | UNIDRIVE | Schlüsselknarre R-Serie | | 13 - 36 mm | – | – | | |
| No. 7R XS | UNIDRIVE | Schlüsselknarre R-Serie | | 8 - 19 mm | – | – | | |
| No. 7UR XL | UNIDRIVE | Schlüsselknarre R-Serie | | 13 - 24 mm | – | – | | |
| No. 7 UR XS | UNIDRIVE | Schlüsselknarre R-Serie | | 8 - 19 mm | – | – | | |
| **Combination spanner set** | | | | 4 ⟶ 135 mm | 5/32" AF ⟶ 3.7/8"AF | 1/8" W ⟶ 1.1/2" W | | |
| No. 6 | | | | 4 x 4,5 - 55 x 60 mm | 1/4" x 5/16"AF - 2.1/4" x 2.7/16"AF | 1/8"x3/16"W - 7/8"x1"W | ● | ● |
| No. 8 | | |  | 4 -14 mm | 5/32"AF - 7/16"AF | | ● | |
| No. 60 | | | | 0 - 36 mm | | | | |
| No. 60 P | | | | 0 - 36 mm | | | | |
| No. 62 P | | | | 0 - 64 mm | | | | |
| No. 60 S | | | | 0-36 mm | | | | |
| No. 894 | | | | 6 - 135 mm | 1/4"AF - 3.7/8"AF | 1.3/8W x 1.1/2"W | | |
| No. 895 | | | | 6 x 7 - 75 x 80 mm | 1/4" x 5/16"AF - 2.5/8 x 2.13/16"AF | | | |
| **Open ended spanner** | | | | 5 ⟶ 90 mm | 1/4" AF ⟶ 3.1/8AF | 1/8"W ⟶ 2"W | | |
| No. 2 | UNIDRIVE | | | 5,5 x 7 - 85 x 90 mm | 1/4" x 5/16"AF - 3 x 3.1/8"AF | 1/8" x 3/16"W - 1.7/8" x 2"W | ● | ● |
| No. 2B | UNIDRIVE | | | 6 x 7 - 17 x 19 mm | – | – | ● | ● |
| No. TX 4 | | | | 6 x 8 - 20 x 24 mm | | | | |
| No. 4 | UNIDRIVE | |  | 6 x 7 - 46 x 50 mm | 1/4" x 5/16"AF - 1/2" x 9/16"AF | | ● | |
| No. 4R | UNIDRIVE | Schlüsselknarre R-Serie |  | 8 x 9 - 18 x 19 mm | 1/4" x 5/16"AF - 1/2" x 9/16"AF | | | |
| No. 400 | | | | 8 x 10 - 46 x 50 mm | 5/16" x 3/8"AF - 7/8" x 1"AF | | | ● |
| No. 304 | UNIDRIVE | offset | | 11 x 13 - 19 x 22mm | 7/16" x 1/2"AF - 3/4" x 7/8"AF | | | |
| **Ring spanner** | | | | 22 ⟶ 230 mm | 7/8"AF ⟶ 7.1/2"AF | 9/16"W ⟶ 3.3/"W | | |
| No. 133 | | | | 22 - 220 mm | 7/8"AF - 6"AF | 9/16"W - 3.1/2"W | | |
| No. 306 | | | | 22 - 230 mm | 7/8"AF - 7.1/2"AF | 9/16"W -3.3/4"W | | |
| No. 306 G | | | | 27 - 115 mm | 1.1/16"AF - 4.5/8AF | 9/16"W - 2"W | | |
| **Slogging spanner** | | | | 33 ⟶ 105 mm | 7/8"AF ⟶ 4.1/8"AF | 9/16"W ⟶ 2.1/4"W | | |
| No. 308 | | | | 13 - 95 mm | 1.3/16"AF - 3.1/8"AF | 9/16"W - 1.3/8"W | | |
| No. 2A | | | | 22 - 105 mm | 7/8"AF - 4.1/8"AF | 9/16"W - 2.1/4"W | ● | |

**Deep ring spanner**
**Additional info:**
GEDORE non-glare, matte chrome-plated, 31CrV3
Various standard individual spanners compiled as practical sets
Supplied in metal case, module or other holder

See respective product in catalogue section for DIN standards and info on material quality
Some spanner ranges are hexagonal instead of having a UD profile in the smallest ranges.

# The production of a ratchet wrench

Schlüsselknarre® R-Serie

## From the tool blank to the final product
## Quality comes with existence - Step by Step "Made in Germany"

1 **... high-quality steel 31CrV3, ideal for hand tools**
Highly-efficient eccentric presses cut the blank for an ratchet wrench from high-quality flat steel. The coming shape, powerful heads and slim shaft can even be recognised at this stage.

2 **... hot forging process**
In the forging furnace the blank is heated to the exact pre-selected temperature and enters the forge while still red hot. The steel is given its form in the die under the multi-ton blows of a drop hammer. Any excess steel at the sides is then de-burred.

3 **... machined**
The ratchet head is brought to the precise dimension in a CNC machining centre.

4 **... tempering**
A special thermal treatment involving inert gas provides the tool with its extreme hardness and toughness - indispensable for a particularly long service life. Hardening ensures the required hardness and the annealing which follows imparts that toughness to the ratchet wrench body. Hardening and annealing together are referred to as tempering.

5 **... precisely ground**
The jaws of the spanners are given their exact dimensions only after the hardening process. For this purpose, a high-tech grinding robot has been developed especially for this operation.

6 **... smoothed in a kind-to-hands manner**
After grinding has produced a clean-cut, burr-free outer surface for our ratchet wrench bodies, any corners and edges still remaining are smoothed off by vibratory grinding until the head and shaft are likewise absolutely clean-cut and burr-free. The heads are additionally ground. This gives rise to GEDORE's kind-on-hands haptics.

7 **... extensively treated**
The extensive electroplating gives the spanners an effective surface protection and a perfect appearance. Nickel-plating provides the ratchet wrench body with optimal corrosion protection and the non-glare finish comes from high-grade matt chrome-plating.

# The production of a ratchet insert

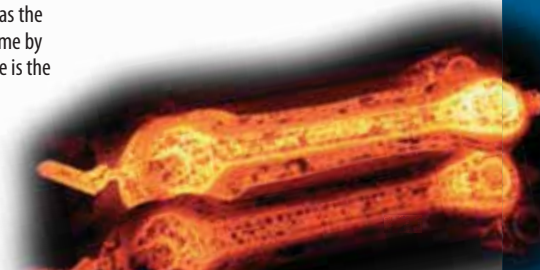
8 **... high-quality steel brought precisely into shape**
High-quality GEDORE special hardened and tempered steel brought precisely into shape on the most up-to-date CNN machining centres.

9 **... unmistakable profile**
The unmistakable, easy-on-bolts Unit Drive Profile (UD) is precisely reamed to size on highly-efficient reaming presses. Tempering is followed by the screw insert being manganese-phosphated. It protects from corrosion and lessens friction-induced wear.

# Merging

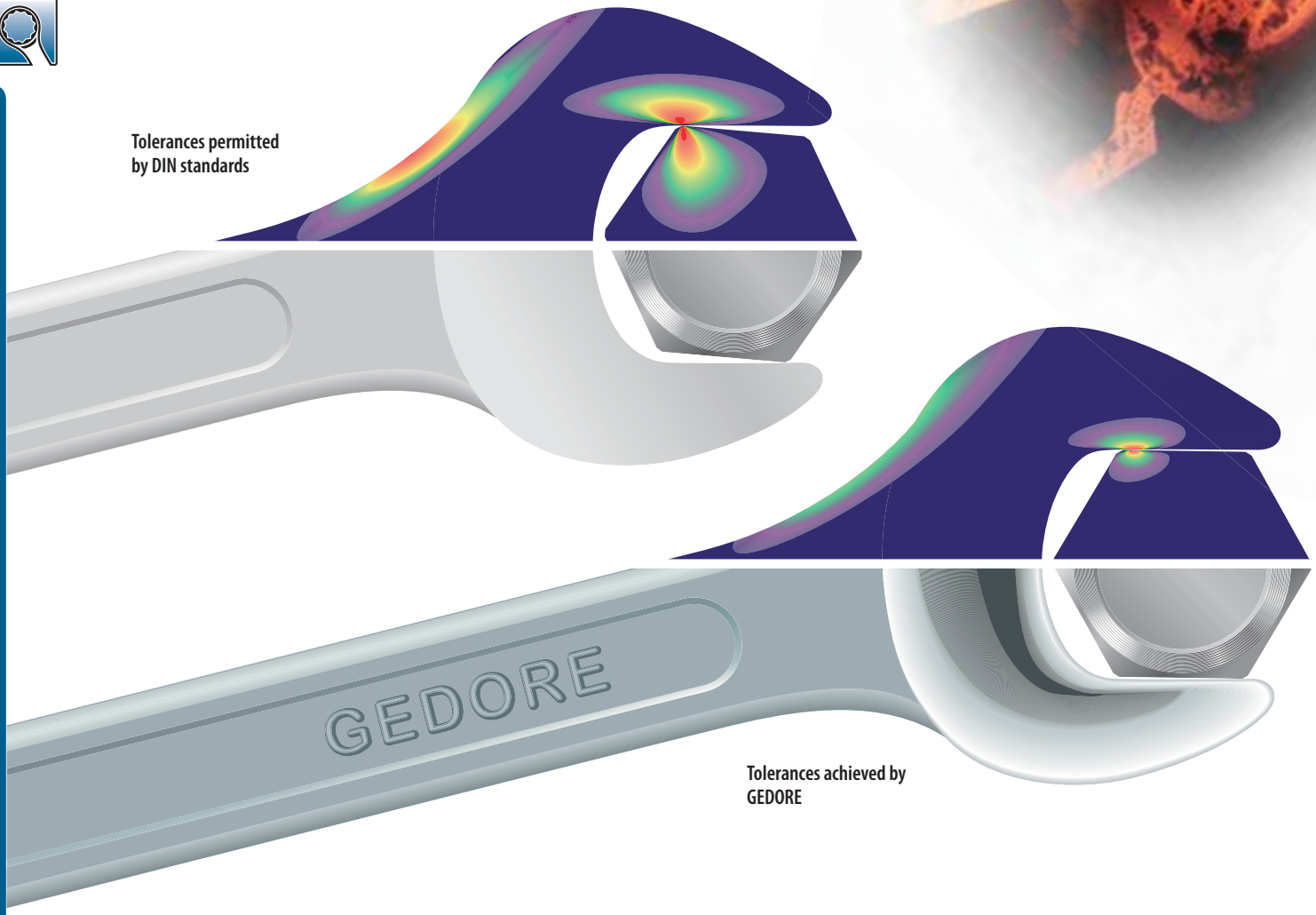
10 Schlüsselknarre® R-Serie **... marriage**
Ratchet wrench body, screw insert, cap and mechanisms are assembled. (Technicians traditionally refer to this as the marriage process.) This is accompanied at the same time by the functional check. Coming into play very much here is the knowledge and extensive track record of our staff.

**And ready is the GEDORE ratchet wrench - made by GEDORE - made in Germany!**

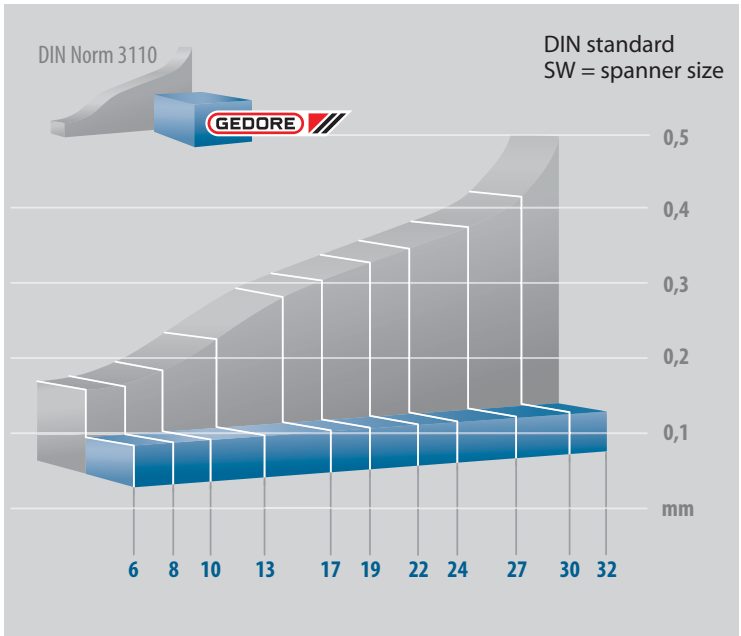


# The key to success

## Hi-tech for the exact rated size




Open-ended spanners have been made since the dawn of technology. But the continued use of traditional tools does not mean that they are still manufactured by conventional production processes. Tried and tested production stages are subject to continuous development by our workforce. Where modern technology can improve the quality, it is used. GEDORE grinds the spanner jaws to the exact rated size, using a high-tech grinding machine. Perfect fit is the most important requirement for non-damaging and safe work.




### Your Advantage - Your PLUS in safety

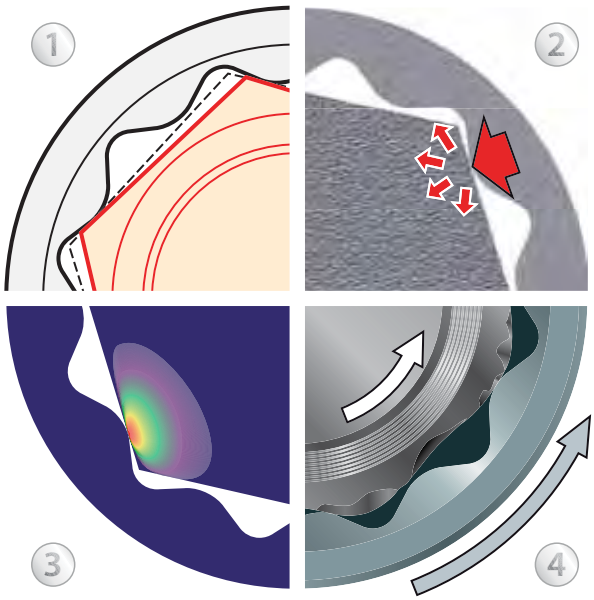
- Precision dimensions ensure secure nut and bolt grip
- Long life of nut and bolt
- Complete transmission of available torque
- Top quality for better safety

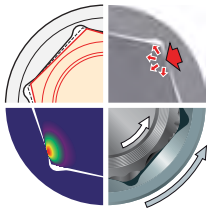
## GEDORE UNIT DRIVE profile

The GEDORE UNIT DRIVE profile stops screw heads from "turning round and round" by means of a wave form without any tipped or sharp edges.
Enlarged, round contact surfaces of the GEDORE tools ensure that torque is reliably transferred - acting uniformly, as it does, on the screw head.

1. A large contact surface provides a secure force closure even for those screw heads whose sizes lie outside of the tolerances.
2. Uniform distribution of the force on the screw head flanks. The resulting reduced notching effect stops the screw head from turning round and round.
3. Gentle torque transfer enables even worn screw heads to be unscrewed with every certainty - no slipping of the tool at all.
4. Thanks to the optimally distributed force up to 20 % higher torques can be transferred.

bi-hexagon



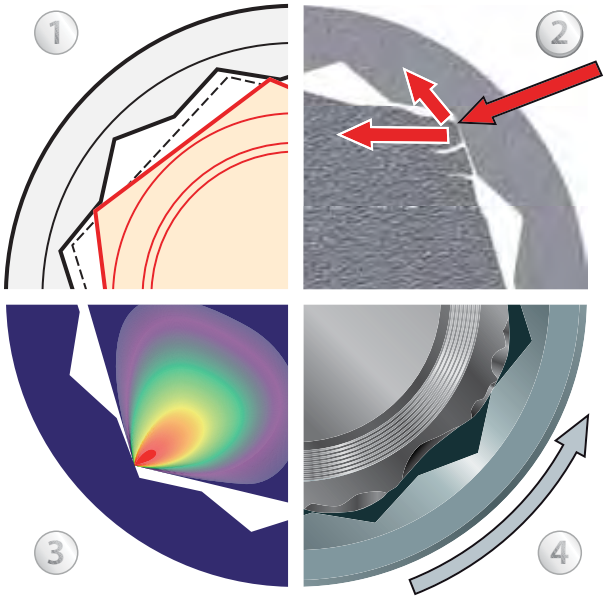
hexagon

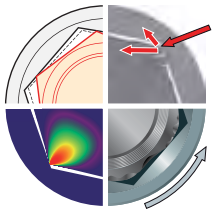
## Traditional profile

The resulting minimised notching effect prevents any damage to the screw head profile. This represents added safety since - even with damaged screw heads - there is no slipping or turning.

1. The reduced contact surface lessens the force closure. Certain torque transfer is no longer possible and can become a risk.
2. The influence exerted of the sharp edges raises the notching effect on the screw head. The profile is ruined.
3. Since there is no longer any torque transfer, the rounded screw head profiles cannot be unscrewed - the tool keeps on slipping.
4. Pronounced force on the tip of the screw head profile. Concentrated pressure deforms the screw head.

bi-hexagon



hexagon

GEDORE

# Schlüsselknarre® R-Serie

## The revolution
## A perfect collection

**All the benefits...**

1.

**of the GEDORE U-20 technology,**

2.

**classic No. 6 and the slim,**

3.

**tried-and-tested No. 7**

**... have been combined into these ratchet wrenches 7 R + 7 UR:**

# 7R & 7UR

### The hollow shaft (No. 7)
**... highly stable - ideal for transferring maximum forces**
The kind-to-hands hollow profile makes for easy and tireless bolting. The GEDORE hollow profile has a geometry similar to that of a double T-girder. This makes it possible for substantial forces - particularly with large spanner sizes (34 and 36 mm) - to be transferred.

### The jaw (No. 6)
**... highly dimensionally accurate / extremely precise - for non-damaging and safe working**
The exact nominal dimension of the jaw and thus its fitting precision ensure a secure bolt fitting and long service life of both bolt and ratchet wrench - the most important requirement, in fact, for non-damaging and safe working.

### The non-glare look with grip (No. 6 & 7)
**... an extremely assured grip thanks to the surface profile - matt chrome-plated**
The spanner surface is designed for both practical application and eye-appeal. The non-glare look comes from matt chrome-plating - the GEDORE surface profile is both kind-on-hands and very useful - a firm grip even with oily hands.

## The ratchet (U-20)

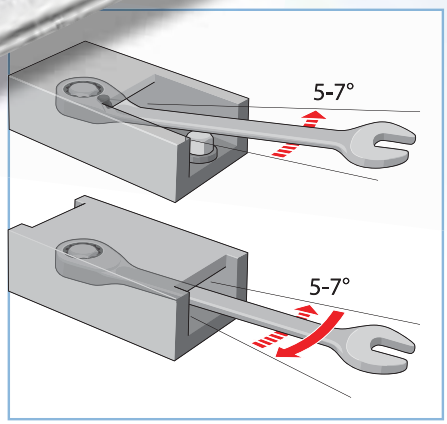
**... extra flat and sturdy - ideal for tough use and even at hard-to-reach areas**

Extremely compact and highly efficient - for quick deployments and also under cramped conditions. The tried-and-tested U-20 ratchet technology incorporated in an extremely flat ring head ensures efficient ratcheting work - For both loosening and fast tightening. The sturdiness of the ratchet wrench is very much down to the number of teeth intentionally selected. The GEDORE pawl geometry optimises the actually large working angle occasioned by a small number of teeth.

## The UD profile (No. 7)

**... extremely easy on the bolt heads with the force ideally transferred**

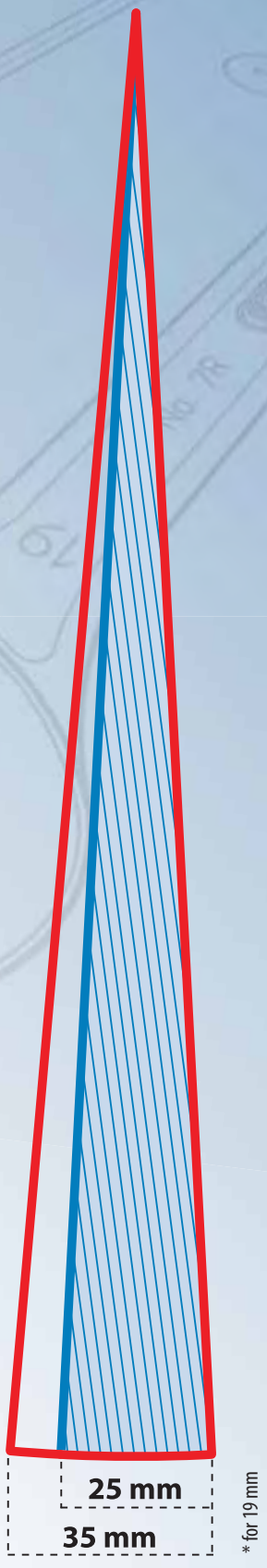
The wave form of the profile enlarges the spanner grip in every case - even with bolts whose dimensions are outside the tolerance range. Even distribution of pressure permits the maximum force to be applied.




## The working angle

**... extremely rapid deployment even in very confined spaces thanks to its very small working angle**

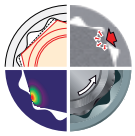
With an immediate meshing mechanism, GEDORE has managed to reduce the play between pawl and locking insert to practically nothing. This refinement of the ratchet technology has produced a very small, yet effective working angle. This means a reduction to a minimum of the spanner dead operating angle. The spanner starts off with active power where others are still at idle.




## Long life cycle

**…precise and reliable, environment and maintenance-friendly**

The fact that the ratchet spanner can be serviced underpins its sustainability. Even after any instance of incorrect use (e.g. given considerable soiling, overstressing or moisture...) the ratchet wrench can be quickly made operable. Unscrew, slight re-greasing, screw down - and then continue to reliably undo the bolts.



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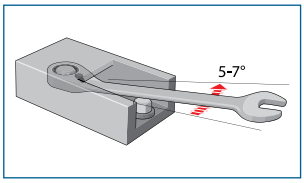
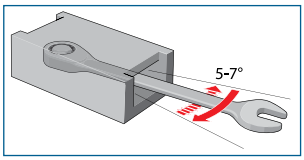
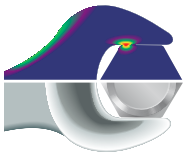


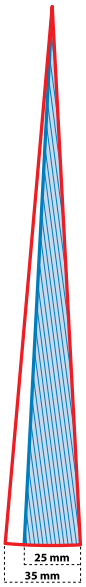

7 UR




7 R



| mm | "AF |
|---|---|
| 8 – 36 | 1/4" – 1 1/4" |



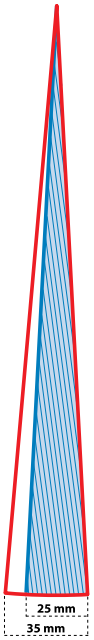

## 7 R

### COMBINATION RATCHET SPANNER

- With same size each end
- Flat pattern
- UD profile
- Working angle: 7° from 8 to 15 mm, 6° from 16 to 27 mm and 5° from 30 to 36 mm
- For ratchet loosening and fast tightening
- High torque transfer
- Hollow profile comfortable to hold
- Warp-resistant geometry with double T-girder effect
- GEDORE vanadium steel 31CrV3
- Non-glare look thanks to matt chrome-plating, locking insert and pawl manganese-phosphated
- Hot forged
- Jaw exactly ground to spanner size
- Tried-and-tested GEDORE technology combined anew: spanner jaws of classic No. 6, stable hollow shaft of No. 7 and refined mechanism of the U-20 ratchets
- In combination with adaptor 7 RA or 7 RB (please order separately) the spanner 7 R can be used as a (bit) ratchet
- European Patent applied

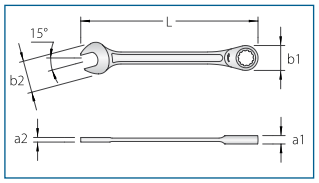
Schlüsselknarre R-Serie

mm




"AF

| Code | No. | mm | ° | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2297051 | **7 R 8** | 8 | 7 | 140 | 7.0 | 3.8 | 17.5 | 19.8 | 32 | 5 |
| 2297078 | **7 R 9** | 9 | 7 | 150 | 7.3 | 3.9 | 19.3 | 21.5 | 42 | 5 |
| 2297086 | **7 R 10** | 10 | 7 | 160 | 7.7 | 4.1 | 21.0 | 23.0 | 54 | 5 |
| 2297094 | **7 R 11** | 11 | 7 | 164 | 8.1 | 4.3 | 22.5 | 26.0 | 63 | 5 |
| 2297108 | **7 R 12** | 12 | 7 | 170 | 8.6 | 4.6 | 23.6 | 27.5 | 69 | 5 |
| 2297116 | **7 R 13** | 13 | 7 | 180 | 9.0 | 4.7 | 25.7 | 30.0 | 88 | 5 |
| 2297124 | **7 R 14** | 14 | 7 | 190 | 9.4 | 4.9 | 28.2 | 31.8 | 101 | 5 |
| 2297132 | **7 R 15** | 15 | 7 | 200 | 9.8 | 5.2 | 29.5 | 34.0 | 125 | 5 |
| 2297140 | **7 R 16** | 16 | 6 | 212 | 10.2 | 5.7 | 31.7 | 35.0 | 137 | 5 |
| 2297159 | **7 R 17** | 17 | 6 | 225 | 10.6 | 5.9 | 33.6 | 38.0 | 160 | 5 |
| 2297167 | **7 R 18** | 18 | 6 | 237 | 11.0 | 6.1 | 34.6 | 40.0 | 197 | 5 |
| 2297175 | **7 R 19** | 19 | 6 | 250 | 11.7 | 6.4 | 36.3 | 42.0 | 202 | 5 |
| 2219433 | **7 R 21** | 21 | 6 | 274 | 12.5 | 6.9 | 40.0 | 45.5 | 262 | 5 |
| 2297191 | **7 R 22** | 22 | 6 | 292 | 13.3 | 7.1 | 42.5 | 48.0 | 319 | 5 |
| 2297205 | **7 R 24** | 24 | 6 | 325 | 14.8 | 7.9 | 48.0 | 52.5 | 520 | 5 |
| 2297213 | **7 R 27** | 27 | 6 | 359 | 16.0 | 8.3 | 53.5 | 59.5 | 590 | 5 |
| 2297221 | **7 R 30** | 30 | 5 | 399 | 17.4 | 8.8 | 59.0 | 63.0 | 780 | 1 |
| 2297248 | **7 R 32** | 32 | 5 | 424 | 17.9 | 9.3 | 63.0 | 67.5 | 920 | 1 |
| 2219549 | **7 R 34** | 34 | 5 | 449 | 18.4 | 9.7 | 65.5 | 72.0 | 1010 | 1 |
| 2219557 | **7 R 36** | 36 | 5 | 480 | 18.9 | 10.2 | 70.0 | 75.0 | 1208 | 1 |




| Code | No. | "AF | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 1995863 | **7 R 1/4AF** | 1/4 | 128 | 6.3 | 3.9 | 14.0 | 15.0 | 24 | 5 |
| 1995871 | **7 R 5/16AF** | 5/16 | 140 | 6.5 | 4.0 | 16.6 | 16.7 | 28 | 5 |
| 1995898 | **7 R 3/8AF** | 3/8 | 159 | 7.3 | 4.8 | 20.0 | 20.8 | 48 | 5 |
| 1995901 | **7 R 7/16AF** | 7/16 | 165 | 7.7 | 5.2 | 21.8 | 23.0 | 10 | 5 |
| 1995928 | **7 R 1/2AF** | 1/2 | 178 | 8.6 | 5.8 | 24.7 | 27.1 | 82 | 5 |
| 1995936 | **7 R 9/16AF** | 9/16 | 191 | 9.0 | 6.2 | 27.0 | 29.2 | 102 | 5 |
| 1995944 | **7 R 5/8AF** | 5/8 | 208 | 9.9 | 6.8 | 30.0 | 33.4 | 139 | 5 |
| 1995952 | **7 R 3/4AF** | 3/4 | 248 | 11.2 | 8.2 | 33.8 | 39.7 | 220 | 5 |
| 1995960 | **7 R 7/8AF** | 7/8 | 290 | 13.0 | 9.0 | 40.0 | 46.0 | 350 | 5 |
| 1995979 | **7 R 1AF** | 1 | 323 | 14.5 | 10.0 | 46.0 | 52.2 | 490 | 5 |
| 1995987 | **7 R 1.1/16AF** | 1.1/16 | 359 | 15.5 | 10.5 | 52.5 | 56.5 | 660 | 5 |
| 1995995 | **7 R 1.1/8AF** | 1.1/8 | 403 | 17.0 | 11.4 | 58.5 | 62.7 | 860 | 5 |
| 1996002 | **7 R 1.1/4AF** | 1.1/4 | 425 | 17.5 | 12.5 | 62.5 | 66.4 | 1100 | 5 |

Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

## 7 R-005

### COMBINATION RATCHET SPANNER SET 5 pieces

- Most used sizes combined in a set
- Flat pattern
- UD profile
- High torque transfer
- In plastic case
- Dimensions: 275 x 150 x 42 mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 2297434 | **7 R-005** | 8 10 13 17 19 | 932 | 1 |

## 7 R-012

### COMBINATION RATCHET SPANNER SET 12 pieces

- Most used sizes combined in a set
- Flat pattern
- UD profile
- High torque transfer
- In robust sheet-metal case
- Dimensions: 315 x 181 x 40 mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 2297442 | **7 R-012** | 8 9 10 11 12 13 14 15 16 17 18 19 | 2840 | 1 |

## 7 R A-008

### COMBINATION RATCHET SPANNER SET 8 pieces

- With adaptors for 1/4", 3/8" and 1/2" square drive as well for 1/4" bits
- In plastic case
- Dimensions: 275 x 150 x 42 mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 2329085 | **7 R A-008** | **7 R** 10 13 17 19<br>**7 RA**-6,3 -10 -12,5<br>**7 RB**-6,3 | 1140 | 1 |

## 7 RA-7 RB

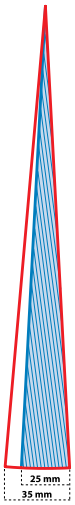
128

Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

## 7 UR

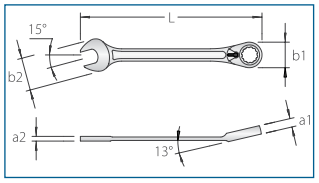
### COMBINATION RATCHET SPANNER, REVERSIBLE

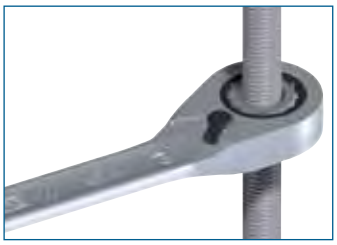
- With same size each end
- Ring 13° offset from shaft
- UD profile
- Working angle 7° from 8 to 15 mm, and 6° from 16 to 24 mm
- For ratchet loosening and fast tightening, with lever change
- High torque transfer
- Hollow profile comfortable to hold
- Warp-resistant geometry with double T-girder effect
- GEDORE vanadium steel 31CrV3
- Non-glare look thanks to matt chrome-plating, locking insert and pawl manganese-phosphated
- Hot forged
- Jaw exactly ground to spanner size
- Tried-and-tested GEDORE technology combined anew: spanner jaws of classic No. 6, stable hollow shaft of No. 7 and refined mechanism of the U-20 ratchets
- In combination with adaptor 7 RA or 7 RB (order separately) the spanner 7 UR can be used as a (bit) ratchet
- European Patent applied



Schlüsselknarre R-Serie

| Code | No. | mm | ° | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2297256 | **7 UR 8** | 8 | 7 | 140 | 7.0 | 3.8 | 17.5 | 19.8 | 37 | 1 |
| 2297264 | **7 UR 9** | 9 | 7 | 150 | 7.3 | 3.9 | 19.3 | 21.5 | 43 | 1 |
| 2297272 | **7 UR 10** | 10 | 7 | 160 | 7.7 | 4.1 | 21.0 | 23.0 | 53 | 5 |
| 2297280 | **7 UR 11** | 11 | 7 | 164 | 8.1 | 4.3 | 22.5 | 26.0 | 62 | 5 |
| 2297299 | **7 UR 12** | 12 | 7 | 170 | 8.6 | 4.6 | 23.6 | 27.5 | 69 | 1 |
| 2297302 | **7 UR 13** | 13 | 7 | 180 | 9.0 | 4.7 | 25.7 | 30.0 | 81 | 5 |
| 2297310 | **7 UR 14** | 14 | 7 | 190 | 9.4 | 4.9 | 28.2 | 31.8 | 98 | 5 |
| 2297329 | **7 UR 15** | 15 | 7 | 200 | 9.8 | 5.2 | 29.5 | 34.0 | 120 | 5 |
| 2297337 | **7 UR 16** | 16 | 6 | 212 | 10.2 | 5.7 | 31.7 | 35.0 | 153 | 5 |
| 2297345 | **7 UR 17** | 17 | 6 | 225 | 10.6 | 5.9 | 33.6 | 38.0 | 166 | 5 |



mm

| Code | No. | mm | ° | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2297353 | **7 UR 18** | 18 | 6 | 237 | 11.0 | 6.1 | 34.6 | 40.0 | 178 | 5 |
| 2297361 | **7 UR 19** | 19 | 6 | 250 | 11.7 | 6.4 | 36.3 | 42.0 | 218 | 5 |
| 2244500 | **7 UR 21** | 21 | 6 | 274 | 12.5 | 6.9 | 40.0 | 45.5 | 264 | 5 |
| 2297388 | **7 UR 22** | 22 | 6 | 292 | 13.3 | 7.1 | 42.5 | 48.0 | 319 | 5 |
| 2297396 | **7 UR 24** | 24 | 6 | 325 | 14.8 | 7.9 | 48.0 | 52.5 | 449 | 5 |

## 7 RA - 7 RB

### ADAPTOR FOR 7 R / 7 UR

- The adapter transforms the ring ratchet spanner into a 1/4", 3/8" or 1/2" ratchtet or a 1/4", 5/16" bit ratchet
- Push-button release
- Wear-resistant and manganese phosphated push-button
- Fast-turning ring for swift release or tightening
- Secure adapter fit in the ring ratchet thanks to circlip
- RA: Chrome-plated body, RB: Manganese-phosphated body
- Not suitable for 7R XL and 7UR XL

1/4" 3/8" 1/2" 1/4" 5/16"

7 RA

7 RB

| Code | No. | ■" | ■ | ⬡" | ⬡ | mm | H | | |
|---|---|---|---|---|---|---|---|---|---|
| 2320495 | **7 RA-6,3** | 1/4 | 6.3 | | | 10 | 18.0 | | 1 |
| 2320487 | **7 RA-10** | 3/8 | 10.0 | | | 13 | 24.0 | | 1 |
| 2320479 | **7 RA-12,5** | 1/2 | 12.5 | | | 19 | 32.0 | | 1 |
| 2329239 | **7 RB-6,3** | | | 1/4 | 6.3 | 10 | 20.5 | 11 | 1 |
| 2327643 | **7 RB-8** | | | 5/16 | 8.0 | 10 | 23.0 | 15 | 1 |



Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

## 7 UR-005

### COMBINATION RATCHET SPANNER SET, REVERSIBLE
### 5 pieces

- Most used sizes
- Ring 13° offset from shaft, reversible
- UD profile
- High torque transfer
- In plastic case
- Dimensions: 275 x 150 x 42 mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 2327651 | **7 UR-005** | 8 10 13 17 19 | 930 | 1 |

## 7 UR-012

### COMBINATION RATCHET SPANNER SET, REVERSIBLE
### 12 pieces

- Most used sizes
- Ring 13° offset from shaft, reversible
- UD profile
- High torque transfer
- In robust sheet-metal case
- Dimensions: 315 x 181 x 40 mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 2297418 | **7 UR-012** | 8 9 10 11 12 13 14 15 16 17 18 19 | 2840 | 1 |

## 7 UR A-008

### COMBINATION RATCHET SPANNER SET 8 pieces

- With adaptors for 1/4", 3/8" and 1/2" square drive as well for 1/4" bits
- In plastic case
- Dimensions: 275 x 150 x 42 mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 2329093 | **7 UR A-008** | **7 UR** 10 13 17 19<br>**7 RA**-6,3 -10 -12,5<br>**7 RB**-6,3 | 1,1 | 1 |

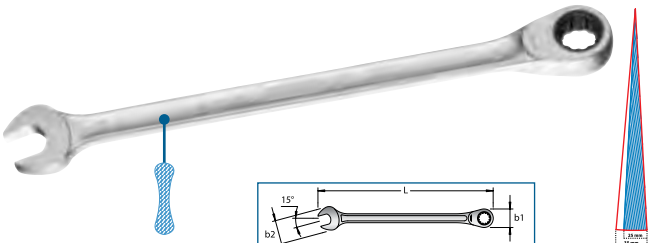
30 • D 30
192

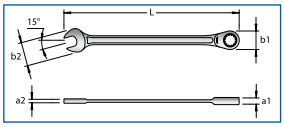
Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

## 7 R XL

### COMBINATION RATCHET SPANNER extra long

- With same size each end
- Flat pattern
- UD profile
- Working angle: 7° from 13 to 15 mm, 6° from 16 to 27 mm and 5° from 30 to 36 mm
- For ratchet loosening and fast tightening
- High torque transfer
- Long lever arm for powerful screwing, 33 % longer than standard spanners
- Hollow profile comfortable to hold
- Warp-resistant geometry with double T-girder effect
- GEDORE vanadium steel 31CrV3
- Non-glare look thanks to matte chrome-plating, locking insert and pawl manganese-phosphated
- Hot-forged
- Jaw exactly ground to spanner size
- Tried-and-tested GEDORE technology combined anew: solid spanner jaws of classic No. 7 XL, stable hollow shaft of No. 7 and refined mechanism of the U-20 ratchets
- European Patent applied






Schlüsselknarre R-Serie

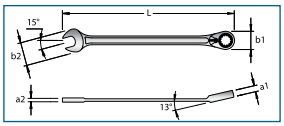
mm

| Code | No. | mm | ° | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2300265 | **7 R XL 13** | 13 | 7 | 240 | 12.0 | 5.8 | 26.1 | 30.0 | 160 | 1 |
| 2300281 | **7 R XL 14** | 14 | 7 | 253 | 12.5 | 6.3 | 28.6 | 31.8 | 180 | 1 |
| 2300303 | **7 R XL 15** | 15 | 7 | 265 | 13.0 | 6.8 | 30.0 | 34.0 | 200 | 1 |
| 2300311 | **7 R XL 16** | 16 | 6 | 282 | 13.6 | 7.4 | 32.2 | 35.0 | 260 | 1 |
| 2300338 | **7 R XL 17** | 17 | 6 | 300 | 14.1 | 8.4 | 34.1 | 38.0 | 280 | 1 |
| 2300346 | **7 R XL 18** | 18 | 6 | 315 | 14.6 | 8.4 | 35.1 | 40.0 | 300 | 1 |
| 2300354 | **7 R XL 19** | 19 | 6 | 333 | 15.6 | 9.4 | 36.9 | 42.0 | 360 | 1 |
| 2300362 | **7 R XL 21** | 21 | 6 | 364 | 16.6 | 9.4 | 40.6 | 45.5 | 440 | 1 |
| 2300370 | **7 R XL 22** | 22 | 6 | 388 | 17.7 | 10.8 | 43.2 | 48.0 | 540 | 1 |
| 2300389 | **7 R XL 24** | 24 | 6 | 432 | 19.7 | 11.8 | 48.7 | 52.5 | 740 | 1 |
| 2300397 | **7 R XL 27** | 27 | 6 | 478 | 21.3 | 12.8 | 54.3 | 59.5 | 940 | 1 |
| 2300400 | **7 R XL 30** | 30 | 5 | 530 | 23.1 | 13.8 | 59.9 | 63.0 | 1200 | 1 |
| 2300419 | **7 R XL 32** | 32 | 5 | 564 | 23.8 | 13.8 | 63.9 | 67.5 | 1500 | 1 |
| 2300427 | **7 R XL 36** | 36 | 5 | 638 | 25.1 | 14.8 | 70.9 | 75.0 | 1920 | 1 |

## 7 UR XL

### COMBINATION RATCHET SPANNER, REVERSIBLE extra long

- With same size each end
- UD profile
- Ring 13° offset from shaft
- Working angle: 7° from 13 to 15 mm and 6° from 16 to 24 mm
- For ratchet loosening and fast tightening, with lever change
- High torque transfer
- Long lever arm for powerful screwing, 33 % longer than standard spanners
- Hollow profile comfortable to hold
- Warp-resistant geometry with double T-girder effect
- GEDORE vanadium steel 31CrV3
- Non-glare look thanks to matte chrome-plating, locking insert and pawl manganese-phosphated
- Hot-forged
- Jaw exactly ground to spanner size
- Tried-and-tested GEDORE technology combined anew: solid spanner jaws of classic No. 7 XL, stable hollow shaft of No. 7 and refined mechanism of the U-20 ratchets
- European Patent applied




Schlüsselknarre R-Serie

mm

| Code | No. | mm | ° | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2302225 | **7 UR XL 13** | 13 | 7 | 240 | 12.0 | 5.8 | 26.1 | 30.0 | 191 | 1 |
| 2302233 | **7 UR XL 14** | 14 | 7 | 253 | 12.5 | 6.3 | 28.6 | 31.8 | | 1 |
| 2302268 | **7 UR XL 15** | 15 | 7 | 265 | 13.0 | 6.8 | 30.0 | 34.0 | | 1 |
| 2302276 | **7 UR XL 16** | 16 | 6 | 282 | 13.6 | 7.4 | 32.2 | 35.0 | | 1 |
| 2302284 | **7 UR XL 17** | 17 | 6 | 300 | 14.1 | 8.4 | 34.1 | 38.0 | 270 | 1 |
| 2302349 | **7 UR XL 18** | 18 | 6 | 315 | 14.6 | 8.4 | 35.1 | 40.0 | | 1 |
| 2302357 | **7 UR XL 19** | 19 | 6 | 333 | 15.6 | 9.4 | 36.9 | 42.0 | 360 | 1 |
| 2302365 | **7 UR XL 21** | 21 | 6 | 364 | 16.6 | 9.4 | 40.6 | 45.5 | 440 | 1 |
| 2302373 | **7 UR XL 22** | 22 | 6 | 388 | 17.7 | 10.8 | 43.2 | 48.0 | 500 | 1 |
| 2302381 | **7 UR XL 24** | 24 | 6 | 432 | 19.7 | 11.8 | 48.7 | 52.5 | 900 | 1 |

## 7 R XL-009

### COMBINATION RATCHET SPANNER SET 9 pieces

- In GEDORIT blue sheet steel case
- Dimensions: 425 x 277 x 55 mm

Schlüsselknarre R-Serie

mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 2329204 | **7 R XL-009** | 13 14 15 16 17 18 19 21 22 | 4820 | 1 |

## 7 UR XL-009

### COMBINATION RATCHET SPANNER SET 9 pieces

- In GEDORIT blue sheet steel case
- Dimensions: 425 x 277 x 55 mm

Schlüsselknarre R-Serie

mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 2329212 | **7 UR XL-009** | 13 14 15 16 17 18 19 21 22 | 4820 | 1 |

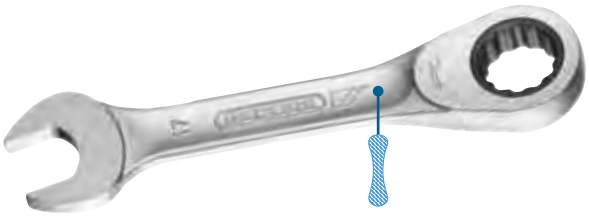


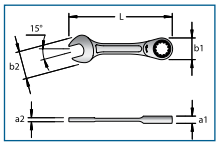
Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

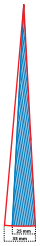
## 7 R XS

### COMBINATION RATCHET SPANNER extra short

- With same size each end
- Flat pattern
- UD profile
- Working angle: 7° from 8 to 15 mm, 6° from 16 to 19 mm
- For ratchet loosening and fast tightening
- High torque transfer
- Hollow profile comfortable to hold
- Warp-resistant geometry with double T-girder effect
- GEDORE vanadium steel 31CrV3
- Non-glare look thanks to matte chrome-plating, locking insert and pawl manganese-phosphated
- Hot-forged
- Jaw exactly ground to spanner size
- Tried-and-tested GEDORE technology combined anew: solid spanner jaws of classic No. 7 XL, stable hollow shaft of No. 7 and refined mechanism of the U-20 ratchets
- European Patent applied





Schlüsselknarre R-Serie

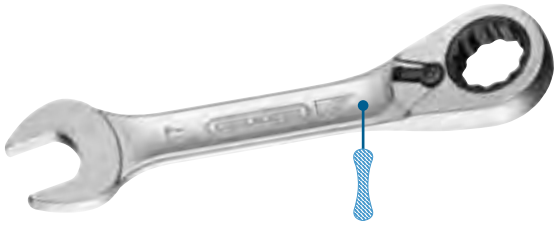
mm

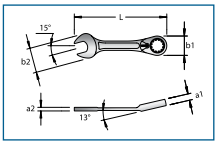
| Code | No. | mm | ° | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2304163 | **7 R XS 8** | 8 | 7 | 94 | 7.0 | 3.8 | 17.5 | 18.5 | 20 | 1 |
| 2304198 | **7 R XS 9** | 9 | 7 | 99 | 7.3 | 3.9 | 19.3 | 19.8 | 60 | 1 |
| 2304201 | **7 R XS 10** | 10 | 7 | 104 | 7.7 | 4.1 | 21.0 | 21.5 | 140 | 1 |
| 2304236 | **7 R XS 11** | 11 | 7 | 110 | 8.1 | 4.3 | 22.5 | 23.0 | 40 | 1 |
| 2304244 | **7 R XS 12** | 12 | 7 | 117 | 8.6 | 4.6 | 23.6 | 26.0 | | 1 |
| 2304252 | **7 R XS 13** | 13 | 7 | 123 | 9.0 | 4.7 | 25.7 | 27.5 | 60 | 1 |
| 2304260 | **7 R XS 14** | 14 | 7 | 129 | 9.4 | 4.9 | 28.2 | 30.0 | 100 | 1 |
| 2304279 | **7 R XS 15** | 15 | 7 | 136 | 9.8 | 5.2 | 29.5 | 31.8 | 100 | 1 |
| 2304295 | **7 R XS 16** | 16 | 6 | 144 | 10.2 | 5.7 | 31.7 | 34.0 | | 1 |
| 2304325 | **7 R XS 17** | 17 | 6 | 152 | 10.6 | 5.9 | 33.6 | 35.0 | 180 | 1 |
| 2304341 | **7 R XS 18** | 18 | 6 | 160 | 11.0 | 6.1 | 34.6 | 38.0 | 140 | 1 |
| 2304368 | **7 R XS 19** | 19 | 6 | 169 | 11.7 | 6.4 | 36.3 | 40.0 | 180 | 1 |

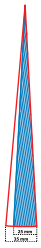
## 7 UR XS

### COMBINATION RATCHET SPANNER, REVERSIBLE extra short

- With same size each end
- UD profile
- Ring 13° offset from shaft
- Especially suitable for work in confined spaces
- Working angle: 7° from 8 to 15 mm, 6° from 16 to 19 mm
- For ratchet loosening and fast tightening, with lever change
- Compact design 33 % shorter than standard spanners, for confined spaced
- Small but not too small for large hands
- High torque transfer
- Hollow profile comfortable to hold
- Warp-resistant geometry with double T-girder effect
- GEDORE vanadium steel 31CrV3
- Non-glare look thanks to matte chrome-plating, locking insert and pawl manganese-phosphated
- Hot-forged
- Jaw exactly ground to spanner size
- Tried-and-tested GEDORE technology combined anew: spanner jaws of classic No. 6, stable hollow shaft of No. 7 and refined mechanism of the U-20 ratchets
- European Patent applied





Schlüsselknarre R-Serie

mm

| Code | No. | mm | ° | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2304562 | **7 UR XS 8** | 8 | 7 | 94 | 7.0 | 3.8 | 17.5 | 18.5 | 20 | 1 |
| 2304570 | **7 UR XS 9** | 9 | 7 | 99 | 7.3 | 3.9 | 19.3 | 19.8 | 40 | 1 |
| 2304589 | **7 UR XS 10** | 10 | 7 | 104 | 7.7 | 4.1 | 21.0 | 21.5 | 40 | 1 |
| 2304597 | **7 UR XS 11** | 11 | 7 | 110 | 8.1 | 4.3 | 22.5 | 23.0 | 50 | 1 |
| 2304600 | **7 UR XS 12** | 12 | 7 | 117 | 8.6 | 4.6 | 23.6 | 26.0 | 60 | 1 |
| 2304635 | **7 UR XS 13** | 13 | 7 | 123 | 9.0 | 4.7 | 25.7 | 27.5 | 80 | 1 |
| 2304643 | **7 UR XS 14** | 14 | 7 | 129 | 9.4 | 4.9 | 28.2 | 30.0 | 120 | 1 |
| 2304651 | **7 UR XS 15** | 15 | 7 | 136 | 9.8 | 5.2 | 29.5 | 31.8 | 100 | 1 |
| 2304686 | **7 UR XS 16** | 16 | 6 | 144 | 10.2 | 5.7 | 31.7 | 34.0 | 100 | 1 |
| 2304694 | **7 UR XS 17** | 17 | 6 | 152 | 10.6 | 5.9 | 33.6 | 35.0 | 120 | 1 |
| 2304724 | **7 UR XS 18** | 18 | 6 | 160 | 11.0 | 6.1 | 34.6 | 38.0 | 140 | 1 |
| 2304732 | **7 UR XS 19** | 19 | 6 | 169 | 11.7 | 6.4 | 36.3 | 40.0 | 160 | 1 |

## 7 R XS-005

### COMBINATION RATCHET SPANNER SET 5 pieces

- In plastic case
- Dimensions: 200 x 120 x 38 mm

Schlüsselknarre R-Serie

mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 2329107 | **7 R XS-005** | 8 10 13 17 19 | 880 | 1 |

## 7 UR XS-005

### COMBINATION RATCHET SPANNER SET 5 pieces

- In plastic case
- Dimensions: 200 x 120 x 38 mm

Schlüsselknarre R-Serie

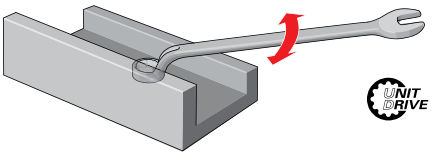
mm

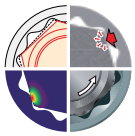
| Code | No. | Contents | | |
|---|---|---|---|---|
| 2329123 | **7 UR XS-005** | 8 10 13 17 19 | 890 | 1 |

Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

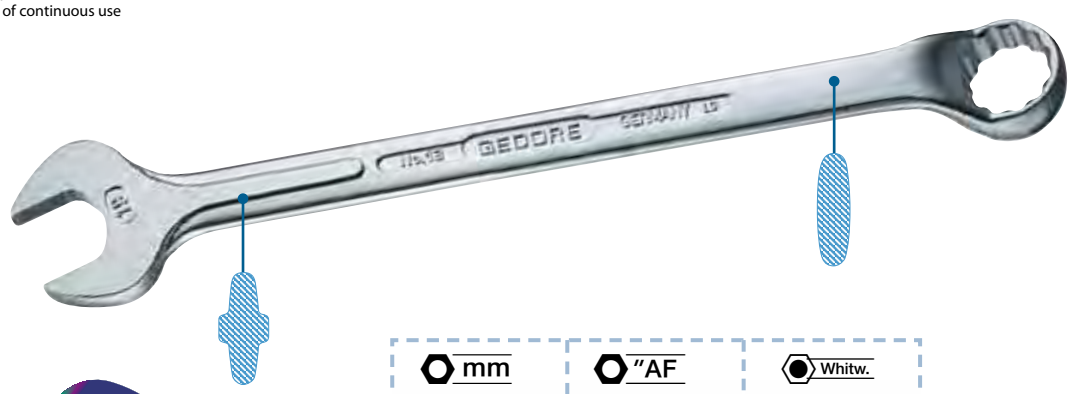
## No. 1 B "The strong all-rounder"

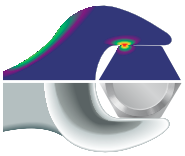
- Carefully forged and professionally machined:
- Slim ribbed open end for added strength guarantees maximum torques
- Jaw: ground precisely to exact nominal size for optimum contact areas
- Ring: 10° offset from shaft, with UD profile for gentle transmission of force
- High bending strength - does not fracture or splinter when overloaded, thus minimising the risk of injury
- Overloading indicated by deformation
- Non-glare matt chrome-plated finish
- The offset ring ensures a better grip on deep-seated or inset nuts or bolts.
- Top-grade industrial quality for the hardest of continuous use



**Spanner sizes:**
- Metric dimensions: 5 - 80 mm
- Imperial dimensions: 1/4" - 3.1/4"
- Whitworth dimensions: 1/8W - 3/4W



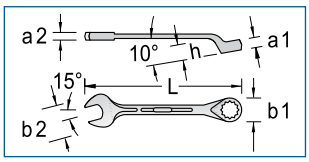


| mm | "AF | Whitw. |
|---|---|---|
| SW 5 – 80 | 1/4" – 3 1/4" | 1/8" – 3/4" |

## COMBINATION SPANNERS

### 1 B

**COMBINATION SPANNER with same size each end**
- Acc. to DIN 3113 Form B, ISO 3318, ISO 7738
- Ring 10° offset from shaft, extra strong rings but thin wall
- Sizes 5 and 5.5 with hexagon ring, up from size 6 with UD profile
- GEDORE vanadium steel 31CrV3, chrome-plated, polished rings
- * not standardised




mm

| Code | No. | * | (*) | mm | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | h | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6000240 | **1 B 5** | | | 5.0 | 100 | 5.0 | 3.4 | 8.5 | 14.5 | 9.5 | 15 | 10 |
| 6000320 | **1 B 5,5** | | | 5.5 | 100 | 5.0 | 3.4 | 9.2 | 14.5 | 9.5 | 15 | 10 |
| 6000400 | **1 B 6** | | | 6.0 | 100 | 5.0 | 3.4 | 9.8 | 15.5 | 9.5 | 16 | 10 |
| 6000590 | **1 B 7** | | | 7.0 | 112 | 6.0 | 3.7 | 11.2 | 17.2 | 10.5 | 28 | 10 |
| 6000670 | **1 B 8** | | | 8.0 | 125 | 6.5 | 4.0 | 12.5 | 19.2 | 11.5 | 26 | 10 |
| 6000750 | **1 B 9** | | | 9.0 | 138 | 7.5 | 4.3 | 14.0 | 21.2 | 12.5 | 35 | 10 |
| 6000830 | **1 B 10** | | | 10.0 | 148 | 8.2 | 4.7 | 15.5 | 23.5 | 14.0 | 42 | 10 |
| 6000910 | **1 B 11** | | | 11.0 | 158 | 9.0 | 5.0 | 16.8 | 25.5 | 15.0 | 50 | 10 |
| 6001050 | **1 B 12** | | | 12.0 | 168 | 9.5 | 5.3 | 18.2 | 27.2 | 16.0 | 64 | 10 |
| 6001130 | **1 B 13** | | | 13.0 | 185 | 10.2 | 6.0 | 19.5 | 30.0 | 16.5 | 80 | 10 |
| 6001210 | **1 B 14** | | | 14.0 | 198 | 11.0 | 6.3 | 21.0 | 32.0 | 17.5 | 91 | 10 |
| 6001480 | **1 B 15** | | | 15.0 | 210 | 11.5 | 6.7 | 22.2 | 34.0 | 19.0 | 139 | 10 |
| 6001560 | **1 B 16** | | | 16.0 | 220 | 12.0 | 7.0 | 23.5 | 36.0 | 20.0 | 128 | 10 |
| 6001640 | **1 B 17** | | | 17.0 | 232 | 12.5 | 7.5 | 25.0 | 38.0 | 21.0 | 153 | 10 |
| 6001720 | **1 B 18** | | | 18.0 | 245 | 13.2 | 7.7 | 26.5 | 40.0 | 22.5 | 183 | 10 |
| 6001800 | **1 B 19** | | | 19.0 | 258 | 13.5 | 8.0 | 27.8 | 42.0 | 23.5 | 210 | 10 |
| 6001990 | **1 B 20** | * | | 20.0 | 270 | 14.5 | 8.5 | 29.2 | 44.0 | 24.5 | 245 | 5 |
| 6002020 | **1 B 21** | | | 21.0 | 280 | 14.5 | 8.7 | 30.5 | 45.8 | 26.0 | 281 | 5 |
| 6002100 | **1 B 22** | | | 22.0 | 292 | 14.5 | 9.0 | 32.0 | 48.2 | 27.0 | 294 | 10 |
| 6002290 | **1 B 23** | * | | 23.0 | 305 | 15.5 | 9.3 | 33.5 | 49.8 | 28.0 | 350 | 5 |
| 6002370 | **1 B 24** | | | 24.0 | 318 | 15.5 | 9.5 | 35.0 | 52.0 | 29.5 | 372 | 10 |
| 6002450 | **1 B 25** | * | | 25.0 | 328 | 17.5 | 10.0 | 36.2 | 54.2 | 31.0 | 431 | 5 |

| Code | No. | * | (*) | mm | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | h | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6002530 | **1 B 26** | * | | 26.0 | 340 | 17.5 | 10.3 | 37.5 | 56.0 | 32.0 | 481 | 5 |
| 6002610 | **1 B 27** | | | 27.0 | 352 | 17.5 | 10.5 | 39.0 | 58.0 | 33.0 | 514 | 10 |
| 6002880 | **1 B 28** | * | | 28.0 | 370 | 19.5 | 11.0 | 40.2 | 60.0 | 34.5 | 578 | 1 |
| 6002960 | **1 B 29** | * | | 29.0 | 370 | 19.5 | 11.0 | 41.8 | 61.8 | 34.5 | 546 | 1 |
| 6003180 | **1 B 30** | | | 30.0 | 390 | 19.5 | 11.2 | 43.2 | 63.5 | 36.0 | 672 | 1 |
| 6003260 | **1 B 32** | | | 32.0 | 412 | 20.5 | 11.8 | 46.0 | 68.0 | 39.0 | 684 | 1 |
| 6003340 | **1 B 33** | * | | 33.0 | 412 | 20.5 | 11.8 | 47.5 | 70.5 | 39.0 | 827 | 1 |
| 6004150 | **1 B 34** | | | 34.0 | 412 | 20.5 | 11.8 | 49.0 | 70.5 | 39.0 | 784 | 1 |
| 6003420 | **1 B 36** | | | 36.0 | 460 | 23.5 | 12.8 | 52.2 | 76.2 | 43.0 | 1147 | 1 |
| 6003500 | **1 B 38** | * | | 38.0 | 460 | 24.2 | 13.2 | 56.0 | 79.2 | 43.0 | 1081 | 1 |
| 2006588 | **1 B 39** | * | (*) | 39.0 | 460 | 24.2 | 13.2 | 56.0 | 79.2 | 43.0 | 1120 | 1 |
| 6003690 | **1 B 41** | | | 41.0 | 520 | 25.5 | 14.0 | 60.2 | 85.0 | 49.0 | 1452 | 1 |
| 6003770 | **1 B 46** | | | 46.0 | 550 | 27.5 | 15.0 | 68.0 | 95.5 | 53.0 | 1893 | 1 |
| 2316358 | **1 B 48** | * | (*) | 48.0 | 520 | 24.0 | 15.0 | 69.0 | 95.0 | | 1790 | 1 |
| 6003850 | **1 B 50** | | | 50.0 | 580 | 29.5 | 16.0 | 74.0 | 103.0 | 57.0 | 2268 | 1 |
| 6003930 | **1 B 55** | | | 55.0 | 620 | 30.5 | 17.0 | 82.0 | 112.5 | 62.0 | 2870 | 1 |
| 2316366 | **1 B 58** | * | (*) | 58.0 | 610 | 28.0 | 18.0 | 84.5 | 113.0 | | 3100 | 1 |
| 6004070 | **1 B 60** | | | 60.0 | 660 | 32.0 | 18.0 | 90.0 | 121.0 | 67.0 | 3600 | 1 |
| 6004660 | **1 B 65** | * | | 65.0 | 710 | 33.0 | 22.0 | 98.0 | 133.0 | 49.5 | 4415 | 1 |
| 6004740 | **1 B 70** | * | | 70.0 | 760 | 35.0 | 24.0 | 105.0 | 143.0 | 53.5 | 5625 | 1 |
| 6004820 | **1 B 75** | * | | 75.0 | 810 | 38.0 | 26.0 | 110.0 | 153.0 | 57.5 | 6545 | 1 |
| 6004900 | **1 B 80** | * | | 80.0 | 860 | 41.0 | 28.0 | 119.0 | 163.0 | 63.5 | 8790 | 1 |



Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

## 1 B

"AF

| Code | No. | (*) | "AF | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | h | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6005120 | **1 B 1/4AF** | | 1/4 | 100 | 5.0 | 3.4 | 10.2 | 16.2 | 9.5 | 16 | 5 |
| 6005200 | **1 B 5/16AF** | | 5/16 | 125 | 6.5 | 4.0 | 12.5 | 19.2 | 11.5 | 27 | 5 |
| 6005390 | **1 B 3/8AF** | | 3/8 | 148 | 8.2 | 4.7 | 14.8 | 22.2 | 14.0 | 45 | 5 |
| 6005470 | **1 B 7/16AF** | | 7/16 | 158 | 9.0 | 5.0 | 17.0 | 25.8 | 15.0 | 53 | 5 |
| 6005550 | **1 B 1/2AF** | | 1/2 | 185 | 10.2 | 6.0 | 19.2 | 29.2 | 16.5 | 85 | 5 |
| 6005630 | **1 B 9/16AF** | | 9/16 | 198 | 11.0 | 6.3 | 21.5 | 32.0 | 17.5 | 99 | 5 |
| 6005710 | **1 B 5/8AF** | | 5/8 | 220 | 12.0 | 7.0 | 23.5 | 36.0 | 20.0 | 136 | 5 |
| 6005980 | **1 B 11/16AF** | | 11/16 | 245 | 13.2 | 7.7 | 25.8 | 40.0 | 22.5 | 192 | 5 |
| 6006010 | **1 B 3/4AF** | | 3/4 | 258 | 13.5 | 8.0 | 27.8 | 42.0 | 23.5 | 209 | 5 |
| 6006280 | **1 B 13/16AF** | | 13/16 | 280 | 14.5 | 8.7 | 30.2 | 45.8 | 26.0 | 269 | 5 |
| 6006360 | **1 B 7/8AF** | | 7/8 | 292 | 14.5 | 9.0 | 32.5 | 48.2 | 27.0 | 308 | 5 |
| 6006440 | **1 B 15/16AF** | | 15/16 | 318 | 15.5 | 9.5 | 34.8 | 52.0 | 29.5 | 403 | 5 |
| 6006520 | **1 B 1AF** | | 1 | 340 | 17.5 | 10.3 | 36.8 | 55.2 | 32.0 | 473 | 5 |
| 6006600 | **1 B 1.1/16AF** | | 1.1/16 | 352 | 17.5 | 10.5 | 39.0 | 58.0 | 33.0 | 559 | 5 |
| 6006790 | **1 B 1.1/8AF** | | 1.1/8 | 370 | 19.5 | 11.0 | 41.0 | 61.8 | 34.5 | 587 | 5 |
| 6006870 | **1 B 1.1/4AF** | | 1.1/4 | 412 | 20.5 | 11.8 | 45.8 | 70.5 | 39.0 | 861 | 5 |
| 6006950 | **1 B 1.5/16AF** | | 1.5/16 | 412 | 20.5 | 11.8 | 48.5 | 70.5 | 39.0 | 789 | 1 |
| 6007090 | **1 B 1.3/8AF** | | 1.3/8 | 460 | 23.5 | 12.8 | 51.5 | 76.2 | 43.0 | 1099 | 1 |
| 6007170 | **1 B 1.7/16AF** | | 1.7/16 | 460 | 23.5 | 12.8 | 53.0 | 76.2 | 43.0 | 1085 | 1 |
| 6007250 | **1 B 1.1/2AF** | | 1.1/2 | 460 | 24.2 | 13.2 | 56.0 | 79.2 | 43.0 | 1113 | 1 |
| 2316390 | **1 B 1.9/16AF** | (*) | 1.9/16 | 470 | 22.0 | 13.5 | 62.0 | 85.0 | | 1240 | 1 |

| Code | No. | (*) | "AF | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | h | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6007330 | **1 B 1.5/8AF** | | 1.5/8 | 520 | 25.5 | 14.0 | 60.5 | 85.0 | 49.0 | 1457 | 1 |
| 2316374 | **1 B 1.11/16AF** | (*) | 1.11/16 | 470 | 22.0 | 13.5 | 62.0 | 85.0 | | 1380 | 1 |
| 6007410 | **1 B 1.3/4AF** | | 1.3/4 | 550 | 27.5 | 15.0 | 66.0 | 95.5 | 53.0 | 1896 | 1 |
| 6007680 | **1 B 1.13/16AF** | | 1.13/16 | 550 | 27.5 | 15.0 | 68.0 | 95.5 | 53.0 | 1870 | 1 |
| 6007760 | **1 B 1.7/8AF** | | 1.7/8 | 550 | 27.5 | 15.0 | 69.0 | 95.5 | 53.0 | 1821 | 1 |
| 2316382 | **1 B 1.15/16AF** | (*) | 1.15/16 | 560 | 26.0 | 16.5 | 75.0 | 103.0 | | 2210 | 1 |
| 6007840 | **1 B 2AF** | | 2 | 580 | 29.5 | 16.0 | 74.5 | 103.0 | 57.0 | 2280 | 1 |
| 6007920 | **1 B 2.1/16AF** | | 2.1/16 | 580 | 29.5 | 16.0 | 75.0 | 103.0 | 57.0 | 2250 | 1 |
| 2316412 | **1 B 2.1/8AF** | (*) | 2.1/8 | 610 | 28.0 | 84.5 | 113.0 | | | 2870 | 1 |
| 6008060 | **1 B 2.3/16AF** | | 2.3/16 | 620 | 30.5 | 17.0 | 82.0 | 112.5 | 62.0 | 2855 | 1 |
| 6008140 | **1 B 2.1/4AF** | | 2.1/4 | 620 | 30.5 | 17.0 | 83.0 | 112.5 | 62.0 | 2820 | 1 |
| 2316439 | **1 B 2.5/16AF** | (*) | 2.5/16 | 660 | 31.0 | 20.0 | 90.0 | 123.0 | | 3440 | 1 |
| 6008220 | **1 B 2.3/8AF** | | 2.3/8 | 660 | 32.0 | 18.0 | 90.0 | 121.0 | 67.0 | 3510 | 1 |
| 6008300 | **1 B 2.7/16AF** | | 2.7/16 | 660 | 32.0 | 18.0 | 91.0 | 121.0 | 67.0 | 3630 | 1 |
| 2316404 | **1 B 2.1/2AF** | (*) | 2.1/2 | 710 | 33.0 | 22.0 | 98.0 | 133.0 | | 4550 | 1 |
| 2316447 | **1 B 2.9/16AF** | (*) | 2.9/16 | 710 | 33.0 | 22.0 | 98.0 | 133.0 | | 4550 | 1 |
| 2316420 | **1 B 2.3/4AF** | (*) | 2.3/4 | 760 | 35.0 | 24.0 | 105.0 | 143.0 | | 5610 | 1 |
| 2316455 | **1 B 3AF** | (*) | 3 | 810 | 38.0 | 26.0 | 110.0 | 153.0 | | 6650 | 1 |
| 2316471 | **1 B 3.1/8AF** | (*) | 3.1/8 | 860 | 41.0 | 28.0 | 119.0 | 163.0 | | 8400 | 1 |
| 2316463 | **1 B 3.1/4AF** | (*) | 3.1/4 | 860 | 41.0 | 28.0 | 19.0 | 163.0 | | 8400 | 1 |

## 1 B

Whitw.

| Code | No. | Whitw. | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | h | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6009540 | **1 B 1/8W** | 1/8 | 138 | 7.5 | 4.3 | 13.5 | 21.2 | 12.5 | 35 | 5 |
| 6009620 | **1 B 3/16W** | 3/16 | 158 | 9.0 | 5.0 | 17.5 | 26.0 | 15.0 | 53 | 5 |
| 6009700 | **1 B 1/4W** | 1/4 | 185 | 10.2 | 6.0 | 20.0 | 30.0 | 16.5 | 82 | 5 |
| 6009890 | **1 B 5/16W** | 5/16 | 210 | 11.5 | 6.7 | 22.5 | 34.0 | 19.0 | 115 | 5 |
| 6009970 | **1 B 3/8W** | 3/8 | 245 | 13.2 | 7.7 | 26.5 | 40.0 | 22.5 | 190 | 5 |
| 6010040 | **1 B 7/16W** | 7/16 | 280 | 14.5 | 8.7 | 30.2 | 45.8 | 26.0 | 274 | 5 |

| Code | No. | Whitw. | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | h | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6010120 | **1 B 1/2W** | 1/2 | 305 | 15.5 | 9.3 | 34.0 | 50.5 | 28.0 | 343 | 5 |
| 6010200 | **1 B 9/16W** | 9/16 | 340 | 17.5 | 10.3 | 37.0 | 56.0 | 32.0 | 477 | 10 |
| 6010390 | **1 B 5/8W** | 5/8 | 370 | 19.5 | 11.0 | 40.2 | 61.8 | 34.5 | 573 | 1 |
| 6010470 | **1 B 11/16W** | 11/16 | 390 | 19.5 | 11.2 | 43.8 | 65.2 | 36.0 | 713 | 1 |
| 6010550 | **1 B 3/4W** | 3/4 | 412 | 20.5 | 11.8 | 48.0 | 70.5 | 39.0 | 803 | 1 |

## 1 B

### COMBINATION SPANNER SET

- Selection of sizes most in use
- Acc. to DIN 3113 Form B, ISO 3318, ISO 7738
- GEDORE vanadium steel 31CrV3, chrome-plated, polished rings
- With same size each end, ring 10° offset from shaft, with UD profile
- WVH = Set in tool holder

WVH 1B-080

mm

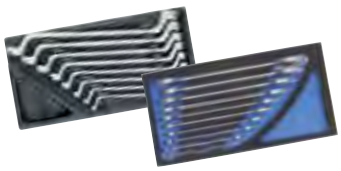
| Code | No. | Contents | | |
|---|---|---|---|---|
| 6011870 | **1 B-08** | 10 12 13 14 17 19 22 24 | 2600 | 1 |
| 6011950 | **1 B-080** | 8 9 10 11 13 14 17 19 | 1000 | 1 |
| 1751212 | **WVH 1 B-080** | 8 9 10 11 13 14 17 19 | 830 | 1 |
| 6012250 | **1 B-011** | 8 9 10 11 12 13 14 15 17 19 22 | 1190 | 1 |
| 6013140 | **1 B-110** | 7 8 10 11 12 13 14 16 17 18 19 | 1050 | 1 |
| 6012170 | **1 B-012** | 10 11 12 13 14 17 19 22 24 27 30 32 | 3390 | 1 |
| 6012840 | **1 B-0112** | 6 7 8 9 10 11 12 13 14 15 17 19 | 925 | 1 |
| 6012410 | **1 B-015** | 8 9 10 11 12 13 14 15 16 17 18 19 21 22 23 | 2060 | 1 |
| 6000160 | **1 B-0115** | 6 7 8 9 10 11 12 13 17 19 22 24 27 30 32 | 3385 | 1 |

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6012680 | **1 B-017** | 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | 2300 | 1 |
| 6013060 | **1 B-020** | 8 9 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 30 32 | 5500 | 1 |
| 6012920 | **1 B-026** | 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 32 | 7500 | 1 |

"AF

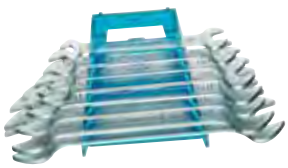
| Code | No. | Contents | | |
|---|---|---|---|---|
| 6013300 | **1 B-08 A** | 3/8 7/16 1/2 9/16 5/8 3/4 7/8 1" | 1410 | 1 |
| 6013650 | **1 B-014 A** | 5/16 3/8 7/16 1/2 9/16 5/8 11/16 3/4 13/16 7/8 1 1.1/16 1.1/8 1.1/4" | 3488 | 1 |


1500 ES / CT



98 – 115

VH 1



52

637

167

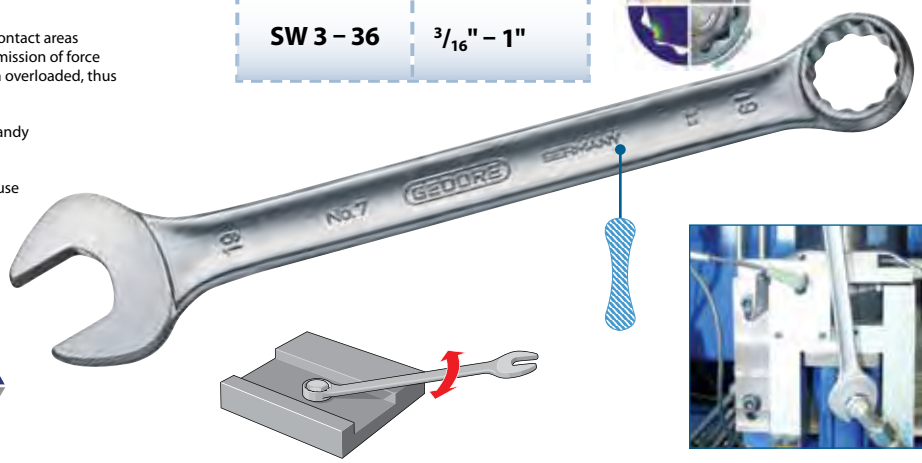

Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

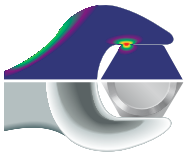
## No. 7 "Slim line"

- Carefully forged and professionally machined:
- Slim jaw and jaw walls make this spanner lighter overall
- Jaw: ground precisely to exact nominal size for optimum contact areas
- Ring: 15° offset from shaft, with UD profile for gentle transmission of force
- High bending strength - does not fracture or splinter when overloaded, thus minimising the risk of injury
- Overloading indicated by deformation
- Secure grip thanks to hollow shaft - very ergonomic and handy
- Non-glare matt chrome-plated finish
- Designed for universal use
- Top-grade industrial quality for the hardest of continuous use

**Spanner sizes:**
- Metric dimensions: 3 - 36 mm
- Imperial dimensions: 3/16" - 1"

| mm | "AF |
|---|---|
| SW 3 – 36 | $^3/_{16}$" – 1" |

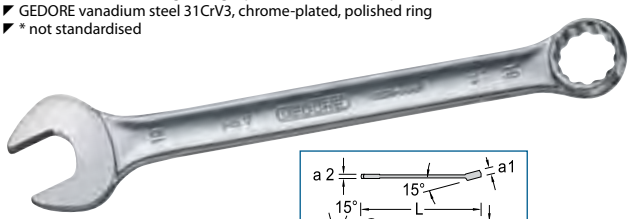


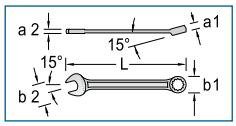



## 7

### COMBINATION SPANNER with same size each end

- Acc. to DIN 3113 Form A, ISO 3318, ISO 7738
- Ring 15° offset from shaft, shaft in girder pattern
- Sizes 3 to 5.5 with hexagon ring, up from size 6 with UD profile
- GEDORE vanadium steel 31CrV3, chrome-plated, polished ring
- * not standardised






mm

| Code | No. | * | | mm | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6080680 | **7 3** | * | | 3.0 | 78 | 2.8 | 2.8 | 6.5 | 9.2 | 6 | 5 |
| 6080760 | **7 3,2** | * | | 3.2 | 78 | 2.8 | 2.8 | 6.5 | 9.2 | 6 | 5 |
| 6080840 | **7 3,5** | * | | 3.5 | 78 | 2.8 | 2.8 | 6.5 | 9.2 | 6 | 5 |
| 6080920 | **7 4** | * | | 4.0 | 85 | 3.2 | 3.2 | 7.7 | 11.8 | 10 | 5 |
| 6081060 | **7 4,5** | * | | 4.5 | 85 | 3.2 | 3.2 | 7.7 | 11.8 | 9 | 5 |
| 6081140 | **7 5** | * | | 5.0 | 92 | 3.6 | 3.6 | 9.7 | 13.2 | 11 | 10 |
| 6081220 | **7 5,5** | * | | 5.5 | 92 | 3.6 | 3.6 | 9.7 | 13.2 | 11 | 10 |
| 6089550 | **7 6** | | | 6.0 | 100 | 5.0 | 3.4 | 10.0 | 16.2 | 14 | 10 |
| 6089630 | **7 7** | | | 7.0 | 110 | 5.5 | 3.6 | 11.5 | 17.5 | 17 | 10 |
| 6089710 | **7 8** | | | 8.0 | 120 | 6.0 | 3.8 | 12.7 | 19.8 | 24 | 10 |
| 6089980 | **7 9** | | | 9.0 | 130 | 6.5 | 4.0 | 14.0 | 21.5 | 28 | 10 |
| 6090050 | **7 10** | | | 10.0 | 140 | 7.0 | 4.2 | 15.5 | 23.0 | 33 | 10 |
| 6090130 | **7 11** | | | 11.0 | 150 | 7.5 | 4.5 | 17.0 | 26.0 | 42 | 10 |
| 6090210 | **7 12** | | | 12.0 | 160 | 8.0 | 4.8 | 18.5 | 27.5 | 50 | 10 |
| 6090480 | **7 13** | | | 13.0 | 170 | 8.5 | 5.0 | 19.5 | 30.0 | 58 | 10 |
| 6090560 | **7 14** | | | 14.0 | 180 | 9.0 | 5.2 | 21.0 | 31.8 | 69 | 10 |
| 6090640 | **7 15** | | | 15.0 | 190 | 9.5 | 5.5 | 22.5 | 34.0 | 80 | 10 |
| 6091610 | **7 16** | | | 16.0 | 200 | 10.0 | 5.8 | 23.0 | 35.0 | 92 | 10 |
| 6090720 | **7 17** | | | 17.0 | 210 | 10.5 | 6.0 | 25.0 | 38.0 | 111 | 10 |
| 6091880 | **7 18** | | | 18.0 | 220 | 11.0 | 6.2 | 26.0 | 40.0 | 121 | 10 |
| 6090800 | **7 19** | | | 19.0 | 230 | 11.5 | 6.5 | 28.0 | 42.0 | 140 | 10 |
| 6091960 | **7 20** | * | | 20.0 | 240 | 12.0 | 6.8 | 29.0 | 44.2 | 170 | 10 |
| 6092180 | **7 21** | | | 21.0 | 252 | 12.5 | 7.0 | 30.0 | 45.5 | 182 | 10 |
| 6090990 | **7 22** | | | 22.0 | 262 | 13.0 | 7.2 | 32.0 | 48.0 | 200 | 10 |
| 6092260 | **7 23** | * | | 23.0 | 270 | 13.5 | 7.6 | 33.0 | 49.5 | 223 | 10 |
| 6091020 | **7 24** | | | 24.0 | 282 | 14.0 | 8.0 | 35.0 | 52.5 | 264 | 10 |
| 6092340 | **7 25** | * | | 25.0 | 290 | 14.5 | 8.2 | 36.0 | 54.5 | 295 | 10 |
| 6092420 | **7 26** | * | | 26.0 | 302 | 15.0 | 8.2 | 37.0 | 56.5 | 309 | 10 |
| 6091100 | **7 27** | | | 27.0 | 310 | 15.5 | 8.5 | 39.0 | 59.5 | 344 | 10 |
| 6092500 | **7 28** | * | | 28.0 | 320 | 16.0 | 8.8 | 40.0 | 60.0 | 375 | 10 |
| 6092690 | **7 29** | * | | 29.0 | 330 | 16.5 | 8.8 | 41.5 | 61.5 | 394 | 10 |
| 6091290 | **7 30** | | | 30.0 | 340 | 17.0 | 9.0 | 43.0 | 63.0 | 428 | 10 |
| 6091370 | **7 32** | | | 32.0 | 370 | 18.0 | 9.5 | 46.0 | 67.5 | 535 | 10 |
| 1827987 | **7 34** | | | 34.0 | 420 | 19.0 | 10.0 | 49.0 | 72.0 | 624 | 1 |
| 6089470 | **7 36** | | | 36.0 | 460 | 20.0 | 10.5 | 52.0 | 75.0 | 726 | 1 |

"AF

| Code | No. | "AF | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 1436767 | **7 3/16AF** | 3/16 | 85 | 3.2 | 3.2 | 7.7 | 11.8 | 10 | 10 |
| 1436775 | **7 7/32AF** | 7/32 | 92 | 3.6 | 3.6 | 9.7 | 13.2 | 11 | 10 |
| 6098700 | **7 1/4AF** | 1/4 | 100 | 5.0 | 3.4 | 10.0 | 16.2 | 13 | 10 |
| 6098890 | **7 5/16AF** | 5/16 | 120 | 6.0 | 3.8 | 12.7 | 19.8 | 24 | 10 |
| 6098970 | **7 11/32AF** | 11/32 | 130 | 6.5 | 4.0 | 14.0 | 21.5 | 26 | 10 |
| 6099190 | **7 3/8AF** | 3/8 | 140 | 7.0 | 4.2 | 15.5 | 23.0 | 38 | 10 |
| 6099270 | **7 7/16AF** | 7/16 | 150 | 7.5 | 4.5 | 17.0 | 26.0 | 41 | 10 |
| 6099430 | **7 1/2AF** | 1/2 | 170 | 8.5 | 5.0 | 19.5 | 30.0 | 56 | 10 |
| 6099510 | **7 9/16AF** | 9/16 | 180 | 9.0 | 5.2 | 21.0 | 31.8 | 63 | 10 |
| 6099780 | **7 5/8AF** | 5/8 | 200 | 10.0 | 5.8 | 23.0 | 35.0 | 104 | 10 |
| 6099860 | **7 11/16AF** | 11/16 | 220 | 11.0 | 6.2 | 26.0 | 40.0 | 122 | 10 |
| 6099940 | **7 3/4AF** | 3/4 | 230 | 11.5 | 6.5 | 28.0 | 42.0 | 148 | 10 |
| 6100030 | **7 13/16AF** | 13/16 | 252 | 12.5 | 7.0 | 30.0 | 45.5 | 187 | 10 |
| 6100110 | **7 7/8AF** | 7/8 | 262 | 13.0 | 7.2 | 32.0 | 48.0 | 192 | 10 |
| 6100380 | **7 15/16AF** | 15/16 | 282 | 14.0 | 8.0 | 34.0 | 52.5 | 296 | 10 |
| 6100460 | **7 1AF** | 1 | 302 | 15.0 | 8.2 | 36.0 | 56.5 | 287 | 10 |

## 7

### COMBINATION SPANNER SET

- Selection of sizes most in use
- Acc. to DIN 3113 Form A, ISO 3318, ISO 7738
- With same size each end
- Ring 15° offset from shaft, shaft in girder pattern
- GEDORE vanadium steel 31CrV3, chrome-plated, polished rings
- WVH = Set in tool holder

mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6092770 | **7-08** | 10 12 13 14 17 19 22 24 | 973 | 1 |
| 6092850 | **7-080** | 8 9 10 11 13 14 17 19 | 536 | 1 |
| 1751220 | **WVH 7-080** | 8 9 10 11 13 14 17 19 | 750 | 1 |
| 6093070 | **7-011** | 8 9 10 11 12 13 14 15 17 19 22 | 868 | 1 |
| 6096090 | **7-0110** | 7 8 10 11 12 13 14 16 17 18 19 | 782 | 1 |
| 6091530 | **7-0112** | 6 7 8 9 10 11 12 13 14 15 17 19 | 686 | 1 |
| 6093150 | **7-012** | 10 11 12 13 14 17 19 22 24 27 30 32 | 2700 | 1 |
| 2190788 | **7-013** | 5,5 6 7 8 9 10 11 12 13 14 15 17 19 | 712 | 1 |
| 6093580 | **7-017** | 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | 1465 | 1 |
| 6093660 | **7-020** | 8 9 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 30 32 | 3360 | 1 |
| 6093740 | **7-026** | 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 32 | 4665 | 1 |

"AF

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6091450 | **7-08 A** | 3/8 7/16 1/2 9/16 5/8 3/4 7/8 1" | 1047 | 1 |



Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

## XL "Long and extra strong"

- Carefully forged and professionally machined:
- Slim jaw and jaw walls make this spanner lighter overall
- Jaw: ground precisely to exact nominal size for optimum contact areas
- Ring: 15° offset from shaft, with UD profile for gentle transmission of force
- Extra-long shaft for deep applications
- High bending strength - does not fracture or splinter when overloaded, thus minimising the risk of injury
- Overloading indicated by deformation
- Secure grip thanks to hollow shaft - very ergonomic and handy
- Non-glare matt chrome-plated finish
- Ideally suited to extremely tight, high-torque screwed joints
- Top-grade industrial quality for the hardest of continuous use

**Spanner sizes:**
- Metric dimensions: 7 - 46 mm

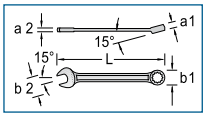
mm

SW 7 – 46

## 7 XL

### COMBINATION SPANNER with same size each end, extra long

- Similar to DIN 3113
- Ring 15° offset from shaft, with UD profile
- Shaft made in girder pattern
- GEDORE vanadium steel 31CrV3, chrome-plated



mm

| Code | No. | mm | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 1394916 | **7 XL 7** | 7 | 160 | 6.5 | 4.0 | 12.5 | 18.5 | 31 | 10 |
| 6080090 | **7 XL 8** | 8 | 170 | 7.0 | 4.5 | 13.5 | 20.8 | 42 | 10 |
| 6080170 | **7 XL 9** | 9 | 180 | 7.5 | 4.5 | 14.5 | 22.5 | 54 | 10 |
| 6097300 | **7 XL 10** | 10 | 190 | 8.5 | 5.0 | 16.0 | 24.0 | 11 | 10 |
| 6097490 | **7 XL 11** | 11 | 200 | 9.0 | 5.5 | 17.5 | 27.0 | 76 | 10 |
| 6100540 | **7 XL 12** | 12 | 210 | 10.0 | 5.5 | 19.0 | 28.5 | 86 | 10 |
| 6100620 | **7 XL 13** | 13 | 225 | 10.5 | 6.0 | 20.0 | 31.0 | 102 | 10 |
| 6100700 | **7 XL 14** | 14 | 235 | 10.8 | 6.5 | 22.0 | 32.8 | 120 | 10 |
| 6100890 | **7 XL 15** | 15 | 250 | 11.2 | 7.0 | 23.0 | 35.0 | 147 | 10 |
| 6080250 | **7 XL 16** | 16 | 265 | 11.8 | 7.5 | 24.8 | 36.0 | 171 | 10 |
| 6100970 | **7 XL 17** | 17 | 280 | 12.2 | 8.5 | 26.0 | 39.0 | 196 | 10 |
| 6080330 | **7 XL 18** | 18 | 295 | 13.2 | 8.5 | 27.8 | 41.0 | 233 | 10 |
| 6101000 | **7 XL 19** | 19 | 310 | 14.2 | 9.5 | 29.0 | 43.0 | 276 | 10 |

| Code | No. | mm | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 6080410 | **7 XL 21** | 21 | 340 | 14.2 | 9.5 | 32.5 | 46.5 | 352 | 10 |
| 6101190 | **7 XL 22** | 22 | 350 | 16.2 | 11.0 | 33.5 | 49.0 | 392 | 10 |
| 1436783 | **7 XL 23** | 23 | 375 | 17.2 | 11.5 | 35.0 | 50.0 | 456 | 10 |
| 6101270 | **7 XL 24** | 24 | 400 | 18.2 | 12.0 | 36.5 | 53.5 | 521 | 10 |
| 6101350 | **7 XL 27** | 27 | 450 | 20.2 | 13.0 | 40.5 | 60.5 | 711 | 10 |
| 6101780 | **7 XL 30** | 30 | 480 | 21.2 | 14.0 | 44.5 | 63.0 | 839 | 1 |
| 6101430 | **7 XL 32** | 32 | 500 | 22.2 | 14.0 | 47.5 | 69.0 | 956 | 1 |
| 6101860 | **7 XL 33** | 33 | 520 | 23.2 | 15.0 | 49.5 | 70.5 | 1117 | 1 |
| 6101940 | **7 XL 34** | 34 | 520 | 23.2 | 15.0 | 49.5 | 70.5 | 1088 | 1 |
| 6101510 | **7 XL 36** | 36 | 550 | 24.2 | 15.0 | 53.0 | 76.0 | 1248 | 1 |
| 6102080 | **7 XL 41** | 41 | 600 | 26.0 | 16.0 | 62.0 | 84.5 | 2000 | 1 |
| 6102160 | **7 XL 46** | 46 | 640 | 28.0 | 17.0 | 70.0 | 96.0 | 2278 | 1 |

## 7 XL

### COMBINATION SPANNER SET extra long

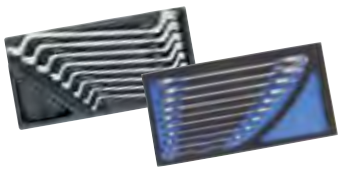
- Best selling sizes
- Similar to DIN 3113
- With same size each end, ring offset at 15°, with UD profile
- Shaft made in girder pattern
- GEDORE vanadium steel 31CrV3, chrome-plated

mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6104880 | **7 XL-080** | 8 9 10 11 13 14 17 19 | 962 | 1 |
| 6104960 | **7 XL-0111** | 8 10 11 12 13 14 16 17 18 19 22 | 1794 | 1 |
| 6095950 | **7 XL-012** | 10 11 12 13 14 17 19 22 24 27 30 32 | 4410 | 1 |

## Optional accessories

**1500 ES / CT** 98 – 115



**636** 167

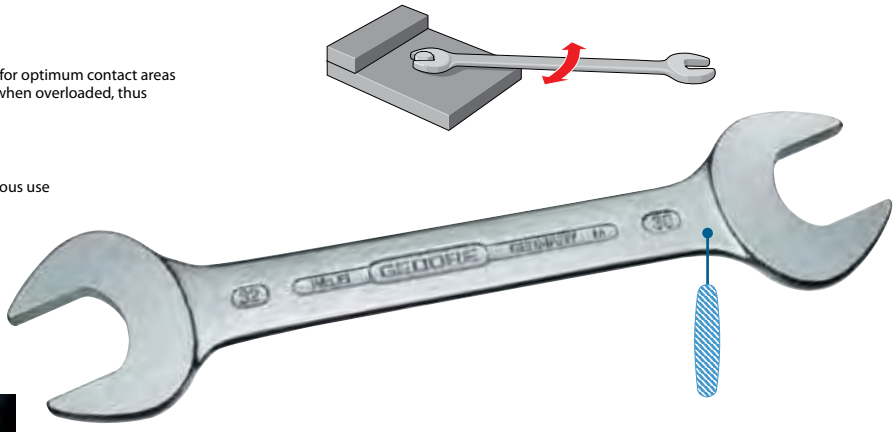
**920** 541

Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

## 6 "Strong and accurate"

- Carefully forged and professionally machined:
- Powerful jaws: ground precisely to exact nominal size for optimum contact areas
- High bending strength - does not fracture or splinter when overloaded, thus minimising the risk of injury
- Overloading indicated by deformation
- Secure grip thanks to slim profile shaft
- Non-glare matt chrome-plated finish
- Top-grade industrial quality for the hardest of continuous use

**Spanner sizes:**
- Metric dimensions: 4x4.5 - 55x60 mm
- Imperial dimensions: 1/4x5/16" - 2.1/4x2.7/16"
- Whitworth dimensions: 1/8x3/16W - 7/8x1W



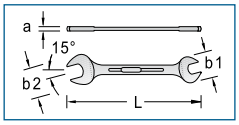
| mm | "AF | Whitw. |
|---|---|---|
| 4 x 4.5 | 1/4" x 5/16" | 1/8" x 3/16" |
| — | — | — |
| 55 x 60 | 2 1/4" x 2 7/16" | 7/8" x 1" |

6

### DOUBLE OPEN ENDED SPANNER

- Acc. to DIN 3110, ISO 3318, ISO 1085, ISO 10102
- Slim pattern, oval shaft
- GEDORE vanadium steel 31CrV3, heads finely polished, chrome-plated
- * not standardised

mm



| Code | No. | * | (*) | mm | L | a | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6063400 | **6 4x4,5** | * | | 4 x 4,5 | 100 | 3.4 | 13.0 | 14.0 | 14 | 10 |
| 6063590 | **6 4x5** | * | | 4 x 5 | 100 | 3.4 | 13.0 | 14.0 | 13 | 10 |
| 6063670 | **6 5x5,5** | * | | 5 x 5,5 | 100 | 3.4 | 14.5 | 16.0 | 16 | 10 |
| 6063750 | **6 5,5x7** | * | | 5,5 x 7 | 122 | 3.5 | 16.0 | 17.5 | 23 | 10 |
| 6063830 | **6 6x7** | | | 6 x 7 | 122 | 3.5 | 16.5 | 17.5 | 22 | 10 |
| 6063910 | **6 6x8** | * | | 6 x 8 | 122 | 3.5 | 16.5 | 20.0 | 25 | 10 |
| 6064050 | **6 7x8** | | | 7 x 8 | 140 | 3.8 | 17.5 | 20.0 | 34 | 10 |
| 6064130 | **6 7x9** | * | | 7 x 9 | 140 | 3.8 | 17.5 | 22.0 | 35 | 10 |
| 6064210 | **6 8x9** | | | 8 x 9 | 140 | 3.8 | 20.0 | 22.0 | 35 | 10 |
| 6064480 | **6 8x10** | | | 8 x 10 | 140 | 4.0 | 20.0 | 23.5 | 36 | 10 |
| 6064560 | **6 9x10** | * | | 9 x 10 | 157 | 4.5 | 22.0 | 23.5 | 46 | 10 |
| 6064640 | **6 9x11** | * | | 9 x 11 | 157 | 4.5 | 22.0 | 26.5 | 50 | 10 |
| 6064720 | **6 10x11** | | | 10 x 11 | 157 | 4.5 | 23.5 | 26.5 | 50 | 10 |
| 6064800 | **6 10x12** | * | | 10 x 12 | 157 | 4.5 | 23.5 | 28.0 | 51 | 10 |
| 6064990 | **6 10x13** | | | 10 x 13 | 172 | 5.0 | 23.5 | 30.5 | 65 | 10 |
| 6065020 | **6 10x14** | * | | 10 x 14 | 172 | 5.0 | 23.5 | 32.0 | 67 | 10 |
| 6065100 | **6 11x13** | | | 11 x 13 | 172 | 5.0 | 26.5 | 30.5 | 68 | 10 |
| 6065290 | **6 11x14** | * | | 11 x 14 | 172 | 5.0 | 26.5 | 32.0 | 72 | 10 |
| 6065370 | **6 12x13** | | | 12 x 13 | 172 | 5.0 | 28.0 | 30.5 | 69 | 10 |
| 6065450 | **6 12x14** | | | 12 x 14 | 172 | 5.0 | 28.0 | 32.0 | 76 | 10 |
| 6065530 | **6 13x14** | | | 13 x 14 | 178 | 5.0 | 30.5 | 32.0 | 81 | 10 |
| 6065610 | **6 13x15** | | | 13 x 15 | 188 | 5.5 | 30.5 | 34.5 | 98 | 10 |
| 6068980 | **6 13x16** | | | 13 x 16 | 190 | 5.5 | 30.5 | 35.5 | 98 | 10 |
| 6065880 | **6 14x15** | | | 14 x 15 | 188 | 5.5 | 32.0 | 34.5 | 95 | 10 |
| 6065960 | **6 13x17** | | | 13 x 17 | 205 | 6.0 | 30.5 | 38.5 | 122 | 10 |
| 6066180 | **6 14x17** | | | 14 x 17 | 205 | 6.0 | 32.0 | 38.5 | 119 | 10 |
| 6066260 | **6 16x17** | | | 16 x 17 | 205 | 6.0 | 35.5 | 38.5 | 128 | 10 |
| 6066340 | **6 16x18** | | | 16 x 18 | 205 | 6.0 | 35.5 | 40.5 | 129 | 10 |

| Code | No. | * | (*) | mm | L | a | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6066420 | **6 17x19** | | | 17 x 19 | 222 | 6.5 | 38.5 | 43.0 | 168 | 10 |
| 6066500 | **6 18x19** | | | 18 x 19 | 222 | 6.5 | 40.5 | 43.0 | 174 | 10 |
| 6069360 | **6 18x21** | | | 18 x 21 | 236 | 7.0 | 40.5 | 46.0 | 196 | 10 |
| 6066690 | **6 17x22** | * | | 17 x 22 | 236 | 7.0 | 38.5 | 48.5 | 205 | 10 |
| 6066770 | **6 19x22** | | | 19 x 22 | 236 | 7.0 | 43.0 | 48.5 | 219 | 10 |
| 6066850 | **6 20x22** | * | | 20 x 22 | 236 | 7.0 | 44.5 | 48.5 | 213 | 10 |
| 6066930 | **6 19x24** | | | 19 x 24 | 250 | 7.5 | 43.0 | 53.5 | 256 | 10 |
| 6067070 | **6 21x23** | * | | 21 x 23 | 247 | 7.5 | 46.0 | 50.0 | 245 | 10 |
| 6069440 | **6 21x24** | | | 21 x 24 | 250 | 7.5 | 46.0 | 53.5 | 268 | 10 |
| 6067150 | **6 22x24** | | | 22 x 24 | 250 | 7.5 | 48.5 | 53.5 | 260 | 10 |
| 6067230 | **6 22x27** | * | | 22 x 27 | 266 | 8.0 | 48.5 | 60.0 | 336 | 10 |
| 6067310 | **6 24x26** | * | | 24 x 26 | 266 | 8.0 | 53.5 | 56.5 | 321 | 10 |
| 6067580 | **6 24x27** | | | 24 x 27 | 266 | 8.0 | 53.5 | 60.0 | 337 | 10 |
| 6067660 | **6 24x30** | | | 24 x 30 | 280 | 8.5 | 53.5 | 63.5 | 390 | 10 |
| 6067740 | **6 25x28** | * | | 25 x 28 | 280 | 8.5 | 55.0 | 60.0 | 378 | 10 |
| 6067820 | **6 27x29** | * | | 27 x 29 | 302 | 9.0 | 60.0 | 63.5 | 456 | 10 |
| 6067900 | **6 27x30** | | | 27 x 30 | 302 | 9.0 | 60.0 | 63.5 | 466 | 10 |
| 6068040 | **6 27x32** | | | 27 x 32 | 302 | 9.0 | 60.0 | 68.0 | 487 | 10 |
| 6068120 | **6 30x32** | | | 30 x 32 | 302 | 9.0 | 63.5 | 68.0 | 504 | 10 |
| 6069520 | **6 30x34** | | | 30 x 34 | 302 | 9.0 | 63.5 | 72.0 | 503 | 10 |
| 6068200 | **6 30x36** | | | 30 x 36 | 328 | 9.4 | 63.5 | 76.0 | 677 | 1 |
| 6068390 | **6 32x36** | | | 32 x 36 | 328 | 9.4 | 68.0 | 76.0 | 594 | 1 |
| 6069600 | **6 34x36** | | | 34 x 36 | 328 | 9.4 | 71.0 | 75.0 | 624 | 1 |
| 6068470 | **6 36x41** | | | 36 x 41 | 360 | 10.0 | 76.0 | 84.5 | 770 | 1 |
| 6068550 | **6 38x42** | * | | 38 x 42 | 360 | 10.0 | 77.0 | 86.0 | 784 | 1 |
| 6068630 | **6 41x46** | | | 41 x 46 | 400 | 10.7 | 86.5 | 95.5 | 1104 | 1 |
| 6068710 | **6 46x50** | | | 46 x 50 | 450 | 11.6 | 95.5 | 102.0 | 1445 | 1 |
| 2312107 | **6 55x60** | * | (*) | 55 x 60 | 560 | 18.0 | 113.0 | 123.0 | 3160 | 1 |



Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

## 6

### "AF

| Code | No. | (*) | "AF | L | a | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 6070020 | **6 1/4x5/16AF** | | 1/4 x 5/16 | 122 | 3.7 | 17.5 | 20.0 | 24 | 10 |
| 6070100 | **6 5/16x3/8AF** | | 5/16 x 3/8 | 140 | 4.0 | 20.0 | 23.5 | 35 | 10 |
| 6060060 | **6 5/16x11/32AF** | | 5/16 x 11/32 | 140 | 4.0 | 20.5 | 22.5 | 34 | 10 |
| 6070290 | **6 3/8x7/16AF** | | 3/8 x 7/16 | 157 | 4.5 | 23.5 | 26.5 | 47 | 10 |
| 6070370 | **6 7/16x1/2AF** | | 7/16 x 1/2 | 172 | 5.0 | 26.5 | 30.0 | 65 | 10 |
| 6070450 | **6 1/2x9/16AF** | | 1/2 x 9/16 | 190 | 5.5 | 30.0 | 33.0 | 91 | 10 |
| 6070530 | **6 9/16x5/8AF** | | 9/16 x 5/8 | 190 | 5.5 | 33.0 | 36.0 | 92 | 10 |
| 6070610 | **6 19/32x11/16AF** | | 19/32 x 11/16 | 205 | 6.0 | 34.5 | 39.5 | 130 | 10 |
| 6070880 | **6 5/8x11/16AF** | | 5/8 x 11/16 | 205 | 6.0 | 36.0 | 39.5 | 124 | 10 |
| 6070960 | **6 5/8x3/4AF** | | 5/8 x 3/4 | 222 | 6.5 | 36.0 | 42.5 | 152 | 10 |
| 6071180 | **6 11/16x3/4AF** | | 11/16 x 3/4 | 222 | 6.5 | 39.5 | 42.5 | 165 | 10 |
| 6071260 | **6 3/4x25/32AF** | | 3/4 x 25/32 | 222 | 6.5 | 42.5 | 43.5 | 189 | 10 |
| 6071340 | **6 3/4x7/8AF** | | 3/4 x 7/8 | 236 | 7.0 | 42.5 | 48.5 | 216 | 10 |
| 6071420 | **6 25/32x13/16AF** | | 25/32 x 13/16 | 236 | 7.0 | 44.5 | 46.0 | 206 | 10 |
| 6071500 | **6 13/16x7/8AF** | | 13/16 x 7/8 | 236 | 7.0 | 46.0 | 48.5 | 232 | 10 |

| Code | No. | (*) | "AF | L | a | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 6071690 | **6 7/8x15/16AF** | | 7/8 x 15/16 | 250 | 7.5 | 48.5 | 52.0 | 268 | 10 |
| 6073550 | **6 7/8x1.1/16AF** | | 7/8 x 1.1/16 | 266 | 8.0 | 48.5 | 60.0 | 323 | 10 |
| 6071770 | **6 15/16x1AF** | | 15/16 x 1 | 266 | 8.0 | 52.0 | 55.0 | 317 | 10 |
| 6071850 | **6 15/16x1.1/8AF** | | 15/16 x 1.1/8 | 280 | 8.5 | 56.0 | 63.5 | 384 | 10 |
| 6071930 | **6 1x1.1/8AF** | | 1 x 1.1/8 | 280 | 8.5 | 55.0 | 61.0 | 395 | 10 |
| 6072070 | **6 1.1/16x1.1/8AF** | | 1.1/16 x 1.1/8 | 302 | 9.0 | 60.0 | 63.5 | 453 | 10 |
| 6072150 | **6 1.1/16x1.1/4AF** | | 1.1/16 x 1.1/4 | 302 | 9.0 | 60.0 | 68.0 | 520 | 10 |
| 6072230 | **6 1.1/8x1.5/16AF** | | 1.1/8 x 1.5/16 | 302 | 9.0 | 65.5 | 70.5 | 537 | 10 |
| 6072310 | **6 1.3/16x1.5/16AF** | | 1.3/16 x 1.5/16 | 302 | 9.0 | 65.5 | 70.5 | 521 | 10 |
| 6072580 | **6 1.1/4x1.3/8AF** | | 1.1/4 x 1.3/8 | 328 | 9.4 | 69.5 | 75.5 | 604 | 1 |
| 6072660 | **6 1.1/4x1.7/16AF** | | 1.1/4 x 1.7/16 | 328 | 9.4 | 69.5 | 75.5 | 628 | 1 |
| 6072740 | **6 1.5/16x1.1/2AF** | | 1.5/16 x 1.1/2 | 328 | 9.4 | 74.0 | 79.0 | 656 | 1 |
| 6072820 | **6 1.3/8x1.1/2AF** | | 1.3/8 x 1.1/2 | 328 | 9.4 | 74.0 | 79.0 | 655 | 1 |
| 2317788 | **6 2.3/16x2.3/8AF** | (*) | 2.3/16 x 2.3/8 | 560 | 18.0 | 113.0 | 123.0 | 3160 | 1 |
| 2317761 | **6 2.1/4x2.7/16AF** | (*) | 2.1/4 x 2.7/16 | 560 | 18.0 | 113.0 | 123.0 | 3160 | 1 |

### Whitw.

| Code | No. | Whitw. | L | a | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|
| 6074440 | **6 1/8x3/16W** | 1/8 x 3/16 | 157 | 4.5 | 21.0 | 27.0 | 51 | 10 |
| 6074520 | **6 3/16x1/4W** | 3/16 x 1/4 | 172 | 5.0 | 27.0 | 31.0 | 73 | 10 |
| 6074600 | **6 1/4x5/16W** | 1/4 x 5/16 | 190 | 5.5 | 31.0 | 35.0 | 97 | 10 |
| 6074790 | **6 5/16x3/8W** | 5/16 x 3/8 | 205 | 6.0 | 35.0 | 40.5 | 125 | 10 |
| 6074870 | **6 3/8x7/16W** | 3/8 x 7/16 | 236 | 7.0 | 40.5 | 46.0 | 185 | 10 |
| 6074950 | **6 7/16x1/2W** | 7/16 x 1/2 | 250 | 7.5 | 46.0 | 51.0 | 254 | 10 |
| 6075090 | **6 1/2x9/16W** | 1/2 x 9/16 | 266 | 8.0 | 51.0 | 55.5 | 304 | 10 |

| Code | No. | Whitw. | L | a | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|
| 6075250 | **6 9/16x5/8W** | 9/16 x 5/8 | 280 | 8.5 | 56.0 | 63.5 | 387 | 10 |
| 6075330 | **6 9/16x11/16W** | 9/16 x 11/16 | 280 | 8.5 | 56.0 | 63.5 | 391 | 10 |
| 6075410 | **6 5/8x3/4W** | 5/8 x 3/4 | 302 | 9.0 | 65.5 | 70.5 | 523 | 10 |
| 6075680 | **6 11/16x3/4W** | 11/16 x 3/4 | 302 | 9.0 | 65.5 | 70.5 | 548 | 1 |
| 6075840 | **6 3/4x7/8W** | 3/4 x 7/8 | 328 | 9.4 | 74.0 | 79.0 | 653 | 1 |
| 6075920 | **6 7/8x1.W** | 7/8 x 1 | 360 | 10.0 | 77.0 | 86.0 | 783 | 1 |

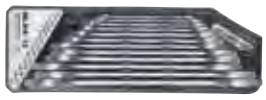
## 6

### DOUBLE OPEN ENDED SPANNER SET

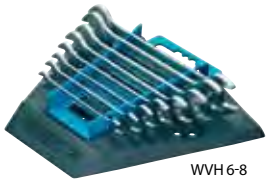
- Sets of the most used sizes
- Acc. to DIN 3110, ISO 3318, ISO 1085, ISO 10102
- Slim pattern, oval shaft
- GEDORE vanadium steel 31CrV3, chrome-plated
- H = set in robust plastic holder
- WVH = set in tool holder

### mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6076810 | **6-6** | 6x7 8x9 10x11 12x13 14x15 16x17 | 415 | 1 |
| 6077380 | **6-8** | 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 | 819 | 1 |
| 2190796 | **6-09** | 5x5,5 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 | 840 | 1 |
| 6077540 | **6-10** | 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 | 1412 | 1 |
| 6077620 | **6-100** | 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 24x27 30x32 | 1660 | 1 |
| 6077700 | **6-12** | 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x26 25x28 27x32 | 2500 | 1 |
| 6077890 | **6-120** | 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32 | 2350 | 1 |
| 6078350 | **6-122 ISO** | 6x7 8x9 10x11 12x13 14x15 16x18 17x19 20x22 21x23 24x26 27x32 30x34 | 2383 | 1 |
| 1754688 | **WVH 6-8** | 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 | 980 | 1 |
| 6079400 | **H 6-8** | 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 | 995 | 1 |
| 6079670 | **H 6-12** | 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x26 25x28 27x32 | 2545 | 1 |
| 6079750 | **H 6-120** | 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32 | 2645 | 1 |



H 6-12



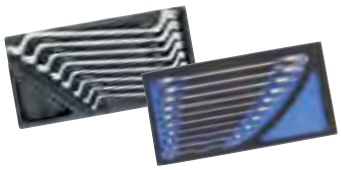
WVH 6-8

### "AF

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6078000 | **6-600 A** | 3/8x7/16 1/2x9/16 5/8x11/16 3/4x25/32 13/16x7/8 15/16x1" | 1073 | 1 |
| 6078270 | **6-8 A** | 1/4x5/16 5/16x3/8 7/16x1/2 9/16x5/8 19/32x11/16 3/4x25/32 13/16x7/8 15/16x1" | 1174 | 1 |
| 6078510 | **6-12 A** | 1/4x5/16 5/16x3/8 3/8x7/16 7/16x1/2 1/2x9/16 9/16x5/8 19/32x11/16 5/8x3/4 3/4x7/8 25/32x13/16 15/16x1 1.1/16x1.1/8" | 1952 | 1 |

## Optional accessories


1500 ES / CT — 98 – 115



636 — 167

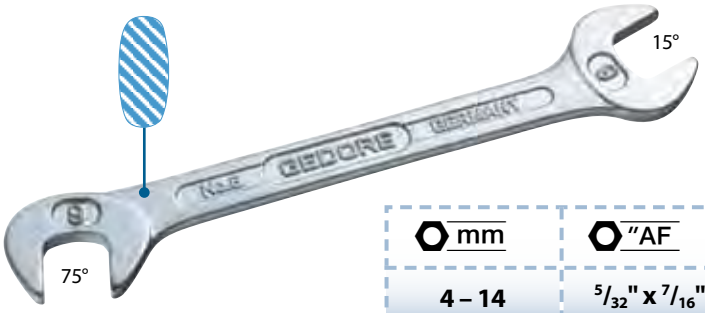
637 — 167

Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

# 8 “Small”

- Carefully forged and professionally machined:
- Flat heads: ground precisely to exact nominal size for optimum contact areas
- High bending strength - does not fracture or splinter when overloaded, thus minimising the risk of injury
- Overloading indicated by deformation
- Secure grip thanks to slim profile shaft
- Non-glare matt chrome-plated finish
- Offset head for difficult applications
- Top-grade industrial quality for the hardest of continuous use

**Spanner sizes:**
- Metric dimensions: 4 - 14 mm
- Imperial dimensions: 5/32” - 7/16”

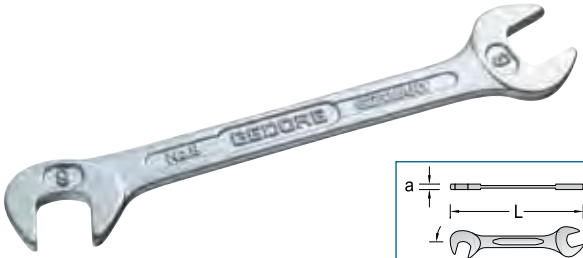


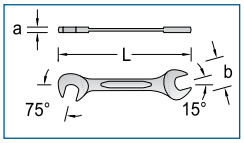

| mm | ”AF |
|---|---|
| 4 – 14 | $^{5}/_{32}$" x $^{7}/_{16}$" |

## 8

### DOUBLE ENDED MIDGET SPANNER small

- With same size each end
- Rings 15° and 75° offset from shaft
- GEDORE vanadium steel 31CrV3, heads finely polished, chrome-plated





mm

| Code | No. | mm | L | a | b | | |
|---|---|---|---|---|---|---|---|
| 6093900 | **8 4** | 4.0 | 69.0 | 2.2 | 10.4 | 5 | 10 |
| 6094040 | **8 4,5** | 4.5 | 69.0 | 2.2 | 10.4 | 6 | 10 |
| 6094120 | **8 5** | 5.0 | 77.3 | 2.2 | 12.4 | 6 | 10 |
| 6094200 | **8 5,5** | 5.5 | 77.3 | 2.2 | 12.4 | 7 | 10 |
| 6094390 | **8 6** | 6.0 | 77.3 | 2.2 | 12.4 | 8 | 10 |
| 6094470 | **8 7** | 7.0 | 89.5 | 2.6 | 14.8 | 11 | 10 |
| 6094550 | **8 8** | 8.0 | 95.5 | 3.1 | 17.5 | 16 | 10 |
| 6094630 | **8 9** | 9.0 | 103.8 | 3.1 | 20.2 | 20 | 10 |
| 6094710 | **8 10** | 10.0 | 103.8 | 3.1 | 20.2 | 21 | 10 |
| 6094980 | **8 11** | 11.0 | 115.2 | 3.1 | 24.0 | 28 | 10 |
| 6095010 | **8 12** | 12.0 | 115.2 | 3.1 | 24.0 | 28 | 10 |
| 6095280 | **8 13** | 13.0 | 130.5 | 3.1 | 28.0 | 37 | 10 |
| 6095360 | **8 14** | 14.0 | 130.5 | 3.1 | 28.0 | 38 | 10 |

”AF

| Code | No. | ”AF | L | a | b | | |
|---|---|---|---|---|---|---|---|
| 6096170 | **8 5/32AF** | 5/32 | 69.0 | 2.2 | 10.4 | 7 | 1 |
| 1965190 | **8 3/16AF** | 3/16 | 69.0 | 2.2 | 10.4 | 5 | 1 |
| 1965204 | **8 7/32AF** | 7/32 | 77.3 | 2.2 | 12.4 | 6 | 1 |
| 1965212 | **8 1/4AF** | 1/4 | 77.3 | 2.2 | 12.4 | 8 | 1 |
| 1965220 | **8 9/32AF** | 9/32 | 89.5 | 2.6 | 14.8 | 12 | 1 |
| 1965239 | **8 5/16AF** | 5/16 | 95.5 | 3.1 | 17.5 | 13 | 1 |
| 1965247 | **8 11/32AF** | 11/32 | 103.8 | 3.1 | 20.2 | 15 | 1 |
| 6096920 | **8 3/8AF** | 3/8 | 103.8 | 3.1 | 20.2 | 16 | 1 |
| 1965255 | **8 7/16AF** | 7/16 | 115.2 | 3.1 | 24.0 | 20 | 1 |

## 8-0100

### DOUBLE ENDED MIDGET SPANNER SET 10 pieces

- With same size each end
- Rings 15° and 75° offset from shaft
- GEDORE vanadium steel 31CrV3, chrome-plated
- In blue plastic wallet

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6099000 | **8-0100** | 5 5,5 6 7 8 9 10 11 12 13 | 225 | 1 |

## 8-011

### DOUBLE ENDED MIDGET SPANNER SET 11 pieces

- With same size each end
- Rings 15 ° and 75 ° offset from shaft
- GEDORE vanadium steel 31CrV3, chrome-plated
- In plastic case
- Dimensions: 275 x 150 x 42 mm
- With GEDORE Check-Tool-System: 2-colour foam insert to check that the set is complete

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1879146 | **8-011** | 4,5 5 5,5 6 7 8 9 10 11 12 13 | 280 | 1 |

## 625

### SPANNER SET 11 pieces

- Sheet steel, hardened, bright nickel finish
- Contents: 8 open ended spanners, 1 contact file, 1 screwdriver, 1 feeler gauge 0.40 mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6524820 | **625 M** | 4 4,5 5 5,5 6 6,5 7 7,5 | 47 | 1 |
| 6524900 | **625 A** | 3/16 7/32 1/4 9/32 5/16 11/32 3/8 7/16" | 53 | 1 |

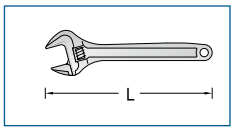


Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

## 60 CP

### ADJUSTABLE SPANNER open end, chrome-plated

- Acc. to ISO 6787
- Jaw set at 15°
- Swedish pattern, roller with left hand thread
- With scale
- GEDORE vanadium steel 31CrV3, chrome-plated, polished heads

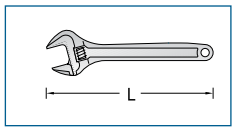



| Code | No. | Size " | L | mm | "inch | | | |
|---|---|---|---|---|---|---|---|---|
| 6380990 | **60 CP 6** | 6 | 155 | 20 | 25/32 | 0-20 | 145 | 1 |
| 6381020 | **60 CP 8** | 8 | 205 | 25 | 1 | 0-25 | 270 | 1 |
| 6381100 | **60 CP 10** | 10 | 255 | 30 | 1.3/16 | 0-30 | 420 | 1 |
| 6381290 | **60 CP 12** | 12 | 305 | 36 | 1.7/16 | 0-36 | 785 | 1 |

## 60 P

### ADJUSTABLE SPANNER open end, phosphated

- ISO 6787, jaw set at 15°
- Swedish pattern, roller with left hand thread
- With scale
- GEDORE vanadium steel 31CrV3
- Phosphate finish, polished heads

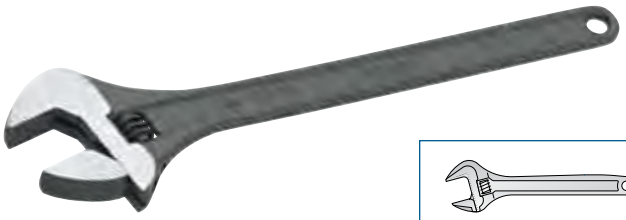


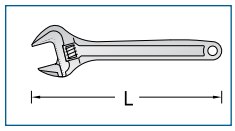

| Code | No. | Size " | L | mm | "inch | | | |
|---|---|---|---|---|---|---|---|---|
| 6380560 | **60 P 6** | 6 | 155 | 20 | 25/32 | 0-20 | 145 | 1 |
| 6380640 | **60 P 8** | 8 | 205 | 25 | 1 | 0-25 | 295 | 1 |
| 6380720 | **60 P 10** | 10 | 255 | 30 | 1.3/16 | 0-30 | 430 | 1 |
| 6380800 | **60 P 12** | 12 | 305 | 36 | 1.7/16 | 0-36 | 705 | 1 |

## 62 P

### ADJUSTABLE SPANNER open end, phosphated

- Sturdy industrial design
- Sizes 6" - 18" = ISO 6787, jaw set at 15°
- Size 24" = ISO 6787, jaw set at 22,5°
- Swedish pattern, roller with left hand thread
- GEDORE vanadium steel 31CrV3
- Phosphate finish, polished heads






| Code | No. | | Size " | L | mm | "inch | | | |
|---|---|---|---|---|---|---|---|---|---|
| 2669072 | **62 P 6** | | 6 | 150 | 20 | 25/32 | – | 155 | 1 |
| 2669080 | **62 P 8** | | 8 | 200 | 25 | 1 | – | 250 | 1 |
| 2669099 | **62 P 10** | | 10 | 250 | 30 | 1.3/16 | – | 460 | 1 |
| 2669102 | **62 P 12** | | 12 | 300 | 36 | 1.7/16 | – | 700 | 1 |
| 6368430 | **62 P 15** | | 15 | 380 | 43 | 1.11/16 | – | 1060 | 1 |
| 6368510 | **62 P 18** | | 18 | 455 | 53 | 2.1/16 | – | 1715 | 1 |
| 6360880 | **62 P 24** | | 24 | 610 | 63 | 2.1/2 | – | 3555 | 1 |

## 60 S

### ADJUSTABLE WRENCH open end

- Acc. to ISO 6787, jaw set at 15°
- Swedish pattern, roller with left-hand thread
- With scale
- The protected mechanism and additional striking face allow light blows to be applied without impairing the function of the wrench
- Comfort grip from the GEDORE Design Studio
- Grip recess ensures secure hold - even with greasy hands
- Plastic handle (versions JC and JP) for fatigue-free working
- Hanging hole
- Version C nickel and chrome plated, head ground
- Version P manganese phosphated, head ground
- Version JP and JC complete with plastic handle
- Patent applied

| Code | No. | | Size " | mm | mm | | | |
|---|---|---|---|---|---|---|---|---|
| 2668815 | **60 S-6 P** | | 6 | 153.0 | 20 | 0-20 | | 1 |
| 1966294 | **60 S-8 P** | | 8 | 206.5 | 25 | 0-25 | 340 | 1 |
| 2171023 | **60 S-10 P** | | 10 | 254.5 | 30 | 0-30 | | 1 |
| 2668874 | **60 S-12 P** | | 12 | 305.0 | 36 | 0-36 | | 1 |
| 2668823 | **60 S-6 JP** | | 6 | 153.0 | 20 | 0-20 | | 1 |
| 1966308 | **60 S-8 JP** | | 8 | 206.5 | 25 | 0-25 | 360 | 1 |
| 2171015 | **60 S-10 JP** | | 10 | 254.5 | 30 | 0-30 | | 1 |
| 2668882 | **60 S-12 JP** | | 12 | 305.0 | 36 | 0-36 | | 1 |
| 2668831 | **60 S-6 C** | | 6 | 153.0 | 20 | 0-20 | | 1 |
| 1966316 | **60 S-8 C** | | 8 | 206.5 | 25 | 0-25 | 340 | 1 |
| 2170973 | **60 S-10 C** | | 10 | 254.5 | 30 | 0-30 | | 1 |
| 2668890 | **60 S-12 C** | | 12 | 305.0 | 36 | 0-36 | | 1 |
| 2668858 | **60 S-6 JC** | | 6 | 153.0 | 20 | 0-20 | | 1 |

| Code | No. | | Size " | mm | mm | | | |
|---|---|---|---|---|---|---|---|---|
| 1966324 | **60 S-8 JC** | | 8 | 206.5 | 25 | 0-25 | 360 | 1 |
| 2171007 | **60 S-10 JC** | | 10 | 254.5 | 30 | 0-30 | | 1 |
| 2668904 | **60 S-12 JC** | | 12 | 305.0 | 36 | 0-36 | | 1 |

Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

# 894 "Black spanners"

- Carefully forged and professionally machined:
- Jaw: ground precisely to exact nominal size for optimum contact areas
- Extra-long shaft for deep applications
- High bending strength - does not fracture or splinter when overloaded, thus minimising the risk of injury
- Overloading indicated by deformation
- Secure grip thanks to profile shaft - very ergonomic and handy
- Manganese-phosphated or steel grey

**Spanner sizes:**
- Metric dimensions: 6 - 135 mm
- Imperial dimensions: 1/4" - 3.7/8"

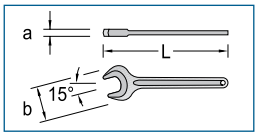
| mm | "AF |
|---|---|
| 6 – 135 mm | 1/4" – 3 7/8" |

## 894

### SINGLE OPEN ENDED SPANNER

- Acc. to DIN 894, ISO 3318
- Jaw set at 15°
- GEDORE vanadium steel 31CrV3
- Manganese-phosphate finish up to 38 mm, shotblast finish from 41 mm and larger
- Sizes 10 - 135 mm with hanging hole
- * not standardised

mm




| Code | No. | * | (*) | mm | L | a | b | | |
|---|---|---|---|---|---|---|---|---|---|
| 6573600 | **894 6** | | | 6 | 73 | 3.2 | 15.5 | 10 | 10 |
| 6573790 | **894 7** | | | 7 | 78 | 3.2 | 17.0 | 10 | 10 |
| 6573870 | **894 8** | | | 8 | 94 | 3.5 | 19.0 | 15 | 10 |
| 6573950 | **894 9** | | | 9 | 100 | 4.0 | 20.0 | 17 | 10 |
| 6574090 | **894 10** | | | 10 | 106 | 4.5 | 22.0 | 22 | 10 |
| 6574170 | **894 11** | | | 11 | 112 | 5.0 | 24.5 | 29 | 10 |
| 6574250 | **894 12** | | | 12 | 124 | 5.0 | 26.5 | 35 | 10 |
| 6574330 | **894 13** | | | 13 | 132 | 5.5 | 28.5 | 39 | 10 |
| 6574410 | **894 14** | | | 14 | 140 | 5.5 | 30.0 | 44 | 10 |
| 6574680 | **894 15** | | | 15 | 145 | 5.5 | 32.0 | 46 | 10 |
| 6574760 | **894 16** | | | 16 | 155 | 5.5 | 33.0 | 56 | 10 |
| 6574840 | **894 17** | | | 17 | 159 | 6.0 | 36.0 | 60 | 10 |
| 6575220 | **894 18** | | | 18 | 165 | 6.2 | 38.0 | 67 | 10 |
| 6575060 | **894 19** | | | 19 | 170 | 7.0 | 40.0 | 81 | 10 |
| 5536380 | **894 20** | * | (*) | 20 | | | | | 1 |
| 5271140 | **894 21** | * | (*) | 21 | | | | | 1 |
| 6575300 | **894 22** | | | 22 | 193 | 8.0 | 46.0 | 113 | 10 |
| 5332890 | **894 23** | * | (*) | 23 | | | | | 1 |
| 6575570 | **894 24** | | | 24 | 217 | 9.0 | 50.0 | 154 | 10 |
| 6575650 | **894 25** | * | | 25 | 217 | 9.0 | 52.0 | 142 | 10 |
| 5326650 | **894 26** | * | (*) | 26 | | | | | 1 |
| 6575810 | **894 27** | | | 27 | 239 | 9.8 | 56.0 | 199 | 10 |
| 1391151 | **894 28** | * | (*) | 28 | | | | | 1 |
| 5495090 | **894 29** | * | (*) | 29 | | | | | 1 |
| 6576380 | **894 30** | | | 30 | 263 | 10.8 | 62.0 | 249 | 10 |
| 6576540 | **894 32** | | | 32 | 275 | 11.8 | 66.0 | 374 | 10 |
| 1478273 | **894 33** | * | (*) | 33 | | | | | 1 |
| 6575730 | **894 34** | | | 34 | 290 | 12.3 | 70.0 | 365 | 10 |
| 5444340 | **894 35** | * | (*) | 35 | | | | | 1 |
| 6576700 | **894 36** | | | 36 | 305 | 12.8 | 74.0 | 392 | 1 |
| 1421573 | **894 37** | * | (*) | 37 | | | | | 1 |
| 6576890 | **894 38** | * | | 38 | 305 | 12.8 | 74.0 | 406 | 1 |
| 5444420 | **894 39** | * | (*) | 39 | | | | | 1 |
| 1443046 | **894 40** | * | (*) | 40 | | | | | 1 |
| 6576970 | **894 41** | | | 41 | 344 | 13.8 | 84.0 | 568 | 1 |
| 1334948 | **894 42** | * | (*) | 42 | | | | | 1 |
| 1478281 | **894 43** | * | (*) | 43 | | | | | 1 |
| 5330090 | **894 44** | * | (*) | 44 | | | | | 1 |
| 1449362 | **894 45** | * | (*) | 45 | | | | | 1 |
| 6577000 | **894 46** | | | 46 | 380 | 14.8 | 94.0 | 704 | 1 |
| 1478311 | **894 47** | * | (*) | 47 | | | | | 1 |
| 5315530 | **894 48** | * | (*) | 48 | | | | | 1 |

| Code | No. | * | (*) | mm | L | a | b | | |
|---|---|---|---|---|---|---|---|---|---|
| 1478338 | **894 49** | * | (*) | 49 | | | | | 1 |
| 6577190 | **894 50** | | | 50 | 413 | 15.8 | 102.0 | 956 | 1 |
| 1478346 | **894 51** | * | (*) | 51 | | | | | 1 |
| 5322310 | **894 52** | * | (*) | 52 | 412 | 17.0 | 102.0 | 950 | 1 |
| 1478192 | **894 53** | * | (*) | 53 | | | | | 1 |
| 5339470 | **894 54** | * | (*) | 54 | 457 | 18.0 | 112.0 | 1300 | 1 |
| 6577270 | **894 55** | | | 55 | 459 | 16.8 | 112.0 | 1125 | 1 |
| 1381210 | **894 56** | * | (*) | 56 | | | | | 1 |
| 1478354 | **894 57** | * | (*) | 57 | | | | | 1 |
| 5147130 | **894 58** | * | (*) | 58 | 457 | 18.0 | 112.0 | 1300 | 1 |
| 2315122 | **894 59** | * | (*) | 59 | 492 | 18.0 | 112.0 | 1600 | 1 |
| 6577350 | **894 60** | | | 60 | 494 | 17.7 | 122.0 | 1439 | 1 |
| 1648187 | **894 62** | * | (*) | 62 | | | | | 1 |
| 1478370 | **894 63** | * | (*) | 63 | 492 | 18.0 | 122.0 | 492 | 1 |
| 1969757 | **894 64** | * | | 64 | 528 | 19.0 | 132.0 | 1800 | 1 |
| 6577430 | **894 65** | | | 65 | 528 | 18.7 | 132.0 | 1686 | 1 |
| 2315173 | **894 67** | * | (*) | 67 | 528 | 19.0 | 132.0 | 1800 | 1 |
| 6577510 | **894 70** | | | 70 | 572 | 19.7 | 142.0 | 2111 | 1 |
| 1879758 | **894 71** | * | (*) | 71 | 572 | 20.0 | 142.0 | 2200 | 1 |
| 1478419 | **894 72** | * | (*) | 72 | | | | | 1 |
| 1486551 | **894 74** | * | (*) | 74 | 608 | 21.0 | 152.0 | 2700 | 1 |
| 6577780 | **894 75** | | | 75 | 610 | 20.7 | 152.0 | 2782 | 1 |
| 1478435 | **894 77** | * | (*) | 77 | 608 | 21.0 | 152.0 | 2700 | 1 |
| 2315181 | **894 79** | * | (*) | 79 | 645 | 21.0 | 162.0 | 3000 | 1 |
| 6577860 | **894 80** | | | 80 | 645 | 21.7 | 162.0 | 2905 | 1 |
| 2151103 | **894 82** | * | (*) | 82 | 645 | 22.0 | 162.0 | 3000 | 1 |
| 6577940 | **894 85** | | | 85 | 690 | 23.0 | 173.0 | 3895 | 1 |
| 2315211 | **894 88** | * | (*) | 88 | 690 | 23.0 | 173.0 | 4000 | 1 |
| 6578080 | **894 90** | * | | 90 | 690 | 23.0 | 173.0 | 3720 | 1 |
| 2315270 | **894 94** | * | (*) | 94 | 847 | 25.0 | 195.0 | 6100 | 1 |
| 6578160 | **894 95** | * | | 95 | 847 | 25.0 | 195.0 | 6335 | 1 |
| 2315297 | **894 96** | * | (*) | 96 | 847 | 25.0 | 195.0 | 6100 | 1 |
| 2315300 | **894 97** | * | (*) | 97 | 847 | 25.0 | 195.0 | 6100 | 1 |
| 6578240 | **894 100** | * | | 100 | 847 | 25.0 | 195.0 | 6125 | 1 |
| 6578320 | **894 105** | * | | 105 | 1000 | 28.0 | 217.0 | 8905 | 1 |
| 6578400 | **894 110** | * | | 110 | 1000 | 28.0 | 217.0 | 8650 | 1 |
| 6578590 | **894 115** | * | | 115 | 1000 | 28.0 | 220.0 | 8480 | 1 |
| 6578670 | **894 120** | * | | 120 | 1000 | 28.0 | 220.0 | 8260 | 1 |
| 6576030 | **894 125** | * | | 125 | 1000 | 28.0 | 225.0 | 8345 | 1 |
| 6576110 | **894 130** | * | | 130 | 1000 | 27.0 | 225.0 | 8230 | 1 |
| 6576460 | **894 135** | * | | 135 | 1000 | 27.0 | 225.0 | 7775 | 1 |

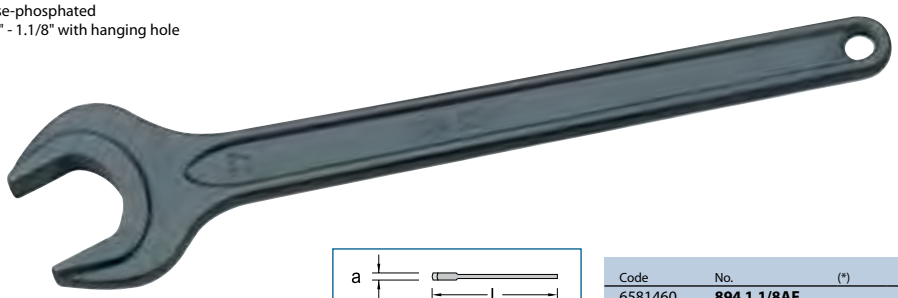
Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

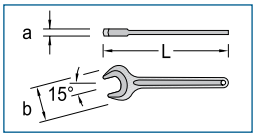
## 894

### SINGLE OPEN ENDED SPANNER

- Jaw set at 15°
- GEDORE vanadium steel 31CrV3
- Manganese-phosphated
- Sizes 7/16" - 1.1/8" with hanging hole

"AF

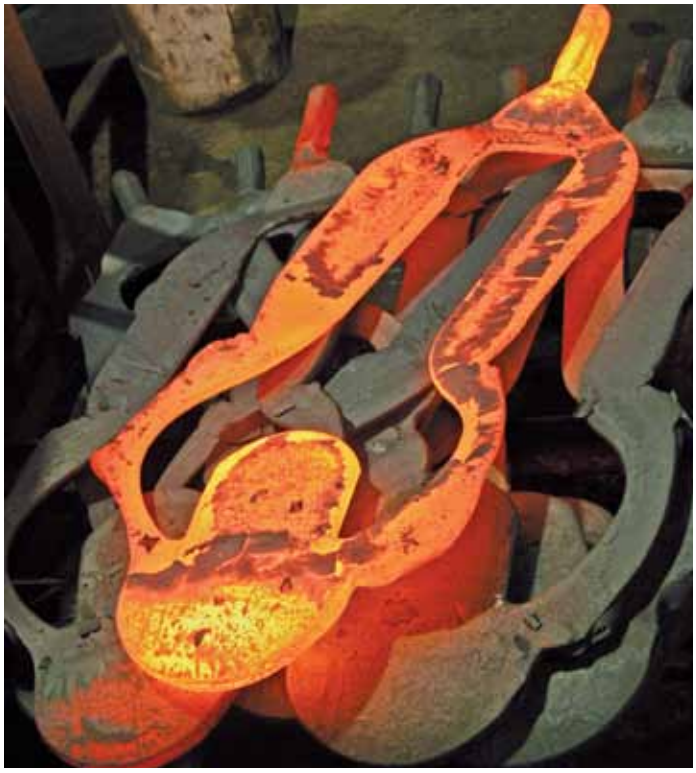





| Code | No. | (*) | "AF | L | a | b | | |
|---|---|---|---|---|---|---|---|---|
| 6579210 | **894 1/4AF** | | 1/4 | 73 | 3.2 | 15.5 | 9 | 10 |
| 6579560 | **894 5/16AF** | | 5/16 | 94 | 3.5 | 19.0 | 13 | 10 |
| 6579720 | **894 3/8AF** | | 3/8 | 100 | 4.0 | 20.0 | 14 | 10 |
| 1425161 | **894 13/32AF** | (*) | 13/32 | | | | | 1 |
| 6579990 | **894 7/16AF** | | 7/16 | 112 | 5.0 | 24.5 | 26 | 10 |
| 6580060 | **894 1/2AF** | | 1/2 | 132 | 5.5 | 26.5 | 40 | 5 |
| 1503227 | **894 19/32AF** | (*) | 19/32 | | | | | 1 |
| 6580140 | **894 9/16AF** | | 9/16 | 140 | 5.5 | 30.0 | 47 | 10 |
| 6580300 | **894 5/8AF** | | 5/8 | 155 | 5.5 | 33.0 | 53 | 10 |
| 6580490 | **894 11/16AF** | | 11/16 | 165 | 6.2 | 38.0 | 64 | 10 |
| 6580570 | **894 3/4AF** | | 3/4 | 170 | 7.0 | 40.0 | 74 | 10 |
| 6580730 | **894 13/16AF** | | 13/16 | 170 | 7.0 | 40.0 | 74 | 10 |
| 6580810 | **894 7/8AF** | | 7/8 | 193 | 8.0 | 46.0 | 106 | 10 |
| 6581030 | **894 15/16AF** | | 15/16 | 217 | 9.0 | 50.0 | 147 | 10 |
| 6581110 | **894 1AF** | | 1 | 217 | 9.0 | 52.0 | 156 | 10 |
| 6581380 | **894 1.1/16AF** | | 1.1/16 | 239 | 10.0 | 56.0 | 186 | 10 |
| 6581460 | **894 1.1/8AF** | | 1.1/8 | 239 | 10.0 | 56.0 | 205 | 10 |
| 1503219 | **894 1.3/16AF** | (*) | 1.3/16 | | | | | 1 |
| 1503197 | **894 1.1/4AF** | (*) | 1.1/4 | | | | | 1 |
| 1503189 | **894 1.5/16AF** | (*) | 1.5/16 | | | | | 1 |
| 1503170 | **894 1.3/8AF** | (*) | 1.3/8 | | | | | 1 |
| 1503162 | **894 1.7/16AF** | (*) | 1.7/16 | | | | | 1 |
| 1418653 | **894 1.1/2AF** | (*) | 1.1/2 | | | | | 1 |
| 1503154 | **894 1.9/16AF** | (*) | 1.9/16 | | | | | 1 |
| 1503138 | **894 1.5/8AF** | (*) | 1.5/8 | | | | | 1 |
| 1418645 | **894 1.11/16AF** | (*) | 1.11/16 | | | | | 1 |
| 1503111 | **894 1.3/4AF** | (*) | 1.3/4 | | | | | 1 |
| 1503081 | **894 1.13/16AF** | (*) | 1.13/16 | | | | | 1 |
| 1418637 | **894 1.7/8AF** | (*) | 1.7/8 | | | | | 1 |
| 1503103 | **894 1.15/16AF** | (*) | 1.15/16 | | | | | 1 |
| 5267460 | **894 2AF** | (*) | 2 | 412 | 17.0 | 102.0 | 950 | 1 |
| 2315327 | **894 2.1/16AF** | (*) | 2.1/16 | 412 | 17.0 | 102.0 | 950 | 1 |
| 2315378 | **894 2.3/16AF** | (*) | 2.3/16 | 457 | 18.0 | 112.0 | 1300 | 1 |
| 5265170 | **894 2.1/4AF** | (*) | 2.1/4 | 457 | 18.0 | 112.0 | 1300 | 1 |
| 2315440 | **894 2.5/16AF** | (*) | 2.5/16 | 457 | 18.0 | 112.0 | 1300 | 1 |
| 2315416 | **894 2.3/8AF** | (*) | 2.3/8 | 492 | 18.0 | 122.0 | 1600 | 1 |
| 2315343 | **894 2.1/2AF** | (*) | 2.1/2 | 492 | 18.0 | 122.0 | 1600 | 1 |
| 5377050 | **894 2.9/16AF** | (*) | 2.9/16 | 528 | 19.0 | 132.0 | 1800 | 1 |
| 1448854 | **894 2.5/8AF** | (*) | 2.5/8 | 528 | 19.0 | 132.0 | 1800 | 1 |
| 2315394 | **894 2.3/4AF** | (*) | 2.3/4 | 572 | 20.0 | 142.0 | 2200 | 1 |
| 2315491 | **894 2.7/8AF** | (*) | 2.7/8 | 608 | 21.0 | 152.0 | 2700 | 1 |
| 2315521 | **894 2.15/16AF** | (*) | 2.15/16 | | | | | 1 |
| 1777483 | **894 3AF** | (*) | 3 | 608 | 21.0 | 152.0 | 2700 | 1 |
| 1503456 | **894 3.1/8AF** | (*) | 3.1/8 | | | | | 1 |
| 2307138 | **894 3.1/2AF** | (*) | 3.1/2 | | | | | 1 |
| 2315548 | **894 3.7/8AF** | (*) | 3.7/8 | 847 | 25.0 | 195.0 | 6100 | 1 |

**VDE 894**

558



Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

## 895 "Black double open ended spanners"

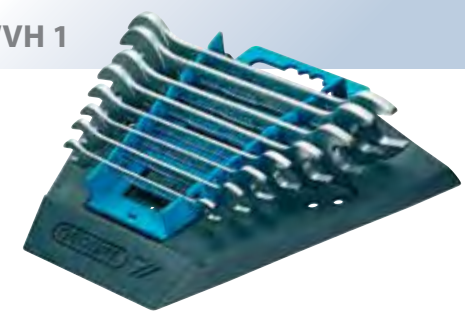
- Carefully forged and professionally machined:
- Jaws: ground precisely to exact nominal size for optimum contact areas
- Extra-long shaft for deep applications
- High bending strength - does not fracture or splinter when overloaded, thus minimising the risk of injury
- Overloading indicated by deformation
- Secure grip thanks to profile shaft - very ergonomic and handy
- Manganese-phosphated or steel grey

**Spanner sizes:**
- Metric dimensions: 6x7 - 75x80 mm
- Imperial dimensions: 1/4x5/16" - 2.5/8x2.13/16"

| mm | "AF |
|---|---|
| 6 x 7 | $^{1}/_{4}$" x $^{5}/_{16}$" |
| 75 x 80 | 2 $^{5}/_{8}$" x 2 $^{13}/_{16}$" |

636 167

WVH 1 52



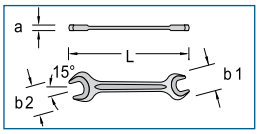


Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

## 895

### DOUBLE OPEN ENDED SPANNER

- Acc. to DIN 895, ISO 3318, ISO 1085
- Jaw set at 15°
- GEDORE vanadium steel 31CrV3
- Manganese-phosphate finish up to 34x36 mm, shotblast finish 36x41 mm and larger
- * not standardised




mm

| Code | No. | * | (*) | mm | L | a | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6583830 | **895 6x7** | | | 6 x 7 | 96 | 3.2 | 15.0 | 17.0 | 14 | 5 |
| 6583910 | **895 7x8** | | | 7 x 8 | 107 | 3.7 | 17.0 | 19.0 | 20 | 5 |
| 6584130 | **895 8x9** | | | 8 x 9 | 108 | 3.7 | 19.0 | 20.5 | 23 | 5 |
| 6584210 | **895 8x10** | | | 8 x 10 | 114 | 4.2 | 19.0 | 22.0 | 26 | 10 |
| 6584640 | **895 9x11** | * | | 9 x 11 | 122 | 5.0 | 20.5 | 24.5 | 33 | 5 |
| 6584720 | **895 10x11** | | | 10 x 11 | 124 | 5.0 | 22.0 | 24.5 | 34 | 5 |
| 6584800 | **895 10x12** | * | | 10 x 12 | 128 | 5.0 | 22.0 | 26.5 | 37 | 10 |
| 6584990 | **895 10x13** | | | 10 x 13 | 128 | 5.0 | 22.0 | 28.5 | 37 | 10 |
| 6585100 | **895 11x13** | | | 11 x 13 | 140 | 5.5 | 24.5 | 28.5 | 49 | 5 |
| 1502263 | **895 11X14** | * | (*) | 11 x 14 | | | | | | 1 |
| 6585370 | **895 12x13** | * | | 12 x 13 | 140 | 5.5 | 26.5 | 28.5 | 53 | 5 |
| 6585450 | **895 12x14** | | | 12 x 14 | 140 | 5.5 | 26.5 | 30.0 | 51 | 10 |
| 6585530 | **895 13x14** | * | | 13 x 14 | 140 | 5.5 | 28.5 | 30.0 | 51 | 10 |
| 6585610 | **895 13x15** | | | 13 x 15 | 154 | 5.5 | 28.5 | 32.0 | 65 | 5 |
| 6580220 | **895 13x16** | | | 13 x 16 | 154 | 5.5 | 28.5 | 33.0 | 55 | 10 |
| 6585880 | **895 14x15** | * | | 14 x 15 | 154 | 5.5 | 30.0 | 32.0 | 54 | 10 |
| 6585960 | **895 13x17** | | | 13 x 17 | 158 | 6.0 | 28.5 | 36.0 | 72 | 10 |
| 6586180 | **895 14x17** | | | 14 x 17 | 158 | 6.0 | 30.0 | 36.0 | 76 | 5 |
| 1502018 | **895 15X17** | * | (*) | 15 x 17 | | | | | | 1 |
| 6586260 | **895 16x17** | * | | 16 x 17 | 158 | 6.0 | 33.0 | 36.0 | 72 | 10 |
| 1489909 | **895 15X18** | * | (*) | 15 x 18 | | | | | | 1 |
| 6580650 | **895 16x18** | | | 16 x 18 | 168 | 6.5 | 33.0 | 38.0 | 80 | 10 |
| 1502026 | **895 16X19** | * | (*) | 16 x 19 | | | | | | 1 |
| 6586340 | **895 17x19** | | | 17 x 19 | 171 | 7.0 | 36.0 | 40.0 | 98 | 10 |
| 6586500 | **895 18x19** | * | | 18 x 19 | 171 | 7.0 | 38.0 | 40.0 | 105 | 5 |
| 6581540 | **895 18x21** | | | 18 x 21 | 192 | 8.0 | 38.0 | 44.0 | 119 | 10 |
| 1502069 | **895 17X21** | * | (*) | 17 x 21 | | | | | | 1 |
| 6586420 | **895 17x22** | * | | 17 x 22 | 192 | 8.0 | 36.0 | 46.0 | 128 | 10 |
| 1502077 | **895 18X22** | * | (*) | 18 x 22 | | | | | | 1 |
| 6586690 | **895 19x22** | | | 19 x 22 | 195 | 8.0 | 40.0 | 46.0 | 141 | 10 |

| Code | No. | * | (*) | mm | L | a | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6586850 | **895 20x22** | * | | 20 x 22 | 195 | 8.0 | 42.5 | 46.0 | 126 | 10 |
| 6586770 | **895 19x24** | | | 19 x 24 | 207 | 9.0 | 40.0 | 50.0 | 175 | 10 |
| 6586930 | **895 21x23** | * | | 21 x 23 | 221 | 9.0 | 44.0 | 49.0 | 171 | 10 |
| 6587070 | **895 22x24** | | | 22 x 24 | 221 | 9.0 | 46.0 | 50.0 | 191 | 10 |
| 6587150 | **895 22x27** | * | | 22 x 27 | 233 | 9.8 | 46.0 | 56.0 | 228 | 10 |
| 1502085 | **895 24X26** | * | (*) | 24 x 26 | | | | | | 1 |
| 6587230 | **895 24x27** | | | 24 x 27 | 246 | 9.8 | 50.0 | 56.0 | 250 | 10 |
| 1502093 | **895 24X28** | * | (*) | 24 x 28 | | | | | | 1 |
| 6587580 | **895 24x30** | | | 24 x 30 | 269 | 10.8 | 50.0 | 62.0 | 334 | 5 |
| 6587310 | **895 25x28** | * | | 25 x 28 | 246 | 9.8 | 53.0 | 58.0 | 282 | 10 |
| 1502107 | **895 26X29** | * | (*) | 26 x 29 | | | | | | 1 |
| 6587660 | **895 27x30** | | | 27 x 30 | 275 | 10.8 | 56.0 | 62.0 | 354 | 5 |
| 6587740 | **895 27x32** | | | 27 x 32 | 275 | 11.8 | 56.0 | 66.0 | 404 | 5 |
| 1502115 | **895 28X30** | * | (*) | 28 x 30 | | | | | | 1 |
| 1502123 | **895 28X32** | * | (*) | 28 x 32 | | | | | | 1 |
| 1502131 | **895 28X33** | * | (*) | 28 x 33 | | | | | | 1 |
| 6587820 | **895 30x32** | | | 30 x 32 | 278 | 11.8 | 62.0 | 66.0 | 411 | 5 |
| 6587900 | **895 30x36** | | | 30 x 36 | 306 | 12.8 | 62.0 | 74.0 | 478 | 1 |
| 6588040 | **895 32x36** | | | 32 x 36 | 310 | 12.8 | 66.0 | 74.0 | 489 | 1 |
| 6583080 | **895 34x36** | | | 34 x 36 | 320 | 13.3 | 70.0 | 74.0 | 582 | 1 |
| 1502166 | **895 35X38** | * | (*) | 35 x 38 | | | | | | 1 |
| 6588120 | **895 36x41** | | | 36 x 41 | 347 | 13.8 | 74.0 | 84.0 | 693 | 1 |
| 6588200 | **895 41x46** | | | 41 x 46 | 383 | 14.8 | 84.0 | 94.0 | 917 | 1 |
| 6588390 | **895 46x50** | | | 46 x 50 | 420 | 15.8 | 94.0 | 102.0 | 1227 | 1 |
| 6588470 | **895 50x55** | | | 50 x 55 | 463 | 16.8 | 102.0 | 112.0 | 1457 | 1 |
| 2314932 | **895 54x58** | * | (*) | 54 x 58 | 504 | 17.7 | 112.0 | 122.0 | 2000 | 1 |
| 6588550 | **895 55x60** | | | 55 x 60 | 504 | 17.7 | 112.0 | 122.0 | 1881 | 1 |
| 6588630 | **895 65x70** | * | | 65 x 70 | 580 | 19.7 | 132.0 | 142.0 | 2730 | 1 |
| 6588710 | **895 75x80** | * | | 75 x 80 | 665 | 21.7 | 152.0 | 162.0 | 4070 | 1 |

"AF

| Code | No. | (*) | "AF | L | a | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 1502212 | **895 1/4X5/16AF** | (*) | 1/4 x 5/16 | | | | | | 1 |
| 6590020 | **895 5/16x3/8AF** | | 5/16 x 3/8 | 114 | 4.5 | 19.0 | 22.0 | 24 | 10 |
| 6590100 | **895 3/8x7/16AF** | | 3/8 x 7/16 | 124 | 5.0 | 22.0 | 24.5 | 33 | 10 |
| 1502247 | **895 5/16X1/2AF** | (*) | 5/16 x 1/2 | | | | | | 1 |
| 1502220 | **895 3/8X1/2AF** | (*) | 3/8 x 1/2 | | | | | | 1 |
| 6590290 | **895 7/16x1/2AF** | | 7/16 x 1/2 | 140 | 5.5 | 24.5 | 28.5 | 50 | 10 |
| 1487647 | **895 7/16X9/16AF** | (*) | 7/16 x 9/16 | | | | | | 1 |
| 6590370 | **895 1/2x9/16AF** | | 1/2 x 9/16 | 141 | 5.5 | 28.5 | 30.0 | 53 | 10 |
| 6590450 | **895 9/16x5/8AF** | | 9/16 x 5/8 | 155 | 5.5 | 30.0 | 33.5 | 56 | 10 |
| 1502298 | **895 9/16X11/16AF** | (*) | 9/16 x 11/16 | | | | | | 1 |
| 1502271 | **895 19/32X11/16AF** | (*) | 19/32 x 11/16 | | | | | | 1 |
| 6590880 | **895 9/16x3/4AF** | | 9/16 x 3/4 | 171 | 7.0 | 30.0 | 40.0 | 85 | 10 |
| 6590960 | **895 5/8x3/4AF** | | 5/8 x 3/4 | 171 | 7.0 | 33.5 | 40.0 | 95 | 10 |
| 6591180 | **895 11/16x3/4AF** | | 11/16 x 3/4 | 171 | 7.0 | 36.0 | 40.0 | 105 | 10 |
| 6591340 | **895 3/4x7/8AF** | | 3/4 x 7/8 | 195 | 8.0 | 40.0 | 46.5 | 125 | 10 |
| 1502336 | **895 13/16X7/8AF** | (*) | 13/16 x 7/8 | | | | | | 1 |

| Code | No. | (*) | "AF | L | a | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 1502328 | **895 3/4X15/16AF** | (*) | 3/4 x 15/16 | | | | | | 1 |
| 1502352 | **895 15/16X1AF** | (*) | 15/16 x 1 | | | | | | 1 |
| 1502344 | **895 7/8X1.1/16AF** | (*) | 7/8 x 1.1/16 | | | | | | 1 |
| 6591690 | **895 15/16x1.1/8AF** | | 15/16 x 1.1/8 | 246 | 9.8 | 50.0 | 58.0 | 234 | 10 |
| 1502360 | **895 1.1/16X1.1/8AF** | (*) | 1.1/16 x 1.1/8 | | | | | | 1 |
| 1502506 | **895 1.1/16X1.1/4AF** | (*) | 1.1/16 x 1.1/4 | | | | | | 1 |
| 1502514 | **895 1.1/8X1.5/16AF** | (*) | 1.1/8 x 1.5/16 | | | | | | 1 |
| 1502549 | **895 1.1/4X1.7/16AF** | (*) | 1.1/4 x 1.7/16 | | | | | | 1 |
| 1502557 | **895 1.5/16X1.1/2AF** | (*) | 1.5/16 x 1.1/2 | | | | | | 1 |
| 1502204 | **895 1.5/8X1.13/16AF** | (*) | 1.5/8 x 1.13/16 | | | | | | 1 |
| 1502603 | **895 2.1/16X2.1/4AF** | (*) | 2.1/16 x 2.1/4 | | | | | | 1 |
| 2314959 | **895 2.3/16X2.3/8 AF** | (*) | 2.3/16 x 2.3/8 | 504 | 17.7 | 112.0 | 122.0 | 2000 | 1 |
| 1502581 | **895 2.1/4X2.7/16AF** | (*) | 2.1/4 x 2.7/16 | | | | | | 1 |
| 2314975 | **895 2.9/16X2.3/4AF** | (*) | 2.9/16 x 2.3/4 | 580 | 19.7 | 132.0 | 142.0 | 2900 | 1 |
| 1783548 | **895 2.5/8X2.3/4AF** | (*) | 2.5/8 x 2.3/4 | 580 | 19.7 | 132.0 | 142.0 | 2900 | 1 |
| 1502573 | **895 2.5/8X2.13/16AF** | (*) | 2.5/8 x 2.13/16 | | | | | | 1 |

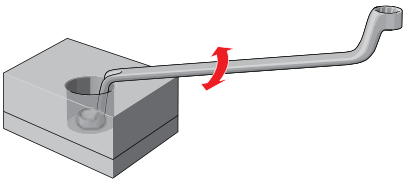
Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

# DOUBLE ENDED RING SPANNERS

## 2 "Offset"

- Carefully forged and professionally machined:
- Ring: thin-walled, 5° deep offset from shaft, with UD profile for gentle transmission of force
- High bending strength - does not fracture or splinter when overloaded, thus minimising the risk of injury
- Overloading indicated by deformation
- Non-glare matt chrome-plated finish
- Specialist for extremely deep or inset nuts
- Top-grade industrial quality for the hardest of continuous use

**Spanner sizes:**
- Metric dimensions: 5.5x7 - 85x90 mm
- Imperial dimensions: 1/4x5/16" - 3x3 1/8"
- Whitworth dimensions: 1/8x3/16 W - 1.7/8x2 W

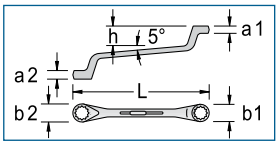


| mm | "AF | Whitw. |
|---|---|---|
| 5.5 x 7 — 85 x 90 | 1/4" x 5/16" — 3" x 3 1/8" | 1/8 x 3/16" — 1 7/8 x 2" |

## 2

### DOUBLE ENDED RING SPANNER

- Rings deep offset, strong but thin walls
- Acc. to DIN 838, ISO 3318, ISO 1085, ISO 10104
- GEDORE vanadium steel 31CrV3, chrome-plated, polished rings
- * not standardised

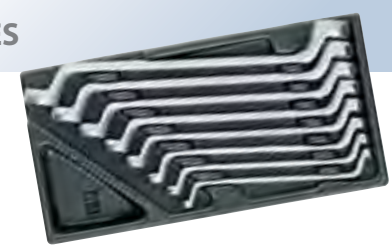


| Code | No. | * | mm | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | h | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6010630 | **2 5,5x7** | * | 5,5 x 7 | 170 | 5.6 | 6.6 | 10.0 | 12.0 | 20.7 | 62 | 5 |
| 6015350 | **2 6x7** | | 6 x 7 | 170 | 5.6 | 6.6 | 10.5 | 12.0 | 20.7 | 45 | 10 |
| 6015430 | **2 7x8** | | 7 x 8 | 180 | 5.6 | 6.6 | 12.0 | 13.3 | 21.7 | 68 | 10 |
| 6015510 | **2 8x9** | | 8 x 9 | 182 | 6.6 | 7.6 | 13.3 | 14.4 | 21.7 | 65 | 10 |
| 6015780 | **2 8x10** | | 8 x 10 | 182 | 6.6 | 8.5 | 13.3 | 15.9 | 21.7 | 72 | 10 |
| 6015860 | **2 9x11** | * | 9 x 11 | 195 | 7.6 | 9.5 | 14.4 | 17.5 | 23.6 | 86 | 10 |
| 6015940 | **2 10x11** | | 10 x 11 | 195 | 8.5 | 9.5 | 15.9 | 17.5 | 23.6 | 89 | 10 |
| 6016080 | **2 10x12** | * | 10 x 12 | 195 | 8.5 | 9.6 | 15.9 | 19.0 | 23.6 | 89 | 10 |
| 6016160 | **2 10x13** | | 10 x 13 | 212 | 8.5 | 10.3 | 15.9 | 20.1 | 25.1 | 122 | 10 |
| 6016320 | **2 11x13** | | 11 x 13 | 212 | 9.5 | 10.3 | 17.5 | 20.1 | 25.1 | 129 | 5 |
| 6016400 | **2 11x14** | * | 11 x 14 | 212 | 9.5 | 10.6 | 17.5 | 21.6 | 25.1 | 151 | 5 |
| 6016590 | **2 12x13** | | 12 x 13 | 212 | 9.6 | 10.3 | 19.0 | 20.1 | 25.1 | 125 | 10 |
| 6016670 | **2 12x14** | | 12 x 14 | 212 | 9.6 | 10.6 | 19.0 | 21.6 | 25.1 | 134 | 5 |
| 6016750 | **2 13x14** | | 13 x 14 | 225 | 10.3 | 10.6 | 20.1 | 21.6 | 26.1 | 156 | 5 |
| 6016830 | **2 13x15** | | 13 x 15 | 225 | 10.3 | 11.3 | 20.1 | 23.1 | 26.1 | 160 | 5 |
| 6016910 | **2 14x15** | | 14 x 15 | 225 | 10.6 | 11.3 | 21.6 | 23.1 | 26.1 | 154 | 10 |
| 6025310 | **2 13x16** | | 13 x 16 | 235 | 10.3 | 11.6 | 20.1 | 24.2 | 26.1 | 166 | 5 |
| 6017050 | **2 13x17** | | 13 x 17 | 245 | 10.3 | 12.3 | 20.1 | 25.8 | 27.1 | 212 | 5 |
| 6017130 | **2 14x17** | | 14 x 17 | 245 | 10.6 | 12.3 | 21.6 | 25.8 | 27.1 | 227 | 5 |
| 6017210 | **2 16x17** | | 16 x 17 | 245 | 11.6 | 12.3 | 24.2 | 25.8 | 27.1 | 205 | 10 |
| 6025660 | **2 16x18** | | 16 x 18 | 265 | 11.6 | 12.6 | 24.2 | 27.0 | 28.6 | 250 | 5 |
| 6017480 | **2 17x19** | | 17 x 19 | 265 | 12.3 | 13.0 | 25.8 | 28.8 | 28.6 | 250 | 10 |
| 6017560 | **2 18x19** | | 18 x 19 | 265 | 12.6 | 13.0 | 27.0 | 28.8 | 28.6 | 258 | 10 |
| 6025740 | **2 18x21** | | 18 x 21 | 285 | 12.6 | 13.4 | 27.0 | 31.1 | 31.0 | 327 | 5 |
| 6017720 | **2 19x22** | | 19 x 22 | 287 | 13.0 | 14.3 | 28.8 | 33.0 | 31.0 | 352 | 5 |
| 6017800 | **2 20x22** | * | 20 x 22 | 287 | 13.3 | 14.3 | 30.1 | 33.0 | 31.0 | 345 | 5 |

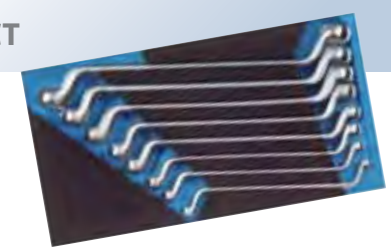
| Code | No. | * | mm | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | h | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6017990 | **2 19x24** | | 19 x 24 | 305 | 13.0 | 14.4 | 28.8 | 35.7 | 33.0 | 419 | 5 |
| 6018020 | **2 21x23** | * | 21 x 23 | 305 | 13.4 | 14.3 | 30.9 | 34.0 | 33.0 | 411 | 5 |
| 6025820 | **2 21x24** | | 21 x 24 | 307 | 13.4 | 14.4 | 30.9 | 35.7 | 33.0 | 386 | 10 |
| 6018100 | **2 22x24** | | 22 x 24 | 307 | 14.3 | 14.4 | 32.8 | 35.7 | 33.0 | 412 | 10 |
| 6018290 | **2 22x27** | * | 22 x 27 | 325 | 14.3 | 15.4 | 32.8 | 40.1 | 34.5 | 518 | 5 |
| 6018370 | **2 24x26** | * | 24 x 26 | 325 | 14.4 | 15.3 | 35.7 | 38.0 | 34.5 | 503 | 5 |
| 6018450 | **2 24x27** | | 24 x 27 | 325 | 14.4 | 15.4 | 35.7 | 40.1 | 34.5 | 506 | 10 |
| 6018530 | **2 24x30** | | 24 x 30 | 345 | 14.4 | 16.4 | 35.7 | 44.1 | 35.5 | 579 | 5 |
| 6018610 | **2 25x28** | * | 25 x 28 | 345 | 14.4 | 15.4 | 37.0 | 41.1 | 35.5 | 565 | 5 |
| 6018880 | **2 27x29** | * | 27 x 29 | 345 | 14.8 | 16.4 | 40.1 | 42.5 | 35.5 | 678 | 5 |
| 6018960 | **2 27x30** | | 27 x 30 | 345 | 15.4 | 16.4 | 40.1 | 44.1 | 35.5 | 628 | 5 |
| 6019180 | **2 27x32** | | 27 x 32 | 370 | 15.4 | 17.4 | 40.1 | 47.1 | 37.4 | 701 | 5 |
| 6019260 | **2 30x32** | | 30 x 32 | 370 | 16.4 | 17.4 | 44.1 | 47.1 | 37.4 | 731 | 5 |
| 6025900 | **2 30x34** | | 30 x 34 | 375 | 16.4 | 18.7 | 44.1 | 50.0 | 37.4 | 763 | 5 |
| 6019340 | **2 30x36** | | 30 x 36 | 400 | 16.4 | 19.4 | 43.6 | 53.0 | 38.4 | 872 | 1 |
| 6019420 | **2 32x36** | | 32 x 36 | 400 | 17.4 | 19.4 | 47.1 | 53.0 | 38.4 | 878 | 1 |
| 6026040 | **2 34x36** | | 34 x 36 | 420 | 18.7 | 19.4 | 50.0 | 53.0 | 38.4 | 929 | 1 |
| 6019500 | **2 36x41** | | 36 x 41 | 440 | 19.4 | 20.4 | 53.0 | 60.5 | 40.4 | 1166 | 1 |
| 6019690 | **2 38x42** | * | 38 x 42 | 440 | 19.7 | 20.4 | 56.4 | 62.5 | 40.4 | 1207 | 1 |
| 6019770 | **2 41x46** | | 41 x 46 | 485 | 20.4 | 22.2 | 62.0 | 68.9 | 42.8 | 1535 | 1 |
| 6019850 | **2 46x50** | | 46 x 50 | 535 | 22.2 | 23.6 | 68.9 | 75.5 | 47.8 | 2035 | 1 |
| 6019930 | **2 55x60** | * | 55 x 60 | 610 | 24.6 | 25.6 | 84.9 | 91.8 | 54.2 | 3125 | 1 |
| 6020000 | **2 65x70** | * | 65 x 70 | 685 | 26.6 | 27.6 | 101.4 | 107.4 | 58.1 | 4860 | 1 |
| 6020190 | **2 75x80** | * | 75 x 80 | 790 | 29.0 | 30.0 | 120.0 | 127.0 | 61.0 | 6685 | 1 |
| 6010980 | **2 85x90** | * | 85 x 90 | 800 | 29.0 | 30.0 | 120.0 | 127.0 | 61.0 | 6455 | 1 |

## Optional accessories

1500 ES
100 – 104



1500 CT
105 – 111





Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

## 2

### "AF

| Code | No. | (*) | "AF | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | h | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6021400 | **2 1/4x5/16AF** | | 1/4 x 5/16 | 170 | 6.0 | 7.2 | 11.0 | 13.2 | 20.7 | 63 | 10 |
| 6021590 | **2 5/16x3/8AF** | | 5/16 x 3/8 | 180 | 7.2 | 8.2 | 13.2 | 15.2 | 21.7 | 73 | 10 |
| 6021670 | **2 3/8x7/16AF** | | 3/8 x 7/16 | 195 | 8.2 | 9.5 | 15.2 | 17.5 | 23.6 | 98 | 10 |
| 6021750 | **2 7/16x1/2AF** | | 7/16 x 1/2 | 212 | 9.5 | 10.0 | 17.5 | 20.0 | 25.1 | 134 | 10 |
| 6021830 | **2 1/2x9/16AF** | | 1/2 x 9/16 | 225 | 10.0 | 10.6 | 20.0 | 22.1 | 26.1 | 141 | 10 |
| 6021910 | **2 9/16x5/8AF** | | 9/16 x 5/8 | 225 | 10.6 | 11.6 | 22.1 | 24.2 | 26.1 | 156 | 10 |
| 6022050 | **2 19/32x11/16AF** | | 19/32 x 11/16 | 245 | 11.3 | 12.3 | 22.9 | 26.5 | 27.1 | 195 | 10 |
| 6022130 | **2 5/8x11/16AF** | | 5/8 x 11/16 | 245 | 11.6 | 12.3 | 24.2 | 26.5 | 27.1 | 210 | 10 |
| 6022210 | **2 5/8x3/4AF** | | 5/8 x 3/4 | 265 | 11.6 | 13.0 | 24.2 | 29.0 | 28.6 | 258 | 10 |
| 6022480 | **2 11/16x3/4AF** | | 11/16 x 3/4 | 265 | 12.3 | 13.0 | 26.5 | 29.0 | 28.6 | 271 | 10 |
| 6022560 | **2 3/4x25/32AF** | | 3/4 x 25/32 | 265 | 13.0 | 13.3 | 29.0 | 30.0 | 28.6 | 256 | 10 |
| 6022640 | **2 3/4x7/8AF** | | 3/4 x 7/8 | 285 | 13.0 | 14.3 | 29.0 | 33.3 | 31.0 | 290 | 10 |
| 6022720 | **2 25/32x13/16AF** | | 25/32 x 13/16 | 285 | 13.3 | 13.6 | 30.0 | 31.0 | 31.0 | 373 | 10 |
| 6022800 | **2 13/16x7/8AF** | | 13/16 x 7/8 | 285 | 13.6 | 14.3 | 31.0 | 33.3 | 31.0 | 372 | 10 |
| 6025580 | **2 7/8x1.1/16AF** | | 7/8 x 1.1/16 | 325 | 14.3 | 15.8 | 33.3 | 40.1 | 34.5 | 490 | 10 |
| 6023020 | **2 15/16x1AF** | | 15/16 x 1 | 325 | 14.8 | 15.0 | 35.7 | 37.5 | 34.5 | 462 | 10 |
| 6023100 | **2 1x1.1/8AF** | | 1 x 1.1/8 | 345 | 15.0 | 16.3 | 37.5 | 42.2 | 35.5 | 591 | 5 |

### "AF

| Code | No. | (*) | "AF | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | h | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6023290 | **2 1.1/16x1.1/8AF** | | 1.1/16 x 1.1/8 | 345 | 14.8 | 16.4 | 40.0 | 42.5 | 35.5 | 675 | 5 |
| 6023370 | **2 1.1/16x1.1/4AF** | | 1.1/16 x 1.1/4 | 370 | 15.8 | 17.7 | 40.1 | 47.1 | 37.4 | 696 | 5 |
| 6023450 | **2 1.1/8x1.5/16AF** | | 1.1/8 x 1.5/16 | 370 | 16.7 | 18.2 | 42.5 | 49.2 | 37.4 | 780 | 5 |
| 6023880 | **2 1.1/4x1.7/16AF** | (*) | 1.1/4 x 1.7/16 | 400 | 17.7 | 19.7 | 47.0 | 54.0 | 38.4 | 1000 | 1 |
| 6024420 | **2 1.11/16x1.7/8AF** | (*) | 1.11/16 x 1.7/8 | 485 | 20.4 | 22.2 | 51.0 | 56.8 | 42.8 | 1500 | 1 |
| 2316501 | **2 1.5/8x1.3/4AF** | (*) | 1.5/8 x 1.3/4 | 485 | 20.0 | 21.0 | 62.0 | 70.0 | | 1500 | 1 |
| 6024340 | **2 1.5/8x1.13/16AF** | (*) | 1.5/8 x 1.13/16 | 485 | 20.4 | 22.2 | 61.0 | 69.0 | 42.8 | 1500 | 1 |
| 2316498 | **2 1.3/4x2AF** | (*) | 1.3/4 x 2 | 535 | 21.0 | 22.0 | 69.0 | 74.0 | | 1800 | 1 |
| 6024690 | **2 1.3/4x2.1/16AF** | (*) | 1.3/4 x 2.1/16 | 535 | 22.2 | 23.6 | 66.5 | 79.0 | 47.8 | 1800 | 1 |
| 6024500 | **2 1.13/16x2AF** | (*) | 1.13/16 x 2 | 535 | 22.2 | 23.6 | 69.0 | 76.5 | 47.8 | 1800 | 1 |
| 2316544 | **2 2.3/16x2.3/8AF** | (*) | 2.3/16 x 2.3/8 | 610 | 24.6 | 25.6 | 85.5 | 92.0 | 54.2 | 3100 | 1 |
| 2316528 | **2 2.1/4x2.7/16AF** | (*) | 2.1/4 x 2.7/16 | 610 | 24.6 | 25.6 | 88.0 | 95.0 | 54.2 | 3100 | 1 |
| 2316560 | **2 2.9/16x2.3/4AF** | (*) | 2.9/16 x 2.3/4 | 685 | 26.6 | 27.6 | 102.0 | 108.0 | 58.1 | 4900 | 1 |
| 2316552 | **2 2.5/8x2.13/16AF** | (*) | 2.5/8 x 2.13/16 | 685 | 26.6 | 27.6 | 104.0 | 110.0 | 58.1 | 4900 | 1 |
| 2316536 | **2 2.15/16x3.1/8AF** | (*) | 2.15/16 x 3.1/8 | 790 | 29.0 | 30.0 | 121.0 | 127.0 | 61.0 | 7300 | 1 |
| 2316579 | **2 3x3.1/8AF** | (*) | 3 x 3.1/8 | 790 | 29.0 | 30.0 | 121.0 | 127.0 | 61.0 | 7300 | 1 |

### Whitw.

| Code | No. | (*) | Whitw. | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | h | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6026550 | **2 1/8x3/16W** | | 1/8 x 3/16 | 195 | 7.8 | 9.5 | 14.3 | 18.0 | 23.6 | 95 | 10 |
| 6026630 | **2 3/16x1/4W** | | 3/16 x 1/4 | 212 | 9.5 | 10.3 | 18.0 | 20.9 | 25.1 | 132 | 10 |
| 6026710 | **2 1/4x5/16W** | | 1/4 x 5/16 | 225 | 10.3 | 11.3 | 20.9 | 23.7 | 26.1 | 160 | 10 |
| 6026980 | **2 5/16x3/8W** | | 5/16 x 3/8 | 245 | 11.3 | 12.6 | 23.7 | 27.0 | 27.1 | 198 | 10 |
| 6027280 | **2 3/8x7/16W** | | 3/8 x 7/16 | 285 | 12.6 | 13.8 | 27.0 | 31.0 | 31.0 | 292 | 10 |
| 6027360 | **2 7/16x1/2W** | | 7/16 x 1/2 | 305 | 13.8 | 14.6 | 31.0 | 34.8 | 33.0 | 404 | 10 |
| 6027440 | **2 1/2x9/16W** | | 1/2 x 9/16 | 325 | 14.6 | 15.0 | 34.8 | 38.0 | 34.5 | 487 | 10 |
| 6027520 | **2 9/16x5/8W** | | 9/16 x 5/8 | 345 | 15.0 | 16.3 | 38.0 | 41.0 | 35.5 | 586 | 5 |
| 6027600 | **2 9/16x11/16W** | | 9/16 x 11/16 | 345 | 15.0 | 16.7 | 38.0 | 45.1 | 35.5 | 586 | 5 |
| 6027790 | **2 5/8x3/4W** | | 5/8 x 3/4 | 370 | 16.3 | 18.2 | 41.4 | 48.5 | 37.4 | 702 | 5 |

### Whitw.

| Code | No. | (*) | Whitw. | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | h | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6027870 | **2 11/16x3/4W** | | 11/16 x 3/4 | 370 | 16.7 | 18.2 | 45.0 | 48.5 | 37.4 | 747 | 5 |
| 6027950 | **2 11/16x13/16W** | | 11/16 x 13/16 | 400 | 17.7 | 19.7 | 45.5 | 52.0 | 38.4 | 932 | 1 |
| 6028090 | **2 3/4x7/8W** | | 3/4 x 7/8 | 400 | 18.7 | 20.2 | 48.8 | 55.5 | 38.4 | 855 | 1 |
| 6028250 | **2 1x1.1/8W** | | 1 x 1.1/8 | 485 | 20.4 | 22.2 | 63.5 | 71.0 | 42.8 | 1545 | 1 |
| 6028330 | **2 1.1/8x1.1/4W** | | 1.1/8 x 1.1/4 | 535 | 22.2 | 23.6 | 71.0 | 78.5 | 47.8 | 2081 | 1 |
| 6028410 | **2 1.3/8x1.1/2W** | (*) | 1.3/8 x 1.1/2 | 610 | 25.0 | 26.0 | 86.0 | 94.0 | | 3100 | 1 |
| 6028680 | **2 1.5/8x1.3/4W** | (*) | 1.5/8 x 1.3/4 | 685 | 27.0 | 28.0 | 103.0 | 110.0 | | 4900 | 1 |
| 2316587 | **2 1.7/8x2W** | (*) | 1.7/8 x 2 | 790 | 29.0 | 30.0 | 121.0 | 127.0 | | 7300 | 1 |

## 2

### DOUBLE ENDED RING SPANNER SET

- Sets of the most used sizes
- Rings deep offset, strong but thin walls, UD profile
- Acc. to DIN 838, ISO 3318, ISO 1085, ISO 10104
- GEDORE vanadium steel 31CrV3, chrome-plated, polished rings

### mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6030580 | **2-8** | 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 | 1297 | 1 |
| 6030740 | **2-10** | 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 | 2225 | 1 |
| 6031120 | **2-100** | 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 24x27 30x32 | 2555 | 1 |
| 6030900 | **2-12** | 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x26 25x28 27x32 | 4060 | 1 |
| 6031040 | **2-120** | 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32 | 4000 | 1 |
| 6031390 | **2-122 ISO** | 6x7 8x9 10x11 12x13 14x15 16x18 17x19 20x22 21x23 24x26 27x32 30x34 | 3730 | 1 |

### "AF

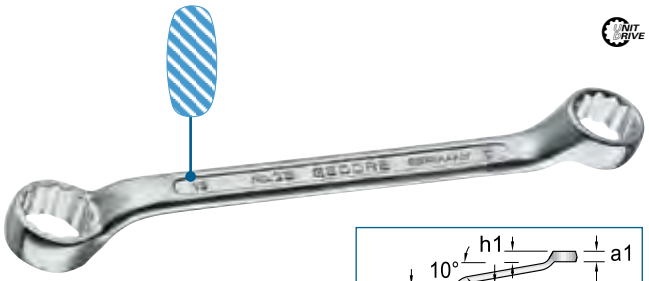
| Code | No. | Contents | | |
|---|---|---|---|---|
| 6031470 | **2-8 A** | 1/4x5/16 5/16x3/8 7/16x1/2 9/16x5/8 19/32x11/16 3/4x25/32 13/16x7/8 15/16x1" | 1855 | 1 |
| 6031630 | **2-10 A** | 1/4x5/16 5/16x3/8 7/16x1/2 9/16x5/8 19/32x11/16 3/4x25/32 13/16x7/8 15/16x1 1.1/16x1.1/4 1.1/8x1.5/16" | 3340 | 1 |

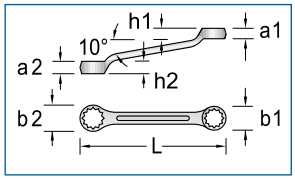
## 2 B

### DOUBLE ENDED RING SPANNER short pattern

- Shallow offset
- Thin walled, polished rings
- GEDORE vanadium steel 31CrV3, chrome-plated

- **Spanner sizes:**
- Metric dimensions: 6x7 - 17x19 mm






### mm

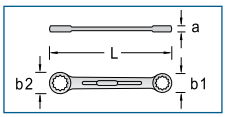
| Code | No. | mm | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | $h_1$ | $h_2$ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6051150 | **2 B 6x7** | 6 x 7 | 115 | 5.5 | 6.5 | 10.5 | 12.0 | 6 | 7 | 23 | 5 |
| 6051230 | **2 B 8x9** | 8 x 9 | 120 | 6.5 | 7.5 | 12.5 | 13.5 | 8 | 9 | 29 | 5 |
| 6051310 | **2 B 10x11** | 10 x 11 | 125 | 6.5 | 7.5 | 15.0 | 17.0 | 8 | 9 | 37 | 5 |
| 6051580 | **2 B 12x13** | 12 x 13 | 135 | 8.5 | 9.5 | 18.5 | 20.0 | 10 | 11 | 56 | 5 |
| 6051660 | **2 B 14x15** | 14 x 15 | 145 | 9.5 | 10.5 | 21.0 | 22.0 | 11 | 12 | 75 | 5 |
| 6051740 | **2 B 17x19** | 17 x 19 | 155 | 10.5 | 11.5 | 25.0 | 28.0 | 15 | 17 | 105 | 5 |

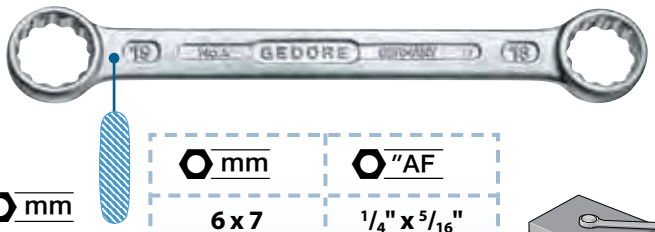
Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

## 4

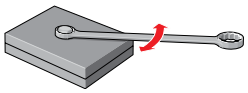
### FLAT RING SPANNER straight pattern

- Acc. to DIN 837 Form B, ISO 3318, ISO 1085
- Flat pattern
- Thin walled
- UD-profile
- GEDORE vanadium steel 31CrV3, chrome-plated
- * not standardised




| mm | "AF |
|---|---|
| 6 x 7 | 1/4" x 5/16" |
| 46 x 50 | 1/2" x 9/16" |



mm

| Code | No. | * | mm | L | a | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 6052710 | **4 6x7** | | 6 x 7 | 99 | 4.5 | 10.0 | 11.5 | 14 | 10 |
| 6053010 | **4 8x9** | | 8 x 9 | 114 | 5.2 | 13.0 | 14.5 | 24 | 10 |
| 6053280 | **4 8x10** | | 8 x 10 | 115 | 5.2 | 13.0 | 16.0 | 22 | 10 |
| 6053440 | **4 10x11** | | 10 x 11 | 131 | 5.8 | 16.0 | 17.0 | 34 | 10 |
| 6053520 | **4 10x13** | | 10 x 13 | 149 | 6.4 | 16.0 | 20.5 | 45 | 10 |
| 6053870 | **4 12x13** | | 12 x 13 | 149 | 6.4 | 19.0 | 20.5 | 49 | 10 |
| 6054170 | **4 13x15** | | 13 x 15 | 161 | 7.2 | 20.5 | 23.0 | 64 | 10 |
| 6054250 | **4 14x15** | | 14 x 15 | 161 | 7.2 | 21.5 | 23.0 | 64 | 10 |
| 6054330 | **4 13x17** | | 13 x 17 | 167 | 7.8 | 20.5 | 25.5 | 74 | 10 |
| 6054410 | **4 14x17** | | 14 x 17 | 169 | 7.8 | 21.5 | 25.5 | 77 | 5 |
| 6054680 | **4 16x17** | | 16 x 17 | 169 | 7.8 | 24.5 | 25.5 | 84 | 10 |
| 6054760 | **4 17x19** | | 17 x 19 | 186 | 8.5 | 25.5 | 28.0 | 98 | 10 |
| 6054840 | **4 18x19** | | 18 x 19 | 186 | 8.5 | 27.0 | 28.0 | 106 | 10 |
| 6054920 | **4 19x22** | | 19 x 22 | 209 | 9.4 | 28.0 | 32.5 | 136 | 10 |
| 6055060 | **4 20x22** | * | 20 x 22 | 209 | 9.4 | 29.5 | 32.5 | 134 | 10 |
| 6055140 | **4 19x24** | * | 19 x 24 | 233 | 10.0 | 28.0 | 35.5 | 176 | 5 |
| 6055220 | **4 21x23** | * | 21 x 23 | 233 | 10.0 | 30.5 | 33.5 | 171 | 5 |
| 6055300 | **4 22x24** | | 22 x 24 | 233 | 10.0 | 32.5 | 35.5 | 184 | 10 |
| 6055490 | **4 24x26** | * | 24 x 26 | 261 | 10.8 | 35.5 | 38.0 | 230 | 5 |
| 6055570 | **4 24x27** | | 24 x 27 | 260 | 10.8 | 35.5 | 39.0 | 249 | 10 |
| 6055730 | **4 25x28** | * | 25 x 28 | 289 | 11.6 | 36.5 | 41.0 | 273 | 10 |

mm

| Code | No. | * | mm | L | a | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 6055650 | **4 24x30** | | 24 x 30 | 290 | 11.6 | 35.5 | 43.5 | 303 | 10 |
| 6055810 | **4 27x32** | | 27 x 32 | 320 | 12.6 | 39.0 | 46.0 | 373 | 5 |
| 6056030 | **4 30x32** | | 30 x 32 | 320 | 12.6 | 43.5 | 46.0 | 399 | 5 |
| 6056110 | **4 30x36** | | 30 x 36 | 357 | 13.8 | 43.5 | 51.5 | 469 | 1 |
| 6056380 | **4 32x36** | | 32 x 36 | 357 | 13.8 | 46.0 | 51.5 | 492 | 1 |
| 6056460 | **4 36x41** | | 36 x 41 | 391 | 15.0 | 51.5 | 59.0 | 616 | 1 |
| 6056540 | **4 41x46** | | 41 x 46 | 431 | 16.2 | 59.0 | 66.0 | 789 | 1 |
| 6056620 | **4 46x50** | | 46 x 50 | 473 | 16.5 | 66.0 | 71.5 | 1035 | 1 |

"AF

| Code | No. | "AF | L | a | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|
| 1965263 | **4 1/4x5/16AF** | 1/4 x 5/16 | 108 | 5.1 | 10.3 | 12.9 | 50 | 1 |
| 1965271 | **4 5/16x11/32AF** | 5/16 x 11/32 | 114 | 5.1 | 12.9 | 14.2 | 50 | 1 |
| 1965298 | **4 3/8x7/16AF** | 3/8 x 7/16 | 131 | 5.7 | 15.5 | 17.1 | 50 | 1 |
| 1965301 | **4 7/16x1/2AF** | 7/16 x 1/2 | 150 | 6.3 | 17.2 | 20.2 | 50 | 1 |
| 1965328 | **4 1/2x9/16AF** | 1/2 x 9/16 | 150 | 6.3 | 20.2 | 21.8 | 50 | 1 |

## 4

### FLAT RING SPANNER SET

- Made up of sizes most in use
- Flat pattern
- Thin walled
- UD-profile
- Acc. to DIN 837 Form B, ISO 3318, ISO 1085
- GEDORE vanadium steel 31CrV3, chrome-plated

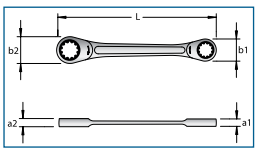
| Code | No. | Contents | | |
|---|---|---|---|---|
| 6061700 | **4-8** | 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 | 521 | 1 |
| 6062000 | **4-12** | 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x26 25x28 27x32 | 1549 | 1 |

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6062190 | **4-120** | 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32 | 2000 | 1 |

## 4 R

### FLAT RING RATCHET SPANNER

- Flat pattern
- Thin walled
- UD-profile
- Working angle: 7° up to 14x15 mm, 6° from 16x17 mm to 18x19 mm
- For ratchet loosening and fast tightening
- GEDORE vanadium steel 31CrV3
- Non-glare look thanks to matt chrome-plating, locking insert and pawl manganese-phosphated
- Hot forged
- Tried-and-tested GEDORE technology combined anew: stable hollow shaft of no. 7 and refined mechanism of the U-20 ratchets
- In combination with adaptor no. 7 RA or 7 RB (please order separately) the spanner no. 4 R can be used as a (bit) ratchet




Schlüsselknarre R-Serie

mm

| Code | No. | mm | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 2306719 | **4 R 8x9** | 8 x 9 | 134.0 | 7.0 | 7.3 | 17.5 | 19.3 | | 1 |
| 2306727 | **4 R 8x10** | 8 x 10 | 144.0 | 7.0 | 7.7 | 17.5 | 21.0 | | 1 |
| 2306743 | **4 R 10x11** | 10 x 11 | 153.5 | 7.7 | 8.1 | 21.0 | 22.5 | | 1 |
| 2306751 | **4 R 10x13** | 10 x 13 | 165.5 | 7.7 | 9.0 | 21.0 | 25.7 | | 1 |
| 2306786 | **4 R 12x13** | 12 x 13 | 174.5 | 8.6 | 9.0 | 23.6 | 25.7 | | 1 |
| 2306794 | **4 R 14x15** | 14 x 15 | 197.0 | 9.4 | 9.8 | 28.2 | 29.5 | | 1 |
| 2306808 | **4 R 16x17** | 16 x 17 | 222.0 | 10.2 | 10.6 | 31.7 | 33.6 | | 1 |
| 2306816 | **4 R 17x19** | 17 x 19 | 235.0 | 10.6 | 11.7 | 33.6 | 36.3 | | 1 |
| 2306832 | **4 R 18x19** | 18 x 19 | 248.0 | 11.0 | 11.7 | 34.6 | 36.3 | | 1 |

"AF

| Code | No. | "AF | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 1967908 | **4 R 1/4x5/16AF** | 1/4 x 5/16 | 115 | 6.3 | 6.5 | 14.2 | 17.2 | 20 | 5 |
| 1967924 | **4 R 5/16x11/32AF** | 5/16 x 11/32 | 128 | 6.5 | 6.9 | 16.8 | 20.2 | 20 | 5 |
| 1967916 | **4 R 3/8x7/16AF** | 3/8 x 7/16 | 150 | 7.3 | 7.7 | 20.2 | 21.8 | 60 | 5 |
| 1967894 | **4 R 1/2x9/16AF** | 1/2 x 9/16 | 180 | 8.6 | 9.0 | 24.8 | 26.5 | 20 | 5 |

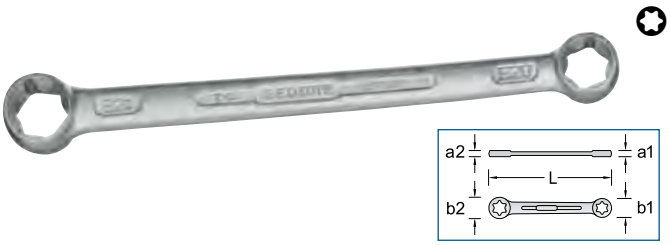


Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

## TX 4

### FLAT RING SPANNER straight pattern, for protruding TORX® head screws

- GEDORE vanadium steel 31CrV3, chrome-plated, polished rings
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA




| Code | No. | | mm | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6059800 | **TX 4 E6xE8** | E6xE8 | M5 - M7 | 5,74 x 7,52 | 110 | 5.0 | 6.0 | 9.0 | 11.0 | 14 | 5 |
| 6059990 | **TX 4 E10xE12** | E10xE12 | M8 - M10 | 9,42 x 11,17 | 140 | 7.0 | 8.0 | 13.0 | 15.0 | 39 | 5 |
| 6060140 | **TX 4 E14xE18** | E14xE18 | M12 - M14 | 12,9 x 16,7 | 180 | 8.5 | 9.5 | 17.0 | 21.0 | 74 | 5 |
| 6060220 | **TX 4 E20xE24** | E20xE24 | M16 - M20 | 18,45 x 22,16 | 226 | 11.5 | 13.5 | 24.5 | 28.5 | 163 | 5 |

# "SPECIAL"

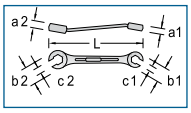
## 400

### FLARE NUT SPANNER, OPEN

- Acc. to DIN 3118
- Ring 15° offset from shaft
- Hexagon gap 30° offset, UD-section at 15° offset
- Sizes 8x10 to 12x14 mm with hexagon
- GEDORE vanadium steel 31CrV3, chrome-plated
- * not standardised
- For applications involving hydraulic/brake lines or breathing conduits on diving cylinders

**Spanner sizes:**

- Metric dimensions: 8x10 - 46x50 mm
- Imperial dimensions: 5/16x3/8" - 7/8x1"




| mm | "AF |
|---|---|
| 8 x 10 | $^5/_{16}$" x $^3/_8$" |
| 46 x 50 | $^7/_8$" x 1" |

mm

| Code | No. | * | mm | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | $c_1$ | $c_2$ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6057190 | **400 8x10** | | 8 x 10 | 140 | 6.5 | 8.0 | 18 | 20 | 6.0 | 7.0 | 45 | 10 |
| 6056970 | **400 9x11** | * | 9 x 11 | 145 | 7.5 | 8.5 | 19 | 22 | 6.5 | 8.5 | 59 | 10 |
| 6057270 | **400 10x11** | | 10 x 11 | 150 | 8.0 | 8.5 | 20 | 22 | 7.0 | 8.5 | 64 | 10 |
| 6051070 | **400 10x12** | * | 10 x 12 | 150 | 8.0 | 9.5 | 20 | 24 | 7.0 | 9.0 | 73 | 5 |
| 6057350 | **400 11x13** | | 11 x 13 | 160 | 8.5 | 10.5 | 22 | 26 | 8.5 | 10.0 | 77 | 10 |
| 6057430 | **400 12x14** | | 12 x 14 | 170 | 9.5 | 11.2 | 24 | 28 | 9.0 | 11.0 | 106 | 10 |
| 6057000 | **400 13x15** | * | 13 x 15 | 180 | 10.5 | 11.8 | 26 | 29 | 10.0 | 12.0 | 116 | 10 |
| 6057510 | **400 14x17** | | 14 x 17 | 195 | 11.5 | 12.2 | 28 | 32 | 11.0 | 14.0 | 136 | 10 |
| 6057780 | **400 17x19** | | 17 x 19 | 210 | 12.2 | 13.2 | 32 | 35 | 14.0 | 15.0 | 179 | 10 |
| 6058670 | **400 19x22** | | 19 x 22 | 230 | 13.2 | 15.2 | 35 | 41 | 15.0 | 17.0 | 246 | 10 |
| 6057860 | **400 22x24** | | 22 x 24 | 250 | 15.2 | 16.2 | 41 | 45 | 17.0 | 18.0 | 335 | 10 |
| 6058750 | **400 24x27** | | 24 x 27 | 270 | 16.2 | 17.2 | 45 | 48 | 18.0 | 20.0 | 408 | 10 |
| 6058830 | **400 30x32** | | 30 x 32 | 300 | 20.2 | 22.2 | 50 | 52 | 22.0 | 24.0 | 575 | 5 |
| 1933175 | **400 36x41** | * | 36 x 41 | 351 | 25.2 | 28.2 | 58 | 66 | 25.0 | 32.0 | 980 | 1 |
| 2297183 | **400 46x50** | * | 46 x 50 | 396 | 31.5 | 33.5 | 74 | 79 | 35.0 | 39.0 | 800 | 1 |

"AF

| Code | No. | "AF | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | $c_1$ | $c_2$ | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6057940 | **400 5/16x3/8AF** | 5/16 x 3/8 | 140 | 6.5 | 8.0 | 18 | 20 | 6.0 | 7.0 | 43 | 10 |
| 6058080 | **400 3/8x7/16AF** | 3/8 x 7/16 | 150 | 8.0 | 8.5 | 20 | 22 | 7.0 | 8.5 | 57 | 10 |
| 6058160 | **400 7/16x1/2AF** | 7/16 x 1/2 | 160 | 8.5 | 10.5 | 22 | 26 | 8.5 | 10.0 | 76 | 10 |
| 6058240 | **400 1/2x9/16AF** | 1/2 x 9/16 | 170 | 9.5 | 11.2 | 24 | 28 | 10.0 | 11.0 | 92 | 10 |
| 6058320 | **400 9/16x5/8AF** | 9/16 x 5/8 | 195 | 11.2 | 12.2 | 28 | 32 | 11.0 | 13.0 | 129 | 10 |
| 6058400 | **400 5/8x3/4AF** | 5/8 x 3/4 | 210 | 12.2 | 13.2 | 32 | 35 | 13.0 | 15.0 | 178 | 10 |
| 6056700 | **400 3/4x7/8AF** | 3/4 x 7/8 | 230 | 13.2 | 15.2 | 35 | 41 | 15.0 | 17.0 | 235 | 10 |
| 6058590 | **400 7/8x1AF** | 7/8 x 1 | 250 | 15.2 | 16.2 | 41 | 45 | 17.0 | 19.0 | 304 | 10 |

# "SPECIAL"

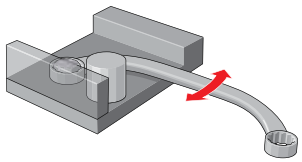
## 304

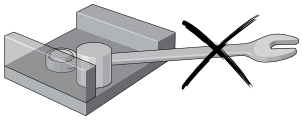
### HALF-MOON RING SPANNER

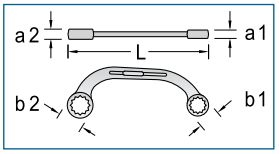
- Thin walled, polished rings
- GEDORE vanadium steel 31CrV3, chrome-plated
- Specialists in tight spaces

**Spanner sizes:**

- Metric dimensions: 11x13 - 19x22 mm
- Imperial dimensions: 7/16x1/2" - 3/4x7/8"








| mm | "AF |
|---|---|
| 11 x 13 | $^7/_{16}$" x $^1/_2$" |
| 19 x 22 | $^3/_4$" x $^7/_8$" |

mm

| Code | No. | mm | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 6470040 | **304 11x13** | 11 x 13 | 150 | 7.0 | 7.5 | 17.0 | 20.5 | 77 | 10 |
| 6470630 | **304 13x15** | 13 x 15 | 185 | 8.5 | 8.5 | 20.5 | 23.0 | 129 | 10 |
| 6470120 | **304 13x17** | 13 x 17 | 185 | 8.5 | 8.5 | 20.5 | 25.5 | 140 | 10 |
| 6470200 | **304 14x16** | 14 x 16 | 185 | 8.5 | 8.5 | 21.5 | 24.5 | 137 | 10 |
| 6470390 | **304 14x17** | 14 x 17 | 185 | 8.5 | 8.5 | 21.5 | 25.5 | 144 | 10 |
| 6470470 | **304 15x17** | 15 x 17 | 185 | 8.5 | 8.5 | 23.0 | 25.5 | 150 | 10 |
| 6567550 | **304 16x18** | 16 x 18 | 185 | 8.5 | 8.5 | 24.5 | 27.0 | 163 | 10 |
| 6470550 | **304 19x22** | 19 x 22 | 230 | 10.0 | 10.5 | 28.0 | 32.5 | 261 | 10 |

"AF

| Code | No. | "AF | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 6471010 | **304 7/16x1/2AF** | 7/16 x 1/2 | 150 | 7.0 | 7.5 | 17.0 | 20.5 | 79 | 5 |
| 6471280 | **304 9/16x5/8AF** | 9/16 x 5/8 | 185 | 8.5 | 8.5 | 21.5 | 24.5 | 139 | 5 |
| 6471360 | **304 5/8x3/4** | 5/8 x 3/4 | 230 | 10.0 | 10.5 | 24.5 | 28.0 | 219 | 10 |
| 6471440 | **304 3/4x7/8AF** | 3/4 x 7/8 | 230 | 10.0 | 10.5 | 28.0 | 32.5 | 247 | 10 |

Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

## 133

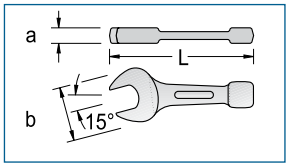
### OPEN ENDED SLOGGING SPANNER

- For very heavy-duty work
- Acc. to DIN 133
- Up to length 500 mm chrome-vanadium steel 31CrV3, above 525 mm material C35
- Special sizes available on request
- * not standardised
- Top-grade industrial quality for the hardest of continuous use

**Spanner sizes:**
- Metric dimensions: 22 - 220 mm
- Imperial dimensions: 7/8" - 6"
- Whitworth dimensions: 9/16 W - 3.1/2 W

mm

| mm | "AF | Whitw. |
|---|---|---|
| 22 | 7/8" | 9/16" |
| 220 | 6" | 3 1/2" |




| Code | No. | * | (*) | mm | L | a | b | | |
|---|---|---|---|---|---|---|---|---|---|
| 1542842 | **133 22** | * | (*) | 22 | 180 | 16.0 | 55.0 | 280 | 1 |
| 1784056 | **133 24** | * | (*) | 24 | 180 | 16.0 | 55.0 | 280 | 1 |
| 2316609 | **133 25** | * | (*) | 25 | 180 | 16.0 | 55.0 | 320 | 1 |
| 1331752 | **133 26** | * | (*) | 26 | 181 | 16.3 | 56.0 | 210 | 1 |
| 6410570 | **133 27** | | | 27 | 181 | 16.3 | 56.0 | 385 | 1 |
| 1784080 | **133 28** | * | (*) | 28 | 181 | 16.3 | 56.0 | 280 | 1 |
| 1421298 | **133 29** | * | (*) | 29 | 181 | 16.3 | 56.0 | 280 | 1 |
| 6400260 | **133 30** | | | 30 | 188 | 16.7 | 62.0 | 451 | 1 |
| 2316617 | **133 31** | * | (*) | 31 | 188 | 16.7 | 62.0 | 440 | 1 |
| 6400340 | **133 32** | | | 32 | 196 | 17.2 | 66.0 | 552 | 1 |
| 5060600 | **133 33** | * | (*) | 33 | 196 | 17.2 | 66.0 | 430 | 1 |
| 6411030 | **133 34** | | | 34 | 196 | 17.2 | 66.0 | 559 | 1 |
| 5376750 | **133 35** | * | (*) | 35 | 211 | 18.2 | 76.0 | 745 | 1 |
| 6400420 | **133 36** | | | 36 | 211 | 18.2 | 76.0 | 709 | 1 |
| 5348890 | **133 37** | * | (*) | 37 | 211 | 18.2 | 76.0 | 740 | 1 |
| 5259440 | **133 38** | * | (*) | 38 | 211 | 18.2 | 76.0 | 680 | 1 |
| 5523480 | **133 39** | * | (*) | 39 | 211 | 18.2 | 76.0 | 680 | 1 |
| 1784102 | **133 40** | * | (*) | 40 | 227 | 19.2 | 88.0 | 900 | 1 |
| 6400500 | **133 41** | | | 41 | 227 | 19.2 | 88.0 | 1000 | 1 |
| 5012710 | **133 42** | * | (*) | 42 | 227 | 19.2 | 88.0 | 900 | 1 |
| 5295830 | **133 43** | * | (*) | 43 | 227 | 19.2 | 88.0 | 900 | 1 |
| 5523210 | **133 44** | * | (*) | 44 | 227 | 19.2 | 88.0 | 900 | 1 |
| 2316625 | **133 45** | * | (*) | 45 | 256 | 19.7 | 98.0 | 1200 | 1 |
| 6400690 | **133 46** | | | 46 | 256 | 19.7 | 98.0 | 1258 | 1 |
| 5262740 | **133 47** | * | (*) | 47 | 256 | 19.7 | 98.0 | 1200 | 1 |
| 5348970 | **133 48** | * | (*) | 48 | 256 | 19.7 | 98.0 | 1275 | 1 |
| 2316633 | **133 49** | * | (*) | 49 | 281 | 21.2 | 106.5 | 1200 | 1 |
| 6400770 | **133 50** | | | 50 | 281 | 21.2 | 106.5 | 1609 | 1 |
| 1784137 | **133 51** | * | (*) | 51 | 281 | 21.2 | 106.5 | 1450 | 1 |
| 5259520 | **133 52** | * | (*) | 52 | 281 | 21.2 | 106.5 | 1450 | 1 |
| 2316641 | **133 53** | * | (*) | 53 | 281 | 21.2 | 106.5 | 1450 | 1 |
| 5349000 | **133 54** | * | (*) | 54 | 281 | 21.2 | 106.5 | 1900 | 1 |
| 6400850 | **133 55** | | | 55 | 310 | 23.6 | 117.0 | 2131 | 1 |
| 5349190 | **133 56** | * | (*) | 56 | 310 | 23.6 | 117.0 | 1900 | 1 |
| 1455567 | **133 57** | * | (*) | 57 | 310 | 23.6 | 117.0 | 1900 | 1 |
| 5526820 | **133 58** | * | (*) | 58 | 310 | 23.6 | 117.0 | 1900 | 1 |
| 1784153 | **133 59** | * | (*) | 59 | 321 | 24.1 | 128.0 | 2600 | 1 |
| 6400930 | **133 60** | | | 60 | 321 | 24.1 | 128.0 | 2484 | 1 |
| 1542850 | **133 61** | * | (*) | 61 | 321 | 24.1 | 128.0 | 2600 | 1 |
| 5376670 | **133 62** | * | (*) | 62 | 321 | 24.1 | 128.0 | 2600 | 1 |
| 5333000 | **133 63** | * | (*) | 63 | 321 | 24.1 | 128.0 | 2600 | 1 |
| 2316668 | **133 64** | * | (*) | 64 | 351 | 27.6 | 139.0 | 3300 | 1 |
| 6401070 | **133 65** | | | 65 | 351 | 27.6 | 139.0 | 3340 | 1 |
| 1784161 | **133 66** | * | (*) | 66 | 351 | 27.6 | 139.0 | 3300 | 1 |

| Code | No. | * | (*) | mm | L | a | b | | |
|---|---|---|---|---|---|---|---|---|---|
| 5349270 | **133 67** | * | (*) | 67 | 351 | 27.6 | 139.0 | 3300 | 1 |
| 2316676 | **133 68** | * | (*) | 68 | 351 | 27.6 | 139.0 | 3300 | 1 |
| 1485377 | **133 69** | * | (*) | 69 | 370 | 29.6 | 150.0 | 4200 | 1 |
| 6401150 | **133 70** | | | 70 | 370 | 29.6 | 150.0 | 4325 | 1 |
| 1784196 | **133 71** | * | (*) | 71 | 370 | 29.6 | 150.0 | 4200 | 1 |
| 1550179 | **133 72** | * | (*) | 72 | 370 | 29.6 | 150.0 | 4200 | 1 |
| 1815415 | **133 73** | * | (*) | 73 | 370 | 29.6 | 150.0 | 4000 | 1 |
| 1815423 | **133 74** | * | (*) | 74 | 390 | 31.0 | 161.5 | 4100 | 1 |
| 6401230 | **133 75** | | | 75 | 390 | 31.0 | 161.5 | 5110 | 1 |
| 1550187 | **133 76** | * | (*) | 76 | 390 | 31.0 | 161.5 | 4100 | 1 |
| 1784218 | **133 77** | * | (*) | 77 | 390 | 31.0 | 161.5 | 4100 | 1 |
| 1691902 | **133 78** | * | (*) | 78 | 390 | 31.0 | 161.5 | 4100 | 1 |
| 1542877 | **133 79** | * | (*) | 79 | 406 | 34.0 | 172.5 | 5800 | 1 |
| 6401310 | **133 80** | | | 80 | 406 | 34.0 | 172.5 | 6020 | 1 |
| 2316684 | **133 81** | * | (*) | 81 | 406 | 34.0 | 172.5 | 5800 | 1 |
| 2316692 | **133 82** | * | (*) | 82 | 406 | 34.0 | 172.5 | 800 | 1 |
| 2316706 | **133 83** | * | (*) | 83 | 406 | 34.0 | 172.5 | 5800 | 1 |
| 1825089 | **133 84** | * | (*) | 84 | 406 | 34.0 | 172.5 | 5800 | 1 |
| 6401580 | **133 85** | | | 85 | 406 | 34.0 | 172.5 | 5770 | 1 |
| 2316714 | **133 86** | * | (*) | 86 | 406 | 34.0 | 172.5 | 5700 | 1 |
| 2316722 | **133 87** | * | (*) | 87 | 406 | 34.0 | 172.5 | 5700 | 1 |
| 1494058 | **133 88** | * | (*) | 88 | 406 | 34.0 | 172.5 | 5700 | 1 |
| 2316730 | **133 89** | * | (*) | 89 | 456 | 38.4 | 194.0 | 7800 | 1 |
| 6401660 | **133 90** | | | 90 | 456 | 38.4 | 194.0 | 8905 | 1 |
| 2316749 | **133 91** | * | (*) | 91 | 456 | 38.4 | 194.0 | 7800 | 1 |
| 2316757 | **133 92** | * | (*) | 92 | 456 | 38.4 | 194.0 | 7800 | 1 |
| 2316765 | **133 93** | * | (*) | 93 | 456 | 38.4 | 194.0 | 7800 | 1 |
| 2316773 | **133 94** | * | (*) | 94 | 456 | 38.4 | 194.0 | 7800 | 1 |
| 6401740 | **133 95** | | | 95 | 456 | 38.4 | 194.0 | 8985 | 1 |
| 1597566 | **133 96** | * | (*) | 96 | 456 | 38.4 | 194.0 | 7700 | 1 |
| 1784226 | **133 97** | * | (*) | 97 | 456 | 38.4 | 194.0 | 7700 | 1 |
| 1813978 | **133 98** | * | (*) | 98 | 500 | 46.3 | 225.5 | 11150 | 1 |
| 2316781 | **133 99** | * | (*) | 99 | 500 | 46.3 | 225.5 | 11150 | 1 |
| 6401820 | **133 100** | | | 100 | 500 | 46.3 | 225.5 | 13315 | 1 |
| 2316803 | **133 101** | * | (*) | 101 | 500 | 46.3 | 225.5 | 11150 | 1 |
| 2316811 | **133 102** | * | (*) | 102 | 500 | 46.3 | 225.5 | 11150 | 1 |
| 2316838 | **133 103** | * | (*) | 103 | 500 | 46.3 | 225.5 | 11150 | 1 |
| 2316846 | **133 104** | * | (*) | 104 | 500 | 46.3 | 225.5 | 11150 | 1 |
| 6401900 | **133 105** | | | 105 | 500 | 46.3 | 225.5 | 13220 | 1 |
| 1813986 | **133 106** | * | (*) | 106 | 500 | 46.3 | 225.5 | 11050 | 1 |
| 2316854 | **133 107** | * | (*) | 107 | 500 | 46.3 | 225.5 | 11050 | 1 |
| 2316862 | **133 108** | * | (*) | 108 | 500 | 46.3 | 225.5 | 14100 | 1 |
| 2316870 | **133 109** | * | (*) | 109 | 500 | 46.3 | 225.5 | 14100 | 1 |
| 6402040 | **133 110** | | | 110 | 500 | 46.3 | 225.5 | 13045 | 1 |



Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

| Code | No. | * | (*) | mm | L | a | b | | |
|---|---|---|---|---|---|---|---|---|---|
| 2316889 | **133 111** | * | (*) | 111 | 500 | 46.3 | 225.5 | 14100 | 1 |
| 2316897 | **133 112** | * | (*) | 112 | 500 | 46.3 | 225.5 | 14100 | 1 |
| 2316900 | **133 113** | * | (*) | 113 | 500 | 46.3 | 225.5 | 14100 | 1 |
| 2316919 | **133 114** | * | (*) | 114 | 525 | 54.2 | 245.5 | 14100 | 1 |
| 6402120 | **133 115** | | | 115 | 525 | 54.2 | 245.5 | 17660 | 1 |
| 1813994 | **133 116** | * | (*) | 116 | 525 | 54.2 | 245.5 | 13300 | 1 |
| 2316927 | **133 117** | * | (*) | 117 | 525 | 54.2 | 245.5 | 13300 | 1 |
| 2316935 | **133 118** | * | (*) | 118 | 525 | 54.2 | 245.5 | 13300 | 1 |
| 2316943 | **133 119** | * | (*) | 119 | 525 | 54.2 | 245.5 | 16400 | 1 |
| 6402200 | **133 120** | | | 120 | 525 | 54.2 | 245.5 | 17610 | 1 |
| 6402390 | **133 125** | * | | 125 | 545 | 50.0 | 255.0 | 16760 | 1 |
| 2316951 | **133 127** | * | (*) | 127 | 545 | 50.0 | 255.0 | 15500 | 1 |
| 2316978 | **133 128** | * | (*) | 128 | 545 | 50.0 | 255.0 | 15500 | 1 |
| 6402470 | **133 130** | | | 130 | 575 | 55.0 | 275.0 | 19030 | 1 |
| 6402550 | **133 135** | | | 135 | 575 | 55.0 | 275.0 | 18880 | 1 |
| 2316986 | **133 136** | * | (*) | 136 | 575 | 55.0 | 275.0 | 19200 | 1 |
| 2316994 | **133 138** | * | (*) | 138 | 575 | 55.0 | 275.0 | 19200 | 1 |

| Code | No. | * | (*) | mm | L | a | b | | |
|---|---|---|---|---|---|---|---|---|---|
| 6402630 | **133 140** | * | | 140 | 575 | 55.0 | 275.0 | 17880 | 1 |
| 6402710 | **133 145** | | | 145 | 640 | 60.0 | 305.0 | 26665 | 1 |
| 6402980 | **133 150** | | | 150 | 640 | 60.0 | 305.0 | 24660 | 1 |
| 6403010 | **133 155** | | | 155 | 640 | 60.0 | 305.0 | 24200 | 1 |
| 6403280 | **133 160** | * | | 160 | 640 | 60.0 | 305.0 | 25690 | 1 |
| 6403360 | **133 165** | | | 165 | 715 | 70.0 | 342.0 | 39560 | 1 |
| 6403440 | **133 170** | | | 170 | 715 | 70.0 | 342.0 | 37760 | 1 |
| 6403520 | **133 175** | * | | 175 | 715 | 70.0 | 342.0 | 36840 | 1 |
| 2317001 | **133 180** | * | (*) | 180 | 715 | 70.0 | 392.0 | 37000 | 1 |
| 2317028 | **133 185** | * | (*) | 185 | 715 | 70.0 | 392.0 | 36000 | 1 |
| 1652567 | **133 190** | * | (*) | 190 | 800 | 78.0 | 392.0 | 53300 | 1 |
| 2317036 | **133 195** | * | (*) | 195 | 800 | 78.0 | 392.0 | 52900 | 1 |
| 2317044 | **133 200** | * | (*) | 200 | 800 | 78.0 | 392.0 | 52500 | 1 |
| 2317052 | **133 205** | * | (*) | 205 | 800 | 78.0 | 392.0 | 52500 | 1 |
| 2317060 | **133 210** | * | (*) | 210 | 800 | 78.0 | 392.0 | 51700 | 1 |
| 2317079 | **133 215** | * | (*) | 215 | 800 | 78.0 | 392.0 | 51300 | 1 |
| 2317087 | **133 220** | * | (*) | 220 | 800 | 72.0 | 415.0 | 51300 | 1 |

## "AF

| Code | No. | (*) | "AF | L | a | b | | |
|---|---|---|---|---|---|---|---|---|
| 2317095 | **133 7/8AF** | (*) | 7/8 | 180 | 16.0 | 55.0 | 280 | 1 |
| 6403950 | **133 1AF** | | 1 | 181 | 16.3 | 56.0 | 392 | 1 |
| 6404090 | **133 1.1/16AF** | | 1.1/16 | 181 | 16.3 | 56.0 | 392 | 1 |
| 6404170 | **133 1.1/8AF** | | 1.1/8 | 181 | 16.3 | 56.0 | 394 | 1 |
| 6404250 | **133 1.3/16AF** | | 1.3/16 | 188 | 16.7 | 62.0 | 470 | 1 |
| 6404330 | **133 1.1/4AF** | | 1.1/4 | 188 | 16.7 | 62.0 | 461 | 1 |
| 6404410 | **133 1.5/16AF** | | 1.5/16 | 196 | 17.2 | 66.0 | 544 | 1 |
| 6404680 | **133 1.3/8AF** | | 1.3/8 | 196 | 17.2 | 66.0 | 547 | 1 |
| 6404760 | **133 1.7/16AF** | | 1.7/16 | 211 | 18.2 | 76.0 | 713 | 1 |
| 6404840 | **133 1.1/2AF** | | 1.1/2 | 211 | 18.2 | 76.0 | 699 | 1 |
| 2317109 | **133 1.9/16AF** | (*) | 1.9/16 | 227 | 19.2 | 88.0 | 1250 | 1 |
| 6404920 | **133 1.5/8AF** | | 1.5/8 | 227 | 19.2 | 88.0 | 980 | 1 |
| 6405060 | **133 1.11/16AF** | | 1.11/16 | 227 | 19.2 | 88.0 | 981 | 1 |
| 6405140 | **133 1.3/4AF** | | 1.3/4 | 227 | 19.2 | 88.0 | 987 | 1 |
| 6405220 | **133 1.13/16AF** | | 1.13/16 | 256 | 19.7 | 98.0 | 1272 | 1 |
| 6405570 | **133 1.7/8AF** | | 1.7/8 | 256 | 19.7 | 98.0 | 1271 | 1 |
| 2317117 | **133 1.15/16AF** | (*) | 1.15/16 | 281 | 21.2 | 106.5 | 1045 | 1 |
| 6405650 | **133 2AF** | | 2 | 281 | 21.2 | 106.5 | 1594 | 1 |
| 6405730 | **133 2.1/16AF** | | 2.1/16 | 281 | 21.2 | 106.5 | 1640 | 1 |
| 6407780 | **133 2.1/8AF** | | 2.1/8 | 281 | 21.2 | 106.5 | 1559 | 1 |
| 6408160 | **133 2.3/16AF** | | 2.3/16 | 310 | 23.6 | 117.0 | 2115 | 1 |
| 6408240 | **133 2.1/4AF** | | 2.1/4 | 310 | 23.6 | 117.0 | 2095 | 1 |
| 1442600 | **133 2.5/16AF** | (*) | 2.5/16 | 310 | 23.6 | 117.0 | 1900 | 1 |
| 6408320 | **133 2.3/8AF** | | 2.3/8 | 321 | 23.6 | 128.0 | 2466 | 1 |
| 6408400 | **133 2.7/16AF** | | 2.7/16 | 321 | 23.6 | 128.0 | 2396 | 1 |
| 2317125 | **133 2.1/2AF** | (*) | 2.1/2 | 321 | 23.6 | 128.0 | 2600 | 1 |
| 6408590 | **133 2.9/16AF** | | 2.9/16 | 351 | 27.6 | 139.0 | 3490 | 1 |
| 6408670 | **133 2.5/8AF** | | 2.5/8 | 351 | 27.6 | 139.0 | 3270 | 1 |
| 2317133 | **133 2.11/16AF** | (*) | 2.11/16 | 351 | 27.6 | 139.0 | 3300 | 1 |
| 6408750 | **133 2.3/4AF** | | 2.3/4 | 370 | 29.6 | 150.0 | 4280 | 1 |
| 2317141 | **133 2.13/16AF** | (*) | 2.13/16 | 370 | 29.6 | 150.0 | 4200 | 1 |

| Code | No. | (*) | "AF | L | a | b | | |
|---|---|---|---|---|---|---|---|---|
| 2317176 | **133 2.7/8AF** | (*) | 2.7/8 | 370 | 29.6 | 150.0 | 4200 | 1 |
| 2317168 | **133 2.15/16AF** | (*) | 2.15/16 | 390 | 31.0 | 161.5 | 4100 | 1 |
| 6408830 | **133 3AF** | | 3 | 390 | 31.0 | 161.5 | 4880 | 1 |
| 6408910 | **133 3.1/8AF** | | 3.1/8 | 406 | 34.0 | 172.5 | 5950 | 1 |
| 2317184 | **133 3.1/4AF** | (*) | 3.1/4 | 406 | 34.0 | 172.5 | 5800 | 1 |
| 1500554 | **133 3.5/16AF** | (*) | 3.5/16 | 406 | 34.0 | 172.5 | | 1 |
| 6409050 | **133 3.3/8AF** | | 3.3/8 | 406 | 34.0 | 172.5 | 5640 | 1 |
| 2317214 | **133 3.7/16AF** | (*) | 3.7/16 | 406 | 34.0 | 172.5 | 5800 | 1 |
| 6409130 | **133 3.1/2AF** | | 3.1/2 | 456 | 38.4 | 194.0 | 8910 | 1 |
| 2317222 | **133 3.9/16AF** | (*) | 3.9/16 | 456 | 38.4 | 194.0 | 7800 | 1 |
| 2317206 | **133 3.5/8AF** | (*) | 3.5/8 | 456 | 38.4 | 194.0 | 7800 | 1 |
| 6409210 | **133 3.3/4AF** | | 3.3/4 | 456 | 38.4 | 194.0 | 8555 | 1 |
| 2317192 | **133 3.13/16AF** | (*) | 3.13/16 | 456 | 38.4 | 194.0 | 7800 | 1 |
| 6409480 | **133 3.7/8AF** | | 3.7/8 | 500 | 46.3 | 225.5 | 13465 | 1 |
| 6409560 | **133 4AF** | | 4 | 500 | 46.3 | 225.5 | 13635 | 1 |
| 6409990 | **133 4.1/8AF** | | 4.1/8 | 500 | 46.3 | 225.5 | 13545 | 1 |
| 2317249 | **133 4.3/16AF** | (*) | 4.3/16 | 485 | 44.0 | 215.0 | 11050 | 1 |
| 2317230 | **133 4.1/4AF** | (*) | 4.1/4 | 510 | 47.0 | 235.0 | 14100 | 1 |
| 2317273 | **133 4.5/16AF** | (*) | 4.5/16 | 510 | 47.0 | 235.0 | 14100 | 1 |
| 2317265 | **133 4.3/8AF** | (*) | 4.3/8 | 510 | 47.0 | 235.0 | 14100 | 1 |
| 2317303 | **133 4.7/16AF** | (*) | 4.7/16 | 510 | 47.0 | 235.0 | 14100 | 1 |
| 6410060 | **133 4.1/2AF** | | 4.1/2 | 510 | 47.0 | 235.0 | 18980 | 1 |
| 2317338 | **133 4.9/16AF** | (*) | 4.9/16 | 510 | 47.0 | 235.0 | 13300 | 1 |
| 2317281 | **133 4.5/8AF** | (*) | 4.5/8 | 510 | 47.0 | 235.0 | 13300 | 1 |
| 2317257 | **133 4.3/4AF** | (*) | 4.3/4 | 545 | 50.0 | 255.0 | 16400 | 1 |
| 2317311 | **133 4.7/8AF** | (*) | 4.7/8 | 545 | 50.0 | 255.0 | 16400 | 1 |
| 2317346 | **133 5AF** | (*) | 5 | 545 | 50.0 | 255.0 | 15500 | 1 |
| 1749331 | **133 5.1/4AF** | (*) | 5.1/4 | 575 | 55.0 | 275.0 | 19800 | 1 |
| 2317354 | **133 5.1/2AF** | (*) | 5.1/2 | 575 | 55.0 | 275.0 | 18900 | 1 |
| 2317362 | **133 5.5/8AF** | (*) | 5.5/8 | 640 | 60.0 | 305.0 | 27100 | 1 |
| 2317370 | **133 6AF** | (*) | 6 | 640 | 60.0 | 305.0 | 26700 | 1 |

## Whitw.

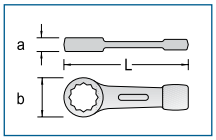
| Code | No. | (*) | Whitw. | L | a | b | | |
|---|---|---|---|---|---|---|---|---|
| 2317389 | **133 9/16W** | (*) | 9/16 | 180 | 16.0 | 57.0 | 280 | 1 |
| 2317397 | **133 5/8W** | (*) | 5/8 | 180 | 16.0 | 57.0 | 280 | 1 |
| 2317400 | **133 11/16W** | (*) | 11/16 | 190 | 17.0 | 62.0 | 440 | 1 |
| 1834924 | **133 3/4W** | (*) | 3/4 | 190 | 17.0 | 62.0 | 430 | 1 |
| 1834967 | **133 13/16W** | (*) | 13/16 | 215 | 19.0 | 76.0 | 680 | 1 |
| 1834975 | **133 7/8W** | (*) | 7/8 | 215 | 19.0 | 76.0 | 680 | 1 |
| 1834983 | **133 15/16W** | (*) | 15/16 | 235 | 19.0 | 86.0 | 900 | 1 |
| 2317419 | **133 1W** | (*) | 1 | 235 | 19.0 | 86.0 | 900 | 1 |
| 1835009 | **133 1.1/8W** | (*) | 1.1/8 | 255 | 20.0 | 98.0 | 1200 | 1 |
| 1835017 | **133 1.1/4W** | (*) | 1.1/4 | 275 | 21.0 | 105.0 | 1450 | 1 |

| Code | No. | (*) | Whitw. | L | a | b | | |
|---|---|---|---|---|---|---|---|---|
| 1835025 | **133 1.3/8W** | (*) | 1.3/8 | 300 | 23.0 | 116.0 | 1900 | 1 |
| 2317427 | **133 1.1/2W** | (*) | 1.1/2 | 320 | 25.0 | 128.0 | 2600 | 1 |
| 2317435 | **133 1.5/8W** | (*) | 1.5/8 | 342 | 27.0 | 138.0 | 3300 | 1 |
| 2317443 | **133 1.3/4W** | (*) | 1.3/4 | 375 | 30.0 | 154.0 | 4200 | 1 |
| 2317451 | **133 1.7/8W** | (*) | 1.7/8 | 375 | 30.0 | 154.0 | 4100 | 1 |
| 2317478 | **133 2W** | (*) | 2 | 408 | 34.0 | 174.0 | 5800 | 1 |
| 2317486 | **133 2.1/4W** | (*) | 2.1/4 | 445 | 38.0 | 194.0 | 7800 | 1 |
| 2317494 | **133 2.1/2W** | (*) | 2.1/2 | 485 | 44.0 | 215.0 | 11150 | 1 |
| 2317508 | **133 2.3/4W** | (*) | 2.3/4 | 485 | 44.0 | 215.0 | 11050 | 1 |
| 2317516 | **133 3.1/2W** | (*) | 3.1/2 | 545 | 50.0 | 255.0 | 16400 | 1 |

Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

## RING SLOGGING SPANNER

- For very heavy-duty work
- Acc. to DIN 7444
- Up to length 435 mm chrome-vanadium steel 31CrV3, above 480 mm from C35
- Special sizes available on request
- * not standardised
- Top-grade industrial quality for the hardest of continuous use




**Spanner sizes:**

- Metric dimensions: 22 - 230 mm
- Imperial dimensions: 7/8" - 7.1/2"
- Whitworth dimensions: 9/16W - 3.3/4W

| mm | "AF | Whitw. |
|---|---|---|
| 22 — 230 | 7/8" — 7 1/2" | 9/16" — 3 3/4" |

| Code | No. | * | (*) | | mm | L | a | b | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1344331 | **306 22** | * | (*) | | 22 | 165 | 15.0 | 43.0 | 220 | 1 |
| 1521330 | **306 23** | * | (*) | | 23 | 165 | 15.0 | 43.0 | 220 | 1 |
| 6475000 | **306 24** | * | | | 24 | 160 | 15.0 | 42.5 | 262 | 1 |
| 1442627 | **306 25** | * | (*) | | 25 | 160 | 15.0 | 42.5 | 220 | 1 |
| 5316420 | **306 26** | * | (*) | | 26 | 160 | 15.0 | 42.5 | 220 | 1 |
| 6475190 | **306 27** | | | | 27 | 180 | 15.5 | 47.0 | 328 | 1 |
| 5248590 | **306 28** | * | (*) | | 28 | 180 | 15.5 | 47.0 | 320 | 1 |
| 5326730 | **306 29** | * | (*) | | 29 | 180 | 15.5 | 47.0 | 360 | 1 |
| 6475270 | **306 30** | | | | 30 | 190 | 16.5 | 51.5 | 393 | 1 |
| 5332620 | **306 31** | * | (*) | | 31 | 190 | 16.5 | 51.5 | 360 | 1 |
| 6475350 | **306 32** | | | | 32 | 195 | 16.5 | 53.0 | 428 | 1 |
| 5059860 | **306 33** | * | (*) | | 33 | 195 | 16.5 | 53.0 | 360 | 1 |
| 6481670 | **306 34** | | | | 34 | 195 | 16.5 | 53.0 | 401 | 1 |
| 5061330 | **306 35** | * | (*) | | 35 | 195 | 16.5 | 53.0 | 500 | 1 |
| 6475430 | **306 36** | | | | 36 | 205 | 19.5 | 60.0 | 674 | 1 |
| 5248670 | **306 37** | * | (*) | | 37 | 205 | 19.5 | 60.0 | 500 | 1 |
| 6474460 | **306 38** | * | | | 38 | 205 | 19.5 | 60.0 | 635 | 1 |
| 1354043 | **306 39** | * | (*) | | 39 | 205 | 19.5 | 60.0 | 700 | 1 |
| 5039400 | **306 40** | * | (*) | | 40 | 225 | 20.5 | 66.0 | 700 | 1 |
| 6475510 | **306 41** | | | | 41 | 225 | 20.5 | 66.0 | 790 | 1 |
| 5248400 | **306 42** | * | (*) | | 42 | 225 | 20.5 | 66.0 | 700 | 1 |
| 5059510 | **306 43** | * | (*) | | 43 | 225 | 20.5 | 66.0 | 700 | 1 |
| 5248750 | **306 44** | * | (*) | | 44 | 225 | 20.5 | 66.0 | 950 | 1 |
| 1494945 | **306 45** | * | (*) | | 45 | 240 | 22.5 | 75.0 | 950 | 1 |
| 6475780 | **306 46** | | | | 46 | 240 | 22.5 | 75.0 | 999 | 1 |
| 1411128 | **306 47** | * | (*) | | 47 | 240 | 22.5 | 75.0 | 950 | 1 |
| 5072960 | **306 48** | * | (*) | | 48 | 240 | 22.5 | 75.0 | 950 | 1 |
| 1494953 | **306 49** | * | (*) | | 49 | 250 | 23.5 | 80.0 | 1100 | 1 |
| 6475860 | **306 50** | | | | 50 | 250 | 23.5 | 80.0 | 1093 | 1 |
| 1383825 | **306 51** | * | (*) | | 51 | 250 | 23.5 | 80.0 | 1100 | 1 |
| 5259360 | **306 52** | * | (*) | | 52 | 250 | 23.5 | 80.0 | 1100 | 1 |
| 1550098 | **306 53** | * | (*) | | 53 | 250 | 23.5 | 80.0 | 1100 | 1 |
| 5059940 | **306 54** | * | (*) | | 54 | 270 | 25.0 | 87.5 | 1400 | 1 |
| 6475940 | **306 55** | | | | 55 | 270 | 25.0 | 87.5 | 1452 | 1 |
| 5342850 | **306 56** | * | (*) | | 56 | 270 | 25.0 | 87.5 | 1400 | 1 |
| 1442716 | **306 57** | * | (*) | | 57 | 270 | 25.0 | 87.5 | 1400 | 1 |
| 5342930 | **306 58** | * | (*) | | 58 | 270 | 25.0 | 87.5 | 1400 | 1 |
| 2314819 | **306 59** | * | (*) | | 59 | 270 | 26.0 | 93.5 | 1640 | 1 |
| 6476080 | **306 60** | | | | 60 | 270 | 26.0 | 93.5 | 1577 | 1 |
| 1550128 | **306 61** | * | (*) | | 61 | 270 | 26.0 | 93.5 | 1640 | 1 |
| 1455176 | **306 62** | * | (*) | | 62 | 270 | 26.0 | 93.5 | 1640 | 1 |
| 1432893 | **306 63** | * | (*) | | 63 | 270 | 26.0 | 93.5 | 1640 | 1 |
| 1442724 | **306 64** | * | (*) | | 64 | 290 | 29.0 | 101.0 | 2150 | 1 |
| 6476160 | **306 65** | | | | 65 | 290 | 29.0 | 101.0 | 2580 | 1 |
| 2314827 | **306 65,5** | * | (*) | | 66 | 290 | 29.0 | 101.0 | 2150 | 1 |
| 1550136 | **306 66** | * | (*) | | 66 | 290 | 29.0 | 101.0 | 2150 | 1 |

| Code | No. | * | (*) | mm | L | a | b | | |
|---|---|---|---|---|---|---|---|---|---|
| 1383841 | **306 67** | * | (*) | 67 | 290 | 29.0 | 101.0 | 2150 | 1 |
| 1485369 | **306 68** | * | (*) | 68 | 290 | 29.0 | 101.0 | 2150 | 1 |
| 1950983 | **306 69** | * | (*) | 69 | 320 | 32.5 | 109.5 | 2950 | 1 |
| 6476240 | **306 70** | | | 70 | 320 | 32.5 | 109.5 | 2580 | 1 |
| 1441841 | **306 71** | * | (*) | 71 | 320 | 32.5 | 109.5 | 2950 | 1 |
| 1550144 | **306 72** | * | (*) | 72 | 320 | 32.5 | 109.5 | 2950 | 1 |
| 1550152 | **306 73** | * | (*) | 73 | 320 | 32.5 | 109.5 | 2950 | 1 |
| 1442740 | **306 74** | * | (*) | 74 | 325 | 34.0 | 114.5 | 2800 | 1 |
| 6476320 | **306 75** | | | 75 | 325 | 34.0 | 114.5 | 3010 | 1 |
| 1485652 | **306 76** | * | (*) | 76 | 325 | 34.0 | 114.5 | 2800 | 1 |
| 1350730 | **306 77** | * | (*) | 77 | 325 | 34.0 | 114.5 | 2800 | 1 |
| 1485385 | **306 78** | * | (*) | 78 | 325 | 34.0 | 114.5 | 2800 | 1 |
| 2314835 | **306 79** | * | (*) | 79 | 345 | 35.0 | 123.0 | 4000 | 1 |
| 6476400 | **306 80** | | | 80 | 345 | 35.0 | 123.0 | 3515 | 1 |
| 2314843 | **306 81** | * | (*) | 81 | 345 | 35.0 | 123.0 | 4000 | 1 |
| 1437771 | **306 82** | * | (*) | 82 | 345 | 35.0 | 123.0 | 4000 | 1 |
| 1665413 | **306 83** | * | (*) | 83 | 345 | 35.0 | 123.0 | 4000 | 1 |
| 1825097 | **306 84** | * | (*) | 84 | 360 | 37.0 | 129.0 | 3850 | 1 |
| 6476590 | **306 85** | | | 85 | 360 | 37.0 | 129.0 | 3895 | 1 |
| 2314851 | **306 86** | * | (*) | 86 | 360 | 37.0 | 129.0 | 3850 | 1 |
| 1558277 | **306 87** | * | (*) | 87 | 360 | 37.0 | 129.0 | 3850 | 1 |
| 1494066 | **306 88** | * | (*) | 88 | 360 | 37.0 | 129.0 | 3850 | 1 |
| 2314878 | **306 89** | * | (*) | 89 | 400 | 41.5 | 152.0 | 5300 | 1 |
| 6476670 | **306 90** | | | 90 | 400 | 41.5 | 152.0 | 6370 | 1 |
| 2314886 | **306 91** | * | (*) | 91 | 400 | 41.5 | 152.0 | 5300 | 1 |
| 2314894 | **306 92** | * | (*) | 92 | 400 | 41.5 | 152.0 | 5300 | 1 |
| 2314908 | **306 93** | * | (*) | 93 | 400 | 41.5 | 152.0 | 5300 | 1 |
| 1958097 | **306 94** | * | (*) | 94 | 400 | 41.5 | 152.0 | 5300 | 1 |
| 6476750 | **306 95** | | | 95 | 400 | 41.5 | 152.0 | 6285 | 1 |
| 1597582 | **306 96** | * | (*) | 96 | 400 | 41.5 | 152.0 | 5100 | 1 |
| 1490915 | **306 97** | * | (*) | 97 | 400 | 41.5 | 152.0 | 5100 | 1 |
| 1813161 | **306 98** | * | (*) | 98 | 400 | 41.5 | 152.0 | 6700 | 1 |
| 2314916 | **306 99** | * | (*) | 99 | 400 | 41.5 | 152.0 | 6700 | 1 |
| 6476830 | **306 100** | | | 100 | 400 | 41.5 | 152.0 | 6030 | 1 |
| 2314924 | **306 101** | * | (*) | 101 | 400 | 41.5 | 152.0 | 6700 | 1 |
| 2314940 | **306 102** | * | (*) | 102 | 400 | 41.5 | 152.0 | 6700 | 1 |
| 2314967 | **306 103** | * | (*) | 103 | 400 | 41.5 | 152.0 | 6700 | 1 |
| 2314983 | **306 104** | * | (*) | 104 | 435 | 47.5 | 172.0 | 6700 | 1 |
| 6476910 | **306 105** | | | 105 | 435 | 47.5 | 172.0 | 8660 | 1 |
| 1814540 | **306 106** | * | (*) | 106 | 435 | 47.5 | 172.0 | 6500 | 1 |
| 2315009 | **306 107** | * | (*) | 107 | 435 | 47.5 | 172.0 | 6500 | 1 |
| 2315017 | **306 108** | * | (*) | 108 | 435 | 47.5 | 172.0 | 8300 | 1 |
| 2315025 | **306 109** | * | (*) | 109 | 435 | 47.5 | 172.0 | 8300 | 1 |
| 6477050 | **306 110** | | | 110 | 435 | 47.5 | 172.0 | 8440 | 1 |
| 2315033 | **306 111** | * | (*) | 111 | 435 | 47.5 | 172.0 | 8300 | 1 |
| 2315041 | **306 112** | * | (*) | 112 | 435 | 47.5 | 172.0 | 8300 | 1 |
| 2315068 | **306 113** | * | (*) | 113 | 435 | 47.5 | 172.0 | 8300 | 1 |
| 2315076 | **306 114** | * | (*) | 114 | 435 | 47.5 | 172.0 | 8300 | 1 |
| 6477130 | **306 115** | | | 115 | 435 | 47.5 | 172.0 | 8160 | 1 |
| 1814001 | **306 116** | * | (*) | 116 | 435 | 47.5 | 172.0 | 7800 | 1 |
| 2315084 | **306 117** | * | (*) | 117 | 435 | 47.5 | 172.0 | 7800 | 1 |
| 2315092 | **306 118** | * | (*) | 118 | 480 | 54.0 | 182.0 | 9900 | 1 |
| 2315106 | **306 119** | * | (*) | 119 | 480 | 54.0 | 182.0 | 9900 | 1 |
| 6477210 | **306 120** | | | 120 | 480 | 54.0 | 182.0 | 9855 | 1 |
| 2315114 | **306 124** | * | (*) | 124 | 480 | 54.0 | 182.0 | 9900 | 1 |
| 6477480 | **306 125** | * | | 125 | 480 | 54.0 | 182.0 | 9665 | 1 |
| 2315130 | **306 126** | * | (*) | 126 | 480 | 54.0 | 182.0 | 9500 | 1 |
| 2315149 | **306 127** | * | (*) | 127 | 480 | 54.0 | 182.0 | 9500 | 1 |
| 2315165 | **306 128** | * | (*) | 128 | 480 | 54.0 | 182.0 | 9500 | 1 |
| 6477560 | **306 130** | | | 130 | 520 | 58.0 | 202.0 | 12295 | 1 |
| 2315203 | **306 132** | * | (*) | 132 | 520 | 58.0 | 202.0 | 12700 | 1 |
| 2315238 | **306 134** | * | (*) | 134 | 520 | 58.0 | 202.0 | 12700 | 1 |
| 6477640 | **306 135** | | | 135 | 520 | 58.0 | 202.0 | 11790 | 1 |
| 2315246 | **306 136** | * | (*) | 136 | 520 | 58.0 | 202.0 | 12700 | 1 |
| 1839063 | **306 137** | * | (*) | 137 | 520 | 58.0 | 202.0 | 12700 | 1 |
| 6477720 | **306 140** | * | | 140 | 520 | 58.0 | 202.0 | 11960 | 1 |
| 2315254 | **306 141** | * | (*) | 141 | 520 | 58.0 | 202.0 | 12700 | 1 |
| 2315262 | **306 142** | * | (*) | 142 | 580 | 64.0 | 228.0 | 19300 | 1 |



Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

| Code | No. | * | (*) | mm | L | a | b | | |
|---|---|---|---|---|---|---|---|---|---|
| 2315289 | **306 144** | * | (*) | 144 | 580 | 64.0 | 228.0 | 19300 | 1 |
| 6477800 | **306 145** | | | 145 | 580 | 64.0 | 228.0 | 18550 | 1 |
| 6477990 | **306 150** | | | 150 | 580 | 64.0 | 228.0 | 17980 | 1 |
| 6478020 | **306 155** | | | 155 | 580 | 64.0 | 228.0 | 16940 | 1 |
| 6478100 | **306 160** | * | | 160 | 580 | 64.0 | 228.0 | 17890 | 1 |
| 2315319 | **306 162** | * | (*) | 162 | 580 | 64.0 | 228.0 | 19300 | 1 |
| 6478290 | **306 165** | | | 165 | 650 | 70.0 | 265.0 | 26660 | 1 |
| 6478370 | **306 170** | | | 170 | 650 | 70.0 | 265.0 | 26310 | 1 |
| 6478450 | **306 175** | * | | 175 | 650 | 70.0 | 265.0 | 25920 | 1 |
| 1977032 | **306 180** | * | (*) | 180 | 650 | 70.0 | 265.0 | 24600 | 1 |
| 1360051 | **306 185** | * | (*) | 185 | 700 | 75.0 | 290.0 | 33000 | 1 |

| Code | No. | * | (*) | mm | L | a | b | | |
|---|---|---|---|---|---|---|---|---|---|
| 2315335 | **306 187** | * | (*) | 187 | 700 | 75.0 | 290.0 | 32600 | 1 |
| 1437798 | **306 190** | * | (*) | 190 | 700 | 75.0 | 290.0 | 32600 | 1 |
| 2315351 | **306 193** | * | (*) | 193 | 700 | 75.0 | 290.0 | 32600 | 1 |
| 2315386 | **306 195** | * | (*) | 195 | 700 | 75.0 | 290.0 | 31800 | 1 |
| 1493930 | **306 200** | * | (*) | 200 | 700 | 75.0 | 290.0 | 32000 | 1 |
| 2315408 | **306 205** | * | (*) | 205 | 750 | 80.0 | 320.0 | 40500 | 1 |
| 2315424 | **306 210** | * | (*) | 210 | 750 | 80.0 | 320.0 | 39500 | 1 |
| 2315432 | **306 215** | * | (*) | 215 | 750 | 80.0 | 320.0 | 39000 | 1 |
| 2315459 | **306 220** | * | (*) | 220 | 750 | 80.0 | 320.0 | 37400 | 1 |
| 2315467 | **306 225** | * | (*) | 225 | 750 | 80.0 | 320.0 | 36400 | 1 |
| 2315475 | **306 230** | * | (*) | 230 | 750 | 80.0 | 320.0 | 35400 | 1 |

"AF

| Code | No. | (*) | | "AF | L | a | b | | |
|---|---|---|---|---|---|---|---|---|---|
| 1421832 | **306 7/8AF** | (*) | | 7/8 | 165 | 15.0 | 43.0 | 220 | 1 |
| 2315483 | **306 15/16AF** | (*) | | 15/16 | 160 | 15.0 | 42.5 | 220 | 1 |
| 6474540 | **306 1AF** | | SAE | 1 | 160 | 15.0 | 42.5 | 262 | 1 |
| 6474620 | **306 1.1/16AF** | | | 1.1/16 | 180 | 15.5 | 47.0 | 325 | 1 |
| 6474700 | **306 1.1/8AF** | | | 1.1/8 | 180 | 15.5 | 47.0 | 315 | 1 |
| 6474890 | **306 1.3/16AF** | | | 1.3/16 | 190 | 16.5 | 51.5 | 389 | 1 |
| 6474970 | **306 1.1/4AF** | | | 1.1/4 | 190 | 16.5 | 51.5 | 386 | 1 |
| 6478530 | **306 1.5/16AF** | | | 1.5/16 | 195 | 16.5 | 53.0 | 415 | 1 |
| 6478610 | **306 1.3/8AF** | | SAE | 1.3/8 | 195 | 16.5 | 53.0 | 409 | 1 |
| 6478880 | **306 1.7/16AF** | | | 1.7/16 | 205 | 19.5 | 60.0 | 660 | 1 |
| 6478960 | **306 1.1/2AF** | | | 1.1/2 | 205 | 19.5 | 60.0 | 641 | 1 |
| 1442503 | **306 1.9/16AF** | (*) | | 1.9/16 | 225 | 20.5 | 66.0 | 700 | 1 |
| 6479180 | **306 1.5/8AF** | | | 1.5/8 | 225 | 20.5 | 66.0 | 820 | 1 |
| 6479260 | **306 1.11/16AF** | | | 1.11/16 | 225 | 20.5 | 66.0 | 766 | 1 |
| 6479340 | **306 1.3/4AF** | | | 1.3/4 | 225 | 20.5 | 66.0 | 770 | 1 |
| 6479420 | **306 1.13/16AF** | | | 1.13/16 | 240 | 22.5 | 75.0 | 982 | 1 |
| 6479500 | **306 1.7/8AF** | | | 1.7/8 | 240 | 22.5 | 75.0 | 985 | 1 |
| 1405373 | **306 1.15/16AF** | (*) | | 1.15/16 | 250 | 23.5 | 80.0 | 1100 | 1 |
| 6479690 | **306 2AF** | | | 2 | 250 | 23.5 | 80.0 | 1090 | 1 |
| 6479770 | **306 2.1/16AF** | | | 2.1/16 | 250 | 23.5 | 80.0 | 1079 | 1 |
| 6479850 | **306 2.1/8AF** | | | 2.1/8 | 250 | 23.5 | 80.0 | 1039 | 1 |
| 6479930 | **306 2.3/16AF** | | | 2.3/16 | 270 | 25.0 | 87.5 | 1431 | 1 |
| 6480000 | **306 2.1/4AF** | | | 2.1/4 | 270 | 25.0 | 87.5 | 1397 | 1 |
| 1442511 | **306 2.5/16AF** | (*) | | 2.5/16 | 270 | 26.0 | 93.5 | 1640 | 1 |
| 6480190 | **306 2.3/8AF** | | | 2.3/8 | 270 | 26.0 | 93.5 | 1616 | 1 |
| 6480270 | **306 2.7/16AF** | | | 2.7/16 | 270 | 26.0 | 93.5 | 1531 | 1 |
| 1435450 | **306 2.1/2AF** | (*) | | 2.1/2 | 290 | 29.0 | 101.0 | 1640 | 1 |
| 6480350 | **306 2.9/16AF** | | | 2.9/16 | 290 | 29.0 | 101.0 | 2076 | 1 |
| 6480430 | **306 2.5/8AF** | | | 2.5/8 | 290 | 29.0 | 101.0 | 2035 | 1 |
| 1435353 | **306 2.11/16AF** | (*) | | 2.11/16 | 290 | 29.0 | 101.0 | 2150 | 1 |
| 6480510 | **306 2.3/4AF** | | | 2.3/4 | 320 | 32.5 | 109.5 | 2545 | 1 |
| 5496060 | **306 2.13/16AF** | (*) | | 2.13/16 | 320 | 32.5 | 109.5 | 2950 | 1 |
| 1442538 | **306 2.7/8AF** | (*) | | 2.7/8 | 320 | 32.5 | 109.5 | 2950 | 1 |
| 5266730 | **306 2.15/16AF** | (*) | | 2.15/16 | 325 | 34.0 | 114.5 | 2800 | 1 |
| 6480780 | **306 3AF** | | | 3 | 325 | 34.0 | 114.5 | 3005 | 1 |
| 2315505 | **306 3.1/16AF** | (*) | | 3.1/16 | 325 | 34.0 | 114.5 | 2800 | 1 |
| 6480860 | **306 3.1/8AF** | | | 3.1/8 | 345 | 35.0 | 123.0 | 3365 | 1 |
| 2315564 | **306 3.3/16AF** | (*) | | 3.3/16 | 345 | 35.0 | 123.0 | 4000 | 1 |
| 1442546 | **306 3.1/4AF** | (*) | | 3.1/4 | 360 | 36.0 | 126.0 | 4000 | 1 |

| Code | No. | (*) | "AF | L | a | b | | |
|---|---|---|---|---|---|---|---|---|
| 2315572 | **306 3.5/16AF** | (*) | 3.5/16 | 360 | 36.0 | 126.0 | 3850 | 1 |
| 6480940 | **306 3.3/8AF** | | 3.3/8 | 360 | 36.0 | 126.0 | 3790 | 1 |
| 2315580 | **306 3.7/16AF** | (*) | 3.7/16 | 360 | 36.0 | 126.0 | 3850 | 1 |
| 6481080 | **306 3.1/2AF** | | 3.1/2 | 390 | 40.0 | 142.0 | 5125 | 1 |
| 2315599 | **306 3.9/16AF** | (*) | 3.9/16 | 390 | 40.0 | 142.0 | 5300 | 1 |
| 1442554 | **306 3.5/8AF** | (*) | 3.5/8 | 390 | 40.0 | 142.0 | 5300 | 1 |
| 2315513 | **306 3.11/16AF** | (*) | 3.11/16 | 390 | 40.0 | 142.0 | 5300 | 1 |
| 6481160 | **306 3.3/4AF** | | 3.3/4 | 400 | 41.5 | 152.0 | 6130 | 1 |
| 1954059 | **306 3.13/16AF** | (*) | 3.13/16 | 390 | 40.0 | 142.0 | 5100 | 1 |
| 6481240 | **306 3.7/8AF** | | 3.7/8 | 420 | 45.0 | 155.0 | 6150 | 1 |
| 2315556 | **306 3.15/16AF** | (*) | 3.15/16 | 420 | 45.0 | 155.0 | 6700 | 1 |
| 6481320 | **306 4AF** | | 4 | 420 | 45.0 | 155.0 | 6425 | 1 |
| 2315602 | **306 4.1/16AF** | (*) | 4.1/16 | 420 | 45.0 | 155.0 | 6700 | 1 |
| 6481400 | **306 4.1/8AF** | | 4.1/8 | 420 | 45.0 | 155.0 | 6205 | 1 |
| 1520911 | **306 4.3/16AF** | (*) | 4.3/16 | 450 | 48.0 | 170.0 | 6500 | 1 |
| 1401564 | **306 4.1/4AF** | (*) | 4.1/4 | 450 | 48.0 | 170.0 | 8300 | 1 |
| 1520768 | **306 4.5/16AF** | (*) | 4.5/16 | 450 | 48.0 | 170.0 | 8300 | 1 |
| 2315629 | **306 4.3/8AF** | (*) | 4.3/8 | 450 | 48.0 | 170.0 | 8300 | 1 |
| 2315637 | **306 4.7/16AF** | (*) | 4.7/16 | 450 | 48.0 | 170.0 | 8300 | 1 |
| 6481590 | **306 4.1/2AF** | | 4.1/2 | 450 | 48.0 | 170.0 | 7475 | 1 |
| 2315653 | **306 4.9/16AF** | (*) | 4.9/16 | 450 | 48.0 | 170.0 | 7800 | 1 |
| 1442562 | **306 4.5/8AF** | (*) | 4.5/8 | 450 | 48.0 | 170.0 | 7800 | 1 |
| 1442570 | **306 4.3/4AF** | (*) | 4.3/4 | 480 | 54.0 | 182.0 | 9900 | 1 |
| 2315610 | **306 4.13/16AF** | (*) | 4.13/16 | 480 | 54.0 | 182.0 | 9900 | 1 |
| 2315645 | **306 4.7/8AF** | (*) | 4.7/8 | 480 | 54.0 | 182.0 | 9900 | 1 |
| 1424165 | **306 5AF** | (*) | 5 | 480 | 54.0 | 182.0 | 9500 | 1 |
| 2315688 | **306 5.1/8AF** | (*) | 5.1/8 | 520 | 58.0 | 202.0 | 12700 | 1 |
| 2315696 | **306 5.3/16AF** | (*) | 5.3/16 | 520 | 58.0 | 202.0 | 12700 | 1 |
| 1520776 | **306 5.1/4AF** | (*) | 5.1/4 | 520 | 58.0 | 202.0 | 12700 | 1 |
| 2315661 | **306 5.1/2AF** | (*) | 5.1/2 | 520 | 58.0 | 202.0 | 12700 | 1 |
| 1350935 | **306 5.3/8AF** | (*) | 5.3/8 | 520 | 58.0 | 202.0 | 12700 | 1 |
| 2315726 | **306 5.5/8AF** | (*) | 5.5/8 | 580 | 64.0 | 228.0 | 19300 | 1 |
| 2315718 | **306 5.3/4AF** | (*) | 5.3/4 | 580 | 64.0 | 228.0 | 19300 | 1 |
| 2315734 | **306 5.7/8AF** | (*) | 5.7/8 | 580 | 64.0 | 228.0 | 19300 | 1 |
| 2315742 | **306 6AF** | (*) | 6 | 580 | 64.0 | 228.0 | 19300 | 1 |
| 2315769 | **306 6.1/8AF** | (*) | 6.1/8 | 580 | 64.0 | 228.0 | 19300 | 1 |
| 2315750 | **306 6.1/4AF** | (*) | 6.1/4 | 580 | 64.0 | 228.0 | 19300 | 1 |
| 2315777 | **306 6.3/8AF** | (*) | 6.3/8 | 580 | 64.0 | 228.0 | 19300 | 1 |
| 2315785 | **306 7.1/2AF** | (*) | 7.1/2 | 700 | 75.0 | 290.0 | 32600 | 1 |

Whitw.

| Code | No. | (*) | Whitw. | a | b | L | | |
|---|---|---|---|---|---|---|---|---|
| 2315831 | **306 9/16W** | (*) | 9/16 | 15.0 | 42.5 | 160 | 220 | 1 |
| 1505637 | **306 5/8W** | (*) | 5/8 | 15.5 | 47.0 | 180 | 320 | 1 |
| 1607103 | **306 11/16W** | (*) | 11/16 | 16.5 | 51.5 | 190 | 360 | 1 |
| 1428977 | **306 3/4W** | (*) | 3/4 | 16.5 | 53.0 | 195 | 360 | 1 |
| 1505645 | **306 13/16W** | (*) | 13/16 | 19.5 | 60.0 | 205 | 500 | 1 |
| 1386727 | **306 7/8W** | (*) | 7/8 | 19.5 | 60.0 | 205 | 500 | 1 |
| 2315793 | **306 15/16W** | (*) | 15/16 | 20.5 | 66.0 | 225 | 700 | 1 |
| 1464035 | **306 1W** | (*) | 1 | 20.5 | 66.0 | 225 | 700 | 1 |
| 1428985 | **306 1.1/8W** | (*) | 1.1/8 | 22.5 | 75.0 | 240 | 950 | 1 |
| 1500589 | **306 1.1/4W** | (*) | 1.1/4 | 23.5 | 80.0 | 250 | 1100 | 1 |
| 1501607 | **306 1.3/8W** | (*) | 1.3/8 | 25.0 | 87.5 | 270 | 1400 | 1 |

| Code | No. | (*) | Whitw. | a | b | L | | |
|---|---|---|---|---|---|---|---|---|
| 1464043 | **306 1.1/2W** | (*) | 1.1/2 | 26.0 | 93.5 | 270 | 1640 | 1 |
| 1464027 | **306 1.5/8W** | (*) | 1.5/8 | 29.0 | 101.0 | 290 | 2150 | 1 |
| 1464051 | **306 1.3/4W** | (*) | 1.3/4 | 32.5 | 109.5 | 320 | 2950 | 1 |
| 1505653 | **306 1.7/8W** | (*) | 1.7/8 | 33.0 | 110.0 | 330 | 2800 | 1 |
| 1505661 | **306 2W** | (*) | 2 | 36.0 | 126.0 | 360 | 4000 | 1 |
| 1607111 | **306 2.1/4W** | (*) | 2.1/4 | 40.0 | 142.0 | 390 | 5300 | 1 |
| 1607138 | **306 2.1/2W** | (*) | 2.1/2 | 45.0 | 155.0 | 420 | 6700 | 1 |
| 2315807 | **306 2.3/4W** | (*) | 2.3/4 | 45.0 | 155.0 | 420 | 6500 | 1 |
| 2315815 | **306 3W** | (*) | 3 | 48.0 | 170.0 | 450 | 7800 | 1 |
| 2315823 | **306 3.3/4W** | (*) | 3.3/4 | 64.0 | 228.0 | 580 | 12700 | 1 |

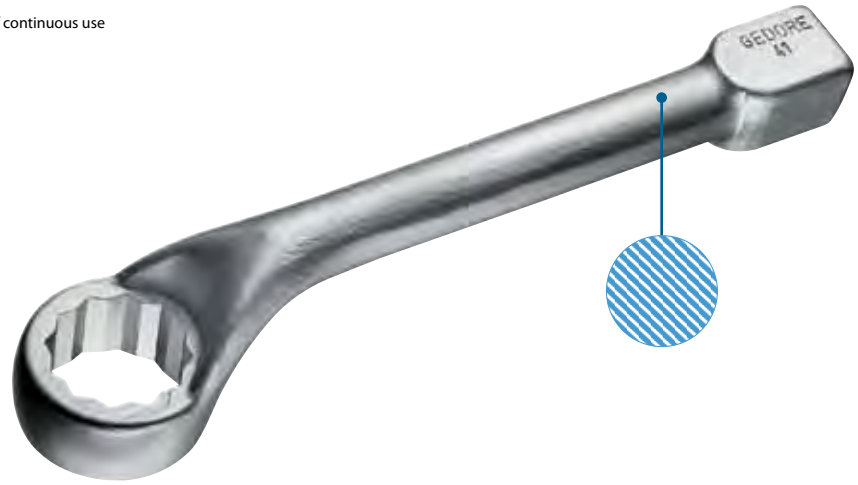
Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

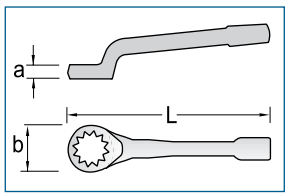
## 306 G

### RING SLOGGING SPANNER DEEP OFFSET

- For very heavy-duty work
- To use with club hammer or pneumatic hammer for tightening or loosening
- Hot forged, sandblasted
- Top-grade industrial quality for the hardest of continuous use

**Spanner sizes:**
- Metric dimensions: 27 - 115 mm
- Imperial dimensions: 1.1/16" - 4.5/8"
- Whitworth dimensions: 9/16 W - 2 W




| mm | "AF | Whitw. |
|---|---|---|
| 27 | 1 1/16" | 9/16" |
| — | — | — |
| 115 | 4 5/8" | 2" |

mm

| Code | No. | (*) | mm | L | a | b | | |
|---|---|---|---|---|---|---|---|---|
| 1415875 | **306 G 27** | | 27 | 270 | 25.0 | 51.0 | 1098 | 1 |
| 1415913 | **306 G 30** | | 30 | 270 | 25.0 | 51.0 | 1080 | 1 |
| 1415972 | **306 G 32** | | 32 | 270 | 25.0 | 51.0 | 1061 | 1 |
| 1416014 | **306 G 36** | | 36 | 310 | 30.0 | 67.0 | 2010 | 1 |
| 1540203 | **306 G 38** | (*) | 38 | 310 | 30.0 | 67.0 | 1900 | 1 |
| 1935925 | **306 G 39** | (*) | 39 | 310 | 30.0 | 67.0 | 1900 | 1 |
| 1416057 | **306 G 41** | | 41 | 310 | 30.0 | 67.0 | 1842 | 1 |
| 1540211 | **306 G 43** | (*) | 43 | 340 | 35.0 | 79.0 | 1900 | 1 |
| 1416111 | **306 G 46** | | 46 | 340 | 35.0 | 79.0 | 2950 | 1 |
| 1416197 | **306 G 50** | | 50 | 360 | 40.0 | 94.0 | 4410 | 1 |
| 1416227 | **306 G 55** | | 55 | 360 | 40.0 | 94.0 | 4155 | 1 |
| 1416308 | **306 G 60** | | 60 | 380 | 45.0 | 108.0 | 5690 | 1 |
| 1416332 | **306 G 65** | | 65 | 380 | 45.0 | 108.0 | 5490 | 1 |
| 1416405 | **306 G 70** | | 70 | 406 | 50.0 | 126.0 | 7455 | 1 |
| 1416456 | **306 G 75** | | 75 | 406 | 50.0 | 126.0 | 7165 | 1 |
| 1416480 | **306 G 80** | | 80 | 406 | 50.0 | 126.0 | 6970 | 1 |
| 1416537 | **306 G 85** | | 85 | 459 | 57.0 | 151.0 | 10630 | 1 |
| 1416553 | **306 G 90** | | 90 | 459 | 57.0 | 151.0 | 10480 | 1 |
| 1416588 | **306 G 95** | | 95 | 459 | 57.0 | 151.0 | 9830 | 1 |
| 1416618 | **306 G 100** | | 100 | 459 | 57.0 | 151.0 | 9700 | 1 |
| 1416642 | **306 G 105** | | 105 | 510 | 68.0 | 172.0 | 16100 | 1 |
| 1416669 | **306 G 110** | | 110 | 510 | 68.0 | 172.0 | 13565 | 1 |
| 1416685 | **306 G 115** | | 115 | 510 | 68.0 | 173.0 | 16100 | 1 |

Whitw.

| Code | No. | Whitw. | L | a | b | | |
|---|---|---|---|---|---|---|---|
| 1415905 | **306 G 9/16W** | 9/16 | 270 | 25.0 | 51.0 | 1130 | 1 |
| 1415891 | **306 G 5/8W** | 5/8 | 270 | 25.0 | 51.0 | 1118 | 1 |
| 1415956 | **306 G 11/16W** | 11/16 | 270 | 25.0 | 51.0 | 1103 | 1 |
| 1415999 | **306 G 3/4W** | 3/4 | 270 | 25.0 | 51.0 | 1061 | 1 |
| 1416030 | **306 G 13/16W** | 13/16 | 310 | 30.0 | 67.0 | 1993 | 1 |
| 1416073 | **306 G 7/8W** | 7/8 | 310 | 30.0 | 67.0 | 1942 | 1 |
| 1416103 | **306 G 15/16W** | 15/16 | 310 | 30.0 | 67.0 | 1901 | 1 |
| 1416146 | **306 G 1W** | 1 | 340 | 35.0 | 79.0 | 3030 | 1 |
| 1416162 | **306 G 1.1/8W** | 1.1/8 | 340 | 35.0 | 79.0 | 2885 | 1 |
| 1416219 | **306 G 1.1/4W** | 1.1/4 | 360 | 40.0 | 94.0 | 4350 | 1 |
| 1416243 | **306 G 1.3/8W** | 1.3/8 | 360 | 40.0 | 94.0 | 4130 | 1 |
| 1416324 | **306 G 1.1/2W** | 1.1/2 | 380 | 45.0 | 108.0 | 5665 | 1 |
| 1416367 | **306 G 1.5/8W** | 1.5/8 | 380 | 45.0 | 108.0 | 5555 | 1 |
| 1416448 | **306 G 1.3/4W** | 1.3/4 | 406 | 50.0 | 126.0 | 7405 | 1 |
| 1416472 | **306 G 1.7/8W** | 1.7/8 | 406 | 50.0 | 126.0 | 7105 | 1 |
| 1416502 | **306 G 2W** | 2 | 406 | 50.0 | 126.0 | 6865 | 1 |

"AF

| Code | No. | (*) | "AF | L | a | b | | |
|---|---|---|---|---|---|---|---|---|
| 1415883 | **306 G 1.1/16AF** | | 1.1/16 | 270 | 25.0 | 51.0 | 1111 | 1 |
| 1415948 | **306 G 1.1/8AF** | | 1.1/8 | 270 | 25.0 | 51.0 | 1104 | 1 |
| 1415964 | **306 G 1.3/16AF** | | 1.3/16 | 270 | 25.0 | 51.0 | 1094 | 1 |
| 1415980 | **306 G 1.1/4AF** | | 1.1/4 | 270 | 25.0 | 51.0 | 1084 | 1 |
| 1416006 | **306 G 1.5/16AF** | | 1.5/16 | 270 | 25.0 | 51.0 | 1066 | 1 |
| 1416049 | **306 G 1.3/8AF** | | 1.3/8 | 310 | 30.0 | 67.0 | 1982 | 1 |
| 1416022 | **306 G 1.7/16AF** | | 1.7/16 | 310 | 30.0 | 67.0 | 1945 | 1 |
| 1416065 | **306 G 1.1/2AF** | | 1.1/2 | 310 | 30.0 | 67.0 | 1957 | 1 |
| 1416081 | **306 G 1.5/8AF** | | 1.5/8 | 310 | 30.0 | 67.0 | 1910 | 1 |
| 1416138 | **306 G 1.11/16AF** | | 1.11/16 | 340 | 35.0 | 79.0 | 3015 | 1 |
| 1416154 | **306 G 1.3/4AF** | | 1.3/4 | 340 | 35.0 | 79.0 | 2975 | 1 |
| 1416170 | **306 G 1.13/16AF** | | 1.13/16 | 340 | 35.0 | 79.0 | 2975 | 1 |
| 1416189 | **306 G 1.7/8AF** | | 1.7/8 | 340 | 35.0 | 79.0 | 2885 | 1 |
| 1416200 | **306 G 1.15/16AF** | | 1.15/16 | 360 | 40.0 | 94.0 | 4285 | 1 |
| 1416235 | **306 G 2AF** | | 2 | 360 | 40.0 | 94.0 | 4250 | 1 |
| 1416278 | **306 G 2.1/16AF** | | 2.1/16 | 360 | 40.0 | 94.0 | 4190 | 1 |
| 1416251 | **306 G 2.1/8AF** | | 2.1/8 | 360 | 40.0 | 94.0 | 4130 | 1 |
| 1416286 | **306 G 2.3/16AF** | | 2.3/16 | 360 | 40.0 | 94.0 | 4150 | 1 |
| 1416294 | **306 G 2.1/4AF** | | 2.1/4 | 360 | 40.0 | 94.0 | 4070 | 1 |
| 1416316 | **306 G 2.5/16AF** | | 2.5/16 | 380 | 45.0 | 108.0 | 5680 | 1 |
| 1416359 | **306 G 2.3/8AF** | | 2.3/8 | 380 | 45.0 | 108.0 | 5600 | 1 |
| 1680455 | **306 G 2.7/16AF** | (*) | 2.7/16 | 380 | 45.0 | 108.0 | 5500 | 1 |
| 1416375 | **306 G 2.1/2AF** | | 2.1/2 | 380 | 45.0 | 108.0 | 5475 | 1 |
| 1416383 | **306 G 2.9/16AF** | | 2.9/16 | 380 | 45.0 | 108.0 | 5455 | 1 |
| 1416391 | **306 G 2.5/8AF** | | 2.5/8 | 380 | 45.0 | 108.0 | 5455 | 1 |
| 1416413 | **306 G 2.3/4AF** | | 2.3/4 | 406 | 50.0 | 126.0 | 7475 | 1 |
| 1416464 | **306 G 2.7/8AF** | | 2.7/8 | 406 | 50.0 | 126.0 | 7305 | 1 |
| 1416499 | **306 G 2.15/16AF** | | 2.15/16 | 406 | 50.0 | 126.0 | 7205 | 1 |
| 1416510 | **306 G 3AF** | | 3 | 406 | 50.0 | 126.0 | 7130 | 1 |
| 1416529 | **306 G 3.1/8AF** | | 3.1/8 | 406 | 50.0 | 126.0 | 6915 | 1 |
| 1416545 | **306 G 3.3/8AF** | | 3.3/8 | 459 | 57.0 | 151.0 | 10450 | 1 |
| 1416561 | **306 G 3.1/2AF** | | 3.1/2 | 459 | 57.0 | 151.0 | 10400 | 1 |
| 1416596 | **306 G 3.3/4AF** | | 3.3/4 | 459 | 57.0 | 151.0 | 10600 | 1 |
| 1416626 | **306 G 3.7/8AF** | | 3.7/8 | 459 | 57.0 | 151.0 | 9650 | 1 |
| 1416634 | **306 G 4AF** | | 4 | 459 | 57.0 | 151.0 | 9355 | 1 |
| 1416650 | **306 G 4.1/8AF** | | 4.1/8 | 510 | 68.0 | 172.0 | 16100 | 1 |
| 1416677 | **306 G 4.1/4AF** | | 4.1/4 | 510 | 68.0 | 172.0 | 16100 | 1 |
| 1416693 | **306 G 4.1/2AF** | | 4.1/2 | 510 | 68.0 | 172.0 | 16100 | 1 |
| 1416707 | **306 G 4.5/8AF** | | 4.5/8 | 510 | 68.0 | 172.0 | 16100 | 1 |

Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

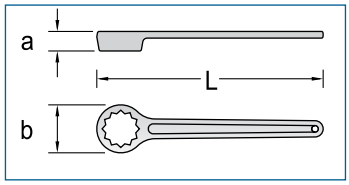
## 308

### DEEP RING SPANNER straight pattern

- Acc. to DIN 3111
- In heat-treated steel as per EN 10083, shotblast finish
- Further sizes available on request
- * not standardised
- Top-grade industrial quality for the hardest of continuous use

**Spanner sizes:**
- Metric dimensions: 13 - 95 mm
- Imperial dimensions: 13/16" - 3.1/8"
- Whitworth dimensions: 9/16 W - 1 3/8 W

| mm | "AF | Whitw. |
|---|---|---|
| 13 | 13/16" | 9/16" |
| — | — | — |
| 95 | 3 1/8" | 1 3/8" |



mm

| Code | No. | * | (*) | mm | L | a | b | | |
|---|---|---|---|---|---|---|---|---|---|
| 2314320 | **308 13** | * | (*) | 13 | 138 | 8.3 | 25.0 | 80 | 1 |
| 2314339 | **308 14** | * | (*) | 14 | 138 | 8.3 | 25.0 | 80 | 1 |
| 2314347 | **308 15** | * | (*) | 15 | 138 | 8.3 | 25.0 | 80 | 1 |
| 2314363 | **308 16** | * | (*) | 16 | 155 | 9.5 | 31.0 | 80 | 1 |
| 2314371 | **308 17** | * | (*) | 17 | 155 | 9.5 | 31.0 | 80 | 1 |
| 2314398 | **308 18** | * | (*) | 18 | 155 | 9.5 | 31.0 | 80 | 1 |
| 2314401 | **308 19** | * | (*) | 19 | 171 | 11.5 | 34.0 | 100 | 1 |
| 2314428 | **308 20** | * | (*) | 20 | 171 | 11.5 | 34.0 | 100 | 1 |
| 2314444 | **308 21** | * | (*) | 21 | 190 | 13.0 | 37.5 | 140 | 1 |
| 1806521 | **308 22** | * | (*) | 22 | 190 | 13.0 | 37.5 | 140 | 1 |
| 1793659 | **308 24** | * | (*) | 24 | 215 | 15.0 | 38.5 | 200 | 1 |
| 2106140 | **308 25** | * | (*) | 25 | 215 | 15.0 | 38.5 | 200 | 1 |
| 2106167 | **308 26** | * | (*) | 26 | 230 | 16.0 | 41.5 | 240 | 1 |
| 1537849 | **308 27** | | (*) | 27 | 230 | 16.0 | 41.5 | 240 | 1 |
| 2106175 | **308 28** | * | (*) | 28 | 230 | 16.0 | 41.5 | 240 | 1 |
| 2106183 | **308 29** | * | (*) | 29 | 254 | 18.0 | 47.5 | 300 | 1 |
| 1606255 | **308 30** | | (*) | 30 | 254 | 18.0 | 45.1 | 300 | 1 |
| 6481750 | **308 32** | | | 32 | 265 | 19.0 | 49.0 | 358 | 1 |
| 2106191 | **308 33** | * | (*) | 33 | 265 | 19.0 | 49.0 | 350 | 1 |
| 2106205 | **308 34** | * | (*) | 34 | 295 | 22.0 | 56.0 | 500 | 1 |
| 6481830 | **308 36** | * | | 36 | 295 | 22.0 | 56.0 | 473 | 1 |

mm

| Code | No. | * | (*) | mm | L | a | b | | |
|---|---|---|---|---|---|---|---|---|---|
| 2106213 | **308 38** | * | (*) | 38 | 295 | 22.0 | 56.0 | 500 | 1 |
| 1606263 | **308 39** | * | (*) | 39 | 330 | 25.0 | 63.5 | 700 | 1 |
| 6481910 | **308 41** | | | 41 | 330 | 25.0 | 63.5 | 717 | 1 |
| 2106221 | **308 43** | * | (*) | 43 | 330 | 25.0 | 63.5 | 700 | 1 |
| 2314452 | **308 44** | * | (*) | 44 | 365 | 27.0 | 70.5 | 950 | 1 |
| 6482050 | **308 46** | | | 46 | 365 | 27.0 | 70.5 | 925 | 1 |
| 2314460 | **308 47** | * | (*) | 47 | 365 | 27.0 | 70.5 | 950 | 1 |
| 6482130 | **308 50** | | | 50 | 400 | 28.0 | 77.0 | 1230 | 1 |
| 2314479 | **308 52** | * | (*) | 52 | 400 | 28.0 | 77.0 | 1300 | 1 |
| 6482210 | **308 55** | | | 55 | 442 | 29.5 | 83.5 | 1626 | 1 |
| 2314487 | **308 56** | * | (*) | 56 | 442 | 29.5 | 83.5 | 1550 | 1 |
| 2314495 | **308 57** | * | (*) | 57 | 442 | 29.5 | 83.5 | 1550 | 1 |
| 2314509 | **308 58** | * | (*) | 58 | 442 | 29.5 | 83.5 | 1550 | 1 |
| 6482480 | **308 60** | | | 60 | 475 | 30.0 | 89.5 | 1792 | 1 |
| 6482560 | **308 65** | * | | 65 | 510 | 32.0 | 97.0 | 2208 | 1 |
| 6482640 | **308 70** | | (*) | 70 | 555 | 35.0 | 106.0 | 2600 | 1 |
| 6482720 | **308 75** | | (*) | 75 | 590 | 38.0 | 114.0 | 3200 | 1 |
| 6482800 | **308 80** | | (*) | 80 | 620 | 40.0 | 120.5 | 3800 | 1 |
| 6482990 | **308 85** | | (*) | 85 | 665 | 42.0 | 127.5 | 4400 | 1 |
| 1812629 | **308 90** | | (*) | 90 | 698 | 45.0 | 135.5 | 5800 | 1 |
| 1558285 | **308 95** | | (*) | 95 | 700 | 45.0 | 140.0 | 5500 | 1 |

"AF

| Code | No. | (*) | "AF | L | a | b | | |
|---|---|---|---|---|---|---|---|---|
| 2314517 | **308 13/16AF** | (*) | 13/16 | 171 | 11.5 | 34.0 | 100 | 1 |
| 2314525 | **308 7/8AF** | (*) | 7/8 | 215 | 15.0 | 38.5 | 140 | 1 |
| 2314541 | **308 15/16AF** | (*) | 15/16 | 215 | 15.0 | 38.5 | 200 | 1 |
| 2314568 | **308 1.1/16AF** | (*) | 1.1/16 | 230 | 16.0 | 41.5 | 240 | 1 |
| 2314576 | **308 1.1/8AF** | (*) | 1.1/8 | 230 | 16.0 | 41.5 | 240 | 1 |
| 2314606 | **308 1.1/4AF** | (*) | 1.1/4 | 265 | 19.0 | 49.0 | 350 | 1 |
| 2314614 | **308 1.5/16AF** | (*) | 1.5/16 | 265 | 19.0 | 49.0 | 350 | 1 |
| 2314622 | **308 1.3/8AF** | (*) | 1.3/8 | 295 | 22.0 | 56.0 | 500 | 1 |
| 2314630 | **308 1.1/2AF** | (*) | 1.1/2 | 295 | 22.0 | 56.0 | 500 | 1 |
| 2314649 | **308 1.5/8AF** | (*) | 1.5/8 | 330 | 25.0 | 63.5 | 700 | 1 |
| 2314657 | **308 1.11/16AF** | (*) | 1.11/16 | 330 | 25.0 | 63.5 | 700 | 1 |
| 2314665 | **308 1.3/4AF** | (*) | 1.3/4 | 365 | 27.0 | 70.5 | 950 | 1 |
| 2314673 | **308 1.13/16AF** | (*) | 1.13/16 | 365 | 27.0 | 70.5 | 950 | 1 |
| 2314681 | **308 1.7/8AF** | (*) | 1.7/8 | 365 | 27.0 | 70.5 | 950 | 1 |
| 1922351 | **308 2AF** | (*) | 2 | 400 | 28.0 | 77.0 | 1300 | 1 |
| 2314703 | **308 2.1/4AF** | (*) | 2.1/4 | 442 | 29.5 | 83.5 | 1550 | 1 |

"AF

| Code | No. | (*) | "AF | L | a | b | | |
|---|---|---|---|---|---|---|---|---|
| 1924516 | **308 2.3/8AF** | (*) | 2.3/8 | 475 | 30.0 | 89.5 | 1800 | 1 |
| 2314711 | **308 2.1/2AF** | (*) | 2.1/2 | 510 | 32.0 | 97.0 | 2300 | 1 |
| 2314738 | **308 2.5/8AF** | (*) | 2.5/8 | 510 | 32.0 | 97.0 | 2300 | 1 |
| 2314746 | **308 2.3/4AF** | (*) | 2.3/4 | 555 | 35.0 | 106.0 | 2600 | 1 |
| 2314754 | **308 2.15/16AF** | (*) | 2.15/16 | 590 | 38.0 | 114.0 | 3200 | 1 |
| 2314762 | **308 3AF** | (*) | 3 | 590 | 38.0 | 114.0 | 3200 | 1 |
| 2314770 | **308 3.1/8AF** | (*) | 3.1/8 | 620 | 40.0 | 120.5 | 3800 | 1 |

Whitw.

| Code | No. | (*) | Whitw. | L | a | b | | |
|---|---|---|---|---|---|---|---|---|
| 2314789 | **308 9/16W** | (*) | 9/16 | 215 | 15.0 | 38.5 | 200 | 1 |
| 2314797 | **308 5/8W** | (*) | 5/8 | 230 | 16.0 | 41.5 | 240 | 1 |
| 2314800 | **308 1.3/8W** | (*) | 1.3/8 | 442 | 29.5 | 83.5 | 1550 | 1 |

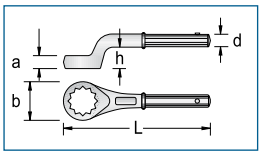
Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

## 2 A

### SINGLE ENDED RING SPANNER offset

- Heavy-duty pattern for highest torques
- GEDORE vanadium steel 31CrV3, polished ring, chrome-plated
- Top-grade industrial quality for the hardest of continuous use
- Optional accessories: No. 2 AR extension tube for extending the lever arm

**Spanner sizes:**
- Metric dimensions: 22 - 105 mm
- Imperial dimensions: 7/8" - 4.1/8"
- Whitworth dimensions: 1/2W - 2.1/2W



| mm | "AF | Whitw. |
|---|---|---|
| 22 — 105 | 7/8" — 4 1/8" | 1/2" — 2 1/2" |

mm

| Code | No. | mm | L | a | b | d | h | 2 AR | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1449354 | **2 A 22** | 22 | 180 | 17.0 | 36.0 | 18.3 | 29.0 | 0 | 380 | 1 |
| 6033840 | **2 A 24** | 24 | 180 | 17.0 | 38.0 | 18.3 | 29.0 | 0 | 389 | 1 |
| 1607154 | **2 A 25** | 25 | 180 | 17.0 | 38.0 | | | 0 | 380 | 1 |
| 1505785 | **2 A 26** | 26 | 190 | 17.0 | 42.0 | | | 0 | 430 | 1 |
| 6033920 | **2 A 27** | 27 | 190 | 17.4 | 41.5 | 18.3 | 31.5 | 0 | 430 | 1 |
| 1505793 | **2 A 28** | 28 | 190 | 17.0 | 42.0 | | | 0 | 430 | 1 |
| 6034060 | **2 A 30** | 30 | 200 | 18.4 | 47.0 | 18.3 | 33.0 | 0 | 514 | 1 |
| 1607162 | **2 A 29** | 29 | 200 | 18.4 | 47.0 | | | 0 | 550 | 1 |
| 1505807 | **2 A 31** | 31 | 200 | 18.4 | 47.0 | | | 0 | 700 | 1 |
| 6034140 | **2 A 32** | 32 | 235 | 18.4 | 50.0 | 21.3 | 34.0 | 0 | 732 | 1 |
| 1505815 | **2 A 33** | 33 | 235 | 18.4 | 50.0 | | | 0 | 700 | 1 |
| 6030150 | **2 A 34** | 34 | 235 | 18.4 | 50.0 | 21.3 | 34.0 | 1 | 748 | 1 |
| 2315858 | **2 A 35** | 35 | 245 | 20.0 | 55.0 | | | 1 | 840 | 1 |
| 6034220 | **2 A 36** | 36 | 245 | 20.0 | 55.0 | 21.3 | 35.0 | 1 | 796 | 1 |
| 1607219 | **2 A 37** | 37 | 245 | 20.0 | 55.0 | | | 1 | 840 | 1 |
| 1588710 | **2 A 38** | 38 | 250 | 21.0 | 55.0 | 21.3 | 37.0 | 1 | 840 | 1 |
| 1407112 | **2 A 39** | 39 | 250 | 21.0 | 55.0 | | | 1 | 850 | 1 |
| 6034300 | **2 A 41** | 41 | 265 | 22.0 | 61.5 | 21.3 | 39.0 | 1 | 934 | 1 |
| 1485407 | **2 A 40** | 40 | 265 | 22.0 | 61.5 | | | 1 | 1000 | 1 |
| 1459163 | **2 A 42** | 42 | 265 | 22.0 | 61.5 | | | 1 | 1000 | 1 |
| 2315866 | **2 A 43** | 43 | 265 | 22.0 | 61.5 | | | 1 | 1000 | 1 |
| 2315874 | **2 A 44** | 44 | 280 | 23.0 | 68.5 | | | 2 | 1300 | 1 |
| 2315882 | **2 A 45** | 45 | 280 | 23.0 | 68.5 | | | 2 | 1300 | 1 |
| 6034490 | **2 A 46** | 46 | 280 | 23.0 | 68.5 | 24.1 | 40.0 | 2 | 1220 | 1 |
| 2315890 | **2 A 47** | 47 | 280 | 23.0 | 68.5 | | | 2 | 1300 | 1 |
| 1483978 | **2 A 48** | 48 | 290 | 25.5 | 75.0 | | | 2 | 1450 | 1 |
| 2315904 | **2 A 49** | 49 | 290 | 25.5 | 75.0 | | | 2 | 1450 | 1 |
| 6034570 | **2 A 50** | 50 | 290 | 25.5 | 75.0 | 24.1 | 42.0 | 2 | 1388 | 1 |
| 1813870 | **2 A 51** | 51 | 290 | 25.5 | 75.0 | | | 2 | 1450 | 1 |
| 1505823 | **2 A 52** | 52 | 290 | 25.5 | 75.0 | | | 2 | 1450 | 1 |
| 2315912 | **2 A 53** | 53 | 300 | 28.0 | 80.0 | | | 2 | 1500 | 1 |
| 2315920 | **2 A 54** | 54 | 300 | 28.0 | 80.0 | | | 2 | 1500 | 1 |
| 6034650 | **2 A 55** | 55 | 300 | 28.0 | 80.0 | 24.1 | 45.0 | 2 | 1492 | 1 |
| 1485415 | **2 A 56** | 56 | 300 | 28.0 | 80.0 | | | 2 | 1500 | 1 |
| 1505831 | **2 A 57** | 57 | 300 | 28.0 | 80.0 | | | 2 | 1500 | 1 |
| 1477781 | **2 A 58** | 58 | 300 | 28.0 | 80.0 | | | 3 | 1500 | 1 |
| 2315939 | **2 A 59** | 59 | 345 | 30.5 | 89.0 | | | 3 | 2300 | 1 |

| Code | No. | mm | L | a | b | d | h | 2 AR | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6034730 | **2 A 60** | 60 | 345 | 30.5 | 89.0 | 29.1 | 49.0 | 3 | 2283 | 1 |
| 2315947 | **2 A 61** | 61 | 345 | 30.5 | 89.0 | | | 3 | 2300 | 1 |
| 2315955 | **2 A 62** | 62 | 345 | 30.5 | 89.0 | | | 3 | 2300 | 1 |
| 1536346 | **2 A 63** | 63 | 345 | 30.5 | 89.0 | | | 3 | 2300 | 1 |
| 6034810 | **2 A 65** | 65 | 355 | 33.0 | 97.0 | 29.1 | 53.0 | 3 | 2535 | 1 |
| 1813897 | **2 A 64** | 64 | 355 | 33.0 | 97.0 | | | 3 | 2370 | 1 |
| 1505858 | **2 A 67** | 67 | 355 | 33.0 | 97.0 | | | 3 | 2370 | 1 |
| 1485423 | **2 A 68** | 68 | 355 | 33.0 | 97.0 | | | 3 | 2370 | 1 |
| 1485431 | **2 A 69** | 69 | 365 | 35.5 | 104.0 | | | 3 | 2800 | 1 |
| 6035030 | **2 A 70** | 70 | 365 | 35.5 | 104.0 | 29.1 | 55.0 | 3 | 2736 | 1 |
| 1422715 | **2 A 71** | 71 | 365 | 35.5 | 104.0 | | | 3 | 2800 | 1 |
| 2315963 | **2 A 72** | 72 | 375 | 38.0 | 109.0 | | | 3 | 3000 | 1 |
| 1813900 | **2 A 73** | 73 | 375 | 38.0 | 109.0 | | | 3 | 3000 | 1 |
| 1813919 | **2 A 74** | 74 | 375 | 38.0 | 109.0 | | | 3 | 3000 | 1 |
| 6035110 | **2 A 75** | 75 | 375 | 38.0 | 109.0 | 29.1 | 57.5 | 3 | 2982 | 1 |
| 2315971 | **2 A 76** | 76 | 375 | 38.0 | 109.0 | | | 3 | 3000 | 1 |
| 1422995 | **2 A 77** | 77 | 385 | 40.5 | 124.0 | | | 3 | 3500 | 1 |
| 1485458 | **2 A 78** | 78 | 385 | 40.5 | 124.0 | | | 3 | 3500 | 1 |
| 6035380 | **2 A 80** | 80 | 385 | 40.5 | 124.0 | 29.1 | 59.0 | 3 | 3770 | 1 |
| 2315998 | **2 A 81** | 81 | 385 | 40.5 | 124.0 | | | 3 | 3500 | 1 |
| 2316005 | **2 A 82** | 82 | 385 | 40.5 | 124.0 | | | 3 | 3500 | 1 |
| 6035460 | **2 A 85** | 85 | 385 | 40.5 | 124.0 | 29.1 | 59.0 | 3 | 3605 | 1 |
| 2316013 | **2 A 86** | 86 | 385 | 40.5 | 124.0 | | | 3 | 3500 | 1 |
| 2316021 | **2 A 87** | 87 | 410 | 45.0 | 140.0 | | | 3 | 4900 | 1 |
| 2316048 | **2 A 88** | 88 | 410 | 45.0 | 140.0 | | | 3 | 4900 | 1 |
| 6035540 | **2 A 90** | 90 | 410 | 45.0 | 140.0 | 29.1 | 63.0 | 3 | 4850 | 1 |
| 2316056 | **2 A 91** | 91 | 410 | 45.0 | 140.0 | | | 3 | 4900 | 1 |
| 2316064 | **2 A 94** | 94 | 410 | 45.0 | 140.0 | | | 3 | 4900 | 1 |
| 6035620 | **2 A 95** | 95 | 410 | 45.0 | 140.0 | 29.1 | 63.0 | 3 | 4540 | 1 |
| 1813927 | **2 A 96** | 96 | 410 | 45.0 | 140.0 | | | 3 | 4900 | 1 |
| 1813935 | **2 A 97** | 97 | 410 | 45.0 | 140.0 | | | 3 | 4900 | 1 |
| 1813943 | **2 A 98** | 98 | 410 | 45.0 | 140.0 | | | 3 | 4900 | 1 |
| 2316072 | **2 A 99** | 99 | 410 | 45.0 | 140.0 | | | 3 | 4900 | 1 |
| 6035700 | **2 A 100** | 100 | | | | | | 3 | 4900 | 1 |
| 2316080 | **2 A 102** | 102 | 412 | 45.0 | 142.0 | | | 3 | 4900 | 1 |
| 2316099 | **2 A 104** | 104 | 415 | 45.0 | 144.0 | | | 3 | 4900 | 1 |
| 2316102 | **2 A 105** | 105 | 415 | 45.0 | 144.0 | | 9.0 | 3 | 4600 | 1 |



Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

## 2 A

| Code | No. | (*) | "AF | L | a | b | 2 AR | | |
|---|---|---|---|---|---|---|---|---|---|
| 2316110 | **2 A 7/8AF** | (*) | 7/8 | 180 | 17.0 | 36.0 | 0 | 380 | 1 |
| 1505866 | **2 A 15/16AF** | (*) | 15/16 | 180 | 17.0 | 36.0 | 0 | 350 | 1 |
| 1505874 | **2 A 1AF** | (*) | 1 | 180 | 17.0 | 38.0 | 0 | | 1 |
| 1490184 | **2 A 1.1/16AF** | (*) | 1.1/16 | 190 | 17.4 | 41.5 | 0 | | 1 |
| 1456024 | **2 A 1.1/8AF** | (*) | 1.1/8 | 200 | 18.4 | 47.0 | 0 | 550 | 1 |
| 1505882 | **2 A 1.3/16AF** | (*) | 1.3/16 | 200 | 18.4 | 47.0 | 0 | 550 | 1 |
| 1425722 | **2 A 1.1/4AF** | (*) | 1.1/4 | 235 | 18.4 | 50.0 | 1 | 700 | 1 |
| 1490206 | **2 A 1.5/16AF** | (*) | 1.5/16 | 235 | 18.4 | 50.0 | 1 | 700 | 1 |
| 1490214 | **2 A 1.3/8AF** | (*) | 1.3/8 | 245 | 20.0 | 55.0 | 1 | 840 | 1 |
| 1425714 | **2 A 1.7/16AF** | (*) | 1.7/16 | 245 | 20.0 | 55.0 | 1 | 840 | 1 |
| 1490222 | **2 A 1.1/2AF** | (*) | 1.1/2 | | | | 1 | | 1 |
| 1490338 | **2 A 1.9/16AF** | (*) | 1.9/16 | 265 | 22.0 | 61.5 | 1 | 1000 | 1 |
| 1484265 | **2 A 1.5/8AF** | (*) | 1.5/8 | 265 | 22.0 | 61.5 | 1 | 1000 | 1 |
| 1490230 | **2 A 1.11/16AF** | (*) | 1.11/16 | 265 | 22.0 | 61.5 | 1 | 1000 | 1 |
| 1484273 | **2 A 1.3/4AF** | (*) | 1.3/4 | 280 | 23.0 | 68.5 | 2 | 1300 | 1 |
| 1425706 | **2 A 1.13/16AF** | (*) | 1.13/16 | 280 | 23.0 | 68.5 | 2 | 1300 | 1 |
| 1490249 | **2 A 1.7/8AF** | (*) | 1.7/8 | 280 | 23.0 | 68.5 | 2 | 1300 | 1 |
| 2316129 | **2 A 1.15/16AF** | (*) | 1.15/16 | 290 | 25.5 | 75.0 | 2 | 1450 | 1 |
| 1425692 | **2 A 2AF** | (*) | 2 | 290 | 25.5 | 75.0 | 2 | 1450 | 1 |
| 1490257 | **2 A 2.1/16AF** | (*) | 2.1/16 | 290 | 25.5 | 75.0 | 2 | 1450 | 1 |
| 2316137 | **2 A 2.1/8AF** | (*) | 2.1/8 | 300 | 28.0 | 80.0 | 2 | 1500 | 1 |
| 1482386 | **2 A 2.3/16AF** | (*) | 2.3/16 | 300 | 28.0 | 80.0 | 2 | 2800 | 1 |

| Code | No. | (*) | "AF | L | a | b | 2 AR | | |
|---|---|---|---|---|---|---|---|---|---|
| 1490265 | **2 A 2.1/4AF** | (*) | 2.1/4 | 300 | 28.0 | 80.0 | 2 | 1500 | 1 |
| 2316145 | **2 A 2.5/16AF** | (*) | 2.5/16 | 345 | 30.5 | 89.0 | 3 | 3000 | 1 |
| 1425684 | **2 A 2.3/8AF** | (*) | 2.3/8 | 345 | 30.5 | 89.0 | 3 | 2300 | 1 |
| 2316153 | **2 A 2.7/16AF** | (*) | 2.7/16 | 345 | 30.5 | 89.0 | 3 | 2300 | 1 |
| 2316161 | **2 A 2.1/2AF** | (*) | 2.1/2 | 355 | 33.0 | 97.0 | 3 | 2370 | 1 |
| 1425676 | **2 A 2.9/16AF** | (*) | 2.9/16 | 355 | 33.0 | 97.0 | 3 | 2370 | 1 |
| 1484311 | **2 A 2.5/8AF** | (*) | 2.5/8 | 355 | 33.0 | 97.0 | 3 | 2370 | 1 |
| 2316188 | **2 A 2.11/16AF** | (*) | 2.11/16 | 355 | 33.0 | 97.0 | 3 | 2370 | 1 |
| 1490273 | **2 A 2.3/4AF** | (*) | 2.3/4 | 365 | 35.5 | 104.0 | 3 | 2800 | 1 |
| 1505890 | **2 A 2.13/16AF** | (*) | 2.13/16 | 365 | 35.5 | 104.0 | 3 | 1500 | 1 |
| 1354140 | **2 A 2.7/8AF** | (*) | 2.7/8 | 375 | 38.0 | 109.0 | 3 | 3000 | 1 |
| 1490281 | **2 A 2.15/16AF** | (*) | 2.15/16 | 375 | 38.0 | 109.0 | 3 | 2300 | 1 |
| 1466690 | **2 A 3AF** | (*) | 3 | 375 | 38.0 | 109.0 | 3 | 3000 | 1 |
| 1490303 | **2 A 3.1/8AF** | (*) | 3.1/8 | 385 | 40.5 | 124.0 | 3 | 3500 | 1 |
| 2316196 | **2 A 3.1/4AF** | (*) | 3.1/4 | 385 | 40.5 | 124.0 | 3 | 3500 | 1 |
| 1813560 | **2 A 3.3/8AF** | (*) | 3.3/8 | 385 | 40.5 | 124.0 | 3 | 3500 | 1 |
| 2316218 | **2 A 3.1/2AF** | (*) | 3.1/2 | 410 | 45.0 | 140.0 | 3 | 4900 | 1 |
| 2316226 | **2 A 3.5/8AF** | (*) | 3.5/8 | 410 | 45.0 | 140.0 | 3 | 4900 | 1 |
| 2316234 | **2 A 3.3/4AF** | (*) | 3.3/4 | 410 | 45.0 | 140.0 | 3 | 4980 | 1 |
| 2316242 | **2 A 3.7/8AF** | (*) | 3.7/8 | 410 | 45.0 | 140.0 | 3 | 4900 | 1 |
| 2316250 | **2 A 4AF** | (*) | 4 | 410 | 45.0 | 140.0 | 3 | 4900 | 1 |
| 2316269 | **2 A 4.1/8AF** | (*) | 4.1/8 | 410 | 45.0 | 140.0 | 3 | 4900 | 1 |

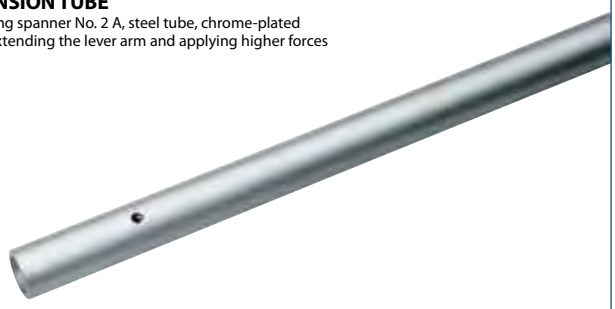
| Code | No. | (*) | Whitw. | L | a | b | 2 AR | | |
|---|---|---|---|---|---|---|---|---|---|
| 1505904 | **2 A 1/2W** | (*) | 1/2 | 180 | 17.0 | 38.0 | 0 | 380 | 1 |
| 2316277 | **2 A 9/16W** | (*) | 9/16 | 180 | 17.0 | 38.0 | 0 | 380 | 1 |
| 1505912 | **2 A 5/8W** | (*) | 5/8 | 190 | 17.0 | 42.0 | 0 | 430 | 1 |
| 1505920 | **2 A 11/16W** | (*) | 11/16 | 200 | 18.4 | 47.0 | 0 | 550 | 1 |
| 1505939 | **2 A 3/4W** | (*) | 3/4 | 235 | 18.4 | 50.0 | 1 | 700 | 1 |
| 2316285 | **2 A 13/16W** | (*) | 13/16 | 245 | 20.0 | 55.0 | 1 | 840 | 1 |
| 1452061 | **2 A 7/8W** | (*) | 7/8 | 245 | 20.0 | 55.0 | 1 | 840 | 1 |
| 2316293 | **2 A 15/16W** | (*) | 15/16 | 265 | 22.0 | 61.5 | 1 | 1000 | 1 |
| 1505947 | **2 A 1W** | (*) | 1 | 265 | 22.0 | 61.5 | 1 | 1000 | 1 |
| 1494295 | **2 A 1.1/8W** | (*) | 1.1/8 | 280 | 23.0 | 68.5 | 2 | 1300 | 1 |

| Code | No. | (*) | Whitw. | L | a | b | 2 AR | | |
|---|---|---|---|---|---|---|---|---|---|
| 1505955 | **2 A 1.1/4W** | (*) | 1.1/4 | 290 | 25.5 | 75.0 | 2 | 1450 | 1 |
| 1505963 | **2 A 1.3/8W** | (*) | 1.3/8 | 300 | 28.0 | 80.0 | 2 | 1500 | 1 |
| 1505971 | **2 A 1.1/2W** | (*) | 1.1/2 | 345 | 30.5 | 89.0 | 3 | 2300 | 1 |
| 1505998 | **2 A 1.5/8W** | (*) | 1.5/8 | 355 | 33.0 | 97.0 | 3 | 2370 | 1 |
| 1506005 | **2 A 1.3/4W** | (*) | 1.3/4 | 365 | 35.5 | 104.0 | 3 | 2800 | 1 |
| 2316307 | **2 A 1.7/8W** | (*) | 1.7/8 | 375 | 38.0 | 109.0 | 3 | 3000 | 1 |
| 2316315 | **2 A 2W** | (*) | 2 | 385 | 40.5 | 124.0 | 3 | 3500 | 1 |
| 2316323 | **2 A 2.1/4W** | (*) | 2.1/4 | 410 | 45.0 | 140.0 | 3 | 4900 | 1 |
| 2316331 | **2 A 2.1/2W** | (*) | 2.1/2 | 410 | 45.0 | 140.0 | 3 | 4900 | 1 |

## 2 AR

### EXTENSION TUBE

- For ring spanner No. 2 A, steel tube, chrome-plated
- For extending the lever arm and applying higher forces



| Code | No. | Internal-Ø | mm | "AF | Whitw. | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6048600 | **2 AR 0** | 19 | 22-33 | 7/8-1.3/16 | 1/2-11/16 | 460 | 614 | 1 |
| 6048790 | **2 AR 1** | 22 | 35-43 | 1.1/4-1.11/16 | 3/4-1 | 610 | 1568 | 1 |
| 6048870 | **2 AR 2** | 25 | 44-57 | 1.3/4-2.1/4 | 1.1/8-1.3/8 | 760 | 2806 | 1 |
| 6048950 | **2 AR 3** | 30 | 58-105 | 2.5/16-4.1/8 | 1.1/2-2.1/2 | 860 | 3715 | 1 |

## 2 ATM

### SINGLE ENDED RING SPANNER SET 19 pieces

- 15 spanners 2 A and 4 extension tubes on a sheet steel board fitted with hooks
- Dimensions: W 970 x H 740 mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6049250 | **2 ATM** | **2 A** 24 27 30 32 36 41 46 50 55 60 65 70 75 80 85<br>**2 AR** 0 1 2 3 | 61.0 | 1 |

Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

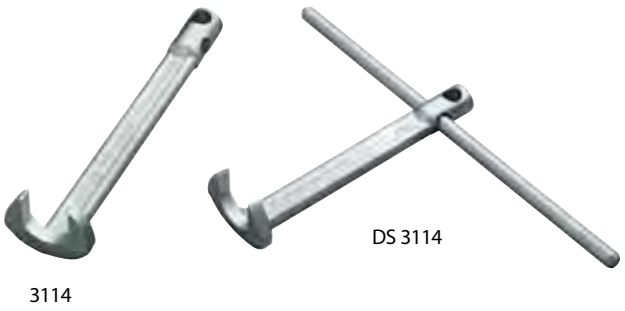
# CROWFOOT SPANNERS

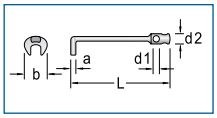
## 3114 - DS 3114

### CROWFOOT SPANNER

- Opening at right angle to shaft for maximum accessibility
- GEDORE vanadium steel 31CrV3, chrome-plated
- No. 3114 = Delivery without tommy bar
- No. DS 3114 = Delivery with tommy bar 26 D

**Spanner sizes:**
- Metric dimensions: 13 - 50 mm




mm
13 – 50

| Code | No. | mm | L | a | b | $d_1$ | $d_2$ | 26 D | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6670050 | **3114 13** | 13 | 160 | 5.5 | 28.0 | 8.5 | 13.8 | 8 | 95 | 10 |
| 6670130 | **3114 14** | 14 | 160 | 5.5 | 28.0 | 8.5 | 13.8 | 8 | 93 | 10 |
| 6676920 | **3114 16** | 16 | 200 | 6.0 | 33.0 | 10.5 | 16.8 | 10 | 160 | 10 |
| 6670210 | **3114 17** | 17 | 200 | 6.0 | 33.0 | 10.5 | 16.8 | 10 | 169 | 10 |
| 6677060 | **3114 18** | 18 | 200 | 7.0 | 37.0 | 12.5 | 19.6 | 12 | 216 | 10 |
| 6670480 | **3114 19** | 19 | 200 | 7.0 | 37.0 | 12.5 | 19.6 | 12 | 224 | 10 |
| 6677140 | **3114 21** | 21 | 200 | 8.0 | 42.0 | 12.5 | 19.6 | 12 | 272 | 10 |
| 6670560 | **3114 22** | 22 | 200 | 8.0 | 42.0 | 12.5 | 19.6 | 12 | 265 | 10 |
| 6670640 | **3114 24** | 24 | 250 | 9.0 | 46.0 | 14.5 | 23.6 | 14 | 419 | 10 |
| 6670720 | **3114 27** | 27 | 250 | 10.0 | 52.0 | 14.5 | 23.6 | 14 | 519 | 10 |
| 6670800 | **3114 30** | 30 | 250 | 11.0 | 57.0 | 16.5 | 27.6 | 16 | 633 | 5 |
| 6670990 | **3114 32** | 32 | 250 | 11.8 | 61.0 | 16.5 | 27.6 | 16 | 712 | 5 |
| 6671020 | **3114 36** | 36 | 315 | 12.8 | 68.0 | 19.0 | 31.5 | 18 | 1034 | 1 |
| 6671100 | **3114 41** | 41 | 315 | 14.0 | 76.0 | 19.0 | 31.0 | 18 | 1197 | 1 |
| 6671290 | **3114 46** | 46 | 315 | 15.0 | 85.0 | 21.0 | 34.0 | 20 | 1486 | 1 |
| 6671370 | **3114 50** | 50 | 315 | 15.0 | 92.0 | 21.0 | 34.0 | 20 | 1674 | 1 |
| 6672180 | **DS 3114 13** | 13 | 160 | 5.5 | 28.0 | 8.5 | 13.8 | 8 | 168 | 5 |
| 6672260 | **DS 3114 14** | 14 | 160 | 5.5 | 28.0 | 8.5 | 13.8 | 8 | 168 | 5 |
| 6677220 | **DS 3114 16** | 16 | 200 | 6.0 | 33.0 | 10.5 | 16.8 | 10 | 280 | 5 |
| 6672340 | **DS 3114 17** | 17 | 200 | 6.0 | 33.0 | 10.5 | 16.8 | 10 | 286 | 5 |
| 6677300 | **DS 3114 18** | 18 | 200 | 7.0 | 37.0 | 12.5 | 19.6 | 12 | 436 | 5 |
| 6672420 | **DS 3114 19** | 19 | 200 | 7.0 | 37.0 | 12.5 | 19.6 | 12 | 440 | 5 |
| 6677490 | **DS 3114 21** | 21 | 200 | 8.0 | 42.0 | 12.5 | 19.6 | 12 | 482 | 5 |
| 6672500 | **DS 3114 22** | 22 | 200 | 8.0 | 42.0 | 12.5 | 19.6 | 12 | 486 | 5 |
| 6672690 | **DS 3114 24** | 24 | 250 | 9.0 | 46.0 | 14.5 | 23.6 | 14 | 798 | 5 |
| 6672770 | **DS 3114 27** | 27 | 250 | 10.0 | 52.0 | 14.5 | 23.6 | 14 | 902 | 5 |
| 6672850 | **DS 3114 30** | 30 | 250 | 11.0 | 57.0 | 16.5 | 27.6 | 16 | 1256 | 5 |
| 6672930 | **DS 3114 32** | 32 | 250 | 11.8 | 61.0 | 16.5 | 27.6 | 16 | 1324 | 5 |
| 6673070 | **DS 3114 36** | 36 | 315 | 12.8 | 68.0 | 19.0 | 31.5 | 18 | 2016 | 1 |
| 6673150 | **DS 3114 41** | 41 | 315 | 14.0 | 76.0 | 19.0 | 31.0 | 18 | 2178 | 1 |
| 6673230 | **DS 3114 46** | 46 | 315 | 15.0 | 85.0 | 21.0 | 34.0 | 20 | 2940 | 1 |
| 6673310 | **DS 3114 50** | 50 | 315 | 15.0 | 92.0 | 21.0 | 34.0 | 20 | 3204 | 1 |

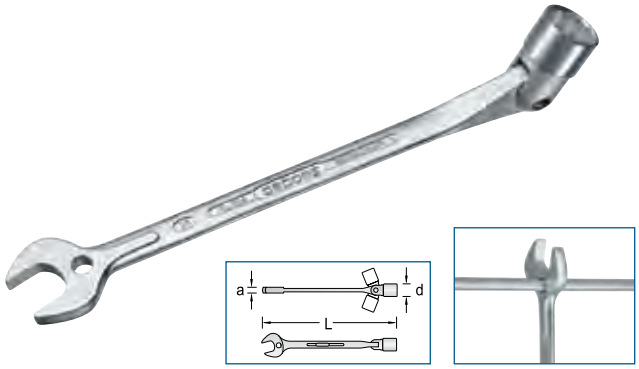
# SWIVEL HEAD WRENCHES

## 534

### COMBINATION SWIVEL HEAD WRENCH

- Slim pattern, with free moving socket wrench
- With hole for tommy bars 26 D and 26 RS (please order separately)
- GEDORE vanadium steel 31CrV3, chrome-plated, heads polished

**Spanner sizes:**
- Metric dimensions: 6x7 - 30x32 mm
- Imperial dimensions: 3/8x7/16" - 15/16x1"




| Code | No. | mm | L | a | d | 26 D | 26 RS | | |
|---|---|---|---|---|---|---|---|---|---|
| 6512060 | **534 10** | 10 | 179 | 4.7 | 15.5 | 5 | 1 | 71 | 10 |
| 6512140 | **534 11** | 11 | 189 | 5.0 | 16.7 | 5 | 1 | 87 | 5 |
| 6512220 | **534 12** | 12 | 198 | 5.3 | 18.0 | 5 | 1 | 115 | 5 |
| 6512300 | **534 13** | 13 | 208 | 6.0 | 19.2 | 5 | 1 | 140 | 10 |
| 6512490 | **534 14** | 14 | 218 | 6.3 | 20.5 | 6 | 1 | 151 | 5 |
| 6512570 | **534 15** | 15 | 231 | 6.7 | 21.7 | 6 | 1 | 169 | 5 |
| 6512650 | **534 16** | 16 | 244 | 7.0 | 22.9 | 6 | 1 | 222 | 5 |
| 6512730 | **534 17** | 17 | 255 | 7.5 | 24.2 | 8 | 2 | 237 | 10 |
| 6513030 | **534 18** | 18 | 269 | 7.7 | 25.5 | 8 | 2 | 273 | 5 |
| 6512810 | **534 19** | 19 | 283 | 8.0 | 26.7 | 8 | 2 | 304 | 10 |

**www.gedore.com**

26 D
163

26 RS / 626 S
164

Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

## "Agile"

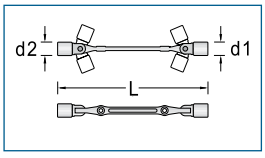
- **Spanner sizes:**
- Metric dimensions: 10 - 19 mm

## 34

### SWIVEL HEAD WRENCH DOUBLE ENDED

- Thin walled heads, UD profile
- Swivels through a wide radius
- Shaft with holes for tommy bars 26 D and 26 RS (please order separately)
- GEDORE vanadium steel 31CrV3, heads polished, chrome-plated

| mm | "AF |
|---|---|
| 6 x 7 — 30 x 32 | $^{3}/_{8}$" x $^{7}/_{16}$" — $^{15}/_{16}$" x 1" |




mm

| Code | No. | mm | L | $d_1$ | $d_2$ | 26 D | 26 RS | | |
|---|---|---|---|---|---|---|---|---|---|
| 6301520 | **34 6x7** | 6 x 7 | 190 | 10.2 | 11.5 | 6 | 1 | 89 | 10 |
| 6299010 | **34 8x9** | 8 x 9 | 200 | 13.0 | 14.2 | 6 | 1 | 98 | 10 |
| 6299280 | **34 10x11** | 10 x 11 | 205 | 15.5 | 16.7 | 6 | 1 | 110 | 10 |
| 6299360 | **34 12x13** | 12 x 13 | 240 | 18.0 | 19.2 | 8 | 2 | 204 | 10 |
| 6299440 | **34 13x15** | 13 x 15 | 245 | 19.2 | 21.7 | 8 | 2 | 225 | 5 |
| 6299520 | **34 14x15** | 14 x 15 | 245 | 20.5 | 21.7 | 8 | 2 | 216 | 10 |
| 6298980 | **34 13x16** | 13 x 16 | 275 | 19.2 | 22.9 | 10 | 2 | 308 | 10 |
| 6299600 | **34 13x17** | 13 x 17 | 275 | 19.2 | 24.2 | 10 | 2 | 318 | 10 |
| 6299790 | **34 14x17** | 14 x 17 | 280 | 20.5 | 24.2 | 10 | 2 | 329 | 5 |
| 6299870 | **34 16x17** | 16 x 17 | 280 | 22.9 | 24.2 | 10 | 2 | 334 | 10 |
| 6300980 | **34 16x18** | 16 x 18 | 282 | 22.9 | 24.2 | 10 | 2 | 334 | 10 |
| 6299950 | **34 17x19** | 17 x 19 | 315 | 24.2 | 26.7 | 12 | 3 | 411 | 10 |
| 6300040 | **34 18x19** | 18 x 19 | 315 | 25.5 | 26.7 | 12 | 3 | 418 | 10 |
| 6301010 | **34 18x21** | 18 x 21 | 345 | 25.5 | 29.2 | 12 | 3 | 582 | 10 |
| 6300120 | **34 20x22** | 20 x 22 | 350 | 28.0 | 30.5 | 12 | 3 | 604 | 10 |
| 6300200 | **34 21x23** | 21 x 23 | 350 | 29.2 | 31.7 | 12 | 3 | 633 | 5 |
| 6300390 | **34 24x27** | 24 x 27 | 410 | 33.0 | 36.7 | 14 | 3 | 913 | 5 |
| 6300470 | **34 30x32** | 30 x 32 | 470 | 40.5 | 43.0 | 14 | 3 | 1361 | 1 |

"AF

| Code | No. | "AF | L | $d_1$ | $d_2$ | 26 D | 26 RS | | |
|---|---|---|---|---|---|---|---|---|---|
| 6301600 | **34 3/8x7/16AF** | 3/8 x 7/16 | 205 | 14.9 | 16.7 | 6 | 1 | 110 | 5 |
| 6301790 | **34 1/2x9/16AF** | 1/2 x 9/16 | 245 | 18.7 | 20.7 | 8 | 2 | 216 | 5 |
| 6301870 | **34 19/32x11/16AF** | 19/32 x 11/16 | 280 | 21.7 | 24.7 | 10 | 2 | 314 | 10 |
| 6301950 | **34 5/8x3/4AF** | 5/8 x 3/4 | 315 | 22.5 | 26.7 | 12 | 3 | 405 | 10 |
| 6302090 | **34 13/16x7/8AF** | 13/16 x 7/8 | 350 | 28.5 | 30.6 | 12 | 3 | 598 | 10 |
| 6302170 | **34 15/16x1AF** | 15/16 x 1 | 410 | 32.6 | 34.6 | 14 | 3 | 862 | 5 |

## TX 34

### SWIVEL HEAD WRENCH DOUBLE ENDED for protruding TORX® head screws

- Thin walled heads
- Swivels through a wide radius
- Shaft with holes for tommy bars 26 D and 26 RS (please order separately)
- GEDORE vanadium steel 31CrV3, heads polished, chrome-plated
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | | M | mm | mm | $d_1$ | $d_2$ | 26 D | 26 RS | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6290570 | **TX 34 E6xE8** | E6xE8 | M5 - M7 | 5,74 x 7,52 | 190 | 8.5 | 10.8 | 6 | 1 | 86 | 10 |
| 6290650 | **TX 34 E10xE12** | E10xE12 | M8 - M10 | 9,42 x 11,17 | 230 | 13.5 | 15.5 | 8 | 2 | 184 | 10 |
| 6290730 | **TX 34 E14xE18** | E14xE18 | M12 - M14 | 12,98 x 16,68 | 265 | 17.0 | 21.0 | 10 | 2 | 299 | 10 |
| 6290810 | **TX 34 E20xE24** | E20xE24 | M16 - M20 | 18,47 x 22,14 | 295 | 23.5 | 28.5 | 12 | 3 | 407 | 10 |

## ITX 34

### SWIVEL HEAD WRENCH DOUBLE ENDED for recessed TORX® head screws

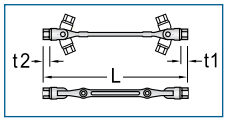
- Shaft with holes for tommy bars 26 D and 26 RS (please order separately)
- Swivel through a wide radius
- Sockets in GEDORE chrome-molybdenum steel 42CrMo4, phosphated, shaft chrome-plated
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | | M | mm | mm | 26 D | 26 RS | | |
|---|---|---|---|---|---|---|---|---|---|
| 6290060 | **ITX 34 T15xT20** | T15xT20 | M3,5 - M5 | 3,27 x 3,86 | 205 | 6 | 1 | 93 | 10 |
| 6290140 | **ITX 34 T25xT27** | T25xT27 | M4,5 - M6 | 4,43 x 4,99 | 208 | 6 | 1 | 92 | 10 |
| 6290220 | **ITX 34 T30xT40** | T30xT40 | M6 - M8 | 5,52 x 6,65 | 210 | 6 | 1 | 99 | 10 |
| 6290300 | **ITX 34 T45xT50** | T45xT50 | M8 - M10 | 7,82 x 8,83 | 244 | 8 | 2 | 185 | 10 |
| 6290490 | **ITX 34 T55xT60** | T55xT60 | M12 - M14 | 11,22 x 13,25 | 280 | 10 | 2 | 304 | 10 |

## IN 34

### SWIVEL HEAD WRENCH DOUBLE ENDED for in-hex screws

- Shaft with holes for tommy bars 26 D and 26 RS (please order separately)
- Swivel through a wide radius
- Sockets in GEDORE chrome-molybdenum steel 42CrMo4, phosphated, shaft chrome-plated




mm

| Code | No. | mm | L | $t_1$ | $t_2$ | 26 D | 26 RS | | |
|---|---|---|---|---|---|---|---|---|---|
| 6302250 | **IN 34 3x4** | 3 x 4 | 198 | 4.0 | 5 | 6 | 1 | 101 | 5 |
| 6302330 | **IN 34 5x6** | 5 x 6 | 202 | 5.0 | 6 | 6 | 1 | 107 | 5 |
| 6302410 | **IN 34 8x10** | 8 x 10 | 235 | 8.0 | 10 | 8 | 2 | 199 | 5 |
| 6302680 | **IN 34 12x14** | 12 x 14 | 270 | 10.0 | 12 | 10 | 2 | 336 | 5 |
| 6302760 | **IN 34 17x19** | 17 x 19 | 295 | 14.0 | 16 | 12 | 3 | 411 | 10 |

"AF

| Code | No. | "AF | L | $t_1$ | $t_2$ | 26 D | 26 RS | | |
|---|---|---|---|---|---|---|---|---|---|
| 6302840 | **IN 34 1/8x5/32AF** | 1/8 x 5/32 | 198 | 4.0 | 5 | 6 | 1 | 98 | 10 |
| 6302920 | **IN 34 3/16x7/32AF** | 3/16 x 7/32 | 202 | 5.0 | 6 | 6 | 1 | 101 | 1 |
| 6303060 | **IN 34 1/4x5/16AF** | 1/4 x 5/16 | 235 | 6.5 | 8 | 8 | 2 | 199 | 10 |
| 6303140 | **IN 34 3/8x1/2AF** | 3/8 x 1/2 | 270 | 10.0 | 12 | 10 | 2 | 310 | 10 |
| 6303220 | **IN 34 9/16x5/8AF** | 9/16 x 5/8 | 295 | 14.0 | 16 | 12 | 3 | 402 | 10 |

Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

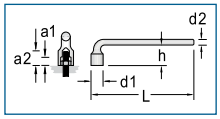
# SOCKET WRENCHES

## 25

### SOCKET WRENCH offset

- Solid pattern with extra deep socket for protruding bolts
- With dome for pointed screw heads
- Sizes 55 - 70 without dome (dimension $a_2$)
- GEDORE vanadium steel 31CrV3, chrome-plated

**Spanner sizrsches:**
- Metric dimensions: 10 - 70 mm




mm
10 – 70

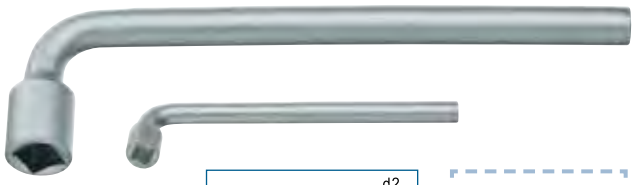
| Code | No. | mm | L | $a_1$ | $a_2$ | $d_1$ | $d_2$ | h | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6188290 | **25 10** | 10 | 160 | 9.6 | 16.5 | 15,0 | 10 | 32 | 120 | 5 |
| 6188530 | **25 13** | 13 | 200 | 12.7 | 23.0 | 19,0 | 12 | 41 | 220 | 10 |
| 6188610 | **25 14** | 14 | 215 | 13.7 | 24.0 | 20,5 | 12 | 44 | 247 | 5 |
| 6196200 | **25 16** | 16 | 240 | 11.0 | 25.5 | 23,5 | 14 | 49 | 346 | 10 |
| 6188880 | **25 17** | 17 | 250 | 12.0 | 26.0 | 25,0 | 14 | 49 | 373 | 10 |
| 6196470 | **25 18** | 18 | 265 | 13.5 | 27.5 | 26,0 | 16 | 56 | 487 | 10 |
| 6188960 | **25 19** | 19 | 280 | 15.4 | 29.0 | 27,5 | 16 | 56 | 539 | 10 |
| 6196550 | **25 21** | 21 | 305 | 15.5 | 32.5 | 30,5 | 18 | 64 | 722 | 10 |
| 6189180 | **25 22** | 22 | 315 | 16.4 | 32.5 | 32,0 | 18 | 64 | 797 | 5 |
| 6196630 | **25 23** | 23 | 330 | 17.5 | 35.5 | 33,0 | 20 | 71 | 983 | 10 |
| 6189260 | **25 24** | 24 | 345 | 19.5 | 37.1 | 34,5 | 20 | 71 | 1055 | 5 |
| 6189340 | **25 27** | 27 | 380 | 21.4 | 37.5 | 38,5 | 20 | 74 | 1179 | 5 |
| 6189420 | **25 30** | 30 | 420 | 22.3 | 41.3 | 42,0 | 22 | 84 | 1536 | 5 |
| 6189500 | **25 32** | 32 | 450 | 26.5 | 43.2 | 45,0 | 22 | 87 | 633 | 1 |
| 6189690 | **25 36** | 36 | 500 | 27.3 | 47.1 | 50,0 | 26 | 97 | 2523 | 5 |
| 6189770 | **25 41** | 41 | 560 | 30.3 | 49.7 | 56,0 | 26 | 106 | 2940 | 1 |
| 6189850 | **25 46** | 46 | 630 | 33.4 | 56.5 | 62,0 | 28 | 114 | 3785 | 1 |
| 6189930 | **25 50** | 50 | 630 | 35.9 | 61.5 | 67,0 | 32 | 128 | 4900 | 1 |
| 6190000 | **25 55** | 55 | 670 | 38.0 | | 74,0 | 34 | 120 | 5685 | 1 |
| 6190190 | **25 60** | 60 | 670 | 40.0 | | 81,0 | 34 | 125 | 5770 | 1 |
| 6190270 | **25 65** | 65 | 750 | 42.8 | | 88,0 | 40 | 130 | 8930 | 1 |
| 6190350 | **25 70** | 70 | 750 | 46.0 | | 94,0 | 40 | 135 | 9200 | 1 |

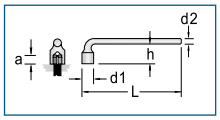
## 25 V

### SOCKET WRENCH offset

- Solid pattern with extra deep socket
- GEDORE vanadium steel 31CrV3, chrome-plated

**Spanner sizes:**
- Metric dimensions: 8 - 17 mm






mm
8 – 17

| Code | No. | mm | L | a | $d_1$ | $d_2$ | h | | |
|---|---|---|---|---|---|---|---|---|---|
| 6194770 | **25 V 8** | 8 | 150 | 11.0 | 15,0 | 10 | 32.0 | 116 | 10 |
| 6194850 | **25 V 9** | 9 | 160 | 11.0 | 16,5 | 10 | 35.0 | 126 | 10 |
| 6194930 | **25 V 10** | 10 | 175 | 12.0 | 19,0 | 12 | 37.5 | 203 | 10 |
| 6195150 | **25 V 12** | 12 | 215 | 14.5 | 22,0 | 14 | 44.0 | 335 | 5 |
| 6195230 | **25 V 13** | 13 | 230 | 20.5 | 23,5 | 14 | 47.0 | 357 | 5 |
| 6195310 | **25 V 14** | 14 | 240 | 21.5 | 25,0 | 14 | 49.0 | 378 | 5 |
| 6195580 | **25 V 17** | 17 | 280 | 26.5 | 30,0 | 18 | 62.0 | 718 | 5 |

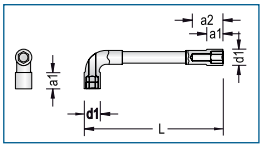
## 25 PK

### DOUBLE ENDED SOCKET WRENCH offset with hole

- Solid pattern with two hexagon heads
- Deep bores above the hexagon heads to take long studs
- Through-hole on the angled side to take a tommy bar (e.g. 26 D, please order separately)
- Chrome-plated

**Spanner sizes:**
- Metric dimensions: 6 - 36 mm

mm
6 -36




| Code | No. | mm | L | $a_1$ | $a_2$ | $d_1$ | 26 D | | |
|---|---|---|---|---|---|---|---|---|---|
| 1616323 | **25 PK 6** | 6 | 105 | 9 | 26.5 | 13,0 | 5 | 80 | 10 |
| 1616331 | **25 PK 7** | 7 | 107 | 9 | 26.5 | 14,0 | 5 | 81 | 10 |
| 1616358 | **25 PK 8** | 8 | 112 | 10 | 26.5 | 14,0 | 5 | 91 | 10 |
| 1436805 | **25 PK 9** | 9 | 120 | 10 | 26.5 | 14,0 | 5 | 99 | 10 |
| 1436813 | **25 PK 10** | 10 | 130 | 10 | 23.0 | 15,5 | 6 | 116 | 10 |
| 1436821 | **25 PK 11** | 11 | 136 | 10 | 23.0 | 16,5 | 6 | 122 | 10 |
| 1436848 | **25 PK 12** | 12 | 145 | 10 | 37.0 | 18,5 | 6 | 166 | 10 |
| 1436856 | **25 PK 13** | 13 | 152 | 11 | 35.0 | 20,0 | 8 | 192 | 10 |
| 1436864 | **25 PK 14** | 14 | 160 | 12 | 38.0 | 21,0 | 8 | 216 | 10 |
| 1616366 | **25 PK 15** | 15 | 170 | 13 | 38.0 | 22,5 | 8 | 239 | 10 |
| 1436872 | **25 PK 16** | 16 | 178 | 15 | 34.0 | 24,0 | 8 | 275 | 10 |
| 1436899 | **25 PK 17** | 17 | 187 | 15 | 35.0 | 25,5 | 8 | 305 | 10 |
| 1436902 | **25 PK 18** | 18 | 195 | 18 | 39.0 | 26,5 | 10 | 385 | 10 |
| 1436910 | **25 PK 19** | 19 | 205 | 17 | 38.0 | 28,0 | 12 | 440 | 10 |
| 1436929 | **25 PK 21** | 21 | 225 | 18 | 47.0 | 32,0 | 12 | 620 | 10 |
| 1436937 | **25 PK 22** | 22 | 225 | 18 | 47.0 | 32,0 | 12 | 632 | 10 |
| 1436945 | **25 PK 24** | 24 | 248 | 22 | 37.0 | 35,5 | 12 | 814 | 1 |
| 1436953 | **25 PK 27** | 27 | 280 | 26 | 60.0 | 38,0 | 16 | 1088 | 1 |
| 1436961 | **25 PK 30** | 30 | 310 | 27 | 64.0 | 42,0 | 18 | 1500 | 1 |
| 1436988 | **25 PK 32** | 32 | 330 | 30 | 63.0 | 45,0 | 20 | 1475 | 1 |
| 1436996 | **25 PK 34** | 34 | 340 | 32 | 67.0 | 47,0 | 20 | 1580 | 1 |
| 1437003 | **25 PK 36** | 36 | 355 | 33 | 74.0 | 50,0 | 20 | 2052 | 1 |

26 D
163

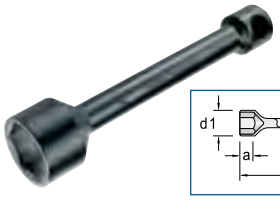
Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

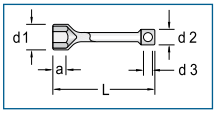
## "Solid"

## 3112 - DS 3112

### SOCKET WRENCH solid, short pattern

- Very heavy-duty pattern
- Acc. to DIN 3112, ISO 2236
- GEDORE vanadium steel 31CrV3, phosphated
- No. 3112 = without tommy bar
- No. DS 3112 = with tommy bar 26 D



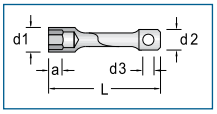


| Code | No. | mm | L | a | $d_1$ | $d_2$ | $d_3$ | 26 D | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6667260 | **3112 55** | 55 | 355 | 38 | 74 | 45 | 26 | 25 | 2815 | 1 |
| 6667340 | **3112 60** | 60 | 355 | 40 | 80 | 45 | 26 | 25 | 2955 | 1 |
| 6667420 | **3112 65** | 65 | 400 | 43 | 88 | 58 | 33 | 32 | 4740 | 1 |
| 6667500 | **3112 70** | 70 | 400 | 46 | 94 | 58 | 33 | 32 | 4845 | 1 |
| 6667690 | **3112 75** | 75 | 400 | 49 | 101 | 58 | 33 | 32 | 5045 | 1 |
| 6667770 | **3112 80** | 80 | 400 | 52 | 108 | 58 | 33 | 32 | 5700 | 1 |
| 6667850 | **3112 85** | 85 | 450 | 55 | 114 | 70 | 41 | 40 | 7625 | 1 |
| 6668070 | **3112 95** | 95 | 450 | 62 | 128 | 70 | 41 | 40 | 8325 | 1 |
| 6668150 | **DS 3112 55** | 55 | 355 | 38 | 74 | 45 | 26 | 25 | 5495 | 1 |
| 6668230 | **DS 3112 60** | 60 | 355 | 40 | 80 | 45 | 26 | 25 | 5635 | 1 |
| 6668310 | **DS 3112 65** | 65 | 400 | 43 | 88 | 58 | 33 | 32 | 9755 | 1 |
| 6668580 | **DS 3112 70** | 70 | 400 | 46 | 94 | 58 | 33 | 32 | 9650 | 1 |
| 6668660 | **DS 3112 75** | 75 | 400 | 49 | 101 | 58 | 33 | 32 | 9950 | 1 |
| 6668740 | **DS 3112 80** | 80 | 400 | 52 | 108 | 58 | 33 | 32 | 10250 | 1 |
| 6668820 | **DS 3112 85** | 85 | 450 | 55 | 114 | 70 | 41 | 40 | 17350 | 1 |
| 6669040 | **DS 3112 95** | 95 | 450 | 62 | 128 | 70 | 41 | 40 | 18350 | 1 |

## 35 A - DS 35 A

### SOCKET WRENCH solid, short pattern

- Solid pattern
- Acc. to DIN 3112, ISO 2236
- With extra deep hexagon heads and ball catch
- GEDORE vanadium steel 31CrV3, manganese-phosphated
- No. 35 A = Delivery without tommy bar
- No. DS 35 A = Delivery with tommy bar 35 D

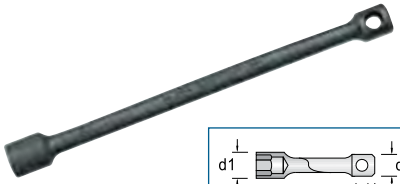


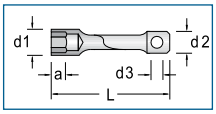
| Code | No. | mm | L | a | $d_1$ | $d_2$ | $d_3$ | 35 D | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6304030 | **35 A 8** | 8 | 105 | 7.0 | 13,0 | 12 | 6.5 | 6 | 67 | 1 |
| 6304110 | **35 A 9** | 9 | 110 | 8.0 | 14,0 | 15 | 6.5 | 6 | 88 | 1 |
| 6304380 | **35 A 10** | 10 | 115 | 8.5 | 16,0 | 15 | 6.5 | 6 | 91 | 1 |
| 6304620 | **35 A 13** | 13 | 130 | 11.0 | 19,5 | 19 | 8.5 | 8 | 191 | 1 |
| 6304700 | **35 A 14** | 14 | 140 | 11.5 | 20,5 | 19 | 8.5 | 8 | 214 | 1 |
| 6303300 | **35 A 16** | 16 | 145 | 11.0 | 23,5 | 23 | 10.5 | 10 | 258 | 1 |
| 6305000 | **35 A 17** | 17 | 145 | 12.0 | 25,0 | 23 | 10.5 | 10 | 323 | 1 |
| 6303490 | **35 A 18** | 18 | 145 | 13.5 | 26,0 | 23 | 10.5 | 10 | 270 | 1 |
| 6305270 | **35 A 19** | 19 | 165 | 15.0 | 27,5 | 23 | 12.5 | 12 | 361 | 1 |
| 6303570 | **35 A 21** | 21 | 175 | 15.5 | 30,5 | 27 | 12.5 | 12 | 393 | 1 |
| 6305510 | **35 A 22** | 22 | 185 | 16.0 | 32,0 | 27 | 12.5 | 12 | 570 | 1 |
| 6305860 | **35 A 24** | 24 | 205 | 19.0 | 34,5 | 29 | 14.5 | 14 | 760 | 1 |
| 6306160 | **35 A 27** | 27 | 215 | 21.0 | 38,5 | 29 | 14.5 | 14 | 805 | 1 |
| 6306320 | **35 A 30** | 30 | 225 | 22.0 | 42,0 | 33 | 17.0 | 16 | 1124 | 1 |
| 6306670 | **35 A 36** | 36 | 260 | 27.0 | 50,0 | 37 | 19.0 | 18 | 1050 | 1 |
| 6306830 | **35 A 46** | 46 | 290 | 33.0 | 62,0 | 41 | 21.0 | 20 | 1710 | 1 |
| 6307130 | **DS 35 A 8** | 8 | 105 | 7.0 | 13,0 | 12 | 6.5 | 6 | 100 | 1 |
| 6307210 | **DS 35 A 9** | 9 | 110 | 8.0 | 14,0 | 15 | 6.5 | 6 | 114 | 1 |
| 6307480 | **DS 35 A 10** | 10 | 115 | 8.5 | 16,0 | 15 | 6.5 | 6 | 126 | 1 |
| 6307720 | **DS 35 A 13** | 13 | 130 | 11.0 | 19,5 | 19 | 8.5 | 8 | 259 | 1 |
| 6307800 | **DS 35 A 14** | 14 | 140 | 11.5 | 20,5 | 19 | 8.5 | 8 | 283 | 1 |
| 6300550 | **DS 35 A 16** | 16 | 145 | 11.0 | 23,5 | 23 | 10.5 | 10 | 379 | 1 |
| 6308100 | **DS 35 A 17** | 17 | 145 | 12.0 | 25,0 | 23 | 10.5 | 10 | 445 | 1 |
| 6300630 | **DS 35 A 18** | 18 | 145 | 13.5 | 26,0 | 23 | 10.5 | 10 | 391 | 1 |
| 6308370 | **DS 35 A 19** | 19 | 165 | 15.0 | 27,5 | 23 | 12.5 | 12 | 579 | 1 |
| 6300710 | **DS 35 A 21** | 21 | 175 | 15.5 | 30,5 | 27 | 12.5 | 12 | 610 | 1 |
| 6308610 | **DS 35 A 22** | 22 | 185 | 16.0 | 32,0 | 27 | 12.5 | 12 | 788 | 1 |
| 6308960 | **DS 35 A 24** | 24 | 205 | 19.0 | 34,5 | 29 | 14.5 | 14 | 1138 | 1 |
| 6309260 | **DS 35 A 27** | 27 | 215 | 21.0 | 38,5 | 29 | 14.5 | 14 | 1183 | 1 |
| 6309420 | **DS 35 A 30** | 30 | 225 | 22.0 | 42,0 | 33 | 17.0 | 16 | 1746 | 1 |
| 6309690 | **DS 35 A 36** | 36 | 260 | 27.0 | 50,0 | 37 | 19.0 | 18 | 2036 | 1 |
| 6309850 | **DS 35 A 46** | 46 | 290 | 33.0 | 62,0 | 41 | 21.0 | 20 | 3230 | 1 |

## 35 B - DS 35 B

### SOCKET WRENCH solid, long pattern

- Solid pattern
- Acc. to DIN 3112, ISO 2236
- With extra deep hexagon heads and ball catch
- GEDORE vanadium steel 31CrV3, manganese-phosphated
- No. 35 B = Delivery without tommy bar
- No. DS 35 B = Delivery with tommy bar 35 D





| Code | No. | mm | L | a | $d_1$ | $d_2$ | $d_3$ | 35 D | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6310270 | **35 B 8** | 8 | 175 | 7.0 | 13,0 | 12 | 6.5 | 6 | 110 | 1 |
| 6310430 | **35 B 10** | 10 | 200 | 8.5 | 16,0 | 15 | 6.5 | 6 | 146 | 1 |
| 6310860 | **35 B 13** | 13 | 235 | 11.0 | 19,5 | 19 | 8.5 | 8 | 345 | 1 |
| 6310940 | **35 B 14** | 14 | 250 | 11.5 | 20,5 | 19 | 8.5 | 8 | 376 | 1 |
| 6310000 | **35 B 16** | 16 | 270 | 11.0 | 23,5 | 23 | 10.5 | 10 | 465 | 1 |
| 6311240 | **35 B 17** | 17 | 270 | 12.0 | 25,0 | 23 | 10.5 | 10 | 586 | 1 |
| 6310190 | **35 B 18** | 18 | 270 | 13.5 | 26,0 | 23 | 10.5 | 10 | 605 | 1 |
| 6311400 | **35 B 19** | 19 | 295 | 15.0 | 27,5 | 23 | 12.5 | 12 | 583 | 1 |
| 6310350 | **35 B 21** | 21 | 305 | 15.5 | 30,5 | 27 | 12.5 | 12 | 604 | 1 |
| 6311750 | **35 B 22** | 22 | 315 | 16.0 | 32,0 | 27 | 12.5 | 12 | 987 | 1 |
| 6311910 | **35 B 24** | 24 | 350 | 19.0 | 34,5 | 29 | 14.5 | 14 | 1231 | 1 |
| 6312210 | **35 B 27** | 27 | 390 | 21.0 | 38,5 | 29 | 14.5 | 14 | 1425 | 1 |
| 6312640 | **35 B 30** | 30 | 430 | 22.0 | 42,0 | 33 | 17.0 | 16 | 2113 | 1 |
| 6312720 | **35 B 32** | 32 | 440 | 26.0 | 45,0 | 33 | 17.0 | 16 | 2144 | 1 |
| 6312800 | **35 B 36** | 36 | 490 | 27.0 | 50,0 | 38 | 19.0 | 18 | 2182 | 1 |
| 6313290 | **DS 35 B 8** | 8 | 175 | 7.0 | 13,0 | 12 | 6.5 | 6 | 144 | 1 |
| 6313450 | **DS 35 B 10** | 10 | 200 | 8.5 | 16,0 | 15 | 6.5 | 6 | 179 | 1 |
| 6313880 | **DS 35 B 13** | 13 | 235 | 11.0 | 19,5 | 19 | 8.5 | 8 | 414 | 1 |
| 6313960 | **DS 35 B 14** | 13 | 250 | 11.5 | 20,5 | 19 | 8.5 | 8 | 445 | 1 |
| 6310510 | **DS 35 B 16** | 16 | 270 | 11.0 | 23,5 | 23 | 10.5 | 10 | 585 | 1 |
| 6314340 | **DS 35 B 17** | 17 | 270 | 12.0 | 25,0 | 23 | 10.5 | 10 | 707 | 1 |
| 6310780 | **DS 35 B 18** | 18 | 270 | 13.5 | 26,0 | 23 | 10.5 | 10 | 725 | 1 |
| 6314500 | **DS 35 B 19** | 19 | 295 | 15.0 | 27,5 | 23 | 12.5 | 12 | 801 | 1 |
| 6311080 | **DS 35 B 21** | 21 | 305 | 15.5 | 30,5 | 27 | 12.5 | 12 | 822 | 1 |
| 6314850 | **DS 35 B 22** | 19 | 315 | 16.0 | 32,0 | 27 | 12.5 | 12 | 1205 | 1 |
| 6315070 | **DS 35 B 24** | 24 | 350 | 19.0 | 34,5 | 29 | 14.5 | 14 | 1608 | 1 |
| 6315310 | **DS 35 B 27** | 24 | 390 | 21.0 | 38,5 | 29 | 14.5 | 14 | 1803 | 1 |
| 6315740 | **DS 35 B 30** | 30 | 430 | 22.0 | 42,0 | 33 | 17.0 | 16 | 2735 | 1 |
| 6315820 | **DS 35 B 32** | 32 | 440 | 26.0 | 45,0 | 33 | 17.0 | 16 | 2765 | 1 |
| 6315900 | **DS 35 B 36** | 36 | 490 | 27.0 | 50,0 | 38 | 19.0 | 18 | 3168 | 1 |

35 D

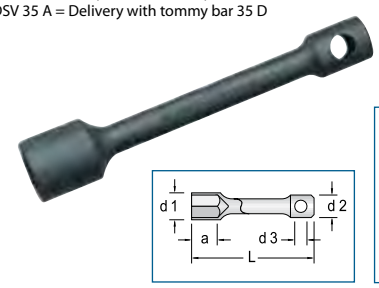
160

Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

## V 35 A - DSV 35 A

### SOCKET WRENCH solid, short pattern

- Solid pattern
- With extra deep square heads and ball catch
- GEDORE vanadium steel 31CrV3, manganese-phosphated
- No. V 35 A = Delivery without tommy bar
- No. DSV 35 A = Delivery with tommy bar 35 D

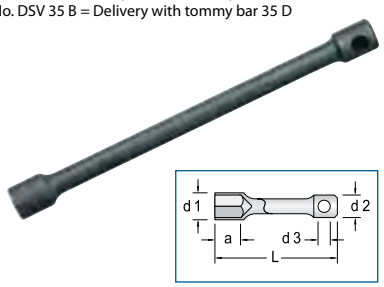


| Code | No. | mm | L | a | $d_1$ | $d_2$ | $d_3$ | 35 D | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6316200 | **V 35 A 6** | 6 | 80 | 12 | 11,5 | 12 | 6.5 | 6 | 52 | 1 |
| 6316390 | **V 35 A 7** | 7 | 80 | 15 | 13,5 | 15 | 8.5 | 8 | 72 | 1 |
| 6316470 | **V 35 A 8** | 8 | 80 | 15 | 14,0 | 15 | 8.5 | 8 | 72 | 1 |
| 6316550 | **V 35 A 9** | 9 | 100 | 18 | 16,0 | 17 | 10.5 | 10 | 115 | 1 |
| 6316630 | **V 35 A 10** | 10 | 100 | 18 | 17,5 | 17 | 10.5 | 10 | 121 | 1 |
| 6316710 | **V 35 A 11** | 11 | 100 | 19 | 21,0 | 21 | 12.5 | 12 | 187 | 1 |
| 6317010 | **V 35 A 13** | 13 | 100 | 22 | 23,5 | 23 | 12.5 | 12 | 231 | 1 |
| 6317280 | **V 35 A 14** | 14 | 120 | 24 | 26,0 | 25 | 14.5 | 14 | 339 | 1 |
| 6317520 | **V 35 A 17** | 17 | 160 | 28 | 31,0 | 31 | 17.0 | 16 | 698 | 1 |
| 6317790 | **V 35 A 19** | 19 | 200 | 30 | 34,0 | 31 | 17.0 | 16 | 901 | 1 |
| 6318090 | **V 35 A 22** | 22 | 200 | 34 | 39,0 | 36 | 19.0 | 18 | 1215 | 1 |
| 6318760 | **DSV 35 A 6** | 6 | 80 | 12 | 11,5 | 12 | 6.5 | 6 | 86 | 1 |
| 6318840 | **DSV 35 A 7** | 7 | 80 | 15 | 13,5 | 15 | 8.5 | 8 | 141 | 1 |
| 6318920 | **DSV 35 A 8** | 8 | 80 | 15 | 14,0 | 15 | 8.5 | 8 | 141 | 1 |
| 6319060 | **DSV 35 A 9** | 9 | 100 | 18 | 16,0 | 17 | 10.5 | 10 | 236 | 1 |
| 6319140 | **DSV 35 A 10** | 10 | 100 | 18 | 17,5 | 17 | 10.5 | 10 | 241 | 1 |
| 6319220 | **DSV 35 A 11** | 11 | 100 | 19 | 21,0 | 21 | 12.5 | 12 | 405 | 1 |
| 6319490 | **DSV 35 A 13** | 13 | 100 | 22 | 23,5 | 23 | 12.5 | 12 | 449 | 1 |
| 6319570 | **DSV 35 A 14** | 14 | 120 | 24 | 26,0 | 25 | 14.5 | 14 | 717 | 1 |
| 6319810 | **DSV 35 A 17** | 17 | 160 | 28 | 31,0 | 31 | 17.0 | 16 | 1319 | 1 |
| 6320150 | **DSV 35 A 19** | 19 | 200 | 30 | 34,0 | 31 | 17.0 | 16 | 1523 | 1 |
| 6320580 | **DSV 35 A 22** | 22 | 200 | 34 | 39,0 | 36 | 19.0 | 18 | 2201 | 1 |

## V 35 B - DSV 35 B

### SOCKET WRENCH solid, long pattern

- Solid pattern
- With extra deep square heads and ball catch
- GEDORE vanadium steel 31CrV3, manganese-phosphated
- No. V 35 B = Delivery without tommy bar
- No. DSV 35 B = Delivery with tommy bar 35 D



| Code | No. | mm | L | a | $d_1$ | $d_2$ | $d_3$ | 35 D | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6321120 | **V 35 B 6** | 6 | 160 | 12 | 11,5 | 12 | 6.5 | 6 | 105 | 1 |
| 6321200 | **V 35 B 7** | 7 | 160 | 15 | 13,5 | 15 | 8.5 | 8 | 145 | 1 |
| 6321390 | **V 35 B 8** | 8 | 160 | 15 | 14,0 | 15 | 8.5 | 8 | 143 | 1 |
| 6321470 | **V 35 B 9** | 9 | 200 | 18 | 16,0 | 17 | 10.5 | 10 | 239 | 1 |
| 6321550 | **V 35 B 10** | 10 | 200 | 18 | 17,5 | 17 | 10.5 | 10 | 246 | 1 |
| 6321710 | **V 35 B 12** | 12 | 200 | 20 | 22,0 | 21 | 12.5 | 12 | 386 | 1 |
| 6321980 | **V 35 B 13** | 13 | 200 | 22 | 23,5 | 23 | 12.5 | 12 | 477 | 1 |
| 6322010 | **V 35 B 14** | 14 | 200 | 24 | 26,0 | 25 | 14.5 | 14 | 555 | 1 |
| 6322440 | **V 35 B 17** | 17 | 250 | 28 | 31,0 | 31 | 17.0 | 16 | 116 | 1 |
| 6322600 | **V 35 B 19** | 19 | 320 | 30 | 34,0 | 31 | 17.0 | 16 | 1565 | 1 |
| 6322950 | **V 35 B 22** | 22 | 320 | 34 | 39,0 | 36 | 19.0 | 18 | 2072 | 1 |
| 6323680 | **DSV 35 B 6** | 6 | 160 | 12 | 11,5 | 12 | 6.5 | 6 | 139 | 1 |
| 6323760 | **DSV 35 B 7** | 7 | 160 | 15 | 13,5 | 15 | 8.5 | 8 | 214 | 1 |
| 6323840 | **DSV 35 B 8** | 8 | 160 | 15 | 14,0 | 15 | 8.5 | 8 | 212 | 1 |
| 6323920 | **DSV 35 B 9** | 9 | 200 | 18 | 16,0 | 17 | 10.5 | 10 | 359 | 1 |
| 6324060 | **DSV 35 B 10** | 10 | 200 | 18 | 17,5 | 17 | 10.5 | 10 | 367 | 1 |
| 6324220 | **DSV 35 B 12** | 12 | 200 | 20 | 22,0 | 21 | 12.5 | 12 | 603 | 1 |
| 6324300 | **DSV 35 B 13** | 13 | 200 | 22 | 23,5 | 23 | 12.5 | 12 | 695 | 1 |
| 6324490 | **DSV 35 B 14** | 14 | 200 | 24 | 26,0 | 25 | 14.5 | 14 | 933 | 1 |
| 6324730 | **DSV 35 B 17** | 17 | 250 | 28 | 31,0 | 31 | 17.0 | 16 | 1737 | 1 |
| 6325030 | **DSV 35 B 19** | 19 | 320 | 30 | 34,0 | 31 | 17.0 | 16 | 2186 | 1 |
| 6325460 | **DSV 35 B 22** | 22 | 320 | 34 | 39,0 | 36 | 19.0 | 18 | 3057 | 1 |

## 35 D

### TOMMY BAR for 35 and V 35

- Acc. to DIN 900 Form A
- With location grooves for socket wrenches
- Fully hardened, GEDORE vanadium steel 31CrV3, manganese-phosphated

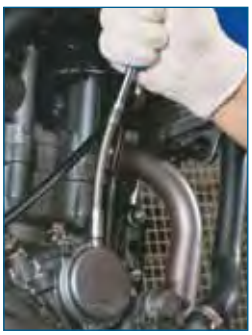
| Code | No. | mm | Ø | | |
|---|---|---|---|---|---|
| 6326000 | **35 D 6** | 160 | 6 | 34 | 1 |
| 6326190 | **35 D 8** | 180 | 8 | 69 | 1 |
| 6326270 | **35 D 10** | 200 | 10 | 121 | 1 |
| 6326350 | **35 D 12** | 250 | 12 | 218 | 1 |
| 6326430 | **35 D 14** | 320 | 14 | 378 | 1 |
| 6326510 | **35 D 16** | 400 | 16 | 621 | 1 |
| 6326780 | **35 D 18** | 500 | 18 | 986 | 1 |
| 6326860 | **35 D 20** | 630 | 20 | 1519 | 1 |

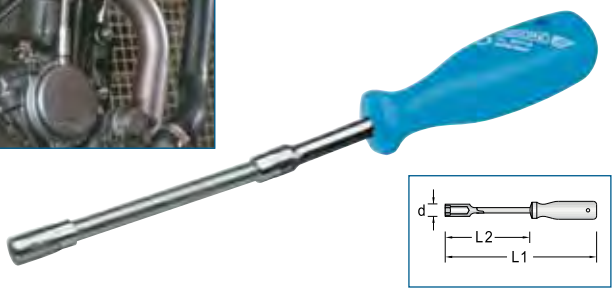
# NUT DRIVERS WITH HANDLE

## 33 F

### NUT DRIVER flexible

- With hanging hole
- Limited torque
- Head depth 13 mm
- Chrome-vanadium steel, chrome-plated






| Code | No. | mm | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|
| 6362230 | **33 F 5** | 5 | 250 | 150 | 11 | 144 | 5 |
| 6360020 | **33 F 6** | 6 | 250 | 150 | 11 | 142 | 5 |
| 6360290 | **33 F 7** | 7 | 250 | 150 | 11 | 132 | 10 |
| 6360370 | **33 F 8** | 8 | 250 | 150 | 12 | 136 | 10 |
| 6360610 | **33 F 10** | 10 | 270 | 160 | 14 | 192 | 5 |

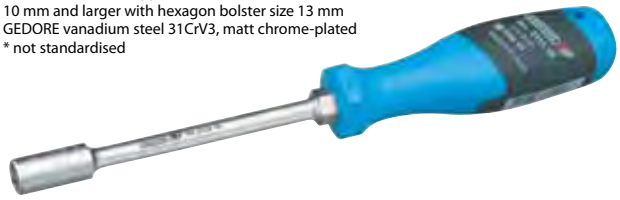


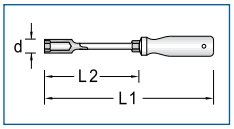
Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

## 2133

### NUT DRIVER WITH 3C-HANDLE

- Acc. to DIN 3125, ISO 2725-1
- With hanging hole
- Head depth 25 mm, blade length 125 mm
- Size 2.5 - 3.5 with stepped head Ø 5 mm
- 10 mm and larger with hexagon bolster size 13 mm
- GEDORE vanadium steel 31CrV3, matt chrome-plated
- * not standardised






mm

| Code | No. | * | mm | $L_1$ | $L_2$ | d | mm | | |
|---|---|---|---|---|---|---|---|---|---|
| 1746669 | **2133 2,5** | * | 2.5 | 225 | 125 | 7,0 | – | 83 | 10 |
| 1746677 | **2133 3** | | 3.0 | 225 | 125 | 7,0 | – | 81 | 10 |
| 1746685 | **2133 3,2** | | 3.2 | 225 | 125 | 7,0 | – | 82 | 10 |
| 1746693 | **2133 3,5** | | 3.5 | 225 | 125 | 7,0 | – | 82 | 10 |
| 1746707 | **2133 4** | | 4.0 | 225 | 125 | 6,9 | – | 82 | 10 |
| 1746715 | **2133 4,5** | | 4.5 | 225 | 125 | 7,0 | – | 82 | 10 |
| 1746723 | **2133 5** | | 5.0 | 225 | 125 | 8,0 | – | 83 | 10 |
| 1746731 | **2133 5,5** | | 5.5 | 225 | 125 | 8,0 | – | 93 | 10 |
| 1746758 | **2133 6** | | 6.0 | 225 | 125 | 9,0 | – | 95 | 10 |
| 1746766 | **2133 7** | | 7.0 | 235 | 125 | 11,0 | – | 117 | 10 |
| 1746855 | **2133 8** | | 8.0 | 235 | 125 | 12,0 | – | 134 | 10 |
| 1746863 | **2133 9** | | 9.0 | 235 | 125 | 13,0 | – | 150 | 10 |
| 1746898 | **2133 10** | | 10.0 | 245 | 125 | 14,0 | 13 | 178 | 1 |
| 1746901 | **2133 11** | | 11.0 | 245 | 125 | 16,0 | 13 | 182 | 10 |
| 1746928 | **2133 12** | | 12.0 | 245 | 125 | 17,0 | 13 | 201 | 10 |
| 1746944 | **2133 13** | | 13.0 | 245 | 125 | 18,0 | 13 | 205 | 10 |
| 1746952 | **2133 14** | | 14.0 | 245 | 125 | 19,7 | 13 | 211 | 10 |

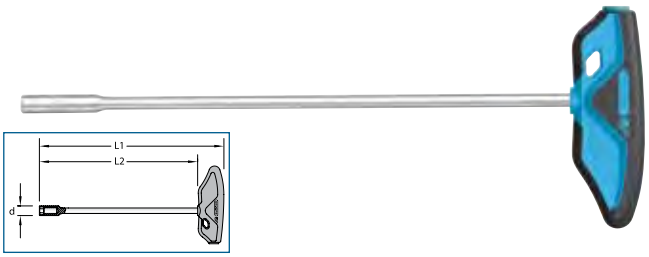
"AF

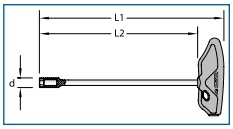
| Code | No. | "AF | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|
| 1746960 | **2133 3/16AF** | 3/16 | 225 | 125 | 7.0 | 91 | 10 |
| 1746979 | **2133 1/4AF** | 1/4 | 225 | 125 | 10.0 | 108 | 10 |
| 1746987 | **2133 9/32AF** | 9/32 | 235 | 125 | 11.0 | 114 | 10 |
| 1746995 | **2133 5/16AF** | 5/16 | 235 | 125 | 12.0 | 134 | 10 |
| 1747002 | **2133 11/32AF** | 11/32 | 235 | 125 | 13.0 | 146 | 10 |
| 1747010 | **2133 3/8AF** | 3/8 | 245 | 125 | 14.0 | 169 | 10 |
| 1747029 | **2133 7/16AF** | 7/16 | 245 | 125 | 16.0 | 175 | 10 |
| 1747037 | **2133 1/2AF** | 1/2 | 245 | 125 | 18.0 | 197 | 10 |

## 2133 T

### NUT DRIVER WITH 2C-T-HANDLE

- With hanging hole
- Head depth 25 mm
- GEDORE vanadium steel 31CrV3, matt chrome-plated





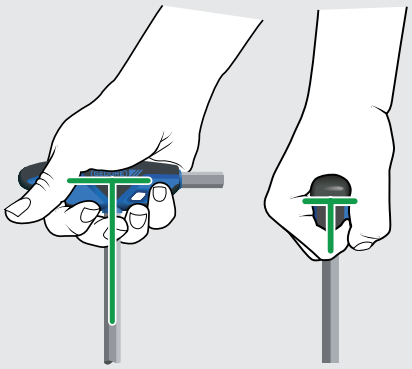

| Code | No. | mm | $L_1$ | $L_2$ | d | |
|---|---|---|---|---|---|---|
| 2647559 | **2133 T 2,5** | 2.5 | 187 | 160 | 5.0 | 1 |
| 2647567 | **2133 T 3** | 3.0 | 187 | 160 | 5.5 | 1 |
| 2647575 | **2133 T 3,2** | 3.2 | 187 | 160 | 5.5 | 1 |
| 2647583 | **2133 T 3,5** | 3.5 | 222 | 195 | 6.0 | 1 |
| 2647591 | **2133 T 4** | 4.0 | 222 | 195 | 6.9 | 1 |
| 2647605 | **2133 T 4,5** | 4.5 | 222 | 195 | 7.0 | 1 |
| 2647613 | **2133 T 5** | 5.0 | 222 | 195 | 8.0 | 1 |
| 2647621 | **2133 T 5,5** | 5.5 | 222 | 195 | 8.0 | 1 |
| 2647648 | **2133 T 6** | 6.0 | 222 | 195 | 9.0 | 1 |
| 2647656 | **2133 T 7** | 7.0 | 222 | 195 | 11.0 | 1 |
| 2647664 | **2133 T 8** | 8.0 | 268 | 230 | 12.0 | 1 |
| 2647672 | **2133 T 9** | 9.0 | 268 | 230 | 13.0 | 1 |
| 2647680 | **2133 T 10** | 10.0 | 268 | 230 | 14.0 | 1 |
| 2647699 | **2133 T 11** | 11.0 | 268 | 230 | 16.0 | 1 |
| 2647702 | **2133 T 12** | 12.0 | 268 | 230 | 17.0 | 1 |
| 2647710 | **2133 T 13** | 13.0 | 268 | 230 | 18.0 | 1 |
| 2647729 | **2133 T 14** | 14.0 | 268 | 230 | 19.7 | 1 |

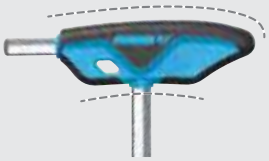
## 2C-T-Handle

- Hard component made of fibre-glass reinforced plastic with special-purpose glass fibres. The benefits of short glass fibres (rigidity and firmness) are combined with that of long glass fibres (impact strength).

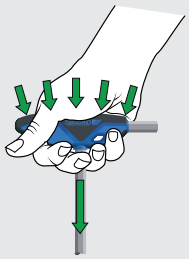
- Asymmetrical 2-component wing handle for high torque level when unscrewing or tightening. The lengthened wing provides an optimum contact surface for the ball of one's hand. It thus easily transfers considerable forces in a relaxed hand's position.

- With T-shaped cross-section: broad at the top and slender below. In this way one's hand takes on a firm grip leading to vigorous working over an extended period without any fatigue.





- Soft component made of thermoplastic elastomer
- The concave form ensures exact hand centering and stops any blade tilting.
- With hanging hole
- Soft zones where sensitive hand zones grip e.g. finger tips. Hard zones where robust hand zones grip.

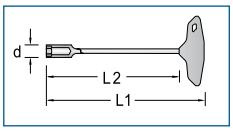


Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

## 33 T

### NUT DRIVER WITH T-HANDLE

- With hanging hole
- Head depth 25 mm
- GEDORE vanadium steel 31CrV3, matt chrome-plated

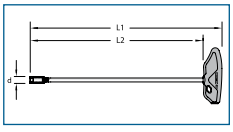



| Code | No. | mm | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|
| 1531239 | **33 T 2,5** | 2.5 | 180.0 | 160 | 7.0 | 31 | 5 |
| 1531247 | **33 T 3** | 3.0 | 180.0 | 160 | 7.0 | 31 | 5 |
| 1531255 | **33 T 3,2** | 3.2 | 180.0 | 160 | 7.0 | 31 | 5 |
| 1531263 | **33 T 3,5** | 3.5 | 227.5 | 195 | 7.0 | 49 | 5 |
| 1531271 | **33 T 4** | 4.0 | 227.5 | 195 | 6.9 | 72 | 5 |
| 1531298 | **33 T 4,5** | 4.5 | 227.5 | 195 | 7.0 | 71 | 5 |
| 1531301 | **33 T 5** | 5.0 | 227.5 | 195 | 8.0 | 73 | 5 |
| 6353320 | **33 T 5,5** | 5.5 | 227.5 | 195 | 8.0 | 92 | 5 |
| 6357580 | **33 T 6** | 6.0 | 227.5 | 195 | 9.0 | 97 | 5 |
| 6357660 | **33 T 7** | 7.0 | 227.5 | 195 | 11.0 | 89 | 10 |
| 6357740 | **33 T 8** | 8.0 | 269.0 | 230 | 12.0 | 146 | 10 |
| 6357820 | **33 T 9** | 9.0 | 269.0 | 230 | 13.0 | 165 | 5 |
| 6357900 | **33 T 10** | 10.0 | 269.0 | 230 | 14.0 | 156 | 10 |
| 6353400 | **33 T 11** | 11.0 | 269.0 | 230 | 16.0 | 176 | 5 |
| 6353590 | **33 T 12** | 12.0 | 269.0 | 230 | 17.0 | 201 | 5 |
| 6358040 | **33 T 13** | 13.0 | 269.0 | 230 | 18.0 | 195 | 10 |
| 6366060 | **33 T 14** | 14.0 | 269.0 | 230 | 19.7 | 214 | 5 |

## 2133 TLM

### NUT DRIVER WITH 2C-T-HANDLE with magnet, long pattern

- With hanging hole
- Head depth 25 mm
- GEDORE vanadium steel 31CrV3, matt chrome-plated

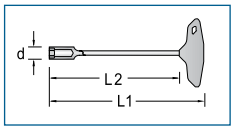



| Code | No. | mm | $L_1$ | $L_2$ | d | |
|---|---|---|---|---|---|---|
| 2335484 | **2133 TLM 8** | 8 | 388 | 350 | 12 | 1 |
| 2337347 | **2133 TLM 10** | 10 | 388 | 350 | 14 | 1 |
| 2337355 | **2133 TLM 13** | 13 | 388 | 350 | 18 | 1 |

## 33 TLM

### NUT DRIVER WITH T-HANDLE with magnet, long pattern

- With hanging hole
- Head depth 25 mm
- GEDORE vanadium steel 31CrV3, matt chrome-plated

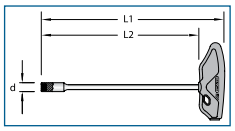



| Code | No. | mm | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|
| 6352190 | **33 TLM 8** | 8 | 389 | 350 | 12 | 188 | 5 |
| 6353160 | **33 TLM 10** | 10 | 389 | 350 | 14 | 262 | 5 |
| 6353240 | **33 TLM 13** | 13 | 389 | 350 | 18 | 271 | 5 |

## TX 2133 T

### NUT DRIVER WITH 2C-T-HANDLE for protruding TORX® head screws

- From E4 to E10
- With hanging hole
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

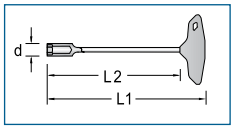



| Code | No. | | M | mm | $L_1$ | $L_2$ | d | |
|---|---|---|---|---|---|---|---|---|
| 2494639 | **TX 2133 T E4** | E4 | M3 | 3,86 x 2,88 | 187 | 160 | 7 | 1 |
| 2494760 | **TX 2133 T E5** | E5 | M4 | 4,73 x 3,46 | 187 | 160 | 7 | 1 |
| 2495449 | **TX 2133 T E6** | E6 | M5 | 5,74 x 4,11 | 222 | 195 | 8 | 1 |
| 2495457 | **TX 2133 T E7** | E7 | M6 | 6,16 x 4,55 | 222 | 195 | 10 | 1 |
| 2495805 | **TX 2133 T E8** | E8 | M6 - M7 | 7,52 x 5,4 | 222 | 195 | 11 | 1 |
| 2498588 | **TX 2133 T E10** | E10 | M8 | 9,42 x 6,92 | 268 | 230 | 13 | 1 |

## TX 33 T

### NUT DRIVER WITH T-HANDLE for protruding TORX® head screws

- From E4 to E10
- Ergonomically designed blue handle, non-slip grained surface, for higher torques
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA




| Code | No. | | M | mm | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|---|
| 1394940 | **TX 33 T E4** | E4 | M3 | 3,86 x 2,88 | 192.5 | 160 | 7 | 79 | 5 |
| 1394967 | **TX 33 T E5** | E5 | M4 | 4,73 x 3,46 | 192.5 | 160 | 7 | 79 | 5 |
| 1394975 | **TX 33 T E6** | E6 | M5 | 5,74 x 4,11 | 234.0 | 195 | 8 | 81 | 5 |
| 1394983 | **TX 33 T E7** | E7 | M6 | 6,16 x 4,55 | 234.0 | 195 | 10 | 103 | 5 |
| 1395009 | **TX 33 T E8** | E8 | M6 - M7 | 7,52 x 5,4 | 234.0 | 195 | 11 | 105 | 5 |
| 1395017 | **TX 33 T E10** | E10 | M8 | 9,42 x 6,92 | 269.0 | 230 | 13 | 175 | 5 |

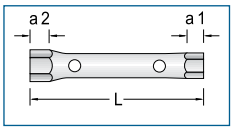
Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

# TUBULAR BOX SPANNERS

## 26 R

### TUBULAR BOX SPANNER

- Acc. to DIN 896 Form B, ISO 2236, ISO 1085
- Hollow shaft, in tubular steel, DIN 2391 seamless, hardened, made from material C35, chrome-plated
- With hole for tommy bars 26 D and 26 RS (please order separately)
- * not standardised




| Code | No. | * | mm | L | $a_1$ | $a_2$ | 26 D | 26 RS | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6222810 | **26 R 5,5x7** | * | 5,5 x 7 | 105 | 5.5 | 6.5 | 5 | 1 | 36 | 5 |
| 6210050 | **26 R 6x7** | | 6 x 7 | 105 | 6.0 | 6.5 | 5 | 1 | 35 | 10 |
| 6210210 | **26 R 8x9** | | 8 x 9 | 105 | 7.0 | 7.5 | 6 | 1 | 41 | 10 |
| 6210480 | **26 R 8x10** | | 8 x 10 | 120 | 7.0 | 8.0 | 6 | 1 | 49 | 10 |
| 6210560 | **26 R 9x10** | * | 9 x 10 | 120 | 7.5 | 8.0 | 6 | 1 | 50 | 5 |
| 6210640 | **26 R 10x11** | | 10 x 11 | 140 | 8.0 | 8.5 | 6 | 1 | 55 | 10 |
| 6210720 | **26 R 10x13** | | 10 x 13 | 140 | 8.0 | 10.0 | 8 | 2 | 72 | 10 |
| 6210800 | **26 R 11x13** | | 11 x 13 | 140 | 8.5 | 10.0 | 8 | 2 | 74 | 5 |
| 6210990 | **26 R 12x13** | | 12 x 13 | 140 | 9.5 | 10.0 | 8 | 2 | 73 | 10 |
| 6211020 | **26 R 12x14** | | 12 x 14 | 140 | 9.5 | 10.5 | 8 | 2 | 83 | 10 |
| 6211100 | **26 R 13x14** | * | 13 x 14 | 140 | 10.0 | 10.5 | 8 | 2 | 83 | 10 |
| 6211290 | **26 R 13x15** | * | 13 x 15 | 140 | 10.0 | 11.5 | 8 | 2 | 89 | 10 |
| 6211370 | **26 R 14x15** | | 14 x 15 | 140 | 10.5 | 11.5 | 8 | 2 | 88 | 10 |
| 6211450 | **26 R 13x17** | | 13 x 17 | 150 | 10.0 | 12.5 | 10 | 2 | 139 | 10 |
| 6211530 | **26 R 14x17** | | 14 x 17 | 150 | 10.5 | 12.5 | 10 | 2 | 140 | 10 |
| 6211610 | **26 R 16x17** | | 16 x 17 | 150 | 12.0 | 12.5 | 10 | 2 | 139 | 10 |
| 6223030 | **26 R 16x18** | | 16 x 18 | 150 | 12.0 | 13.5 | 10 | 2 | 152 | 5 |
| 6211880 | **26 R 17x19** | | 17 x 19 | 155 | 12.5 | 15.5 | 12 | 3 | 161 | 10 |
| 6211960 | **26 R 18x19** | | 18 x 19 | 155 | 13.5 | 15.5 | 12 | 3 | 161 | 10 |
| 6212180 | **26 R 19x22** | | 19 x 22 | 165 | 15.5 | 16.5 | 12 | 3 | 261 | 10 |
| 6212260 | **26 R 20x22** | | 20 x 22 | 165 | 16.0 | 16.5 | 12 | 3 | 264 | 10 |
| 6212340 | **26 R 21x23** | | 21 x 23 | 165 | 16.0 | 18.0 | 14 | 3 | 291 | 10 |
| 6212420 | **26 R 22x24** | | 22 x 24 | 180 | 17.0 | 20.0 | 14 | 3 | 291 | 10 |
| 6212500 | **26 R 24x26** | | 24 x 26 | 180 | 20.0 | 22.0 | 14 | 3 | 314 | 10 |
| 6212690 | **26 R 24x27** | | 24 x 27 | 180 | 20.0 | 22.0 | 14 | 3 | 319 | 10 |
| 6212770 | **26 R 25x28** | | 25 x 28 | 195 | 20.0 | 22.0 | 16 | 3 | 365 | 10 |
| 6212850 | **26 R 27x30** | | 27 x 30 | 195 | 22.0 | 23.0 | 16 | 3 | 386 | 10 |
| 6212930 | **26 R 27x32** | | 27 x 32 | 195 | 22.0 | 27.0 | 16 | 3 | 415 | 10 |
| 6213070 | **26 R 30x32** | | 30 x 32 | 195 | 23.0 | 27.0 | 16 | 3 | 409 | 10 |
| 6213150 | **26 R 30x36** | | 30 x 36 | 215 | 23.0 | 28.0 | 18 | - | 528 | 1 |
| 6213230 | **26 R 32x36** | | 32 x 36 | 215 | 27.0 | 28.0 | 18 | - | 535 | 1 |
| 6213310 | **26 R 36x41** | | 36 x 41 | 215 | 28.0 | 31.0 | 18 | - | 678 | 1 |
| 6213580 | **26 R 41x46** | | 41 x 46 | 235 | 31.0 | 35.0 | 20 | - | 823 | 1 |
| 6213660 | **26 R 46x50** | | 46 x 50 | 235 | 35.0 | 37.0 | 20 | - | 869 | 1 |
| 6213740 | **26 R 50x55** | | 50 x 55 | 235 | 37.0 | 40.0 | 20 | - | 1126 | 1 |

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## 26 D

### TOMMY BAR

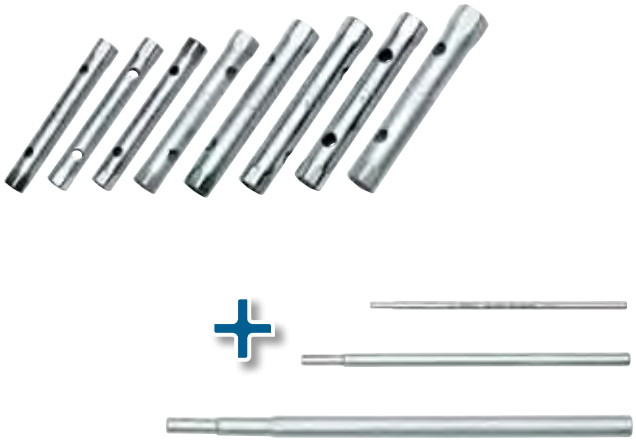
- Acc. to DIN 900 Form A
- GEDORE vanadium steel 31CrV3, chrome-plated up to 20 mm Ø, manganese-phosphated up from 25 mm Ø, fully hardened

| Code | No. | mm | Ø | | |
|---|---|---|---|---|---|
| 6208310 | **26 D 5** | 122 | 5 | 21 | 5 |
| 6208580 | **26 D 6** | 157 | 6 | 40 | 5 |
| 6208740 | **26 D 8** | 177 | 8 | 73 | 5 |
| 6208820 | **26 D 10** | 197 | 10 | 127 | 5 |
| 6208900 | **26 D 12** | 246 | 12 | 228 | 5 |
| 6209040 | **26 D 14** | 396 | 14 | 386 | 10 |
| 6209120 | **26 D 16** | 396 | 16 | 634 | 10 |
| 6209200 | **26 D 18** | 495 | 18 | 995 | 1 |
| 6209390 | **26 D 20** | 625 | 20 | 1555 | 1 |
| 6209470 | **26 D 25** | 705 | 25 | 2680 | 1 |
| 6209550 | **26 D 32** | 794 | 32 | 5015 | 1 |
| 6209630 | **26 D 40** | 994 | 40 | 9685 | 1 |

## KD 26 R

### TUBULAR BOX SPANNER SET with tommy bars

- Hollow shaft, in tubular steel, DIN 2391 seamless, hardened, made from material C35, chrome-plated



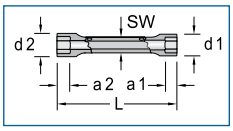
| Code | No. | Contents | | |
|---|---|---|---|---|
| 6218540 | **KD 26 R-8** | **26 R** 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22<br>**26 RS** 1 2 3 | 1564 | 1 |
| 6218890 | **KD 26 R-120** | **26 R** 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32<br>**26 RS** 1 2 3 | 2895 | 1 |

Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

## 626

### TUBULAR BOX SPANNER heavy-duty pattern

- Similar to DIN 896, Form A, ISO 2236, ISO 1085
- With hexagon shaft and holes for turning, either with a spanner or a tommy bar (626 S / 26 RS-626 S, see table, please order separately)
- Sizes 6x7 and 8x9 mm with no hole
- GEDORE vanadium steel 31CrV3, chrome-plated, polished heads




| Code | No. | mm | L | $a_1$ | $a_2$ | $d_1$ | $d_2$ | mm | 26 RS-626 S | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6525120 | **626 6x7** | 6 x 7 | 105 | 6.0 | 7.0 | 9.5 | 10.5 | 8 | 626 S 1 | 37 | 10 |
| 6525200 | **626 8x9** | 8 x 9 | 110 | 7.0 | 8.0 | 12.0 | 13.0 | 9 | 626 S 1 | 52 | 10 |
| 6525390 | **626 10x11** | 10 x 11 | 120 | 9.0 | 9.5 | 14.5 | 16.0 | 11 | 626 S 1 | 72 | 10 |
| 6525470 | **626 12x13** | 12 x 13 | 140 | 10.5 | 11.0 | 17.0 | 18.5 | 13 | 626 S 1 | 117 | 10 |
| 6525710 | **626 14x15** | 14 x 15 | 145 | 11.5 | 13.0 | 19.5 | 21.0 | 14 | 626 S 1 | 145 | 10 |
| 6520160 | **626 13x16** | 13 x 16 | 145 | 11.0 | 13.0 | 18.5 | 22.0 | 15 | 626 S 2 | 144 | 5 |
| 6520750 | **626 13x17** | 13 x 17 | 155 | 11.0 | 14.0 | 18.5 | 23.0 | 15 | 626 S 2 | 160 | 5 |
| 6526280 | **626 16x17** | 16 x 17 | 155 | 13.0 | 14.0 | 22.0 | 23.0 | 16 | 626 S 2 | 189 | 10 |
| 6520240 | **626 16x18** | 16 x 18 | 160 | 13.0 | 15.0 | 22.0 | 24.5 | 18 | 626 S 2 | 206 | 10 |
| 6526360 | **626 17x19** | 17 x 19 | 165 | 14.0 | 17.5 | 23.0 | 26.0 | 18 | 626 S 2 | 233 | 5 |
| 6526440 | **626 18x19** | 18 x 19 | 165 | 15.0 | 17.5 | 24.5 | 26.0 | 18 | 626 S 2 | 242 | 5 |
| 6520320 | **626 18x21** | 18 x 21 | 170 | 15.0 | 17.5 | 24.5 | 28.5 | 19 | 626 S 2 | 246 | 10 |
| 6526520 | **626 19x22** | 19 x 22 | 175 | 17.5 | 18.5 | 26.0 | 30.0 | 19 | 626 S 2 | 288 | 5 |
| 6526600 | **626 20x22** | 20 x 22 | 175 | 17.5 | 18.5 | 27.5 | 30.0 | 19 | 626 S 2 | 306 | 5 |
| 6526790 | **626 21x23** | 21 x 23 | 185 | 17.5 | 19.5 | 28.5 | 31.0 | 21 | 626 S 2 | 358 | 10 |
| 6520400 | **626 21x24** | 21 x 24 | 185 | 17.5 | 21.5 | 28.5 | 32.5 | 24 | 26 RS-626 S-3 | 361 | 10 |
| 6526870 | **626 24x26** | 24 x 26 | 195 | 21.5 | 23.5 | 32.5 | 34.5 | 24 | 26 RS-626 S-3 | 452 | 10 |
| 6526950 | **626 24x27** | 24 x 27 | 195 | 21.5 | 23.5 | 32.5 | 36.0 | 24 | 26 RS-626 S-3 | 493 | 5 |
| 6527090 | **626 25x28** | 25 x 28 | 205 | 21.5 | 23.5 | 33.5 | 37.0 | 27 | 26 RS-626 S-3 | 577 | 10 |
| 6527170 | **626 30x32** | 30 x 32 | 210 | 25.0 | 29.0 | 39.5 | 42.5 | 30 | 26 RS-626 S-3 | 725 | 5 |
| 6520590 | **626 30x34** | 30 x 34 | 220 | 25.0 | 29.0 | 39.5 | 46.0 | 30 | 26 RS-626 S-3 | 770 | 10 |
| 6527250 | **626 32x36** | 32 x 36 | 225 | 29.0 | 30.5 | 42.5 | 48.0 | 32 | 26 RS-626 S-3 | 898 | 1 |
| 6520670 | **626 34x36** | 34 x 36 | 235 | 29.0 | 30.5 | 46.0 | 48.0 | 32 | 26 RS-626 S-3 | 988 | 1 |

## KD 626

### TUBULAR BOX SPANNER SET with tommy bars

- Similar to DIN 896, Form A, ISO 2236, ISO 1085
- With hexagon shaft and holes for turning, either with a spanner or a tommy bar (626 S / 26 RS-626 S)
- Sizes 6x7 and 8x9 with no hole
- GEDORE vanadium steel 31CrV3, chrome-plated, polished heads

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6528650 | **KD 626-7** | **626** 8x9 10x11 12x13 14x15 16x17 18x19 20x22<br>**626 S** 1 2 | 1378 | 1 |
| 6528730 | **KD 626-8** | **626** 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22<br>**626 S** 1 2 | 1434 | 1 |
| 6528810 | **KD 626-120** | **626** 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 25x28 30x32<br>**626 S** 1 2 3 | 4065 | 1 |

## 26 RS

### STEPPED TOMMY BAR

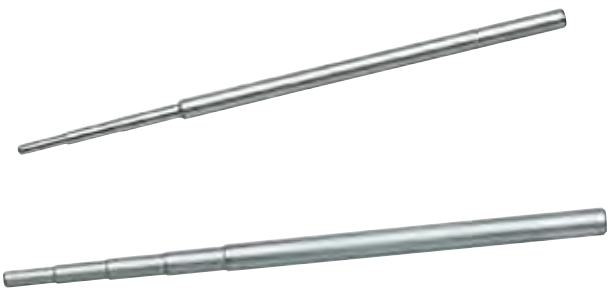
- GEDORE vanadium steel 31CrV3, chrome-plated, fully hardened

| Code | No. | mm | Ø | $Ø_2$ | $Ø_3$ | | |
|---|---|---|---|---|---|---|---|
| 6219350 | **26 RS 1** | 190 | 5,0 | 6,0 | | 45 | 5 |
| 6219430 | **26 RS 2** | 240 | 8,0 | 10,0 | | 149 | 5 |
| 6528220 | **26 RS-626 S-3** | 310 | 11,7 | 13,7 | 16.0 | 492 | 5 |

## 626 S

### STEPPED TOMMY BAR

- GEDORE vanadium steel 31CrV3, chrome-plated, fully hardened



| Code | No. | mm | $Ø_1$ | $Ø_2$ | $Ø_3$ | $Ø_4$ | $Ø_5$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 6528060 | **626 S 1** | 190 | 3,7 | 4,7 | 5.2 | 7.0 | | 50 | 5 |
| 6528140 | **626 S 2** | 240 | 6,7 | 7,7 | 8.7 | 9.7 | 11.0 | 159 | 5 |
| 6528220 | **26 RS-626 S-3** | 310 | 11,7 | 13,7 | 16.0 | | | 492 | 5 |



Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

# MULTI FITTING KEYS

## 45 P

### PROFI-KEY UNIVERSAL

- Key for opening and closing of technical shut-off systems e.g. air-conditioning, revision systems
- For the outdoor areas - locking of bins or waste containers, and street lamp lids etc.
- With bit insert: slotted head 1.0 x 7 mm and cross-slotted head PH 2 with adapter for 1/4" bits on securing chain
- 5 mm square for radiator valves
- Stepped key with 6, 7, 8, 9 mm square
- Female square 5, 6, 7-8 mm
- Female three-square 9 mm
- Dimensions: 90 x 62 mm
- Zinc die-casting

| Code | No. | | |
|---|---|---|---|
| 2190117 | **45 P** | 80 | 1 |

## 45 S

### MULTI FITTING MASTER KEY UNIT

- Key for opening and closing of master cabinets, switch panels, technical shut-off systems e.g. air-conditioning, revision systems
- For the outdoor areas - locking of bins or waste containers, and street lamp lids etc.
- Supplied with bit insert: slotted head 1.0 x 7 mm and cross-slotted head PH 2 with adapter for 1/4" bits on securing chain
- 5 mm square for radiator valves
- Female square 5, 6, 7-8 mm
- Female three-square 9 mm
- Two-way-key 3-5 mm
- Dimensions: 72 x 72 mm
- Zinc die-casting

| Code | No. | | |
|---|---|---|---|
| 2190125 | **45 S** | 80 | 1 |

## 45 U

### MULTI FITTING KEY UNIVERSAL

- For all usual technical shut-off systems
- 1 tool for 9 applications
- 8 different master cabinet shut-off systems and 5 mm square for radiator valves
- Flat construction due to space-saving swivel mechanism
- Square locking: 5, 6, 7-8, 9-10 mm
- Three-edged locking: 7, 8-9, 10-11 mm
- Two-way-key 3-5 mm and half-moon locking 6 mm
- Securing chain with snap-hook
- Dimensions: 95 x 95 mm
- Zinc die-casting

| Code | No. | | |
|---|---|---|---|
| 2294826 | **45 U** | 204 | 1 |

## 45 B

### MULTI FITTING KEY CONSTRUCTION

- Especially suitable for the construction sector
- Space-saving, double swivel mechanism
- Stepped key with 6, 7, 8, 9 mm square
- Female square 5, 8 mm
- Female three-square 9 mm
- Magnetic bit adaptor 1/4", supplied with one bit PH 2
- Screwdriver function with retaining clip
- Length: 145 mm

| Code | No. | | |
|---|---|---|---|
| 2294818 | **45 B** | 120 | 1 |

## 45 E

### MULTI FITTING KEY ELECTRO

- For all usual electric master cabinets
- Space-saving, double swivel mechanism
- 5 mm square for radiator valves
- Female square 5, 6, 7-8 mm
- Female three-square 9 mm
- Two-way-key 3 - 5 mm
- Magnetic bit adaptor 1/4", supplied with one bit PH 2
- Screwdriver function with retaining clip
- Length: 145 mm

| Code | No. | | |
|---|---|---|---|
| 2294796 | **45 E** | 120 | 1 |

Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

# HOOK SPANNERS

## 40

### HOOK WRENCH with lug

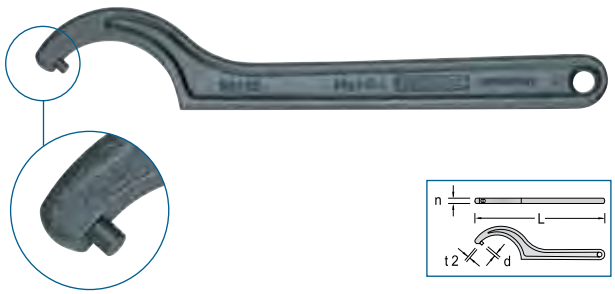
- Acc. to DIN 1810, Form A
- For slotted round nuts according to DIN 981
- GEDORE vanadium steel 31CrV3, manganese-phosphated

| Code | No. | mm | L | b | n | $t_1$ | | |
|---|---|---|---|---|---|---|---|---|
| 6333990 | **40 16-20** | 16-20 | 110 | 2.0 | 3.8 | 1.5 | 26 | 10 |
| 6334020 | **40 25-28** | 25-28 | 135 | 2.5 | 4.5 | 2.0 | 38 | 10 |
| 6334100 | **40 30-32** | 30-32 | 135 | 2.5 | 4.5 | 2.0 | 43 | 10 |
| 6334290 | **40 34-36** | 34-36 | 170 | 3.0 | 5.5 | 2.5 | 71 | 10 |
| 6334370 | **40 40-42** | 40-42 | 170 | 3.0 | 5.5 | 2.5 | 78 | 10 |
| 6334450 | **40 45-50** | 45-50 | 205 | 3.5 | 6.5 | 3.0 | 133 | 10 |
| 6334530 | **40 52-55** | 52-55 | 205 | 3.5 | 6.5 | 3.0 | 130 | 10 |
| 6334610 | **40 58-62** | 58-62 | 240 | 4.0 | 7.5 | 3.5 | 196 | 10 |
| 6334880 | **40 68-75** | 68-75 | 240 | 4.0 | 7.5 | 3.5 | 208 | 10 |
| 6334960 | **40 80-90** | 80-90 | 280 | 5.0 | 8.5 | 4.0 | 282 | 10 |
| 6335180 | **40 95-100** | 95-100 | 280 | 5.0 | 8.5 | 4.0 | 275 | 10 |
| 6335260 | **40 110-115** | 110-115 | 335 | 5.0 | 10.3 | 4.0 | 491 | 1 |
| 6335340 | **40 120-130** | 120-130 | 335 | 5.0 | 10.3 | 4.0 | 493 | 1 |
| 6335420 | **40 135-145** | 135-145 | 385 | 6.0 | 12.3 | 5.0 | 841 | 1 |
| 6335500 | **40 155-165** | 155-165 | 385 | 6.0 | 12.3 | 5.0 | 820 | 1 |
| 6335690 | **40 180-195** | 180-195 | 465 | 6.0 | 14.3 | 5.0 | 1445 | 1 |
| 6335770 | **40 205-220** | 205-220 | 465 | 6.0 | 14.3 | 5.0 | 1448 | 1 |

## 40 Z

### HOOK WRENCH with pin

- Acc. to DIN 1810, Form B
- For cross-drilled nuts according to DIN 1816
- GEDORE vanadium steel 31CrV3, manganese-phosphated

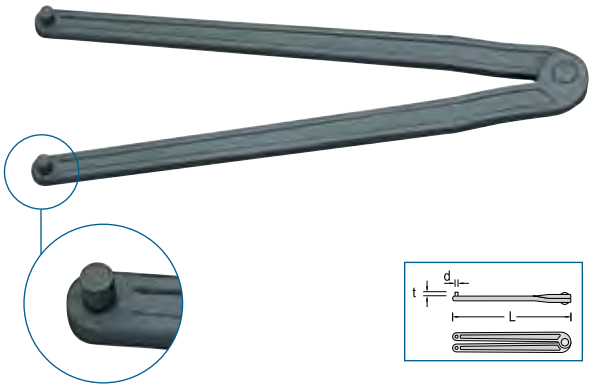



| Code | No. | mm | L | d | n | $t_2$ | | |
|---|---|---|---|---|---|---|---|---|
| 6335850 | **40 Z 16-18** | 16-18 | 110 | 2.5 | 3.8 | 2.5 | 14 | 5 |
| 6335930 | **40 Z 20-22** | 20-22 | 110 | 2.5 | 3.8 | 2.5 | 14 | 5 |
| 6336580 | **40 Z 25-28** | 25-28 | 135 | 3.0 | 4.5 | 3.0 | 39 | 5 |
| 6336660 | **40 Z 30-32** | 30-32 | 135 | 4.0 | 4.5 | 3.0 | 45 | 10 |
| 6336740 | **40 Z 34-36** | 34-36 | 170 | 4.0 | 5.5 | 3.5 | 80 | 10 |
| 6336820 | **40 Z 40-42** | 40-42 | 170 | 4.0 | 5.5 | 3.5 | 79 | 10 |
| 6336900 | **40 Z 45-50** | 45-50 | 205 | 5.0 | 6.5 | 4.0 | 136 | 10 |
| 6337040 | **40 Z 52-55** | 52-55 | 205 | 5.0 | 6.5 | 4.0 | 129 | 10 |
| 6337120 | **40 Z 58-62** | 58-62 | 240 | 5.0 | 7.5 | 5.0 | 198 | 10 |
| 6337200 | **40 Z 68-75** | 68-75 | 240 | 6.0 | 7.5 | 5.0 | 198 | 10 |
| 6337390 | **40 Z 80-90** | 80-90 | 280 | 6.0 | 8.5 | 6.0 | 281 | 10 |
| 6337470 | **40 Z 95-100** | 95-100 | 280 | 8.0 | 8.5 | 6.0 | 276 | 10 |
| 6337550 | **40 Z 110-115** | 110-115 | 335 | 8.0 | 10.3 | 8.0 | 494 | 1 |
| 6337630 | **40 Z 120-130** | 120-130 | 335 | 8.0 | 10.3 | 8.0 | 492 | 1 |
| 6337710 | **40 Z 135-145** | 135-145 | 385 | 8.0 | 12.3 | 8.0 | 829 | 1 |
| 6337980 | **40 Z 155-165** | 155-165 | 385 | 8.0 | 12.3 | 8.0 | 841 | 1 |
| 6338010 | **40 Z 180-195** | 180-195 | 465 | 10.0 | 14.3 | 8.0 | 1420 | 1 |
| 6338280 | **40 Z 205-220** | 205-220 | 465 | 10.0 | 14.3 | 8.0 | 1402 | 1 |

## 44

### CALIPER FACE SPANNER adjustable

- Similar to DIN 3116
- Special sizes on request
- GEDORE vanadium steel 31CrV3, manganese-phosphated

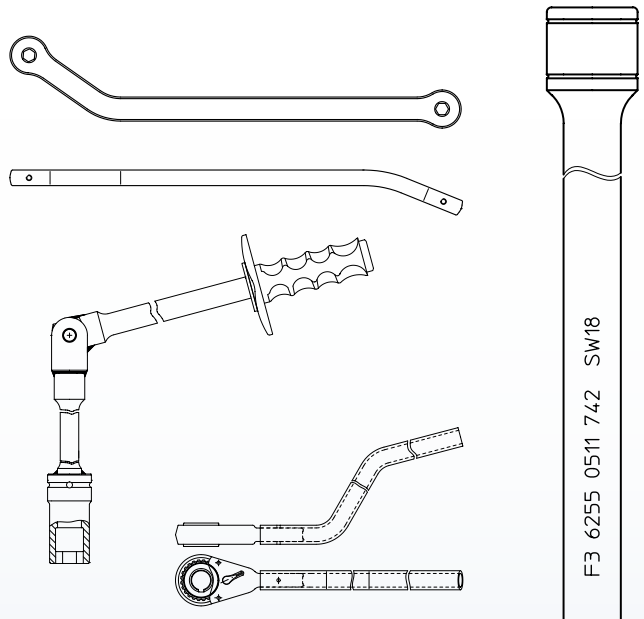



| Code | No. | ∅ mm | L | L" | d | t | | |
|---|---|---|---|---|---|---|---|---|
| 6354480 | **44 3** | 3 | 178 | 7 | 2.9 | 4 | 148 | 10 |
| 6354560 | **44 4** | 4 | 178 | 7 | 3.8 | 5 | 151 | 10 |
| 6354640 | **44 5** | 5 | 230 | 9 | 4.8 | 6 | 259 | 10 |
| 6354720 | **44 6** | 6 | 230 | 9 | 5.8 | 7 | 26 | 10 |
| 6354990 | **44 8** | 8 | 230 | 9 | 7.8 | 8 | 265 | 10 |

## Special manufacture

- As a group that manufactures hand tools and industrial equipment, we aim to solve your tool problems!
- Our Technical Field Service will work with you to find solutions.
- Customised products are in good hands with us.
- In-house design, tooling construction and manufacture ensure smooth order handling - Everything from a single source!

**(Examples for special manufactures)**



Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

# PRACTICAL HELPERS

## 636

### PLUS-FORM HANDLE

- Push-on handle for spanners
- Designed for use with No. 4, 6, 7, 894, 895 sizes 13 - 22 mm
- Where high hand force is needed to turn the spanner, the ergonomic Plus-Form handle distributes the force evenly over the hand
- This avoids painful pressure points in the palm
- The special design of the holder and counter-holder safely secures the spanner in the handle
- Ideal for removing tight bolts
- The Plus-form handle extends short spanners, increasing the applied force!
- Practical hanging hole
- Made from scratch-proof, sky-blue powder-coated sheet steel
- Patent applied

| Code | No. | | |
|---|---|---|---|
| 1999079 | **636** | 100 | 1 |

## 637

### RETAINING CLIP FOR NUTS

- With magnetic holder
- Suitable for open ended and flat ring spanners size 10-19 mm

| Code | No. | | |
|---|---|---|---|
| 1834150 | **637** | 6 | 1 |

## 639

### COMBINATION HOLDING TOOL

- Small helper to hold nuts and washers in barely accessible places
- For thread sizes from M3 to M8

| Code | No. | L | W | H | | |
|---|---|---|---|---|---|---|
| 1640852 | **639** | 110 | 19.2 | 9.7 | 16 | 1 |

## 649

### MINIATURE LED LAMP with swivel end in plastic box

- With swivel end, magnetic
- Supplied with batteries in black plastic box, 106 x 60 x 24 mm
- Patent applied

| Code | No. | | |
|---|---|---|---|
| 1646451 | **649** | 71 | 1 |

Quantities in packs may vary.
(*) = Special size, delivery approx. 10 weeks after receipt of order

GEDORE
D30KMU-20
GEDORE

**rugged and versatile design for universal use**


SERVICE / FEATURES 170 - 175

6.3 (1/4") SQUARE DRIVE 176 - 189

10 (3/8") SQUARE DRIVE 190 - 203

12.5 (1/2") SQUARE DRIVE 204 - 223

20 (3/4") SQUARE DRIVE 224 - 229

25 (1") SQUARE DRIVE 230 - 232

FRICTION TYPE RATCHETS 233 - 234

IMPACT TOOLS 235 - 243

BIT RANGE 244 - 253

# GEDORE "Powerful ratchets and sturdy sockets"

## A huge variety of types

- Intelligently designed ratchets meet every demand placed and more besides.
- Sturdy, fine-toothed, durable and extremely resilient
- Top-grade industrial quality for the hardest of continuous uses
- Unrivalled diversity of wrench sockets, metric, inch, TORX®, multi-tooth, internal hexagon or slot and cruciform
- Screw head protecting profiles (UD bi-hexagonal and hexagonal)

## Quality from A Z...

- Use of the best-possible raw materials, most up-to-date machinery and environmentally-friendly production processes
- Our tool specialists vouch for exactness in processing and continuous refinements
- Unique manufacturing processes and special tool treatment bring about the best in results
- Stringent quality checks after each production step ensure a constantly high level

## From precision mechanics to heavy industry…

- GEDORE operating tools and accessories for professional tool use in each and every industry
- For heavy continuous use and safety in everyday work
- Available individually or in practical set compilations, in the module or in sets
- Customised manufacturing on request

## Maximum quality socket sets…

- Are blue-hammer finished and from GEDORE
- Maximum resilience of the sockets and robustness of the drive parts have turned "GEDORE sockets sets" into a household name internationally
- A name known on the tool market for many years now
- The sturdy and secure way to keep and carry your tools

## The GEDORE socket set

- Innovative, functional design
- Sheet steel case inside-folded, seamless edge provides added strength. The tool and foam inserts are secured to prevent them being lost
- ABS plastic tool insert, resistant to oils and greases
- Tool insert with the socket sizes permanently laser marked
- With the lid closed, the tools sit securely in their pockets
- Boxes designed so that they can be stacked easily
- Large, rounded fasteners can be opened and closed even when the user is wearing gloves
- Contoured carry handle ensures comfortable carrying even for long periods
- Environmentally-friendly powder-coated in GEDORIT blue

## Sockets

The range includes an unparalleled variety of sockets to meet all industrial and professional requirements, including the socket with the snug fitting UNIT-Drive profile.

## Pro GEDORE

- Use of high alloy 31CrV3 steel
- Heat formed sockets which have a wear resistant, fine-grained structure and have a long service life
- Narrow production tolerances ensure an ideal load transmission and low wear and guarantee a long service life
- Distinctive ball catch ensure secure fit on the square drive
- Good grip due to deep knurling even when held with oily hands or when working with protective gloves
- Good look due to chrome plating and varnishing
- Broad range in all sizes, drive and drive-side and for a wide range of screw types. One of the most diverse ranges in the market.

(*) Not applicable to 1/4" hexagonal sockets

D 19 L-015

220

1/4" 3/8" 176 - 189 190 - 203 1/2" 3/4" 1" 204 - 223 224 - 229 230 - 232

# Manufacturing process
## Ratchet

Front

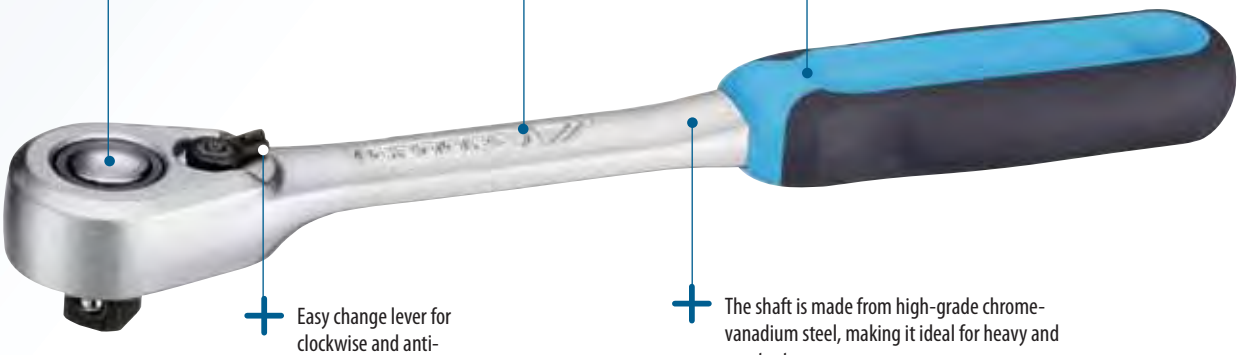
Rear

## U-20 Ratchets
## Design-oriented premium ratchets

+ The release head simplifies attachment and removal of sockets. A ball locking device ensures a tight connection when the ratchet is in use.

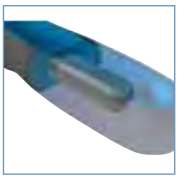
+ Slim, ergonomic design

+ 2-component handle, comprising a hard plastic core with rubber sheathing for heavy industrial use. Hanging hole for easy-to-find storage.



+ Easy change lever for clockwise and anti-clockwise movement.

+ The shaft is made from high-grade chrome-vanadium steel, making it ideal for heavy and constant use.

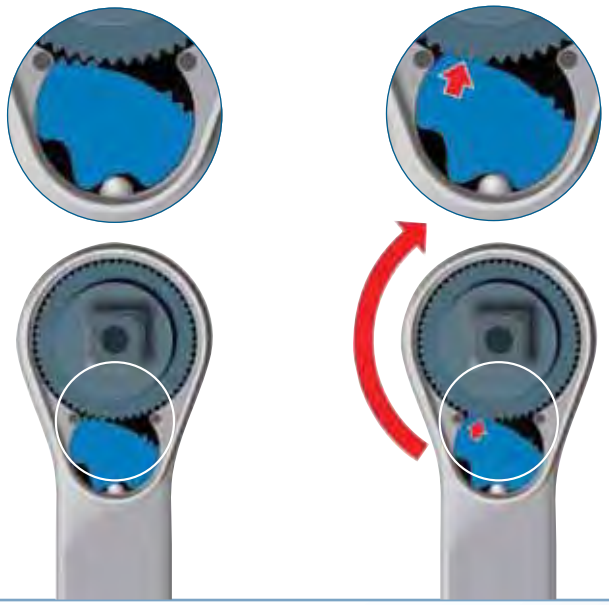


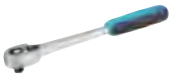
1/4"
3/8"
1/2"

### Ratchets

The properties of our hot-forged spanners also apply to our hot-forged ratchets.

A special feature of GEDORE ratchets is their mechanism, in which the pawl does not fully engage in the ratchet until full loading is reached. This process is invisible to the naked eye. The movement of the mechanism is in the infinitesimal range, amounting to just a few hundredths of a millimetre. The perfect centred running of the ratchet under load achieved by this design is a significant quality and safety feature of our ratchets. There is no unnecessary stressing of the individual elements when the ratchet is turning with no load, and no possibility of the mechanism tilting under load. This ensures fault-free under-load operation for the life of the ratchet. The design also has a positive effect on working safety. Tooth jumping, that would lead to jerky movement, is completely eliminated, minimizing the risk of accidents. This applies equally to GEDORE lever-activated ratchets U-20 and all other GEDORE ratchets.



| | Type of ratchet / drive | 1/4" | 3/8" | 1/2" | 3/4" | 1" | Friction-type ratchet | Mode of operation | |
|---|---|---|---|---|---|---|---|---|---|
| **Reversible ratchets** | | | | | | | | | |
| | **Reversible ratchet** for short sockets | | | 1993 U-20 SK 6° | | | | U-20 | Especially for thread bolts and working in confined spaces |
| | **Reversible ratchet** with push-button release and lever change | 2093 U-20 9° | 3093 U-20 6° | 1993 U-20 6° | | | | U-20 | Use throughout industry and the automotive world and well as in confined spaces. |
| | **Reversible ratchet** with control lever with centre locking | 2093 U-10 15° | 3093 U-10 11,25° | | 3293 U-10 11,25° | 2193 U-10 11,25° | | U-10 | Particularly for the demanding use experienced in industry and with utility vehicles. |
| | **Reversible ratchet** with push-button release and lever change with centre locking | | | 1993 U-10 T 11,25° | | | | U-10 | Particularly for the demanding use experienced in industry and with utility vehicles. |
| | **Reversible ratchet** with push-button release and lever change with centre locking | | | 1993 U-10 L 11,25° | | | | U-10 | For an increase in torque. Long design |
|  | **Aluminium reversible ratchet** with push-button release and lever change with centre locking | | 3093 ALU-10 11,25° | 1993 ALU-10 11,25° | | | | U-10 | Very lightweight. Especially for work done above your head. |
| | **Reversible ratchet** with metal disc change | 2093 U-3 5° | 3093 U-3 5° | 1993 U-3 5° | 3293 U-3 5° | 2193 U-3 5° | | U-3 | Especially for working in confined spaces. As in the automotive business |
| | **Reversible ratchet** with metal disc change | | | | 3293 U-2 7,2° | | | U-2 | Especially for working in confined spaces. |
| | **Swivel-head reversible ratchet** with metal disc change | | 3093 GU-3 5° | 1993 GU-3 5° | | | | U-3 | Especially for use in the automotive sector. Extra long design |
| | **Swivel-head reversible ratchet** with lever change and push-button release | | | 1993 GU-10XL 11,25° | | | | | For an increase in torque. Especially for the utility vehicles sector. |
| | **Ratchet handle** with square coupler | 2093 Z-94 18° | 3093 Z-94 10° | 1993 Z-94 15° | 3293 Z-94 10° | 2193 Z-94 9° | | Z-94 | Use throughout industry and the automotive world. |
| | **Friction-type ratchet** | | | | | | 31 KR 31 KVR 29, 31 K 41V-418V | | Especially in steel construction and scaffolding |
| | **Hand ratchet** | 2093 HR-94 18° | | | | | | Z-94 | For progressing fast in confined spaces. |
| | **T-handle ratchet** | 2093 U-3T 5° | 3093 U-3T 5° | | | | | U-3 | For progressing fast in confined spaces. |
| | **Plastic ratchet** | | 3093 U-10K 11,25° | 1993 U-10K 11,25° | | | | U-10 | For fast, smooth tightening of bolted connection up to max. 70 N·m. |

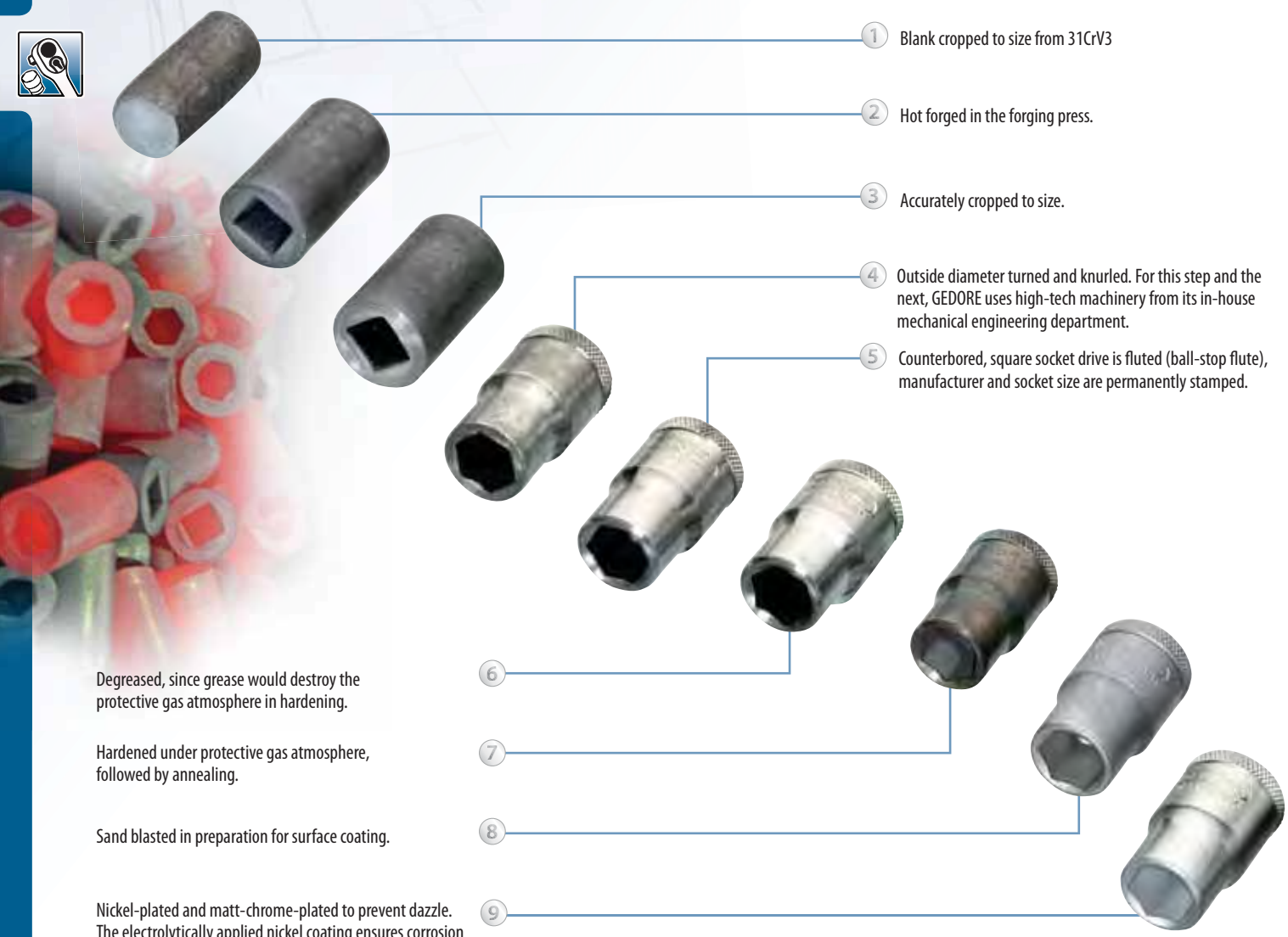

NC COROSTOP WEATHER RESISTENT RATCHETS
546 – 547

VDE RATCHETS
559

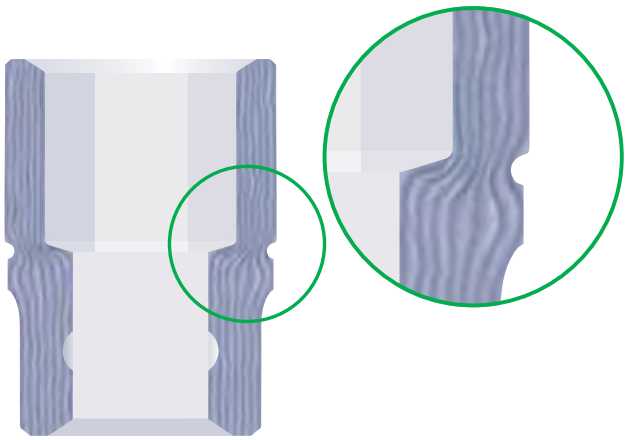
# Manufacturing process for sockets

Like all hot-forged tools, GEDORE sockets (*) are characterised by their homogeneous structure. The fibres run in parallel with the contour of the tool. The uninterrupted fibre orientation prevents residual stresses in the structure. In cold-forged tools, the fibres or lines of stress may deviate. Fibre orientation is equally important in nature. For example, in a tree, the soft fibre orientation is parallel to the branch, so the wood is resistant to bending and twisting. If fibres become kinked, the branch loses its stability at the kink point and breaks. The low-stress GEDORE sockets withstand suddenly occurring peak forces better than cold formed sockets.

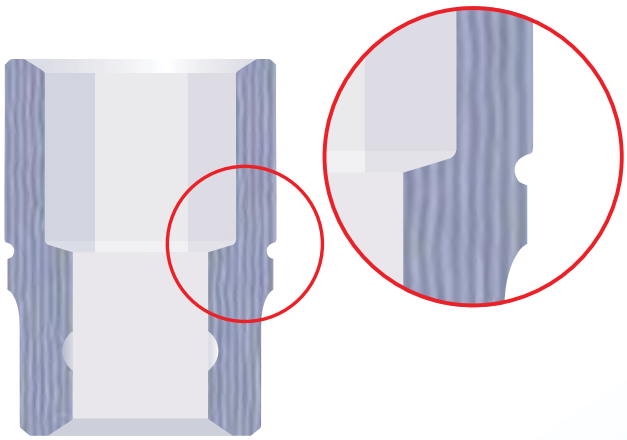
(*) Not applicable to 1/4" hexagonal sockets



1. Blank cropped to size from 31CrV3
2. Hot forged in the forging press.
3. Accurately cropped to size.
4. Outside diameter turned and knurled. For this step and the next, GEDORE uses high-tech machinery from its in-house mechanical engineering department.
5. Counterbored, square socket drive is fluted (ball-stop flute), manufacturer and socket size are permanently stamped.
6. Degreased, since grease would destroy the protective gas atmosphere in hardening.
7. Hardened under protective gas atmosphere, followed by annealing.
8. Sand blasted in preparation for surface coating.
9. Nickel-plated and matt-chrome-plated to prevent dazzle. The electrolytically applied nickel coating ensures corrosion protection. The electroplated chrome improves the look and gives the socket a perfect finish.



**hot forged Fibers**
are not interrupted



**cold forged Fibers**
are bent and thus not as stable

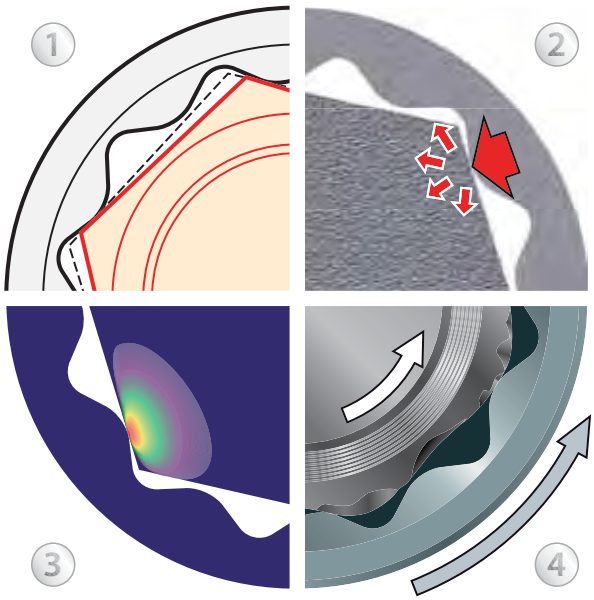
# GEDORE UNIT DRIVE Profile-optimum
**force closure protects screw heads**

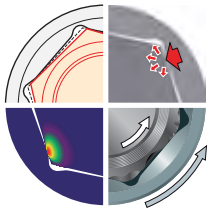
## GEDORE UNIT DRIVE profile

The GEDORE UNIT DRIVE profile stops screw heads from "turning round and round" by means of a wave form without any tipped or sharp edges.
Enlarged, round contact surfaces of the GEDORE tools ensure that torque is reliably transferred - acting uniformly, as it does, on the screw head.

1. A large contact surface provides a secure force closure even for those screw heads whose sizes lie outside of the tolerances.
2. Uniform distribution of the force on the screw head flanks. The resulting reduced notching effect stops the screw head from turning round and round.
3. Gentle torque transfer enables even worn screw heads to be unscrewed with every certainty - no slipping of the tool at all.
4. Thanks to the optimally distributed force up to 20 % higher torques can be transferred.

bi-hexagon



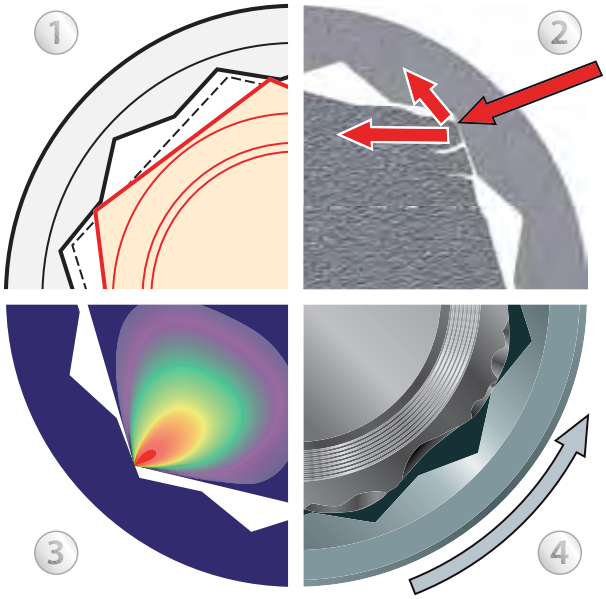
hexagon

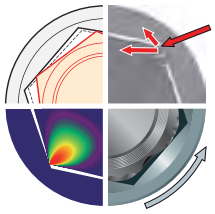
## Traditional profile

The resulting minimised notching effect prevents any damage to the screw head profile. This represents added safety since - even with damaged screw heads - there is no slipping or turning.

1. The reduced contact surface lessens the force closure. Certain torque transfer is no longer possible and can become a risk.
2. The influence exerted of the sharp edges raises the notching effect on the screw head. The profile is ruined.
3. Since there is no longer any torque transfer, the rounded screw head profiles cannot be unscrewed - the tool keeps on slipping.
4. Pronounced force on the tip of the screw head profile. Concentrated pressure deforms the screw head.

bi-hexagon



hexagon

## 6.3 (1/4") SQUARE DRIVE

1/4" 1/4"

www.gedore.com

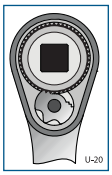
## RATCHETS 6.3 (1/4")

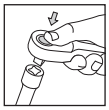
### 2093 U-20

**REVERSIBLE RATCHET 1/4"**

- Acc. to DIN 3122, ISO 3315
- Small, drop shaped head for confined areas
- Fine-toothed, with lever change and push-button release
- Non-slip 2-component handle with hanging hole
- For hand-operated sockets and accessories with square drive as per DIN 3120 - C 6.3, ISO 1174, ball locking device
- GEDORE vanadium steel 31CrV3, chrome-plated

1/4"



| Code | No. | ■" | ■ | ° | mm | | | |
|---|---|---|---|---|---|---|---|---|
| 1703749 | **2093 U-20** | 1/4 | 6.3 | 9 | 127 | 20 | 95 | 5 |

### 2093 U-10

**REVERSIBLE RATCHET 1/4"**

- Acc. to DIN 3122, ISO 3315
- With lever change, locks in middle position
- For hand-operated sockets and accessories with square drive as per DIN 3120 - C 6.3, ISO 1174, ball locking device
- GEDORE vanadium steel 31CrV3, chrome-plated

1/4"

| Code | No. | ■" | ■ | ° | mm | | | |
|---|---|---|---|---|---|---|---|---|
| 6180470 | **2093 U-10** | 1/4 | 6.3 | 15 | 129 | 21.5 | 109 | 5 |

### 2093 U-10 HL

**REVERSIBLE RATCHET 1/4" HI-LOK®**

- Especially for Hi-Lok® bolts (scrivets) in the aerospace industry
- Lever change ratchet with magnetic locking, from GEDORE vanadium steel 31CrV3
- With lever change, oval head
- For hand-operated sockets
- Hi-Lok® = reg. trademark of Hi-Shear Corporation, Ca. USA

1/4"

| Code | No. | ■" | ■ | ° | mm | | | |
|---|---|---|---|---|---|---|---|---|
| 2226294 | **2093 U-10 HL** | 1/4 | 6.3 | 15 | 129 | 21 | 105 | 1 |



Quantities in packs may vary.

## 2093 U-3

### REVERSIBLE RATCHET 1/4"

- Acc. to DIN 3122, ISO 3315
- With non-slip metal disc change, fine-toothed and robust
- For hand-operated sockets and accessories with square drive as per DIN 3120 - C 6.3, ISO 1174, ball locking device
- GEDORE vanadium steel 31CrV3, chrome-plated

| Code | No. | ■" | ■ | ∠° | mm | | | |
|---|---|---|---|---|---|---|---|---|
| 6170590 | **2093 U-3** | 1/4 | 6.3 | 5 | 129 | 25 | 95 | 5 |

## 2093 Z-94

### RATCHET HANDLE WITH COUPLER 1/4"

- Acc. to DIN 3122, ISO 3315
- With square coupler, medium-fine toothed, extremely rugged
- For hand-operated sockets and accessories with square drive as per DIN 3120 - C 6.3, ISO 1174 ball locking device
- GEDORE vanadium steel 31CrV3, chrome-plated

| Code | No. | ■" | ■ | ∠° | mm | | | |
|---|---|---|---|---|---|---|---|---|
| 6170750 | **2093 Z-94** | 1/4 | 6.3 | 18 | 129 | 12 | 76 | 5 |

## 2093 U-3 T

### RATCHET WITH T-HANDLE 1/4"

- Two-wing T-handle
- Ergonomic design for comfortable working
- For hand-operated sockets and accessories with square drive as per DIN 3120 - C 6.3, ISO 1174, ball locking device
- The danger of the tool canting, when carrying out work with extensions, is reduced by the central positioning of the square drive

| Code | No. | ■" | ■ | ∠° | mm | | | |
|---|---|---|---|---|---|---|---|---|
| 1791532 | **2093 U-3 T** | 1/4 | 6.3 | 5 | 140 | 65 | 5 | |

## 2093 HR-94

### HAND RATCHET 1/4" without handle

- With square coupler
- Facilitates working quickly in confined spaces where other ratchets or tools do not fit
- Especially suitable for servicing work in conjunction with extension 2090-12
- Dimensions: Ø 26 x 20 mm

| Code | No. | ■" | ■ | ∠° | | |
|---|---|---|---|---|---|---|
| 6069870 | **2093 HR-94** | 1/4 | 6.3 | 18 | 35 | 10 |

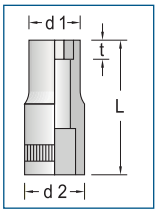
Quantities in packs may vary.

| 1/4" | UNIT DRIVE hexagon mm | UNIT DRIVE bi-hexagon mm | UNIT DRIVE bi-hexagon "AF | UNIT DRIVE hexagon "AF | UNIT DRIVE bi-hexagon Whitw. | Hexagon - external mm | Hexagon - external "AF | Hexagon - external Whitw. | Internal hexagon mm | Internal TORX® | Internal TORX® with pin | External TORX® | Internal serrations XZN | Slot | Cruciform PH | Cruciform PZ | Internal TORX PLUS® | Internal TORX® with ball end | Internal hexagon with ball end | Internal hexagon "AF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ● | ● | | | ● | ● | ● | ● | ● | | ● | | ● | ● | ● | ● | ● | ● | |

## 20

### SOCKET 1/4" hexagon

- Acc. to DIN 3124, ISO 2725-1
- Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- GEDORE vanadium steel 31CrV3, polished, chrome-plated




mm

| Code | No. | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 6165400 | **20 4** | 4.0 | 25 | 6.9 | 12.0 | 2.0 | 9 | 10 |
| 6165590 | **20 4,5** | 4.5 | 25 | 7.5 | 12.0 | 2.3 | 10 | 5 |
| 6165670 | **20 5** | 5.0 | 25 | 8.2 | 12.0 | 2.5 | 10 | 10 |
| 6165750 | **20 5,5** | 5.5 | 25 | 8.8 | 12.0 | 3.0 | 10 | 10 |
| 6165830 | **20 6** | 6.0 | 25 | 9.4 | 12.0 | 3.5 | 10 | 10 |
| 6165910 | **20 7** | 7.0 | 25 | 11.0 | 12.0 | 4.0 | 11 | 10 |
| 6166050 | **20 8** | 8.0 | 25 | 12.0 | 12.0 | 5.0 | 14 | 10 |
| 6166130 | **20 9** | 9.0 | 25 | 13.0 | 13.0 | 5.0 | 16 | 10 |
| 6166210 | **20 10** | 10.0 | 25 | 14.7 | 14.7 | 6.0 | 18 | 10 |
| 6166480 | **20 11** | 11.0 | 25 | 16.0 | 16.0 | 7.0 | 25 | 10 |
| 6166560 | **20 12** | 12.0 | 25 | 17.0 | 17.0 | 8.0 | 29 | 10 |
| 6166640 | **20 13** | 13.0 | 25 | 18.5 | 18.5 | 8.0 | 30 | 10 |
| 6166720 | **20 14** | 14.0 | 25 | 19.7 | 19.7 | 10.0 | 37 | 10 |

"AF

| Code | No. | "AF | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 6167020 | **20 3/16AF** | 3/16 | 25 | 7.8 | 12.0 | 2.5 | 9 | 10 |
| 6167100 | **20 7/32AF** | 7/32 | 25 | 8.8 | 12.0 | 3.0 | 9 | 10 |
| 6167290 | **20 1/4AF** | 1/4 | 25 | 9.8 | 12.0 | 3.5 | 25 | 10 |
| 6167370 | **20 9/32AF** | 9/32 | 25 | 11.0 | 12.0 | 4.0 | 10 | 10 |
| 6167450 | **20 5/16AF** | 5/16 | 25 | 12.0 | 12.0 | 5.0 | 13 | 10 |
| 6167530 | **20 11/32AF** | 11/32 | 25 | 13.0 | 13.0 | 5.0 | 15 | 10 |
| 6167610 | **20 3/8AF** | 3/8 | 25 | 14.0 | 14.0 | 6.0 | 18 | 10 |
| 6167880 | **20 7/16AF** | 7/16 | 25 | 16.0 | 16.0 | 7.0 | 23 | 10 |
| 6167960 | **20 1/2AF** | 1/2 | 25 | 18.0 | 18.0 | 8.0 | 29 | 10 |
| 6161840 | **20 9/16AF** | 9/16 | 25 | 20.0 | 20.0 | 10.0 | 36 | 10 |

Whitw.

| Code | No. | BA | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 6168500 | **20 8BA** | 8 | 25 | 6.7 | 12.0 | 2.0 | 9 | 10 |
| 6168690 | **20 7BA** | 7 | 25 | 7.3 | 12.0 | 2.3 | 9 | 10 |
| 6168770 | **20 6BA** | 6 | 25 | 8.0 | 12.0 | 2.5 | 9 | 10 |
| 6168850 | **20 5BA** | 5 | 25 | 8.8 | 12.0 | 3.0 | 9 | 10 |
| 6168930 | **20 4BA** | 4 | 25 | 9.8 | 12.0 | 3.5 | 10 | 10 |
| 6169070 | **20 3BA** | 3 | 25 | 11.0 | 12.0 | 4.0 | 10 | 1 |
| 6169150 | **20 2BA** | 2 | 25 | 12.0 | 12.0 | 5.0 | 12 | 10 |
| 6169230 | **20 1BA** | 1 | 25 | 13.0 | 13.0 | 5.0 | 15 | 10 |
| 6169310 | **20 0BA** | 0 | 25 | 15.0 | 15.0 | 7.0 | 19 | 10 |

S 1023 86

20 LMU-10 187

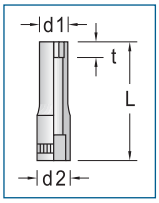
1500 ES • CT-20 BIT • 1500 CT1-20 98 111

Quantities in packs may vary.

## 20 L

### SOCKET 1/4" hexagon, long pattern

- Acc. to DIN 3124, ISO 2725-1
- Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- GEDORE vanadium steel 31CrV3, polished, chrome-plated



mm

| Code | No. | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 6191400 | **20 L 4** | 4.0 | 50 | 6.9 | 12.0 | 3.0 | 17 | 5 |
| 6191590 | **20 L 4,5** | 4.5 | 50 | 7.5 | 12.0 | 3.4 | 17 | 5 |
| 6191670 | **20 L 5** | 5.0 | 50 | 8.2 | 12.0 | 3.7 | 18 | 5 |
| 6191750 | **20 L 5,5** | 5.5 | 50 | 8.8 | 12.0 | 4.5 | 19 | 5 |
| 6191830 | **20 L 6** | 6.0 | 50 | 9.4 | 12.0 | 5.2 | 20 | 5 |
| 6191910 | **20 L 7** | 7.0 | 50 | 11.0 | 12.0 | 6.0 | 24 | 5 |
| 6192050 | **20 L 8** | 8.0 | 50 | 12.0 | 12.0 | 7.5 | 27 | 10 |
| 6192130 | **20 L 9** | 9.0 | 50 | 13.0 | 13.0 | 7.5 | 30 | 5 |
| 6192210 | **20 L 10** | 10.0 | 50 | 14.7 | 14.7 | 9.0 | 33 | 10 |
| 6192480 | **20 L 11** | 11.0 | 50 | 16.0 | 16.0 | 10.5 | 47 | 5 |
| 6192560 | **20 L 12** | 12.0 | 50 | 17.0 | 17.0 | 12.0 | 50 | 5 |
| 6192640 | **20 L 13** | 13.0 | 50 | 18.5 | 18.5 | 12.0 | 54 | 10 |

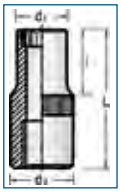
"AF

| Code | No. | "AF | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 6192800 | **20 L 3/16AF** | 3/16 | 50 | 7.8 | 12.0 | 3.7 | 16 | 10 |
| 6192990 | **20 L 7/32AF** | 7/32 | 50 | 8.8 | 12.0 | 4.5 | 17 | 10 |
| 6193020 | **20 L 1/4AF** | 1/4 | 50 | 9.8 | 12.0 | 5.2 | 17 | 10 |
| 6193100 | **20 L 9/32AF** | 9/32 | 50 | 11.0 | 12.0 | 6.0 | 22 | 10 |
| 6193290 | **20 L 5/16AF** | 5/16 | 50 | 12.0 | 12.0 | 7.5 | 25 | 10 |
| 6193370 | **20 L 11/32AF** | 11/32 | 50 | 13.0 | 13.0 | 7.5 | 29 | 10 |
| 6193450 | **20 L 3/8AF** | 3/8 | 50 | 14.0 | 14.0 | 9.0 | 33 | 10 |
| 6193530 | **20 L 7/16AF** | 7/16 | 50 | 16.0 | 16.0 | 10.5 | 43 | 10 |
| 6193610 | **20 L 1/2AF** | 1/2 | 50 | 18.0 | 18.0 | 12.0 | 54 | 10 |

## D 20

### SOCKET 1/4" bi-hexagon UD profile

- Acc. to DIN 3124, ISO 2725-1
- Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- GEDORE vanadium steel 31CrV3, polished, chrome-plated



mm

| Code | No. | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 1649558 | **D 20 4** | 4.0 | 25 | 6.9 | 12.0 | 2.0 | 9 | 10 |
| 1649566 | **D 20 4,5** | 4.5 | 25 | 7.5 | 12.0 | 2.3 | 8 | 1 |
| 1649574 | **D 20 5** | 5.0 | 25 | 8.2 | 12.0 | 2.5 | 11 | 10 |
| 1802402 | **D 20 5,5** | 5.5 | 25 | 8.8 | 12.0 | 3.0 | 12 | 10 |
| 1649582 | **D 20 6** | 6.0 | 25 | 9.4 | 12.0 | 3.5 | 10 | 10 |
| 1649590 | **D 20 7** | 7.0 | 25 | 11.0 | 12.0 | 4.0 | 13 | 10 |
| 6225750 | **D 20 8** | 8.0 | 25 | 12.0 | 12.0 | 5.0 | 13 | 5 |
| 6225830 | **D 20 9** | 9.0 | 25 | 13.0 | 13.0 | 5.0 | 15 | 10 |
| 6226050 | **D 20 10** | 10.0 | 25 | 14.7 | 14.7 | 6.0 | 20 | 5 |
| 6226130 | **D 20 11** | 11.0 | 25 | 16.0 | 16.0 | 7.0 | 24 | 10 |
| 6226480 | **D 20 12** | 12.0 | 25 | 17.0 | 17.0 | 8.0 | 26 | 10 |
| 6226640 | **D 20 13** | 13.0 | 25 | 18.5 | 18.5 | 8.0 | 29 | 5 |
| 6226720 | **D 20 14** | 14.0 | 25 | 19.7 | 19.7 | 10.0 | 36 | 10 |

"AF

| Code | No. | "AF | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 1812505 | **D 20 3/16AF** | 3/16 | 25 | 7.8 | 12.0 | 2.5 | 10 | 1 |
| 1812513 | **D 20 7/32AF** | 7/32 | 25 | 8.8 | 12.0 | 3.0 | 11 | 1 |
| 1812521 | **D 20 1/4AF** | 1/4 | 25 | 9.8 | 12.0 | 3.5 | 11 | 1 |
| 1812548 | **D 20 9/32AF** | 9/32 | 25 | 11.0 | 12.0 | 4.0 | 12 | 1 |
| 6226800 | **D 20 5/16AF** | 5/16 | 25 | 12.0 | 12.0 | 5.0 | 12 | 10 |
| 6226990 | **D 20 11/32AF** | 11/32 | 25 | 13.0 | 13.0 | 5.0 | 15 | 10 |
| 6227020 | **D 20 3/8AF** | 3/8 | 25 | 14.0 | 14.0 | 6.0 | 17 | 10 |
| 1901702 | **D 20 13/32AF** | 13/32 | 25 | 15.0 | 15.0 | 6.0 | 20 | 1 |
| 6227370 | **D 20 7/16AF** | 7/16 | 25 | 16.0 | 16.0 | 7.0 | 22 | 10 |
| 6227450 | **D 20 1/2AF** | 1/2 | 25 | 18.0 | 18.0 | 8.0 | 28 | 10 |
| 6228180 | **D 20 9/16AF** | 9/16 | 25 | 20.0 | 20.0 | 10.0 | 34 | 10 |

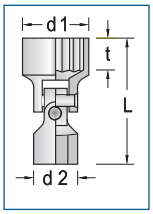
## DG 20

### SWIVEL SOCKET 1/4" bi-hexagon UD profile

- Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- Hand-operated
- UD-profile
- GEDORE vanadium steel 31CrV3, chrome-plated

mm

| Code | No. | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 2190648 | **DG 20 5,5** | 5.5 | 38.0 | 8.8 | 14 | 3.0 | 30 | 1 |
| 2190656 | **DG 20 6** | 6.0 | 38.0 | 9.4 | 14 | 3.5 | 30 | 1 |
| 2190664 | **DG 20 7** | 7.0 | 38.0 | 11.0 | 14 | 4.0 | 30 | 1 |
| 2190680 | **DG 20 8** | 8.0 | 38.0 | 12.0 | 14 | 5.0 | 30 | 1 |
| 2190699 | **DG 20 9** | 9.0 | 38.0 | 13.0 | 14 | 5.0 | 50 | 1 |
| 2190702 | **DG 20 10** | 10.0 | 39.0 | 14.7 | 14 | 6.0 | 40 | 1 |
| 2190729 | **DG 20 11** | 11.0 | 41.0 | 16.0 | 14 | 7.0 | 40 | 1 |
| 2190737 | **DG 20 12** | 12.0 | 42.0 | 17.0 | 14 | 8.0 | 30 | 1 |
| 2190745 | **DG 20 13** | 13.0 | 42.0 | 18.5 | 14 | 8.0 | 40 | 1 |



"AF

| Code | No. | "AF | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 1965336 | **DG 20 1/4AF** | 1/4 | 38.0 | 9.8 | 14 | 3.5 | 25 | 1 |
| 1965344 | **DG 20 5/16AF** | 5/16 | 38.0 | 12.0 | 14 | 5.0 | 26 | 1 |
| 1965352 | **DG 20 3/8AF** | 3/8 | 39.0 | 14.0 | 14 | 6.0 | 27 | 1 |
| 1965360 | **DG 20 7/16AF** | 7/16 | 41.0 | 16.0 | 14 | 7.0 | 10 | 1 |
| 1965379 | **DG 20 1/2AF** | 1/2 | 42.0 | 18.0 | 14 | 8.0 | 10 | 1 |
| 1965387 | **DG 20 9/16AF** | 9/16 | 43.5 | 20.0 | 14 | 9.0 | 10 | 1 |

Quantities in packs may vary.

## D 20 L

### SOCKET 1/4" bi-hexagon UD profile, long pattern

- Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- GEDORE vanadium steel 31CrV3, polished, chrome-plated

| Code | No. | "AF | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 1965433 | **D 20 L 3/16AF** | 3/16 | 50 | 7.8 | 12.0 | 3.7 | 17 | 1 |
| 1965476 | **D 20 L 7/32AF** | 7/32 | 50 | 8.8 | 12.0 | 4.5 | 19 | 1 |
| 1965417 | **D 20 L 1/4AF** | 1/4 | 50 | 9.8 | 12.0 | 5.2 | 17 | 1 |
| 1965484 | **D 20 L 9/32AF** | 9/32 | 50 | 11.0 | 12.0 | 6.0 | 43 | 1 |
| 1965441 | **D 20 L 5/16AF** | 5/16 | 50 | 12.0 | 12.0 | 7.5 | 24 | 1 |
| 1965492 | **D 20 L 11/32AF** | 11/32 | 50 | 13.0 | 13.0 | 7.5 | 43 | 1 |
| 1965425 | **D 20 L 3/8AF** | 3/8 | 50 | 14.0 | 14.0 | 9.0 | 35 | 1 |
| 1965468 | **D 20 L 7/16AF** | 7/16 | 50 | 16.0 | 16.0 | 10.5 | 43 | 1 |
| 1965409 | **D 20 L 1/2AF** | 1/2 | 50 | 18.0 | 18.0 | 12.0 | 54 | 1 |

## TX 20

### SOCKET 1/4" for protruding TORX® head screws

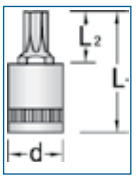
- Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- GEDORE vanadium steel 31CrV3, polished, chrome-plated
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | | | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6193880 | **TX 20 E4** | E4 | M3 | 3.86 | 25 | 5.5 | 12 | 4.5 | 8 | 5 |
| 6187640 | **TX 20 E5** | E5 | M4 | 4.73 | 25 | 7.0 | 12 | 5.0 | 9 | 5 |
| 6187720 | **TX 20 E6** | E6 | M5 | 5.74 | 25 | 8.0 | 12 | 5.0 | 10 | 5 |
| 6187800 | **TX 20 E7** | E7 | M6 | 6.16 | 25 | 9.5 | 12 | 6.0 | 11 | 5 |
| 6187990 | **TX 20 E8** | E8 | M6 - M7 | 7.52 | 25 | 10.5 | 12 | 6.5 | 14 | 5 |
| 6193960 | **TX 20 E10** | E10 | M8 | 9.42 | 25 | 13.0 | 13 | 7.0 | 18 | 5 |

## ITX 20 IP

### SCREWDRIVER BIT SOCKET 1/4" for recessed TORX PLUS® head screws

- Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- TORX PLUS® = reg. trademark of Acument Intellectual Properties, LLC. USA

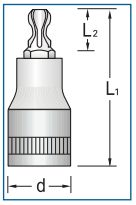


| Code | No. | | | mm | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|---|
| 1815431 | **ITX 20 6IP** | 6IP | M2 | 2.31 | 30.5 | 14.5 | 12 | 13 | 1 |
| 1815458 | **ITX 20 8IP** | 8IP | M2,5 - M3 | 2.50 | 30.5 | 14.5 | 12 | 13 | 1 |
| 1815466 | **ITX 20 10IP** | 10IP | M3 - M3,5 | 2.74 | 30.5 | 14.5 | 12 | 13 | 1 |
| 1815474 | **ITX 20 15IP** | 15IP | M3,5 - M4 | 3.27 | 30.5 | 14.5 | 12 | 13 | 1 |
| 1815482 | **ITX 20 20IP** | 20IP | M4 - M5 | 3.86 | 30.5 | 14.5 | 12 | 14 | 1 |
| 1815490 | **ITX 20 25IP** | 25IP | M4,5 - M5 | 4.43 | 30.5 | 14.5 | 12 | 14 | 1 |
| 1827898 | **ITX 20 27IP** | 27IP | M5 - M6 | 4.99 | 30.5 | 14.5 | 12 | 14 | 1 |
| 1815504 | **ITX 20 30IP** | 30IP | M6 | 5.52 | 30.5 | 14.5 | 12 | 15 | 1 |
| 1815512 | **ITX 20 40IP** | 40IP | M7 - M8 | 6.65 | 33.5 | 14.0 | 14 | 25 | 1 |

## ITX 20 K

### SCREWDRIVER BIT SOCKET 1/4" with ball end, for recessed TORX® head screws

- Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- Swivel angle approx. 15-20°
- Optimum transfer of power, also at places which are difficult of access
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



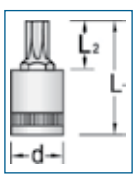
| Code | No. | | | mm | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|---|
| 6120220 | **ITX 20 K T10** | T10 | M3 - M3,5 | 2.74 | 30.5 | 14.5 | 12 | 15 | 10 |
| 6120300 | **ITX 20 K T15** | T15 | M3,5 - M4 | 3.27 | 30.5 | 14.5 | 12 | 15 | 10 |
| 6120490 | **ITX 20 K T20** | T20 | M4 - M5 | 3.86 | 30.5 | 14.5 | 12 | 15 | 10 |
| 6120570 | **ITX 20 K T25** | T25 | M4,5 - M5 | 4.43 | 30.5 | 14.5 | 12 | 15 | 10 |
| 6120650 | **ITX 20 K T27** | T27 | M4,5 - M6 | 4.99 | 30.5 | 14.5 | 12 | 15 | 10 |
| 6120730 | **ITX 20 K T30** | T30 | M6 - M7 | 5.52 | 30.5 | 14.5 | 12 | 15 | 10 |
| 6120810 | **ITX 20 K T40** | T40 | M7 - M8 | 6.65 | 33.5 | 14.0 | 14 | 25 | 10 |

## ITX 20

### SCREWDRIVER BIT SOCKET 1/4" for recessed TORX® head screws

- Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | | | mm | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|---|
| 6190430 | **ITX 20 T8** | T8 | M2,5 | 2.31 | 30.5 | 14.5 | 12 | 13 | 10 |
| 6190510 | **ITX 20 T9** | T9 | M3 | 2.50 | 30.5 | 14.5 | 12 | 13 | 10 |
| 6190780 | **ITX 20 T10** | T10 | M3 - M3,5 | 2.74 | 30.5 | 14.5 | 12 | 14 | 10 |
| 6190860 | **ITX 20 T15** | T15 | M3,5 - M4 | 3.27 | 30.5 | 14.5 | 12 | 14 | 10 |
| 6190940 | **ITX 20 T20** | T20 | M4 - M5 | 3.86 | 30.5 | 14.5 | 12 | 14 | 10 |
| 6191080 | **ITX 20 T25** | T25 | M4,5 - M5 | 4.43 | 30.5 | 14.5 | 12 | 14 | 10 |
| 6191160 | **ITX 20 T27** | T27 | M4,5 - M6 | 4.99 | 30.5 | 14.5 | 12 | 14 | 10 |
| 6191240 | **ITX 20 T30** | T30 | M6 - M7 | 5.52 | 30.5 | 14.5 | 12 | 15 | 10 |
| 6265890 | **ITX 20 T40** | T40 | M7 - M8 | 6.65 | 33.5 | 14.0 | 14 | 25 | 10 |

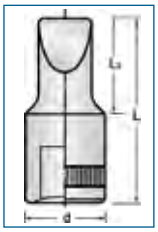


Quantities in packs may vary.

## IS 20

### SCREWDRIVER BIT SOCKET 1/4" for slotted head screws

- Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- Bit in GEDORE vanadium special steel, manganese-phosphated
- Bit as per DIN ISO 2380-1 Form B

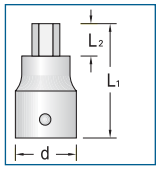


| Code | No. | mm | mm | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|
| 6171560 | **IS 20 4x0,8** | 0.8 | 4.0 | 28 | 14.5 | 12 | 11 | 10 |
| 6171640 | **IS 20 5,5x1** | 1.0 | 5.5 | 28 | 14.5 | 12 | 12 | 10 |
| 6174230 | **IS 20 6,5x1,2** | 1.2 | 6.5 | 28 | 14.5 | 12 | 12 | 10 |
| 6174310 | **IS 20 8x1,6** | 1.6 | 8.0 | 28 | 14.5 | 12 | 12 | 10 |

## IN 20

### SCREWDRIVER BIT SOCKET 1/4" for in-hex screws

- Acc. to DIN 7422
- Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- Bit in GEDORE vanadium special steel, manganese-phosphated
- * not standardised

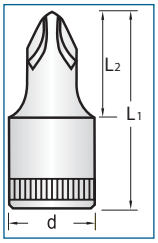


| Code | No. | * | mm | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|
| 1812556 | **IN 20 2** | * | 2.0 | 28 | 3.0 | 12 | 10 | 10 |
| 1707736 | **IN 20 2,5** | * | 2.5 | 28 | 3.5 | 12 | 10 | 10 |
| 6176010 | **IN 20 3** | | 3.0 | 28 | 5.5 | 12 | 11 | 10 |
| 6176280 | **IN 20 4** | | 4.0 | 28 | 7.0 | 12 | 11 | 10 |
| 6176360 | **IN 20 5** | | 5.0 | 28 | 8.0 | 12 | 12 | 10 |
| 6178490 | **IN 20 6** | | 6.0 | 28 | 8.5 | 12 | 13 | 10 |
| 6178570 | **IN 20 8** | * | 8.0 | 28 | 10.0 | 12 | 16 | 10 |

## IKS 20

### SCREWDRIVER BIT SOCKET 1/4" for cross-slotted head screws PH

- Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- Bit in GEDORE vanadium special steel, manganese-phosphated
- Tip as per DIN ISO 8764-1 PH

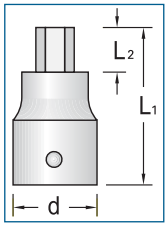


| Code | No. | PH | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|
| 6174580 | **IKS 20 1** | 1 | 28 | 14.5 | 12 | 11 | 10 |
| 6174660 | **IKS 20 2** | 2 | 28 | 14.5 | 12 | 12 | 10 |
| 6174740 | **IKS 20 3** | 3 | 28 | 14.5 | 12 | 12 | 10 |
| 6174820 | **IKS 20 4** | 4 | 28 | 14.5 | 12 | 14 | 10 |

## IN 20 L

### SCREWDRIVER BIT SOCKET 1/4" for in-hex screws, long pattern

- Acc. to DIN 7422
- Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- Bit in GEDORE vanadium special steel, manganese-phosphated

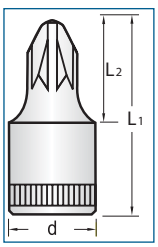


| Code | No. | mm | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|
| 1933256 | **IN 20 L 3-60** | 3 | 60 | 32 | 12 | 24 | 1 |
| 1933264 | **IN 20 L 4-60** | 4 | 60 | 32 | 12 | 25 | 1 |
| 1933272 | **IN 20 L 5-60** | 5 | 60 | 32 | 12 | 27 | 1 |
| 1933280 | **IN 20 L 6-60** | 6 | 60 | 32 | 12 | 29 | 1 |
| 1933299 | **IN 20 L 8-60** | 8 | 60 | 32 | 14 | 50 | 1 |

## IKS 20 PZD

### SCREWDRIVER BIT SOCKET 1/4" for cross-slotted head screws PZ

- Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- Bit in GEDORE vanadium special steel, manganese-phosphated
- Tip as per DIN ISO 8764-1 PZ

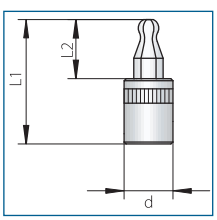


| Code | No. | PZ | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|
| 6187130 | **IKS 20 PZD 1** | 1 | 28 | 14.5 | 12 | 12 | 10 |
| 6187210 | **IKS 20 PZD 2** | 2 | 28 | 14.5 | 12 | 13 | 10 |
| 6187480 | **IKS 20 PZD 3** | 3 | 28 | 14.5 | 12 | 14 | 10 |
| 6187560 | **IKS 20 PZD 4** | 4 | 28 | 14.5 | 12 | 15 | 10 |

## IN 20 K

### SCREWDRIVER BIT SOCKET 1/4" with ball end, for in-hex screws

- Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin, manganese-phosphated
- Total swivel angle approx. 15-20°



| Code | No. | mm | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|
| 2219409 | **IN 20 K 4** | 4 | 30.5 | 14.5 | 12 | 10 | 1 |
| 2219417 | **IN 20 K 5** | 5 | 30.5 | 14.5 | 12 | 10 | 1 |
| 2219468 | **IN 20 K 6** | 6 | 30.5 | 14.5 | 12 | 13 | 1 |

Quantities in packs may vary.

# ACCESSORIES 6.3 (1/4")

## 2030

### CONVERTOR 1/4" TO 3/8"

- Acc. to DIN 3123, ISO 3316
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- GEDORE vanadium steel 31CrV3, polished, chrome-plated

| Code | No. | □" | □ | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6170080 | **2030** | 1/4 | 6.3 | 3/8 | 10 | 26 | 20 | 10 |

## 2087

### SLIDING T BAR 1/4"

- Acc. to DIN 3122, ISO 3315
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- GEDORE vanadium steel 31CrV3, polished, chrome-plated

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6170160 | **2087** | 1/4 | 6.3 | 115 | 39 | 5 |

## 2087 A

### SLIDING T BAR WITH RELEASE 1/4"

- Secured against unintentional removal
- GEDORE vanadium steel 31CrV3, polished, chrome-plated
- Turn handle for easy locking and releasing
- Accidental release when working is prevented because of the asymmetrical release point
- Particularly useful for work in sensitive areas where certainty against loss is a theme
- Examples: Aircraft engine, work in deep machine bodies
- DBGM (German utility patent)

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 1834398 | **2087 A** | 1/4 | 6.3 | 115 | 48 | 1 |

## 2088

### FLEXIBLE EXTENSION 1/4"

- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- GEDORE vanadium steel 31CrV3, polished, chrome-plated

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6170240 | **2088** | 1/4 | 6.3 | 120 | 46 | 10 |

## 2090

### EXTENSION 1/4"

- Acc. to DIN 3123, ISO 3316
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- GEDORE vanadium steel 31CrV3, polished, chrome-plated
- * not standardised

| Code | No. | * | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|---|
| 6170320 | **2090-2** | | 1/4 | 6.3 | 55 | 25 | 10 |
| 6170400 | **2090-4** | | 1/4 | 6.3 | 97 | 41 | 10 |
| 6171210 | **2090-6** | | 1/4 | 6.3 | 148 | 61 | 10 |
| 6173340 | **2090-12** | * | 1/4 | 6.3 | 305 | 124 | 10 |

## 2090 A

### EXTENSION 1/4" with release

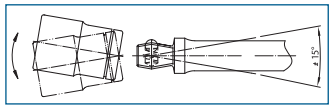
- Easy access to deep-fitting screws in confined areas
- No unintentional release of the socket from the extension due to safety ring
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, ball locking device

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 1932284 | **2090 A-2** | 1/4 | 6.3 | 55 | 30 | 1 |
| 1932292 | **2090 A-4** | 1/4 | 6.3 | 97 | 50 | 1 |
| 1932306 | **2090 A-12** | 1/4 | 6.3 | 305 | 125 | 1 |

## 2090 KR

### UNIVERSAL EXTENSION 1/4"

- With ball end
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- The extension is able to pivot up to 15°
- GEDORE vanadium steel 31CrV3, polished, chrome-plated



| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 1812564 | **2090 KR-2** | 1/4 | 6.3 | 55 | 24 | 1 |
| 1812572 | **2090 KR-4** | 1/4 | 6.3 | 97 | 45 | 1 |
| 6121030 | **2090 KR-6** | 1/4 | 6.3 | 148 | 60 | 10 |

## 2094

### COUPLER 1/4"

- Acc. to DIN 3122, ISO 3315
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- GEDORE vanadium steel 31CrV3, polished, chrome-plated

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6170830 | **2094** | 1/4 | 6.3 | 19.8 | 6 | 10 |



Quantities in packs may vary.

## 2095

### UNIVERSAL JOINT 1/4"

- Acc. to DIN 3123, ISO 3316
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- GEDORE vanadium steel 31CrV3, polished, chrome-plated

| Code | No. | ■" | ■ | □" | □ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6170910 | **2095** | 1/4 | 6.3 | 1/4 | 6.3 | 38 | 26 | 10 |

## 2097

### SWIVEL HANDLE 1/4"

- Acc. to DIN 3122, ISO 3315
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- GEDORE vanadium steel 31CrV3, polished, chrome-plated, square drive manganese-phosphated

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6171050 | **2097** | 1/4 | 6.3 | 146 | 94 | 10 |

## 2098

### DRIVING HANDLE 1/4"

- Acc. to DIN 3122, ISO 3315
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6171480 | **2098** | 1/4 | 6.3 | 140 | 70 | 10 |

## 2098 K

### DRIVING HANDLE 1/4" short pattern

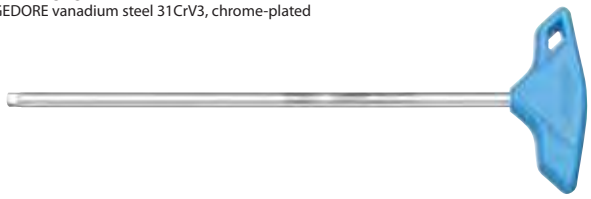
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 1953788 | **2098 K** | 1/4 | 6.3 | 70 | 34 | 1 |

## 2098 T

### DRIVING HANDLE 1/4"

- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- With bit adaptor no. 620 also suitable for 1/4" bits
- Easy access to deep-fitting screws in confined areas
- The danger of the tool canting, is reduced by the central positioning of the square drive
- With hanging hole
- GEDORE vanadium steel 31CrV3, chrome-plated

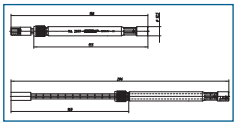


| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 1939998 | **2098 T** | 1/4 | 6.3 | 300 | 150 | 1 |

## 2099

### TELESCOPIC EXTENSION 1/4" magnetic

- With 1/4" female square drive and 1/4" female hexagon drive
- Automatic, form-fit connection
- Adjustable in 10 mm steps from 186-296 mm
- Suitable for 1/4" bits as well as with adaptor no. 673 for sockets up to 13 mm
- Made of quality steel, manganese-phosphated resp. chrome-plated

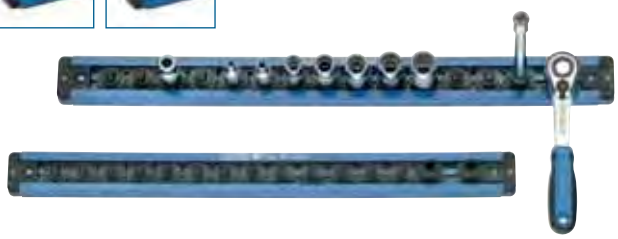


| Code | No. | □" | □ | ⬡" | ⬡ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 1888455 | **2099** | 1/4 | 6.3 | 1/4 | 6.3 | 186-296 | 205 | 1 |

## SL 2013

### TOOL HOLDING RAIL, MAGNETIC 1/4" empty

- External squares to take 13 standard commercial 6.3 mm (1/4") sockets
- Two female square adaptors to take ratchets, sliding T bars, extensions etc.
- A strong magnet securely holds the socket rail to ferrous metals
- Additional holes are provided for wall mounting the socket rail or attaching to non-ferrous materials
- The sockets are securely locked by the ball at the square-drive end by turning them 90°
- It is a simple matter to "unlock" and remove the sockets, by turning them 90° in the opposing direction
- Delivery without tools



| Code | No. | mm | mm | | |
|---|---|---|---|---|---|
| 1761080 | **SL 2013** | 380 | 33 | 355 | 1 |

## S 2032-05

### ADAPTOR SET 1/4" 5 pieces

- Set of reducers and convertors 1/4" - 3/4"
- Reducers 1930, 3020
- Convertors 2030, 3019, 1932
- In transparent plastic box, dimensions: L 134 x W 51 x H 51 mm, foam insert light-blue
- Please take note of the maximum capacity of the external squares of the reducers acc. to DIN 3123, ISO 3316

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1729071 | **S 2032-05** | 2030 ½-⅜<br>3020 ½-¼<br>3019 ½-⅜<br>1930 ½-⅜<br>1932 ½-⅜ | 340 | 1 |

Quantities in packs may vary.

## SETS 6.3 (1/4") MM+INCH

- New classification into basic, supplementary, compact and volume sets
- Socket drivers and/or practical accessories in proven GEDORE quality
- With "Check-Tool-System": 2-colour plastic insert to check that the set is complete

## BASIC SETS

### D 20 DM

**SOCKET SET 1/4" 14 pieces**

- With UD profile sockets made from GEDORE vanadium steel 31CrV3, hand-operated
- With driving handle and adaptor
- In plastic case
- Dimensions: 160 x 95 x 38 mm

| Code | No. | Sockets | Accessories | | |
|---|---|---|---|---|---|
| 1815563 | **D 20 DM** | **D 20** 4 4,5 5 5,5 6 7 8 9 10 11 12 13 | **673** 6,3<br>**676** | 357 | 1 |

### D 20 DMU-3

**SOCKET SET 1/4" 14 pieces**

- With UD profile sockets and accessories made from GEDORE vanadium steel 31CrV3, hand-operated
- With fine toothed, dial change ratchet
- In plastic case
- Dimensions 160 x 95 x 38 mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 1815598 | **D 20 DMU-3** | U-3 **2093** U-3 | **D 20** 4 4,5 5 5,5 6 7 8 9 10 11 12 13 | **2090**-4 | 429 | 1 |

### D 20 DMU-3 T

**SOCKET SET 1/4" 13 pieces**

- With hand-operated UD profile sockets and accessories made from GEDORE vanadium steel 31CrV3
- With ratchet with T-handle and hand ratchet
- In plastic case
- Dimensions: 160 x 95 x 38 mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 1815571 | **D 20 DMU-3 T** | U-3 **2093** U-3 T<br>**2093 HR**-94 | **D 20** 4 5 6 7 8 9 10 11 12 13 | **2090 KR**-4 | 414 | 1 |

## SUPPLEMENTARY SETS

### INS 20 PM

**SCREWDRIVER BIT SOCKET SET 1/4" 15 pieces**

- With hand-operated screwdriver bit sockets in GEDORE vanadium special steel
- In plastic case
- Dimensions: 160 x 95 x 38 mm

| Code | No. | Sockets | | |
|---|---|---|---|---|
| 1815601 | **INS 20 PM** | **IN 20** 3 4 5 6 8<br>**IS 20** 4 5,5 6,5 8<br>**IKS 20** 1 2 3<br>**IKS 20 PZD** 1 2 3 | 285 | 1 |

### ITX 20 TX-015

**SCREWDRIVER BIT SOCKET SET 1/4" 15 pieces**

- With hand-operated screwdriver bit sockets in GEDORE vanadium special steel
- In plastic case
- Dimensions: 160 x 95 x 38 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Sockets | | |
|---|---|---|---|---|
| 1815628 | **ITX 20 TX-015** | **ITX 20** T8 T9 T10 T15 T20 T25 T27 T30 T40<br>**TX 20** E4 E5 E6 E7 E8 E10 | 307 | 1 |

### ITX 20 PM

**SCREWDRIVER BIT SOCKET SET 1/4" 9 pieces**

- With hand-operated screwdriver bit sockets in GEDORE vanadium special steel
- In plastic case
- Dimensions: 110 x 65 x 31 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Sockets | | |
|---|---|---|---|---|
| 1815636 | **ITX 20 PM** | **ITX 20** T8 T9 T10 T15 T20 T25 T27 T30 T40 | 174 | 1 |



Quantities in packs may vary.

# COMPACT SETS

## D 20 EMU-3

### SOCKET SET 1/4" 17 pieces

- With forged, tempered UD profile sockets, hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- With fine toothed, dial change ratchet
- In plastic case
- Dimensions: 200 x 120 x 38 mm

mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 1815652 | **D 20 EMU-3** | U-3 **2093 U**-3 | **D 20** 4 4,5 5 5,5 6 7 8 9 10 11 13 | **2087**<br>**2090**-4<br>**2095**<br>**676**<br>**673** 6,3 | 625 | 1 |

## D 20 KMU-20

### SOCKET SET 1/4" 37 pieces

- With forged, tempered UD profile sockets, hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- With robust lever-change reversible ratchet with push-button release
- In plastic case
- Dimensions: 200 x 120 x 38 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 1822373 | **D 20 KMU-20** | U-20 **2093 U**-20 | **D 20** 4 5 6 7 8 9 10 11 12 13<br>**680** 4 5,5 6,5<br>**685** 3 4 5 6<br>**685 X** 5 6 8<br>**687 TX** T10 T15 T20 T25 T27 T30 T40<br>**690** 1 2<br>**690 PZD** 1 2 3 | **2090**-4<br>**620**<br>**676**<br>**699** | 712 | 1 |

## D 20 MOT

### BASIC TOOL SET 1/4" FOR MOTORBIKES 30 pieces

- Packed with a basic assortment of tools for emergencies on motorbikes
- In plastic case
- Dimensions: 160 x 95 x 38 mm

mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 2190281 | **D 20 MOT** | U-3 **2093** U-3 T | **D 20** 8 9 10 11 12 13 14<br>**685** 3 4 5 6 8 10<br>**687 TX** T10 T15 T20 T25 T27 T30 T40<br>**690** 1 2 3<br>**680** 4 6,5 | **2090 KR**-4<br>**2090**-6<br>**2095**<br>**620** | 572 | 1 |

## D 20 MOT-A

### BASIC TOOL SET 1/4" FOR MOTORBIKES 30 pieces

- Packed with a basic assortment of tools for emergencies on motorbikes
- In plastic case
- Dimensions: 160 x 95 x 38 mm

"AF

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 2193159 | **D 20 MOT-A** | U-3 **2093** U-3 T | **D 20** 1/4 5/16 3/8 13/32 7/16 1/2 9/16"<br>**685** 1/8 5/32 3/16 1/4 5/16 3/8"<br>**687 TX** T10 T15 T20 T25 T27 T30 T40<br>**690** 1 2 3<br>**680** 4 6,5 | **2090 KR**-4<br>**2090**-6<br>**2095**<br>**620** | 572 | 1 |

## D 20 KAU-20

### SOCKET SET 1/4" 37 pieces

- With forged, tempered UD profile sockets, hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- With robust lever-change reversible ratchet with push-button release
- In plastic case
- Dimensions: 200 x 120 x 38 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

"AF

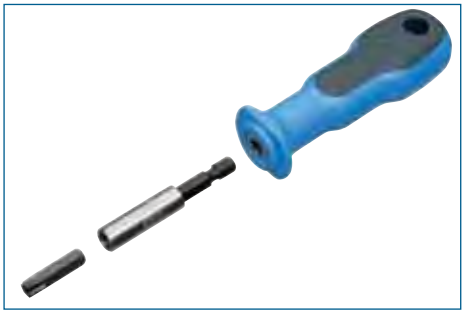
| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 2010348 | **D 20 KAU-20** | U-20 **2093 U**-20 | **D 20** 3/16 7/32 1/4 9/32 5/16 11/32 3/8 13/32 7/16 1/2"<br>**680** 4 5,5 6,5 **685** 1/8 5/32 3/16 1/4" **685 X** 5 6 8<br>**687 TX** T10 T15 T20 T25 T27 T30 T40<br>**690** 1 2 **690 PZD** 1 2 3 | **2090**-4<br>**620**<br>**676**<br>**699** | 656 | 1 |

Quantities in packs may vary.

## D 20 TMU-10

### SOCKET SET 1/4" 40 pieces

- With forged, tempered UD profile sockets, hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- With robust lever change reversible ratchet
- In plastic case
- Dimensions: 200 x 120 x 38 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



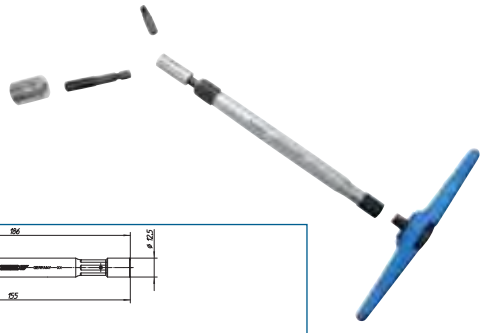
mm

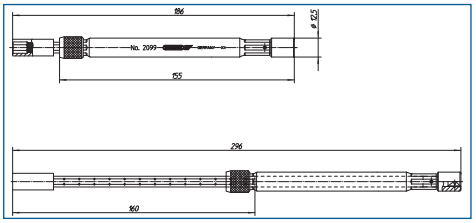
| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 1815660 | **D 20 TMU-10** | U-10 **2093 U**-10 | **D 20** 4 5 6 7 8 9 10 11 12 13<br>**680** 4 6,5<br>**685** 3 4 5 6 8<br>**685 X** 5 6 8<br>**687 TX** T10 T15 T20 T25 T27 T30 T40<br>**690** 1 2<br>**690 PZD** 1 2 3 | **620**<br>**639**<br>**673** 6,3<br>**676**<br>**699**<br>**2095**<br>**2090**-4 | 767 | 1 |

## 20 XLU-3 T

### SOCKET SET 1/4" 37 pieces

- With forged, tempered hexagon sockets, hand-operated, made from GEDORE vanadium steel 31CrV3
- Screwdriver bits made from GEDORE vanadium special steel
- With T-handle ratchet and telescopic extension no. 2099, adjustable from 186-296 mm
- In plastic case
- Dimensions: 200 x 120 x 38 mm
- With "Check-Tool-System": 2-colour foam insert to check that the set is complete
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA





mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 1888447 | **20 XLU-3 T** | **2093 U**-3 T | **20** 4 5 6 7 8 9 10 11 12 13<br>**680** 4 6,5<br>**685** 3 4 5 6<br>**685 X** 5 6 8<br>**687 TX** T8 T9 T10 T15 T20 T25 T27 T30 T40<br>**690** 1 2<br>**690 PZD** 1 2 3 | **673** 6,3<br>**2099**<br>**2095** | 800 | 1 |



Quantities in packs may vary.

## D 20 FMU-20

### SET FOR PRECISION MECHANICS 1/4" + 4 MM 52 pieces

- Practical tool set for precision mechanical work
- Includes practical pickup tool for bits, no. 635, for easy replacement of the bits in the socket
- Two ratchets for different applications:
- Fine-toothed reversible lever ratchet no. 2093 U-20 for high-torque
- Bit ratchet no. 471, combined with socket holder no. 673, allows the use of sockets in extremely confined spaces
- With GEDORE Check-Tool-System: 2-colour foam insert to check that the set is complete

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 2000237 | **D 20 FMU-20** | **471**<br>U-20 **2093 U**-20 | **480** 0,8 1,2 1,5 1,8 **485** 0,7 0,9 1,3 1,5<br>**490 PH** 000 00 0 **490 PZD** 000 00 0<br>**487 TX** T3 T4 T5 T6 T7 T8 **D 20** 4 4,5 5 5,5 6 7 8<br>**685** 2 2,5 3 4 5 **687 TX** T9 T10 T15 T20 T25<br>**690** 1 2 **690 PZD** 1 2<br>**6** 4x4,5 5x5,5 7x8 | **1090 KR**-5 -10 | 810 | 1 |

## D 20 WMU-3

### SOCKET SET 1/4" 29 pieces

- With forged, tempered UD profile sockets, hand-operated
- Accessories in GEDORE vanadium steel 31CrV3
- With fine toothed, dial change ratchet
- In plastic case
- Dimensions: 275 x 150 x 42 mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 1815679 | **D 20 WMU-3** | U-3 **2093 U**-3 | **D 20** 4 4,5 5 5,5 6 7 8 9 10 11 12 13<br>**8** 4 5 5,5 6 7 8 9 10 11 13 | **639** **673** 6,3 **676**<br>**2095**<br>**2090**-2 -4 | 995 | 1 |

## 20 LMU-10

### SOCKET SET 1/4" 49 pieces

- With forged, tempered long hexagon and short UD profile sockets, hand-operated
- Accessories in GEDORE vanadium steel 31CrV3
- With robust lever change reversible ratchet
- In plastic case
- Dimensions: 275 x 150 x 42 mm
- With "Check-Tool-System": 2-colour foam insert to check that the set is complete
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 1815687 | **20 LMU-10** | U-10 **2093 U**-10 | **D 20** 4 5 6 7 8 9 10 11 12 13 **20 L** 4 4,5 5 6 7 8 9 10 12 13<br>**680** 4 6,5 **685** 3 4 5 6 8 **685 X** 5 6 8<br>**687 TX** T10 T15 T20 T25 T27 T30 T40 **690** 1 2 **690 PZD** 1 2 3 | **620** **676**<br>**699** **2090**-2 -6<br>**2095** | 1262 | 1 |

Quantities in packs may vary.

## 20 EM

### SOCKET SET 1/4" 16 pieces

- With forged, tempered hexagon sockets, hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- Set U-10 with reversible with lever change ratchet
- Set U-3 with fine toothed, dial change ratchet
- Set Z-94 with ratchet with square coupler
- In plastic case
- Dimensions: 200 x 120 x 38 mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 6172100 | **20 EMZ** | Z-94 **2093 Z**-94 | **20** 4 4,5 5 5,5 6 7 8 9 10 11 13 | **2087** **2090**-4 **2095** **2098** | 761 | 1 |
| 6172290 | **20 EMU-3** | U-3 **2093 U**-3 | **20** 4 4,5 5 5,5 6 7 8 9 10 11 13 | **2087** **2090**-4 **2095** **2098** | 776 | 1 |
| 6162220 | **20 EMU-10** | U-10 **2093 U**-10 | **20** 4 4,5 5 5,5 6 7 8 9 10 11 13 | **2087** **2090**-4 **2095** **2098** | 790 | 1 |

## 20 EAU-3

### SOCKET SET 1/4" 14 pieces

- With forged, tempered hexagon sockets, hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- With extra fine toothed, dial change ratchet
- In plastic case
- Dimensions: 200 x 120 x 38 mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 6172450 | **20 EAU-3** | U-3 **2093 U**-3 | **20** 3/16 7/32 1/4 9/32 5/16 11/32 3/8 7/16 1/2" | **2087** **2090**-4 **2095** **2098** | 767 | 1 |

## 20 IMU-3

### SOCKET SET 1/4" 32 pieces

- With forged, tempered hexagon sockets, hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- With fine toothed, dial change ratchet
- In plastic case
- Dimensions: 275 x 150 x 42 mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 6174150 | **20 IMU-3** | U-3 **2093 U**-3 | **20** 4 5 6 7 8 9 10 11 12 13 14 **IS 20** 4 5,5 6,5 8 **IN 20** 3 4 5 6 8 **IKS 20** 1 2 3 **IKS 20 PZD** 1 2 3 | **2087** **2090**-2 -6 **2095** **2098** | 1298 | 1 |



Quantities in packs may vary.

## 20 ITU-3

### SOCKET SET 1/4" 36 pieces

- With forged, tempered hexagon sockets, hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- With fine toothed, dial change ratchet
- In plastic case
- Dimensions: 275 x 150 x 42 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

1/4" · mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 6196710 | **20 ITU-3** | U-3 **2093 U**-3 | **20** 4 5 6 7 8 9 10 11 12 13 14<br>**IN 20** 3 4 5 6 8<br>**TX 20** E4 E5 E6 E7 E8 E10<br>**ITX 20** T8 T9 T10 T15 T20 T25 T27 T30 | **2087**<br>**2090**-2 -6<br>**2095**<br>**2098** | 1376 | 1 |

## D 20 HL-09

### SOCKET SET HI-LOK® 1/4"

- Especially for Hi-Lok® bolts (scrivets) in the aerospace industry
- With forged, tempered bi-hexagon sockets, hand-operated
- Lever change ratchet with magnetic locking, from GEDORE vanadium steel 31CrV3
- Hexagon Allen key for in-hex screws to counter the rivet
- Hi-Lok® = reg. trademark of Hi-Shear Corporation, Ca. USA

1/4" · UNIDRIVE · "AF

| Code | No. | Ratchet | Sockets | |
|---|---|---|---|---|
| 2226332 | **D 20 HL-09** | **2093 U**-10 HL | **D 20** 7/32 1/4 5/16 11/32 3/8" **42** 3/32 5/64 1/16" | 280 |

## D 20-30 HL-16

### SOCKET SET HI-LOK® 1/4"-3/8"

- Especially for Hi-Lok® bolts (scrivets) in the aerospace industry
- With forged, tempered bi-hexagon sockets, hand-operated
- Lever change ratchet with magnetic locking, from GEDORE vanadium steel 31CrV3
- Hexagon Allen key for in-hex screws to counter the rivet. 5/32 AF and 1/8 AF as hexagon screwdriver with T-handle
- In plastic case
- Dimensions: 275 x 150 x 42 mm
- Hi-Lok® = reg. trademark of Hi-Shear Corporation, Ca. USA

1/4" · 3/8" · UNIDRIVE · "AF

| Code | No. | Ratchet | Sockets | |
|---|---|---|---|---|
| 2226340 | **D 20-30 HL-16** | **2093 U**-10 HL<br>**3093 U**-10 HL | **D 20** 3/16 7/32 1/4 9/32 5/16 11/32"<br>**D 30** 3/8 7/16 1/2" **42** 3/32 5/64 1/16" **42 T** 5/32 1/8" | 1040 |

Quantities in packs may vary.

## 10 (3/8") SQUARE DRIVE

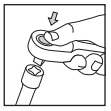
## RATCHETS 10 (3/8")

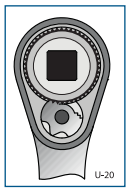
**www.gedore.com**

### 3093 U-20

**REVERSIBLE RATCHET 3/8"**

- Acc. to DIN 3122, ISO 3315
- Small, drop shaped head for confined areas
- Fine-toothed, with lever change and push-button release
- Non-slip 2-component handle with hanging hole
- For hand-operated sockets and accessories with square drive as per DIN 3120 - C 10, ISO 1174, ball locking device
- GEDORE vanadium steel 31CrV3, chrome-plated



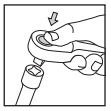



| Code | No. | ■" | ■ | ∠° | ⊢mm⊣ | ⊸ | ⚖ | ▤ |
|---|---|---|---|---|---|---|---|---|
| 1556800 | **3093 U-20** | 3/8 | 10 | 6 | 200 | 29.7 | 292 | 5 |

### 3093 U-10

**REVERSIBLE RATCHET 3/8"**

- Acc. to DIN 3122, ISO 3315
- With lever change, locks in middle position, oval head
- Push-button release
- For hand-operated sockets and accessories with square drive as per DIN 3120 - C 10, ISO 1174, ball locking device
- GEDORE vanadium steel 31CrV3, chrome-plated



| Code | No. | ■" | ■ | ∠° | ⊢mm⊣ | ⊸ | ⚖ | ▤ |
|---|---|---|---|---|---|---|---|---|
| 6236950 | **3093 U-10** | 3/8 | 10 | 11,25 | 200 | 30.2 | 254 | 5 |

### 3093 U-10 HL

**REVERSIBLE RATCHET 3/8" HI-LOK®**

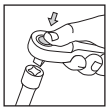
- Especially for Hi-Lok® bolts (scrivets) in the aerospace industry
- Lever change ratchet with magnetic locking, from GEDORE vanadium steel 31CrV3
- With lever change, oval head
- For hand-operated sockets
- Hi-Lok® = reg. trademark of Hi-Shear Corporation, Ca. USA

| Code | No. | ■" | ■ | ∠° | ⊢mm⊣ | ⊸ | ⚖ | ▤ |
|---|---|---|---|---|---|---|---|---|
| 2226286 | **3093 U-10 HL** | 3/8 | 10 | 11,25 | 200 | 28.0 | 250 | 1 |

### 3093 ALU-10

**ALUMINIUM REVERSIBLE RATCHET 3/8"**

- Design spec. similar to DIN 3122, ISO 3315
- Made from special-purpose drop-forged and hardened aluminium
- The mechanism as in all U-10 ratchets is made from high quality steel
- With lever change
- Push-button release
- Locks in the middle position: When the lever is flipped, it automatically engages for clockwise or counterclockwise operation
- For hand-operated sockets and accessories with square drive as per DIN 3120 - C 10, ISO 1174, ball locking device
- Extremely lightweight - just 160 g



| Code | No. | ■" | ■ | ∠° | ⊢mm⊣ | ⊸ | ⚖ | ▤ |
|---|---|---|---|---|---|---|---|---|
| 1900005 | **3093 ALU-10** | 3/8 | 10 | 11,25 | 200 | 30.2 | 160 | 1 |



Quantities in packs may vary.

## 3093 U-3

### REVERSIBLE RATCHET 3/8"

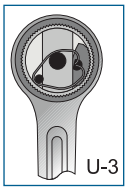
- Acc. to DIN 3122, ISO 3315
- With non-slip metal disc change, fine-toothed and robust
- For hand-operated sockets and accessories with square drive as per DIN 3120 - C 10, ISO 1174, ball locking device
- GEDORE vanadium steel 31CrV3, chrome-plated

| Code | No. | ■" | ■ | ∠° | ⟷mm⟷ | ⟷ | ⚖ | ▤ |
|---|---|---|---|---|---|---|---|---|
| 6237090 | **3093 U-3** | 3/8 | 10 | 5 | 200 | 33.5 | 244 | 5 |

## 3093 GU-3

### SWIVEL HEAD REVERSIBLE RATCHET 3/8"

- Swivels through 180°, with joint lock
- With non-slip metal disc change, fine-toothed and robust
- Max. torque 200 N·m
- For hand-operated sockets and accessories with square drive as per DIN 3120 - C 10, ISO 1174, ball locking device
- GEDORE vanadium steel 31CrV3, chrome-plated

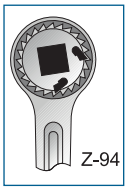



| Code | No. | ■" | ■ | ∠° | ⟷mm⟷ | ⟷ | ⚖ | ▤ |
|---|---|---|---|---|---|---|---|---|
| 6237170 | **3093 GU-3** | 3/8 | 10 | 5 | 282 | 33.5 | 525 | 5 |

## 3093 Z-94

### RATCHET HANDLE WITH COUPLER 3/8"

- Acc. to DIN 3122, ISO 3315
- With square coupler, medium-fine toothed, extremely rugged
- For hand-operated sockets and accessories with square drive as per DIN 3120 - C 10, ISO 1174, ball locking device
- GEDORE vanadium steel 31CrV3, chrome-plated




| Code | No. | ■" | ■ | ∠° | ⟷mm⟷ | ⟷ | ⚖ | ▤ |
|---|---|---|---|---|---|---|---|---|
| 6237680 | **3093 Z-94** | 3/8 | 10 | 10 | 200 | 18 | 223 | 5 |

## 3093 U-10 K

### PLASTIC RATCHET 3/8"

- For fast and easy tightening of bolted connections up to max. 70 N·m
- Very handy and compact, housing and handle form one unit
- Return angle 11.25°
- Made from sturdy compound material with a steel mechanism
- Dimensions: 44 x 145 x 39 mm
- Available in five colours
- European-Patent-No. 1136187

| Code | No. | Colour | ■" | ■ | ⟷mm⟷ | ∠° | ⚖ | ▤ |
|---|---|---|---|---|---|---|---|---|
| 6242090 | **3093 U-10 K SCHWARZ** | signal-black | 3/8 | 10 | 145 | 11,25 | 197 | 5 |
| 6244970 | **3093 U-10 K GRÜN** | moss-green | 3/8 | 10 | 145 | 11,25 | 197 | 5 |
| 6248100 | **3093 U-10 K GRAU** | anthracite-grey | 3/8 | 10 | 145 | 11,25 | 197 | 5 |
| 6248290 | **3093 U-10 K BLAU** | sky-blue | 3/8 | 10 | 145 | 11,25 | 197 | 5 |
| 1505394 | **3093 U-10 K SIGNALGRAU** | signal-grey | 3/8 | 10 | 145 | 11,25 | 197 | 1 |

## 3093 U-3 T

### RATCHET WITH T-HANDLE 3/8"

- Two-wing T-handle
- Ergonomic design for comfortable working
- For hand-operated sockets and accessories with square drive as per DIN 3120 - C 10, ISO 1174, ball locking device
- The danger of the tool canting, when carrying out work with extensions, is reduced by the central positioning of the square drive

| Code | No. | ■" | ■ | ∠° | ⟷mm⟷ | ⚖ | ▤ |
|---|---|---|---|---|---|---|---|
| 1973320 | **3093 U-3 T** | 3/8 | 10 | 5 | 140 | 68 | 1 |

Quantities in packs may vary.

| 3/8" | UNIT DRIVE hexagon mm | UNIT DRIVE bi-hexagon mm | UNIT DRIVE bi-hexagon "AF | UNIT DRIVE hexagon "AF | UNIT DRIVE bi-hexagon Vsmax. | Hexagon - external mm | Hexagon - external "AF | Hexagon - external Vsmax. | Internal hexagon mm | Internal TORX® | Internal TORX® with pin | External TORX® | Internal serrations XZN | Slot | Cruciform PH | Cruciform PZ | Internal TORX PLUS® | Internal TORX® with ball end | Internal hexagon with ball end | Internal hexagon "AF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ● | ● | ● | ● | | | | | ● | ● | ● | ● | ● | ● | ● | ● | | | ● | |

## 30

### SOCKET 3/8" hexagon UD profile

- Acc. to DIN 3124, ISO 2725-1
- Square drive as per DIN 3120 - C 10, ISO 1174, with ball retention groove
- Hand-operated, knurled grip
- GEDORE vanadium steel 31CrV3, polished, chrome-plated
- * not standardised

mm

| Code | No. | * | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|---|
| 6230160 | **30 6** | * | 6 | 28 | 9.7 | 17.5 | 5.0 | 24 | 10 |
| 6230240 | **30 7** | | 7 | 28 | 11.0 | 17.5 | 5.0 | 24 | 10 |
| 6230320 | **30 8** | | 8 | 28 | 12.1 | 17.5 | 9.0 | 28 | 10 |
| 6230400 | **30 9** | | 9 | 28 | 13.5 | 17.5 | 9.0 | 27 | 10 |
| 6230590 | **30 10** | | 10 | 28 | 14.7 | 17.5 | 9.0 | 28 | 10 |
| 6233850 | **30 11** | | 11 | 28 | 16.0 | 17.5 | 9.0 | 30 | 10 |
| 6233930 | **30 12** | | 12 | 28 | 17.2 | 18.3 | 9.0 | 33 | 10 |
| 6234070 | **30 13** | | 13 | 28 | 18.5 | 17.5 | 9.0 | 32 | 10 |
| 6234150 | **30 14** | | 14 | 29 | 19.7 | 18.4 | 11.0 | 38 | 10 |
| 6234230 | **30 15** | | 15 | 30 | 21.0 | 19.7 | 12.5 | 44 | 10 |
| 6234310 | **30 16** | | 16 | 30 | 22.2 | 21.0 | 12.5 | 49 | 10 |
| 6234580 | **30 17** | | 17 | 30 | 23.5 | 22.3 | 12.5 | 57 | 10 |
| 6234660 | **30 18** | | 18 | 30 | 24.7 | 23.0 | 12.5 | 62 | 10 |
| 6234740 | **30 19** | | 19 | 30 | 26.0 | 23.7 | 12.5 | 68 | 10 |
| 6234820 | **30 20** | | 20 | 31 | 27.2 | 24.5 | 12.5 | 78 | 5 |
| 6234900 | **30 21** | | 21 | 31 | 28.5 | 25.8 | 13.5 | 86 | 5 |
| 6235040 | **30 22** | | 22 | 32 | 29.7 | 26.3 | 14.5 | 92 | 5 |
| 2194783 | **30 24** | * | 24 | 33 | 32.0 | 28.0 | 15.5 | 120 | 5 |

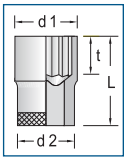
"AF

| Code | No. | "AF | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 6232100 | **30 1/4AF** | 1/4 | 28 | 10.1 | 17.5 | 5.0 | 23 | 10 |
| 6232290 | **30 9/32AF** | 9/32 | 28 | 11.1 | 17.5 | 5.0 | 24 | 10 |
| 6232370 | **30 5/16AF** | 5/16 | 28 | 12.1 | 17.5 | 9.0 | 25 | 10 |
| 6232450 | **30 11/32AF** | 11/32 | 28 | 13.1 | 17.5 | 9.0 | 25 | 10 |
| 6232530 | **30 3/8AF** | 3/8 | 28 | 14.1 | 17.5 | 9.0 | 26 | 10 |
| 2101025 | **30 7/16AF** | 7/16 | 28 | 16.1 | 17.5 | 9.0 | 28 | 1 |
| 2101033 | **30 1/2AF** | 1/2 | 28 | 18.1 | 19.2 | 9.0 | 35 | 1 |
| 2101041 | **30 9/16AF** | 9/16 | 29 | 20.1 | 18.7 | 11.0 | 39 | 1 |
| 2101068 | **30 19/32AF** | 19/32 | 30 | 21.0 | 19.7 | 12.5 | 44 | 1 |
| 2101076 | **30 5/8AF** | 5/8 | 30 | 22.1 | 20.7 | 12.5 | 48 | 1 |
| 2101084 | **30 11/16AF** | 11/16 | 30 | 24.0 | 22.7 | 12.5 | 60 | 1 |
| 2101092 | **30 3/4AF** | 3/4 | 30 | 26.0 | 23.7 | 12.5 | 65 | 1 |
| 2101106 | **30 7/8AF** | 7/8 | 32 | 30.0 | 26.5 | 14.5 | 120 | 1 |

## D 30

### SOCKET 3/8" bi-hexagon UD profile

- Acc. to DIN 3124, ISO 2725-1
- Square drive as per DIN 3120 - C 10, ISO 1174, with ball retention groove
- Hand-operated, knurled grip
- GEDORE vanadium steel 31CrV3, polished, chrome-plated
- * not standardised



mm

| Code | No. | * | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|---|
| 1845705 | **D 30 6** | * | 6 | 28 | 9.7 | 17.5 | 5.0 | 111 | 10 |
| 1845713 | **D 30 7** | | 7 | 28 | 11.0 | 17.5 | 5.0 | 24 | 10 |
| 1845721 | **D 30 8** | | 8 | 28 | 12.1 | 17.5 | 9.0 | 26 | 10 |
| 1845748 | **D 30 9** | | 9 | 28 | 13.5 | 17.5 | 9.0 | 27 | 10 |
| 6229230 | **D 30 10** | | 10 | 28 | 14.7 | 17.5 | 9.0 | 28 | 10 |
| 6230670 | **D 30 11** | | 11 | 28 | 16.0 | 17.5 | 9.0 | 30 | 5 |
| 6230750 | **D 30 12** | | 12 | 28 | 17.2 | 18.3 | 9.0 | 32 | 5 |
| 6230830 | **D 30 13** | | 13 | 28 | 18.5 | 17.5 | 9.0 | 31 | 10 |
| 6230910 | **D 30 14** | | 14 | 29 | 19.7 | 18.4 | 11.0 | 37 | 5 |
| 6231050 | **D 30 15** | | 15 | 30 | 21.0 | 19.7 | 12.5 | 40 | 5 |
| 6231130 | **D 30 16** | | 16 | 30 | 22.2 | 21.0 | 12.5 | 49 | 5 |
| 6231210 | **D 30 17** | | 17 | 30 | 23.5 | 22.3 | 12.5 | 54 | 10 |
| 6231480 | **D 30 18** | | 18 | 30 | 24.7 | 23.0 | 12.5 | 62 | 5 |
| 6231560 | **D 30 19** | | 19 | 30 | 26.0 | 23.7 | 12.5 | 64 | 10 |
| 6231640 | **D 30 20** | | 20 | 31 | 27.2 | 24.5 | 12.5 | 74 | 5 |
| 6231720 | **D 30 21** | | 21 | 31 | 28.5 | 25.8 | 13.5 | 83 | 5 |
| 6231800 | **D 30 22** | | 22 | 32 | 29.7 | 26.3 | 14.5 | 87 | 5 |
| 2194864 | **D 30 24** | * | 24 | 33 | 32.0 | 28.0 | 15.5 | 100 | 5 |

"AF

| Code | No. | "AF | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 2016613 | **D 30 1/4AF** | 1/4 | 28 | 10.1 | 17.5 | 5.0 | 50 | 1 |
| 2101009 | **D 30 9/32AF** | 9/32 | 28 | 11.1 | 17.5 | 5.0 | 20 | 1 |
| 1997122 | **D 30 5/16AF** | 5/16 | 28 | 12.1 | 17.5 | 5.0 | 20 | 1 |
| 2101017 | **D 30 11/32AF** | 11/32 | 28 | 13.1 | 17.5 | 9.0 | 26 | 1 |
| 1997130 | **D 30 3/8AF** | 3/8 | 28 | 14.1 | 17.5 | 9.0 | 10 | 1 |
| 1997149 | **D 30 13/32AF** | 13/32 | 28 | 15.0 | 17.5 | 9.0 | 30 | 1 |
| 6232610 | **D 30 7/16AF** | 7/16 | 28 | 16.1 | 17.5 | 9.0 | 27 | 10 |
| 6232880 | **D 30 1/2AF** | 1/2 | 28 | 18.1 | 19.2 | 9.0 | 34 | 10 |
| 6232960 | **D 30 9/16AF** | 9/16 | 29 | 20.1 | 18.7 | 11.0 | 36 | 10 |
| 6233180 | **D 30 19/32AF** | 19/32 | 30 | 21.0 | 19.7 | 12.5 | 39 | 10 |
| 6233260 | **D 30 5/8AF** | 5/8 | 30 | 22.1 | 20.7 | 12.5 | 44 | 10 |
| 6233340 | **D 30 11/16AF** | 11/16 | 30 | 24.0 | 22.7 | 12.5 | 53 | 10 |
| 6233420 | **D 30 3/4AF** | 3/4 | 30 | 26.0 | 23.7 | 12.5 | 61 | 10 |
| 1997157 | **D 30 25/32AF** | 25/32 | 31 | 27.0 | 24.3 | 12.5 | 75 | 1 |
| 1997165 | **D 30 13/16AF** | 13/16 | 31 | 28.0 | 25.3 | 12.5 | 80 | 1 |
| 6232020 | **D 30 7/8AF** | 7/8 | 32 | 30.0 | 26.5 | 14.5 | 82 | 10 |
| 1997173 | **D 30 15/16AF** | 15/16 | 33 | 31.9 | 28.0 | 15.5 | 110 | 1 |
| 1983296 | **D 30 1AF** | 1 | 33 | 33.9 | 30.0 | 15.5 | 120 | 1 |

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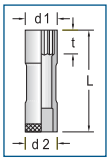
Quantities in packs may vary.

## D 30 L

### SOCKET 3/8" bi-hexagon UD profile, long pattern

- Acc. to DIN 3124, ISO 2725-1
- Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- GEDORE vanadium steel 31CrV3, polished, chrome-plated



mm

| Code | No. | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 6258330 | **D 30 L 10** | 10 | 63.5 | 14.7 | 17.5 | 11 | 53 | 10 |
| 6258410 | **D 30 L 11** | 11 | 63.5 | 16.0 | 17.5 | 12 | 54 | 5 |
| 6258680 | **D 30 L 12** | 12 | 63.5 | 17.2 | 17.5 | 14 | 59 | 5 |
| 6258760 | **D 30 L 13** | 13 | 63.5 | 18.5 | 19.0 | 14 | 70 | 10 |
| 6258840 | **D 30 L 14** | 14 | 63.5 | 19.7 | 19.5 | 17 | 76 | 5 |
| 6258920 | **D 30 L 15** | 15 | 63.5 | 21.0 | 20.5 | 17 | 95 | 5 |
| 6259060 | **D 30 L 16** | 16 | 63.5 | 22.2 | 22.0 | 17 | 85 | 5 |
| 6259140 | **D 30 L 17** | 17 | 63.5 | 23.5 | 20.5 | 17 | 96 | 5 |
| 6259220 | **D 30 L 18** | 18 | 63.5 | 24.7 | 21.5 | 20 | 113 | 5 |
| 6259300 | **D 30 L 19** | 19 | 63.5 | 26.0 | 22.0 | 20 | 124 | 5 |
| 6259490 | **D 30 L 20** | 20 | 63.5 | 27.2 | 23.5 | 20 | 127 | 10 |
| 6259570 | **D 30 L 21** | 21 | 63.5 | 28.5 | 23.5 | 20 | 134 | 10 |
| 6259650 | **D 30 L 22** | 22 | 63.5 | 29.7 | 23.5 | 23 | 136 | 10 |

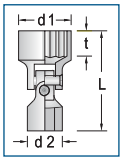
"AF

| Code | No. | "AF | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 6259730 | **D 30 L 3/8AF** | 3/8 | 63.5 | 14.1 | 17.5 | 11 | 51 | 10 |
| 6259810 | **D 30 L 7/16AF** | 7/16 | 63.5 | 16.1 | 17.5 | 12 | 53 | 10 |
| 6260070 | **D 30 L 1/2AF** | 1/2 | 63.5 | 18.1 | 19.0 | 14 | 65 | 10 |
| 6260150 | **D 30 L 9/16AF** | 9/16 | 63.5 | 20.1 | 19.5 | 17 | 73 | 10 |
| 6260230 | **D 30 L 5/8AF** | 5/8 | 63.5 | 22.1 | 22.0 | 17 | 92 | 10 |
| 6260310 | **D 30 L 11/16AF** | 11/16 | 63.5 | 24.0 | 20.5 | 17 | 90 | 10 |
| 6260580 | **D 30 L 3/4AF** | 3/4 | 63.5 | 26.0 | 22.0 | 20 | 109 | 10 |
| 6260660 | **D 30 L 13/16AF** | 13/16 | 63.5 | 28.3 | 23.5 | 20 | 132 | 10 |
| 6260740 | **D 30 L 7/8AF** | 7/8 | 63.5 | 30.0 | 23.5 | 23 | 134 | 10 |

## DG 30

### SWIVEL SOCKET 3/8" bi-hexagon UD profile

- Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- Hand-operated
- Chrome-vanadium steel 31CrV3, chrome-plated



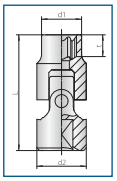
mm

| Code | No. | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 6240630 | **DG 30 10** | 10 | 41.5 | 14.7 | 19.0 | 8.0 | 42 | 10 |
| 6240710 | **DG 30 11** | 11 | 41.5 | 16.0 | 19.0 | 8.0 | 43 | 10 |
| 6240980 | **DG 30 12** | 12 | 42.5 | 17.2 | 19.0 | 9.0 | 52 | 10 |
| 6241520 | **DG 30 13** | 13 | 42.5 | 18.5 | 19.0 | 9.0 | 50 | 10 |
| 6241600 | **DG 30 14** | 14 | 43.5 | 19.7 | 19.0 | 10.0 | 54 | 10 |
| 6241790 | **DG 30 15** | 15 | 45.5 | 21.0 | 19.0 | 11.0 | 48 | 10 |
| 6241870 | **DG 30 16** | 16 | 45.5 | 22.2 | 19.0 | 11.0 | 55 | 10 |
| 6241950 | **DG 30 17** | 17 | 46.0 | 23.5 | 19.0 | 12.0 | 61 | 10 |
| 6242410 | **DG 30 18** | 18 | 46.0 | 24.7 | 19.0 | 12.5 | 63 | 10 |
| 6242680 | **DG 30 19** | 19 | 46.5 | 26.0 | 19.0 | 12.5 | 64 | 10 |

## TXG 30

### SWIVEL HEAD SOCKET 3/8" for protruding TORX® head screws

- Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- Hand-operated
- Chrome-vanadium steel 31CrV3, chrome-plated
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

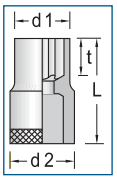


| Code | No. | | M | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2195321 | **TXG 30 E8** | E8 | M6 - M7 | 7.52 | 44.5 | 10.8 | 19 | 6.0 | 45 | 1 |
| 2195348 | **TXG 30 E10** | E10 | M8 | 9.42 | 44.5 | 13.2 | 19 | 8.5 | 50 | 1 |
| 2195356 | **TXG 30 E12** | E12 | M10 | 11.17 | 44.5 | 15.2 | 19 | 8.5 | 60 | 1 |
| 2195364 | **TXG 30 E14** | E14 | M12 | 12.90 | 44.5 | 16.8 | 19 | 8.5 | 60 | 1 |

## TX 30

### SOCKET 3/8" for protruding TORX® head screws

- Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- GEDORE vanadium steel 31CrV3, polished, chrome-plated
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



| Code | No. | | M | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6250270 | **TX 30 E5** | E5 | M4 | 4.73 | 28 | 7.2 | 17.5 | 5.0 | 25 | 5 |
| 6250350 | **TX 30 E6** | E6 | M5 | 5.74 | 28 | 8.5 | 17.5 | 5.0 | 25 | 5 |
| 6250430 | **TX 30 E7** | E7 | M6 | 6.16 | 28 | 9.5 | 17.5 | 5.5 | 25 | 5 |
| 6250510 | **TX 30 E8** | E8 | M6 - M7 | 7.52 | 28 | 10.8 | 17.5 | 6.0 | 27 | 5 |
| 6250780 | **TX 30 E10** | E10 | M8 | 9.42 | 28 | 13.2 | 17.5 | 9.0 | 29 | 5 |
| 6250860 | **TX 30 E11** | E11 | - | 10.08 | 28 | 13.8 | 17.5 | 9.0 | 30 | 5 |
| 6250940 | **TX 30 E12** | E12 | M10 | 11.17 | 28 | 15.2 | 17.5 | 9.0 | 32 | 5 |
| 6251080 | **TX 30 E14** | E14 | M12 | 12.90 | 28 | 16.8 | 18.3 | 9.0 | 35 | 5 |

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NC 30 • NC 3093 U-10

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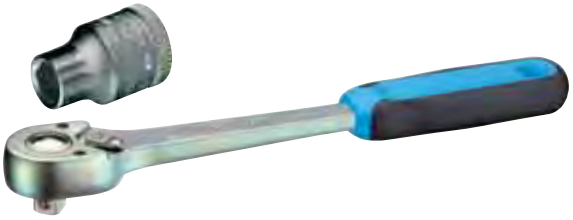
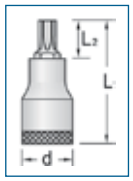


Quantities in packs may vary.

## ITX 30

### SCREWDRIVER BIT SOCKET 3/8" for recessed TORX® head screws

- Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

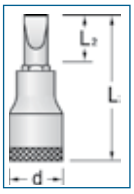


| Code | No. | | M | mm | L1 | L2 | d | | |
|---|---|---|---|---|---|---|---|---|---|
| 6246320 | **ITX 30 T20** | T20 | M4 - M5 | 3.86 | 49 | 17 | 17.5 | 50 | 5 |
| 6246830 | **ITX 30 T25** | T25 | M4,5 - M5 | 4.43 | 49 | 17 | 17.5 | 51 | 5 |
| 6247210 | **ITX 30 T27** | T27 | M4,5 - M6 | 4.99 | 49 | 17 | 17.5 | 51 | 5 |
| 6247560 | **ITX 30 T30** | T30 | M6 - M7 | 5.52 | 49 | 17 | 17.5 | 51 | 5 |
| 6247720 | **ITX 30 T40** | T40 | M7 - M8 | 6.65 | 49 | 17 | 17.5 | 52 | 5 |
| 6247800 | **ITX 30 T45** | T45 | M8 - M10 | 7.82 | 49 | 17 | 17.5 | 53 | 5 |
| 6247990 | **ITX 30 T50** | T50 | M10 | 8.83 | 49 | 17 | 19.0 | 70 | 5 |

## IS 30

### SCREWDRIVER BIT SOCKET 3/8" for slotted head screws

- Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated
- Blade as per DIN ISO 2380-1, Form B

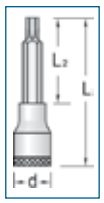


| Code | No. | mm | mm | L1 | L2 | d | | |
|---|---|---|---|---|---|---|---|---|
| 6666100 | **IS 30 5,5x1** | 1.0 | 5.5 | 55 | 27 | 17.5 | 40 | 5 |
| 1640895 | **IS 30 6,5x1,2** | 1.2 | 6.5 | 55 | 27 | 17.5 | 39 | 5 |
| 6666290 | **IS 30 8x1,2** | 1.2 | 8.0 | 55 | 23 | 17.5 | 54 | 5 |
| 6666370 | **IS 30 10x1,6** | 1.6 | 10.0 | 55 | 23 | 19.0 | 72 | 5 |
| 1640909 | **IS 30 12x2** | 2.0 | 12.0 | 55 | 23 | 20.5 | 83 | 5 |

## ITX 30 L

### SCREWDRIVER BIT SOCKET 3/8" for recessed TORX® head screws, long pattern

- Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

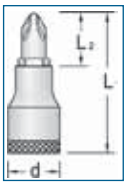


| Code | No. | | M | mm | L1 | L2 | d | | |
|---|---|---|---|---|---|---|---|---|---|
| 1394177 | **ITX 30 L T20** | T20 | M4 - M5 | 3.86 | 94 | 62 | 17.5 | 70 | 5 |
| 1394185 | **ITX 30 L T25** | T25 | M4,5 - M5 | 4.43 | 94 | 62 | 17.5 | 70 | 5 |
| 1394193 | **ITX 30 L T27** | T27 | M4,5 - M6 | 4.99 | 94 | 62 | 17.5 | 70 | 5 |
| 1394207 | **ITX 30 L T30** | T30 | M6 - M7 | 5.52 | 94 | 62 | 17.5 | 71 | 5 |
| 1394215 | **ITX 30 L T40** | T40 | M7 - M8 | 6.65 | 94 | 62 | 17.5 | 70 | 5 |
| 1394223 | **ITX 30 L T45** | T45 | M8 - M10 | 7.82 | 94 | 62 | 17.5 | 71 | 5 |
| 1394231 | **ITX 30 L T50** | T50 | M10 | 8.83 | 94 | 62 | 19.0 | 99 | 5 |

## IKS 30

### SCREWDRIVER BIT SOCKET 3/8" for cross-slotted head screws PH

- Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- Tip as per DIN ISO 8764-1 PH



| Code | No. | PH | L1 | L2 | d | | |
|---|---|---|---|---|---|---|---|
| 6666610 | **IKS 30 1** | 1 | 55 | 27 | 17.5 | 41 | 5 |
| 6666880 | **IKS 30 2** | 2 | 55 | 23 | 17.5 | 52 | 5 |
| 6666960 | **IKS 30 3** | 3 | 55 | 23 | 19.0 | 70 | 5 |

## ITX 30 B

### SCREWDRIVER BIT SOCKET 3/8" for recessed TORX® head screws with pilot

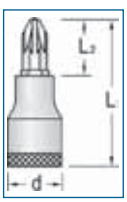
- Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | | M | mm | L1 | L2 | d | Bore | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1440969 | **ITX 30 B T20** | T20 | M4 - M5 | 3.86 | 49 | 17 | 17.5 | 1,55 x 1,86 | 46 | 5 |
| 1440977 | **ITX 30 B T25** | T25 | M4,5 - M5 | 4.43 | 49 | 17 | 17.5 | 1,93 x 2,04 | 48 | 5 |
| 1440985 | **ITX 30 B T27** | T27 | M4,5 - M6 | 4.99 | 49 | 17 | 17.5 | 2,18 x 2,29 | 48 | 5 |
| 1440993 | **ITX 30 B T30** | T30 | M6 - M7 | 5.52 | 49 | 17 | 17.5 | 2,56 x 2,92 | 48 | 5 |
| 1429701 | **ITX 30 B T40** | T40 | M7 - M8 | 6.65 | 49 | 17 | 19.0 | 2,92 x 3,28 | 64 | 5 |
| 1441000 | **ITX 30 B T45** | T45 | M8 - M10 | 7.82 | 49 | 17 | 19.0 | 3,45 x 3,68 | 66 | 5 |
| 1441019 | **ITX 30 B T50** | T50 | M10 | 8.83 | 49 | 17 | 20.5 | 3,83 x 3,78 | 78 | 5 |

## IKS 30 PZD

### SCREWDRIVER BIT SOCKET 3/8" for cross-slotted head screws PZ

- Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- Tip as per DIN ISO 8764-1 PZ



| Code | No. | PZ | L1 | L2 | d | | |
|---|---|---|---|---|---|---|---|
| 1640968 | **IKS 30 PZD 1** | 1 | 55 | 27 | 17.5 | 40 | 5 |
| 1640976 | **IKS 30 PZD 2** | 2 | 55 | 23 | 17.5 | 51 | 5 |
| 1640984 | **IKS 30 PZD 3** | 3 | 55 | 23 | 19.0 | 69 | 5 |

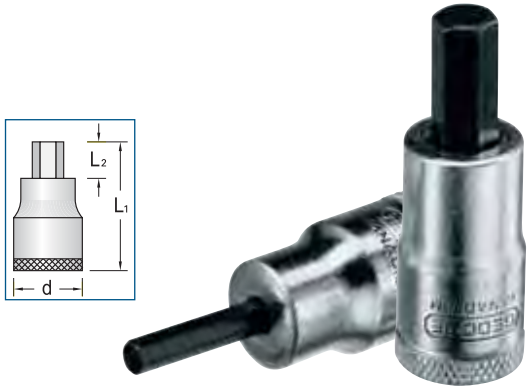


Quantities in packs may vary.

## IN 30

### SCREWDRIVER BIT SOCKET 3/8" for in-hex screws

- Acc. to DIN 7422
- Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated
- * not standardised




mm

| Code | No. | * | mm | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|
| 6241010 | **IN 30 4** | | 4 | 47 | 19 | 17.5 | 38 | 10 |
| 6241280 | **IN 30 5** | | 5 | 47 | 19 | 17.5 | 39 | 10 |
| 6241360 | **IN 30 6** | | 6 | 47 | 19 | 17.5 | 41 | 10 |
| 1643037 | **IN 30 7** | * | 7 | 47 | 19 | 17.5 | 41 | 10 |
| 6241440 | **IN 30 8** | | 8 | 49 | 17 | 17.5 | 53 | 10 |
| 6242920 | **IN 30 10** | | 10 | 49 | 17 | 19.0 | 73 | 10 |

"AF

| Code | No. | "AF | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|
| 2195208 | **IN 30 1/8AF** | 1/8 | 47 | 19 | 17.5 | 35 | 1 |
| 2195232 | **IN 30 5/32AF** | 5/32 | 47 | 19 | 17.5 | 40 | 1 |
| 2195267 | **IN 30 3/16AF** | 3/16 | 47 | 19 | 17.5 | 40 | 1 |
| 1193422 | **IN 30 1/4AF** | 1/4 | 47 | 19 | 17.5 | 49 | 1 |
| 1193431 | **IN 30 5/16AF** | 5/16 | 49 | 17 | 17.5 | 54 | 1 |
| 1193449 | **IN 30 3/8AF** | 3/8 | 49 | 17 | 19.0 | 50 | 1 |

## IN 30 L

### SCREWDRIVER BIT SOCKET 3/8" for in-hex screws, long pattern

- Acc. to DIN 7422
- Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated

mm

| Code | No. | mm | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|
| 1510118 | **IN 30 L 4-95** | 4 | 95 | 67 | 17.5 | 44 | 10 |
| 1394347 | **IN 30 L 5-95** | 5 | 95 | 67 | 17.5 | 48 | 10 |
| 1394355 | **IN 30 L 6-95** | 6 | 95 | 67 | 17.5 | 53 | 10 |
| 1394363 | **IN 30 L 7-95** | 7 | 95 | 67 | 17.5 | 58 | 10 |
| 1394371 | **IN 30 L 8-95** | 8 | 95 | 63 | 17.5 | 74 | 10 |
| 1394398 | **IN 30 L 10-95** | 10 | 95 | 63 | 19.0 | 105 | 10 |

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## IN 30 LK

### SCREWDRIVER BIT SOCKET 3/8" with ball end, for in-hex screws, long pattern

- Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- Total swivel angle approx. 15-20°

mm

| Code | No. | mm | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|
| 1505718 | **IN 30 LK 4** | 4 | 132 | 104 | 17.5 | 48 | 10 |
| 1505726 | **IN 30 LK 5** | 5 | 132 | 104 | 17.5 | 54 | 10 |
| 1505742 | **IN 30 LK 6** | 6 | 132 | 104 | 17.5 | 61 | 10 |
| 1505750 | **IN 30 LK 8** | 8 | 134 | 102 | 17.5 | 91 | 10 |
| 1505769 | **IN 30 LK 10** | 10 | 134 | 102 | 19.0 | 130 | 10 |

## INX 30

### SCREWDRIVER BIT SOCKET 3/8" for multi-point screws XZN

- Acc. to DIN 2324
- Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated
- Tip as per DIN 2325

| Code | No. | M | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|
| 6242170 | **INX 30 5** | M5 | 49 | 17 | 17.5 | 50 | 5 |
| 6242250 | **INX 30 6** | M6 | 49 | 17 | 17.5 | 51 | 5 |
| 6242330 | **INX 30 8** | M8 | 49 | 17 | 17.5 | 53 | 5 |
| 2194872 | **INX 30 10** | M10 | 49 | 17 | 19.0 | 78 | 5 |

## INX 30 L

### SCREWDRIVER BIT SOCKET 3/8" for multi-point screws XZN, long pattern

- Acc. to DIN 2324
- Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated
- Tip as per DIN 2325

| Code | No. | M | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|
| 1394312 | **INX 30 L 6** | M6 | 94 | 62 | 17.5 | 68 | 5 |
| 1394320 | **INX 30 L 8** | M8 | 94 | 62 | 17.5 | 71 | 5 |
| 1394339 | **INX 30 L 10** | M10 | 94 | 62 | 19.0 | 79 | 5 |

Quantities in packs may vary.

# ACCESSORIES 10 (3/8")

## 3019

### CONVERTOR 3/8" TO 1/2"

- Acc. to DIN 3123, ISO 3316
- For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174, with ball locking device
- GEDORE vanadium steel 31CrV3, polished, chrome-plated

| Code | No. | □" | □ | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6236010 | **3019** | 3/8 | 10 | 1/2 | 12.5 | 35 | 53 | 10 |

## 3020

### REDUCER 3/8" TO 1/4"

- Acc. to DIN 3123, ISO 3316
- For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174, with ball locking device
- GEDORE vanadium steel 31CrV3, polished, chrome-plated

| Code | No. | □" | □ | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6236280 | **3020** | 3/8 | 10 | 1/4 | 6.3 | 28.5 | 26 | 10 |

## 3081

### L-HANDLE 3/8"

- Acc. to DIN 3122, ISO 3315
- For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174, with ball locking device
- GEDORE vanadium steel 31CrV3, polished, chrome-plated

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6236360 | **3081** | 3/8 | 10 | 180 | 153 | 10 |

## 3084

### SPEED BRACE 3/8"

- Acc. to DIN 3122, ISO 3315
- For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174, with ball locking device
- GEDORE vanadium steel 31CrV3, polished, chrome-plated
- No. 3084 L for applications e.g. in the aviation sector

3084

3084 L

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6236440 | **3084** | 3/8 | 10 | 288 | 423 | 10 |
| 1965395 | **3084 L** | 3/8 | 10 | 463 | 568 | 1 |

## 3087

### SLIDING T BAR 3/8"

- Acc. to DIN 3122, ISO 3315
- For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174, with ball locking device
- GEDORE vanadium steel 31CrV3, polished, chrome-plated

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6236520 | **3087** | 3/8 | 10 | 163 | 164 | 5 |

## 3087 A

### SLIDING T BAR WITH RELEASE 3/8"

- Secured against unintentional removal
- GEDORE vanadium steel 31CrV3, polished, chrome-plated
- Turn handle for easy locking and releasing
- Accidental release when working is prevented because of the asymmetrical release point
- Particularly useful for work in sensitive areas where certainty against loss is a theme
- Examples: Aircraft engine, work in deep machine bodies
- DBGM (German utility patent)

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 1871633 | **3087 A** | 3/8 | 10 | 163 | 135 | 1 |

## 3090

### EXTENSION 3/8"

- Acc. to DIN 3123, ISO 3316
- For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174, with ball locking device
- GEDORE vanadium steel 31CrV3, polished, chrome-plated
- * not standardised

| Code | No. | * | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|---|
| 1476637 | **3090-2** | * | 3/8 | 10 | 50 | 63 | 5 |
| 6236600 | **3090-3** | | 3/8 | 10 | 76 | 93 | 5 |
| 6236790 | **3090-5** | | 3/8 | 10 | 125 | 117 | 5 |
| 1476645 | **3090-7** | * | 3/8 | 10 | 180 | 164 | 5 |
| 6236870 | **3090-10** | | 3/8 | 10 | 250 | 222 | 5 |
| 6238570 | **3090-12** | * | 3/8 | 10 | 305 | 287 | 5 |
| 1476653 | **3090-20** | * | 3/8 | 10 | 500 | 524 | 1 |



Quantities in packs may vary.

## 3090 A

### EXTENSION 3/8" with release

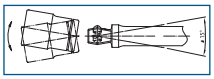
- Easy access to deep-fitting screws in confined areas
- No unintentional release of the socket from the extension due to safety ring
- For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174, with ball locking device

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 1932314 | **3090 A-5** | 3/8 | 10 | 125 | 120 | 1 |
| 1932322 | **3090 A-10** | 3/8 | 10 | 250 | 210 | 1 |

## 3090 KR

### UNIVERSAL EXTENSION 3/8"

- With ball end
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- The extension is able to pivot up to 15°
- GEDORE vanadium steel 31CrV3, polished, chrome-plated



| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 1874381 | **3090 KR-3** | 3/8 | 10 | 76 | 80 | 1 |
| 1845756 | **3090 KR-5** | 3/8 | 10 | 125 | 108 | 1 |
| 1845764 | **3090 KR-10** | 3/8 | 10 | 250 | 197 | 1 |

## 3094

### COUPLER 3/8"

- Acc. to DIN 3122, ISO 3316
- For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174, with ball locking device
- GEDORE vanadium steel 31CrV3, polished, chrome-plated

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6237760 | **3094** | 3/8 | 10 | 28.8 | 20 | 10 |

## 3095

### UNIVERSAL JOINT 3/8"

- Acc. to DIN 3123, ISO 3316
- For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174, with ball locking device
- GEDORE vanadium steel 31CrV3, polished, chrome-plated

| Code | No. | ■" | ■ | □" | □ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6238140 | **3095** | 3/8 | 10 | 3/8 | 10 | 50 | 53 | 10 |

## 3096

### SWIVEL HANDLE 3/8"

- Acc. to DIN 3122, ISO 3315
- For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174, with ball locking device
- GEDORE vanadium steel 31CrV3, polished, chrome-plated

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6238220 | **3096** | 3/8 | 10 | 254 | 201 | 5 |

## 3098

### SWIVEL HANDLE 3/8"

- For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174, with ball locking device
- GEDORE vanadium steel 31CrV3, polished, chrome-plated

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6182410 | **3098** | 3/8 | 10 | 450 | 364 | 1 |

## SL 3014

### TOOL HOLDING RAIL, MAGNETIC 3/8" empty

- External squares to take 14 standard commercial 10 mm (3/8") sockets
- Two female square adaptors to take ratchets, sliding T bars, extensions etc.
- A strong magnet securely holds the socket rail to ferrous metals
- Additional holes are provided for wall mounting the socket rail or attaching to non-ferrous materials
- The sockets are securely locked by the ball at the square-drive end by turning them 90°
- It is a simple matter to "unlock" and remove the sockets, by turning them 90° in the opposing direction
- Delivery without tools

| Code | No. | mm | mm | | |
|---|---|---|---|---|---|
| 1761099 | **SL 3014** | 480 | 33 | 479 | 1 |

## VH 30

### SPRING STEEL SOCKET RAIL 3/8"

- For 14 3/8" sockets
- Delivery without tools

| Code | No. | | |
|---|---|---|---|
| 5164810 | **VH 30** | 67 | 1 |

S 2032-05

183

Quantities in packs may vary.

# SETS 10 (3/8") METRIC

3/8"

www.gedore.com

## 30 JMU / D 30 JMU

### SOCKET SET 3/8" 16 pieces

- With forged, tempered hexagon (no. 30) or bi-hexagon (no. D 30) UD profile sockets, hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- With reversible with lever change ratchet
- In GEDORIT blue sheet steel case
- Dimensions: 290 x 132 x 55 mm

30 JMU-10

D 30 JMU-10

mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 2682885 | **30 JMU-10** | U-10 **3093** U-10 | **30** 6 7 8 9 10 11 12 13 14 15 16 17 18 19 | **3090**-5 | 2.2 | 1 |
| 2682893 | **D 30 JMU-10** | U-10 **3093** U-10 | **D 30** 6 7 8 9 10 11 12 13 14 15 16 17 18 19 | **3090**-5 | 2.3 | 1 |

## 30 GMU / D 30 GMU

### SOCKET SET 3/8" 17 pieces

- With forged, tempered hexagon (no. 30) or bi-hexagon (no. D 30) UD profile sockets, hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- Set U-3 with fine toothed, dial change ratchet
- Set U-10 with reversible with lever change ratchet
- In GEDORIT blue sheet steel case
- Dimensions: 320 x 210 x 55 mm

U-10

U-3

mm

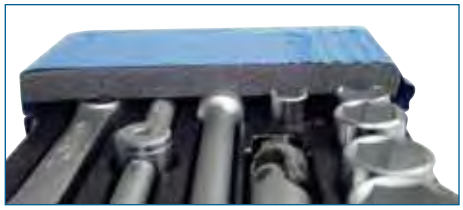
| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 6235980 | **30 GMU-3** | U-3 **3093** U-3 | **30** 6 7 8 9 10 11 13 14 15 16 17 19 | **3087**<br>**3090**-5 -10<br>**3095** | 2.6 | 1 |
| 6235710 | **30 GMU-10** | U-10 **3093** U-10 | **30** 6 7 8 9 10 11 13 14 15 16 17 19 | **3087**<br>**3090**-5 -10<br>**3095** | 2.7 | 1 |
| 6240200 | **D 30 GMU-3** | U-3 **3093** U-3 | **D 30** 6 7 8 9 10 11 13 14 15 16 17 19 | **3087**<br>**3090**-5 -10<br>**3095** | 2.7 | 1 |
| 6239380 | **D 30 GMU-10** | U-10 **3093** U-10 | **D 30** 6 7 8 9 10 11 13 14 15 16 17 19 | **3087**<br>**3090**-5 -10<br>**3095** | 2.7 | 1 |



Quantities in packs may vary.

# THE GEDORE SOCKET SET

- Innovative, functional design
- Sheet steel case - inside-folded, seamless edge provides added strength. The tool and foam inserts are secured to prevent them being lost
- ABS plastic tool insert, resistant to oils and greases
- Tool insert with the socket sizes permanently laser marked
- With the lid closed, the tools sit securely in their pockets
- Boxes designed so that they can be stacked easily
- Large, rounded fasteners can be opened and closed even when the user is wearing gloves
- Contoured carry handle ensures comfortable carrying even for long periods
- Environmentally-friendly powder-coated in GEDORIT blue



## 30 HMU / D 30 HMU

### SOCKET SET 3/8" 22 pieces

- With forged, tempered hexagon (no. 30) or bi-hexagon (no. D 30) UD profile sockets, hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- Set U-3 with fine toothed, dial change ratchet
- Set U-10 with reversible with lever change ratchet
- In GEDORIT blue sheet steel case
- Dimensions: 320 x 210 x 55 mm

3/8" UNIDRIVE UNIDRIVE

U-10

U-3

mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 6238300 | **30 HMU-3** | U-3 **3093** U-3 | **30** 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | **3087**<br>**3090**-5 -10<br>**3095** | 3.0 | 1 |
| 6235470 | **30 HMU-10** | U-10 **3093** U-10 | **30** 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | **3087**<br>**3090**-5 -10<br>**3095** | 3.0 | 1 |
| 6240470 | **D 30 HMU-3** | U-3 **3093** U-3 | **D 30** 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | **3087**<br>**3090**-5 -10<br>**3095** | 3.1 | 1 |
| 6239700 | **D 30 HMU-10** | U-10 **3093** U-10 | **D 30** 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 | **3087**<br>**3090**-5 -10<br>**3095** | 3.1 | 1 |

Quantities in packs may vary.

## 30 IMU

### SOCKET SET 3/8" 26 pieces

- With forged, tempered hexagon UD profile sockets, hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- Set U-3 with fine toothed, dial change ratchet
- Set U-10 with reversible with lever change ratchet
- In GEDORIT blue sheet steel case
- Dimensions: 320 x 210 x 55 mm

mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 6229900 | **30 IMU-3** | U-3 **3093** U-3 | **30** 6 7 8 9 10 11 12 13 14 15 16 17 19<br>**IS 30** 5,5 8<br>**IN 30** 4 5 6 8<br>**IKS 30** 2 3 | **3087**<br>**3090**-5 -10<br>**3095** | 3.1 | 1 |
| 6229740 | **30 IMU-10** | U-10 **3093** U-10 | **30** 6 7 8 9 10 11 12 13 14 15 16 17 19<br>**IS 30** 5,5 8<br>**IN 30** 4 5 6 8<br>**IKS 30** 2 3 | **3087**<br>**3090**-5 -10<br>**3095** | 3.1 | 1 |

## D 30 KMU-20

### SOCKET SET 3/8" 40 pieces

- With forged, tempered bi-hexagon UD profile sockets, hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- With robust lever-change reversible ratchet with push-button release
- In sheet steel case with insert
- Dimensions: 320 x 210 x 55 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 1973347 | **D 30 KMU-20** | U-20 **3093 U**-20<br>**3093 U**-3 T | **D 30** 8 9 10 11 12 13 14 15 16 17 18 19<br>**680** 4 5,5 6,5<br>**685** 3 4 5 6<br>**685 X** 5 6 8<br>**687 TX** T10 T15 T20 T25 T27 T30<br>**690** 1 2<br>**690 PZD** 1 2 | **3090 KR**-3<br>**3090**-5<br>**630**<br>**673** 10<br>**676**<br>**699** | 2.6 | 1 |



Quantities in packs may vary.

## D 30 TX20 U-20

### SOCKET SET 3/8" + 1/4" 50 pieces

- Tool set for general industrial and automotive applications
- 3/8" and 1/4" sockets for protruding and recessed TORX® screws
- With robust lever-change reversible ratchet with push-button release
- In sheet steel case with Check-Tool insert
- Dimensions: 320 x 210 x 55 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 2075695 | **D 30 TX20 U-20** | 3/8" U-20 **3093 U**-20<br>1/4" U-20 **2093 U**-20 | 3/8" **D 30** 10 11 12 13 14 15 16 17 18 19 21 22<br>3/8" **TX 30** E11 E12 E14<br>3/8" **ITX 30** T45 T50<br>1/4" **D 20** 4 5 5,5 6 7 8 9 10 12 13<br>1/4" **TX 20** E5 E6 E7 E8 E10<br>**687 TX** T10 T15 T20 T25 T27 T30 T40 | **3090 KR**-3<br>**3090**-5<br>**2090 KR**-2<br>**2090**-6<br>**620**<br>**673** 6,3 10<br>**676**<br>**699** | 3.2 | 1 |

920
541
2005
22

Quantities in packs may vary.

## IN 30 LKM

### SCREWDRIVER BIT SOCKET SET 3/8" 10 pieces

- For in-hex screws (INBUS®), short and long
- In plastic case
- Dimensions: 200 x 120 x 38 mm
- INBUS® = reg. trademark of Acument GmbH & Co. OHG, 56567 Neuwied, Germany

| Code | No. | Sockets | | |
|---|---|---|---|---|
| 1509918 | **IN 30 LKM** | **IN 30** 4 5 6 8 10<br>**IN 30 L** 4 5 6 8 10 | 761 | 1 |

## ITX 30 TX-015

### SCREWDRIVER BIT SOCKET SET 3/8" 15 pieces

- For protruding and recessed TORX® screws
- In plastic case
- Dimensions: 200 x 120 x 38 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Sockets | | |
|---|---|---|---|---|
| 1509942 | **ITX 30 TX-015** | **ITX 30** T20 T25 T27 T30 T40 T45 T50<br>**TX 30** E5 E6 E7 E8 E10 E11 E12 E14 | 801 | 1 |

## ITX 30 PM

### SCREWDRIVER BIT SOCKET SET 3/8" 7 pieces

- For recessed TORX® screws
- In plastic case
- Dimensions: 200 x 120 x 38 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Sockets | | |
|---|---|---|---|---|
| 1509926 | **ITX 30 PM** | **ITX 30** T20 T25 T27 T30 T40 T45 T50 | 627 | 1 |

## TX 30 E-08

### SOCKET SET 3/8" 8 pieces

- For protruding TORX® screws
- In plastic case
- Dimensions: 160 x 95 x 38 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Sockets | | |
|---|---|---|---|---|
| 1509934 | **TX 30 E-08** | **TX 30** E5 E6 E7 E8 E10 E11 E12 E14 | 485 | 1 |

## ITX 30 LKP

### SCREWDRIVER BIT SOCKET SET 3/8" 14 pieces

- For recessed TORX® screws, short and long
- In plastic case
- Dimensions: 200 x 120 x 38 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Sockets | | |
|---|---|---|---|---|
| 1509950 | **ITX 30 LKP** | **ITX 30** T20 T25 T27 T30 T40 T45 T50<br>**ITX 30 L** T20 T25 T27 T30 T40 T45 T50 | 1081 | 1 |

## 30 TX 20

### SCREWDRIVER BIT SOCKET SET 3/8" + 1/4" 28 pieces

- 3/8" and 1/4" sockets for protruding and recessed TORX® screws
- In plastic case
- Dimensions: 275 x 150 x 42 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Sockets | | |
|---|---|---|---|---|
| 1509969 | **30 TX 20** | **ITX 30** T25 T27 T30 T40 T45 T50<br>**ITX 30 L** T20 T25 T27 T30 T40 T45 T50<br>**TX 30** E8 E10 E11 E12 E14<br>**ITX 20** T8 T9 T10 T15 T20<br>**TX 20** E4 E5 E6 E7 **2030** | 1484 | 1 |



Quantities in packs may vary.

## D 30 JAU

### SOCKET SET 3/8" 12 pieces

- With forged, tempered UD profile, hand-operated sockets
- With accessories made from GEDORE vanadium steel 31CrV3
- With reversible with lever change ratchet
- In GEDORIT blue sheet steel case
- Dimensions: 290 x 132 x 55 mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 2682907 | **D 30 JAU-10** | U-10 **3093** U-10 | **D 30** 1/4 5/16 11/32 3/8 7/16 1/2 9/16 5/8 11/16 3/4" | **3090**-5 | 2.1 | 1 |

## D 30 GAU

### SOCKET SET 3/8" 17 pieces

- With forged, tempered UD profile, hand-operated sockets
- With accessories made from GEDORE vanadium steel 31CrV3
- With reversible with lever change ratchet
- In GEDORIT blue sheet steel case
- Dimensions: 320 x 210 x 55 mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 6239540 | **D 30 GAU-10** | U-10 **3093** U-10 | **D 30** 1/4 9/32 5/16 11/32 3/8 7/16 1/2 9/16 19/32 5/8 11/16 3/4" | **3087**<br>**3090**-5 -10<br>**3095** | 2.6 | 1 |

923

541

Quantities in packs may vary.

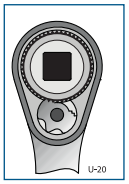
# 12.5 (1/2") SQUARE DRIVE

## RATCHETS 12.5 (1/2")

### 1993 U-20

**REVERSIBLE RATCHET 1/2"**

- Acc. to DIN 3122, ISO 3315
- Small, drop shaped head for confined areas
- Fine-toothed, with lever change and push-button release
- Non-slip 2-component handle with hanging hole
- For hand-operated sockets and accessories with square drive as per DIN 3120 - C 12.5, ISO 1174, ball locking device
- GEDORE vanadium steel 31CrV3, chrome-plated

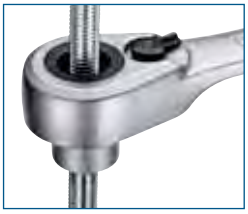



| Code | No. | ■" | ■ | ∠° | mm | | | |
|---|---|---|---|---|---|---|---|---|
| 1436686 | **1993 U-20** | 1/2 | 12.5 | 6 | 270 | 37.5 | 536 | 5 |

### 1993 U-20 SK

**REVERSIBLE RATCHET 1/2"**

- With 1/2" hexagon drive
- Torques specification required to standard DIN 3122 is exceeded
- Small, drop shaped head for confined areas
- Fine-toothed, with lever change
- Non-slip 2-component handle with hanging hole
- For hand-operated sockets with 1/2" hexagon no. 19 SK
- GEDORE vanadium steel 31CrV3, chrome-plated



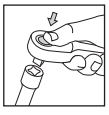
-45 %

| Code | No. | ⬡" | ⬡ | ∠° | mm | | |
|---|---|---|---|---|---|---|---|
| 2219492 | **1993 U-20 SK** | 1/2 | 12.5 | 6 | 270 | 21 | 1 |

### 1993 U-10 L

**REVERSIBLE RATCHET 1/2" long pattern**

- Acc. to DIN 3122, ISO 3315
- With lever change
- Push-button release
- Non-slip 2-component handle with hanging hole
- Locks in the middle position: When the lever is flipped, it automatically engages for clockwise or counterclockwise operation
- For hand-operated sockets and accessories with square drive as per DIN 3120 - C 12.5, ISO 1174, ball locking device
- GEDORE vanadium steel 31CrV3, chrome-plated



| Code | No. | ■ | ■" | ∠° | mm | | | |
|---|---|---|---|---|---|---|---|---|
| 6154550 | **1993 U-10 L** | 12.5 | 1/2 | 11,25 | 350 | 41 | 696 | 5 |

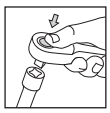


Quantities in packs may vary.

## 1993 U-10 T

### REVERSIBLE RATCHET 1/2"

- Acc. to DIN 3122, ISO 3315
- With recessed lever change
- Push-button release
- Non-slip 2-component handle with hanging hole
- Locks in the middle position: When the lever is flipped, it automatically engages for clockwise or counterclockwise operation
- For hand-operated sockets and accessories with square drive as per DIN 3120 - C 12.5, ISO 1174, ball locking device
- GEDORE vanadium steel 31CrV3, chrome-plated

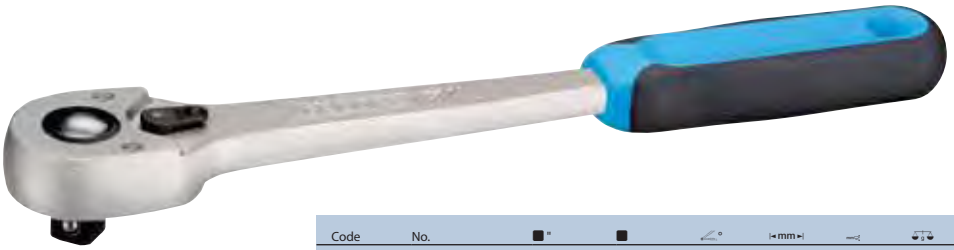


| Code | No. | ■ " | ■ | ∠ ° | ⟷ mm ⟷ | ⟷ | ⚖ | ▦ |
|---|---|---|---|---|---|---|---|---|
| 6142620 | **1993 U-10 T** | 1/2 | 12.5 | 11,25 | 270 | 39 | 598 | 5 |

## 1993 ALU-10

### ALUMINIUM REVERSIBLE RATCHET 1/2"

- Design spec. similar to DIN 3122, ISO 3315
- Made from special-purpose drop-forged and hardened aluminium
- The mechanism as in all U-10 ratchets is made from high-quality steel
- With lever change
- Push-button release
- Non-slip 2-component handle with hanging hole
- Locks in the middle position: When the lever is flipped, it automatically engages for clockwise or counterclockwise operation
- For hand-operated sockets and accessories with square drive as per DIN 3120 - C 12.5, ISO 1174, ball locking device
- Extremely lightweight - just 340 g



| Code | No. | ■ " | ■ | ∠ ° | ⟷ mm ⟷ | ⟷ | ⚖ | ▦ |
|---|---|---|---|---|---|---|---|---|
| 6142700 | **1993 ALU-10** | 1/2 | 12.5 | 11,25 | 270 | 39 | 340 | 5 |

## 1993 U-3

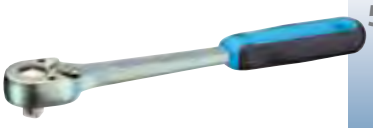
### REVERSIBLE RATCHET 1/2"

- Acc. to DIN 3122, ISO 3315
- With non-slip metal disc change, fine-toothed and robust
- Non-slip 2-component handle with hanging hole
- For hand-operated sockets and accessories with square drive as per DIN 3120 - C 12.5, ISO 1174, ball locking device
- GEDORE vanadium steel 31CrV3, chrome-plated

| Code | No. | ■ " | ■ | ∠ ° | ⟷ mm ⟷ | ⟷ | ⚖ | ▦ |
|---|---|---|---|---|---|---|---|---|
| 6144240 | **1993 U-3** | 1/2 | 12.5 | 5 | 270 | 40.5 | 476 | 5 |


**VDE 1993 U** 559

**NC 1993 U-10** 547



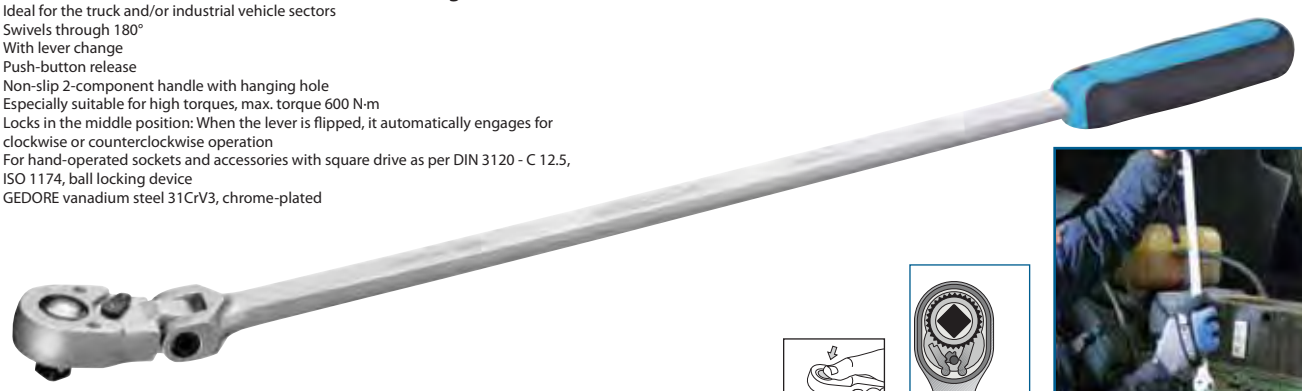
**1940** 212

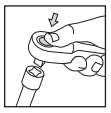
Quantities in packs may vary.

## 1993 GU-10 XL

### SWIVEL HEAD REVERSIBLE RATCHET 1/2" extra long

- Ideal for the truck and/or industrial vehicle sectors
- Swivels through 180°
- With lever change
- Push-button release
- Non-slip 2-component handle with hanging hole
- Especially suitable for high torques, max. torque 600 N·m
- Locks in the middle position: When the lever is flipped, it automatically engages for clockwise or counterclockwise operation
- For hand-operated sockets and accessories with square drive as per DIN 3120 - C 12.5, ISO 1174, ball locking device
- GEDORE vanadium steel 31CrV3, chrome-plated





| Code | No. | ■" | ■ | ∠° | ⟷mm⟷ | | ⚖ | |
|---|---|---|---|---|---|---|---|---|
| 2018934 | **1993 GU-10 XL** | 1/2 | 12.5 | 11,25 | 600 | | 1160 | |

## 1993 GU-3

### SWIVEL HEAD REVERSIBLE RATCHET 1/2"

- Swivels through 180°, with joint lock
- With non-slip metal disc change, fine-toothed and robust
- Non-slip 2-component handle with hanging hole
- Max. torque 300 N·m
- For hand-operated sockets and accessories with square drive as per DIN 3120 - C 12.5, ISO 1174, ball locking device
- GEDORE vanadium steel 31CrV3, chrome-plated

| Code | No. | ■" | ■ | ∠° | ⟷mm⟷ | | ⚖ | |
|---|---|---|---|---|---|---|---|---|
| 6144320 | **1993 GU-3** | 1/2 | 12.5 | 5 | 282 | 40.5 | 535 | 5 |

## 1993 U-10 K

### PLASTIC RATCHET 1/2"

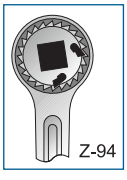
- For fast and easy tightening of bolted connections up to max. 70 N·m
- Very handy and compact, housing and handle form one unit
- Return angle 11,25°
- Made from sturdy compound material with a steel mechanism
- Dimensions: 44 x 145 x 42.2 mm
- Available in five colours
- European-Patent-No. 1136187

| Code | No. | Colour | ■" | ■ | ⟷mm⟷ | ∠° | ⚖ | |
|---|---|---|---|---|---|---|---|---|
| 6242760 | **1993 U-10 K SCHWARZ** | signal-black | 1/2 | 12.5 | 145 | 11,25 | 226 | 5 |
| 6244620 | **1993 U-10 K GRÜN** | moss-green | 1/2 | 12.5 | 145 | 11,25 | 226 | 5 |
| 6244700 | **1993 U-10 K GRAU** | anthracite-grey | 1/2 | 12.5 | 145 | 11,25 | 226 | 5 |
| 6244890 | **1993 U-10 K BLAU** | sky-blue | 1/2 | 12.5 | 145 | 11,25 | 226 | 5 |
| 1505025 | **1993 U-10 K SIGNALGRAU** | signal-grey | 1/2 | 12.5 | 145 | 11,25 | 226 | 5 |

## 1993 Z-94

### RATCHET HANDLE WITH COUPLER 1/2"

- Acc. to DIN 3122, ISO 3315
- With square coupler, medium-fine toothed, extremely rugged
- Non-slip 2-component handle with hanging hole
- For hand-operated sockets and accessories with square drive as per DIN 3120 - C 12.5, ISO 1174 ball locking device
- GEDORE vanadium steel 31CrV3, chrome-plated



| Code | No. | ■" | ■ | ∠° | ⟷mm⟷ | | ⚖ | |
|---|---|---|---|---|---|---|---|---|
| 6144590 | **1993 Z-94** | 1/2 | 12.5 | 15 | 270 | 21.9 | 476 | 5 |



Quantities in packs may vary.

# SOCKETS 12.5 (1/2")

| 1/2" | UNIT DRIVE hexagon | UNIT DRIVE bi-hexagon | UNIT DRIVE bi-hexagon | UNIT DRIVE hexagon | UNIT DRIVE bi-hexagon | Hexagon - external | Hexagon - external | Hexagon - external | Internal hexagon | Internal TORX® | Internal TORX® with pin | External TORX® | Internal serrations XZN | Slot | Cruciform PH | Cruciform PZ | Internal TORX PLUS® | Internal TORX® with ball end | Internal hexagon with ball end | Internal hexagon |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexagon | mm | mm | "AF | "AF | Whitw. | mm | "AF | Whitw. | mm | | | | | | | | | | | "AF |
| | ● | ● | ● | ● | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | | ● | ● |

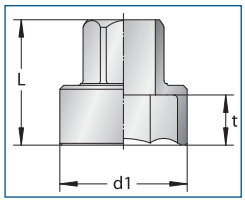
## SK Ratchet and sockets
## SK = socket short

- Especially for working in confined spaces
- Sockets and ratchet with tubular section for taking up long thread bolts
- A compact and inner-cavity hexagonal system as the connection between ratchet and socket
- The sockets are inserted into the ratchet hexagon female drive
- The drive length is concealed inside the ratchet and shortens the projecting part of the socket by 50 % as against the traditional system
- Sockets and ratchet hot-drop forged of GEDORE steel
- Sockets from 10 to 24 mm

## 19 SK

### SOCKET 1/2" hexagon, short pattern

- With recess hexagon drive 1/2"
- For use with reversible ratchet no. 1993 U-20 SK
- Torques specification required to standard DIN 312 is exceeded
- GEDORE steel 42CrMo4, polished, chrome-plated




| Code | No. | mm | L | $d_1$ | t | |
|---|---|---|---|---|---|---|
| 2521539 | **19 SK 10** | 10 | 24.0 | 15.5 | 6.0 | 1 |
| 2521547 | **19 SK 11** | 11 | 24.0 | 16.7 | 6.0 | 1 |
| 2521555 | **19 SK 12** | 12 | 25.0 | 18.0 | 7.0 | 1 |
| 2225875 | **19 SK 13** | 13 | 25.0 | 19.2 | 7.0 | 1 |
| 2225883 | **19 SK 14** | 14 | 25.0 | 20.5 | 7.0 | 1 |
| 2225891 | **19 SK 15** | 15 | 26.5 | 21.7 | 8.5 | 1 |
| 2225905 | **19 SK 16** | 16 | 26.5 | 22.5 | 8.5 | 1 |
| 2225913 | **19 SK 17** | 17 | 27.0 | 24.0 | 8.5 | 1 |
| 2225921 | **19 SK 18** | 18 | 30.5 | 25.5 | 11.0 | 1 |
| 2225948 | **19 SK 19** | 19 | 30.5 | 26.7 | 11.0 | 1 |
| 2225964 | **19 SK 21** | 21 | 32.5 | 29.2 | 13.0 | 1 |
| 2225972 | **19 SK 22** | 22 | 32.5 | 30.5 | 13.0 | 1 |
| 2225980 | **19 SK 24** | 24 | 32.5 | 33.0 | 13.0 | 1 |

## 1993 U-20 SK

204

## 19 SKU-20

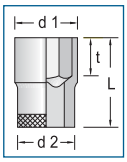
215

Quantities in packs may vary.

## 19

### SOCKET 1/2" hexagon UD profile

- Acc. to DIN 3124, ISO 2725-1
- Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- GEDORE vanadium steel 31CrV3, polished, chrome-plated
- * not standardised

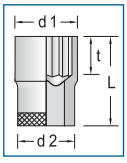



| Code | No. | * | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|---|
| 6130020 | **19 8** | | 8 | 38.0 | 13.0 | 22.5 | 15.0 | 55 | 10 |
| 6130100 | **19 9** | * | 9 | 38.0 | 14.2 | 22.5 | 15.0 | 56 | 10 |
| 6130290 | **19 10** | | 10 | 38.0 | 15.5 | 22.5 | 13.5 | 56 | 10 |
| 6130370 | **19 11** | | 11 | 38.0 | 16.7 | 22.5 | 12.5 | 58 | 10 |
| 6130450 | **19 12** | | 12 | 38.0 | 18.0 | 22.5 | 12.5 | 58 | 10 |
| 6130530 | **19 13** | | 13 | 38.0 | 19.2 | 22.5 | 12.5 | 61 | 10 |
| 6130610 | **19 14** | | 14 | 38.0 | 20.5 | 22.5 | 12.5 | 63 | 10 |
| 6130880 | **19 15** | | 15 | 39.5 | 21.7 | 23.8 | 15.0 | 74 | 10 |
| 6130960 | **19 16** | | 16 | 39.5 | 22.5 | 23.8 | 15.0 | 75 | 10 |
| 6131180 | **19 17** | | 17 | 39.5 | 24.0 | 22.5 | 15.0 | 74 | 10 |
| 6131260 | **19 18** | | 18 | 39.5 | 25.5 | 23.0 | 17.0 | 73 | 10 |
| 6131340 | **19 19** | | 19 | 40.0 | 26.7 | 24.2 | 17.0 | 85 | 10 |
| 6131420 | **19 20** | | 20 | 40.0 | 28.0 | 25.5 | 17.0 | 96 | 10 |
| 6131500 | **19 21** | | 21 | 41.5 | 29.2 | 26.0 | 18.5 | 106 | 10 |
| 6131690 | **19 22** | | 22 | 41.5 | 30.5 | 26.3 | 18.5 | 112 | 10 |
| 6131770 | **19 23** | * | 23 | 41.5 | 31.7 | 27.5 | 18.5 | 122 | 10 |
| 6131850 | **19 24** | | 24 | 41.5 | 33.0 | 28.0 | 18.5 | 132 | 10 |
| 6131930 | **19 25** | * | 25 | 41.5 | 34.2 | 28.8 | 18.5 | 139 | 10 |
| 6132070 | **19 26** | * | 26 | 41.5 | 35.5 | 29.4 | 18.5 | 148 | 10 |
| 6132150 | **19 27** | | 27 | 41.5 | 36.7 | 30.0 | 18.5 | 157 | 10 |
| 6132230 | **19 28** | * | 28 | 43.0 | 38.0 | 30.5 | 20.0 | 168 | 10 |
| 6132310 | **19 29** | * | 29 | 43.0 | 39.2 | 31.2 | 20.0 | 181 | 10 |
| 6132580 | **19 30** | | 30 | 43.0 | 40.5 | 32.5 | 20.5 | 193 | 10 |
| 6132740 | **19 32** | | 32 | 44.5 | 43.0 | 34.5 | 22.5 | 226 | 10 |
| 2545306 | **19 33** | * | 33 | 44.5 | 44.2 | 36.0 | 22.5 | 226 | 10 |
| 6138270 | **19 34** | | 34 | 44.5 | 45.5 | 37.0 | 22.5 | 259 | 10 |
| 1718711 | **19 36** | * | 36 | 44.5 | 48.0 | 38.0 | 22.5 | 271 | 10 |

## D 19

### SOCKET 1/2" bi-hexagon UD profile

- Acc. to DIN 3124, ISO 2725-1
- Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- GEDORE vanadium steel 31CrV3, polished, chrome-plated
- * not standardised




| Code | No. | * | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|---|
| 6133040 | **D 19 8** | | 8 | 38.0 | 13.0 | 22.5 | 7.0 | 51 | 10 |
| 6133120 | **D 19 9** | * | 9 | 38.0 | 14.2 | 22.5 | 8.0 | 52 | 10 |
| 6133200 | **D 19 10** | | 10 | 38.0 | 15.5 | 22.5 | 13.5 | 56 | 10 |
| 6133390 | **D 19 11** | | 11 | 38.0 | 16.7 | 22.5 | 12.5 | 57 | 10 |
| 6133470 | **D 19 12** | | 12 | 38.0 | 18.0 | 22.5 | 12.5 | 57 | 10 |
| 6133550 | **D 19 13** | | 13 | 38.0 | 19.2 | 22.5 | 12.5 | 59 | 10 |
| 6133630 | **D 19 14** | | 14 | 38.0 | 20.5 | 22.5 | 12.5 | 61 | 10 |
| 6133710 | **D 19 15** | | 15 | 39.5 | 21.7 | 23.8 | 15.0 | 72 | 10 |
| 6133980 | **D 19 16** | | 16 | 39.5 | 22.5 | 23.8 | 15.0 | 72 | 10 |
| 6134010 | **D 19 17** | | 17 | 39.5 | 24.0 | 22.5 | 15.0 | 70 | 10 |
| 6134280 | **D 19 18** | | 18 | 39.5 | 25.5 | 23.0 | 17.0 | 68 | 10 |
| 6134360 | **D 19 19** | | 19 | 40.0 | 26.7 | 24.2 | 17.0 | 81 | 10 |
| 6134440 | **D 19 20** | | 20 | 40.0 | 28.0 | 25.5 | 17.0 | 90 | 10 |
| 6134520 | **D 19 21** | | 21 | 41.5 | 29.2 | 26.0 | 18.5 | 101 | 10 |
| 6134600 | **D 19 22** | | 22 | 41.5 | 30.5 | 26.3 | 18.5 | 106 | 10 |
| 6134790 | **D 19 23** | * | 23 | 41.5 | 31.7 | 27.5 | 18.5 | 118 | 10 |
| 6134870 | **D 19 24** | | 24 | 41.5 | 33.0 | 28.0 | 18.5 | 123 | 10 |
| 6134950 | **D 19 25** | * | 25 | 41.5 | 34.2 | 28.8 | 18.5 | 131 | 10 |
| 6135090 | **D 19 26** | * | 26 | 41.5 | 35.5 | 29.4 | 18.5 | 139 | 10 |
| 6135170 | **D 19 27** | | 27 | 41.5 | 36.7 | 30.0 | 18.5 | 143 | 10 |
| 6135250 | **D 19 28** | * | 28 | 43.0 | 38.0 | 30.5 | 20.0 | 163 | 10 |
| 6135330 | **D 19 29** | * | 29 | 43.0 | 39.2 | 31.2 | 20.0 | 168 | 10 |
| 6135410 | **D 19 30** | | 30 | 43.0 | 40.5 | 32.5 | 20.5 | 182 | 10 |
| 6135760 | **D 19 32** | | 32 | 44.5 | 43.0 | 34.5 | 22.5 | 204 | 10 |
| 6135840 | **D 19 33** | * | 33 | 44.5 | 44.2 | 36.0 | 22.5 | 221 | 10 |
| 2545314 | **D 19 34** | * | 34 | 44.5 | 45.5 | 37.0 | 22.5 | 251 | 10 |
| 2194686 | **D 19 36** | * | 36 | 44.5 | 48.0 | 38.0 | 22.5 | 271 | 10 |

"AF

| Code | No. | "AF | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 6136060 | **D 19 5/16AF** | 5/16 | 38.0 | 13.0 | 22.5 | 7.0 | 52 | 5 |
| 6136140 | **D 19 11/32AF** | 11/32 | 38.0 | 13.9 | 22.5 | 8.0 | 54 | 5 |
| 6136220 | **D 19 3/8AF** | 3/8 | 38.0 | 14.9 | 22.5 | 15.0 | 55 | 5 |
| 6136300 | **D 19 13/32AF** | 13/32 | 38.0 | 15.9 | 22.5 | 13.5 | 55 | 5 |
| 6136490 | **D 19 7/16AF** | 7/16 | 38.0 | 16.7 | 22.5 | 12.5 | 56 | 5 |
| 6136570 | **D 19 1/2AF** | 1/2 | 38.0 | 18.7 | 22.5 | 12.5 | 58 | 5 |
| 6136650 | **D 19 9/16AF** | 9/16 | 38.0 | 20.7 | 22.5 | 12.5 | 61 | 5 |
| 6136730 | **D 19 19/32AF** | 19/32 | 39.5 | 21.7 | 23.8 | 15.0 | 70 | 5 |
| 6136810 | **D 19 5/8AF** | 5/8 | 39.5 | 22.5 | 23.8 | 15.0 | 73 | 5 |
| 6137030 | **D 19 11/16AF** | 11/16 | 39.5 | 24.7 | 22.5 | 17.0 | 66 | 5 |
| 6137110 | **D 19 3/4AF** | 3/4 | 40.0 | 26.7 | 24.2 | 17.0 | 84 | 5 |
| 6137380 | **D 19 25/32AF** | 25/32 | 40.0 | 27.7 | 25.3 | 17.0 | 90 | 5 |
| 6137460 | **D 19 13/16AF** | 13/16 | 41.5 | 28.5 | 25.7 | 18.5 | 97 | 5 |
| 6137540 | **D 19 7/8AF** | 7/8 | 41.5 | 30.6 | 26.5 | 18.5 | 105 | 5 |
| 6137620 | **D 19 15/16AF** | 15/16 | 41.5 | 32.6 | 28.3 | 18.5 | 126 | 5 |
| 6137700 | **D 19 1AF** | 1 | 41.5 | 34.6 | 28.9 | 18.5 | 138 | 5 |
| 6137890 | **D 19 1.1/16AF** | 1.1/16 | 41.5 | 36.7 | 30.0 | 18.5 | 147 | 5 |
| 6137970 | **D 19 1.1/8AF** | 1.1/8 | 43.0 | 38.6 | 31.0 | 20.0 | 159 | 5 |
| 6138000 | **D 19 1.3/16AF** | 1.3/16 | 43.0 | 40.6 | 32.5 | 20.5 | 183 | 5 |
| 6138190 | **D 19 1.1/4AF** | 1.1/4 | 44.5 | 42.6 | 34.5 | 22.5 | 207 | 10 |

Whitw.

| Code | No. | Whitw. | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 6138780 | **D 19 3/16W** | 3/16 | 38.0 | 17.0 | 22.5 | 12.5 | 54 | 10 |
| 6138860 | **D 19 1/4W** | 1/4 | 38.0 | 19.5 | 22.5 | 12.5 | 57 | 10 |
| 6138940 | **D 19 5/16W** | 5/16 | 39.5 | 21.9 | 23.8 | 15.0 | 69 | 10 |
| 6139080 | **D 19 3/8W** | 3/8 | 39.5 | 25.5 | 23.0 | 17.0 | 66 | 10 |
| 6139160 | **D 19 7/16W** | 7/16 | 41.5 | 28.8 | 26.0 | 18.5 | 96 | 10 |
| 6139240 | **D 19 1/2W** | 1/2 | 41.5 | 32.1 | 27.8 | 18.5 | 124 | 10 |
| 6139320 | **D 19 9/16W** | 9/16 | 41.5 | 34.9 | 29.2 | 18.5 | 137 | 10 |
| 6139400 | **D 19 5/8W** | 5/8 | 43.0 | 37.8 | 30.5 | 20.0 | 166 | 10 |
| 6139590 | **D 19 11/16W** | 11/16 | 43.0 | 41.0 | 33.0 | 20.5 | 184 | 10 |
| 6138430 | **D 19 3/4W** | 3/4 | 44.5 | 44.2 | 36.0 | 22.5 | 225 | 10 |

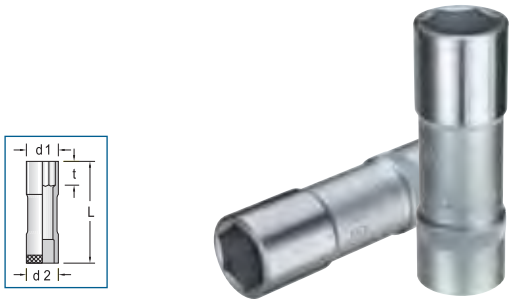


Quantities in packs may vary.

## 19 L

### SOCKET 1/2" hexagon UD profile, long pattern

- Acc. to DIN 3124, ISO 2725-1
- Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- GEDORE vanadium steel 31CrV3, polished, chrome-plated





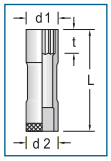

| Code | No. | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 1718738 | **19 L 10** | 10 | 77.0 | 15.5 | 22.5 | 12.0 | 117 | 10 |
| 1718746 | **19 L 11** | 11 | 77.0 | 16.7 | 22.5 | 13.0 | 121 | 10 |
| 1718754 | **19 L 12** | 12 | 77.0 | 18.0 | 22.5 | 14.0 | 127 | 10 |
| 1718762 | **19 L 13** | 13 | 77.0 | 19.2 | 22.5 | 16.0 | 98 | 10 |
| 1718770 | **19 L 14** | 14 | 77.0 | 20.5 | 22.5 | 16.5 | 109 | 10 |
| 1718789 | **19 L 15** | 15 | 77.0 | 21.7 | 22.5 | 16.5 | 117 | 10 |
| 1718800 | **19 L 16** | 16 | 77.0 | 23.0 | 24.0 | 16.5 | 130 | 10 |
| 1718819 | **19 L 17** | 17 | 77.0 | 24.0 | 24.0 | 16.5 | 132 | 10 |
| 1718827 | **19 L 18** | 18 | 82.0 | 25.5 | 25.0 | 20.0 | 147 | 10 |
| 1718835 | **19 L 19** | 19 | 82.0 | 26.7 | 26.0 | 22.0 | 174 | 10 |

| Code | No. | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 2300559 | **19 L 21** | 21 | 82.0 | 29.2 | 28.5 | 24.0 | 211 | 1 |
| 2300567 | **19 L 22** | 22 | 82.0 | 30.5 | 28.5 | 24.0 | 219 | 1 |
| 2300575 | **19 L 24** | 24 | 82.0 | 33.0 | 29.0 | 26.0 | 257 | 1 |
| 2300583 | **19 L 27** | 27 | 82.0 | 36.7 | 30.0 | 30.0 | 290 | 1 |
| 2300591 | **19 L 30** | 30 | 82.0 | 40.5 | 32.5 | 33.0 | 351 | 1 |
| 2300605 | **19 L 32** | 32 | 82.0 | 43.0 | 34.5 | 36.0 | 387 | 1 |
| 2300613 | **19 L 34** | 34 | 82.0 | 45.5 | 36.5 | 37.0 | 432 | 1 |

## D 19 L

### SOCKET 1/2" bi-hexagon UD profile, long pattern

- Acc. to DIN 3124, ISO 2725-1
- Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- GEDORE vanadium steel 31CrV3, polished, chrome-plated
- Sizes 16, 18, 21 mm with hole drilled for tommy bar Ø 8 mm



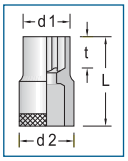

| Code | No. | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 6141140 | **D 19 L 10** | 10 | 77.0 | 15.5 | 22.5 | 12.0 | 117 | 10 |
| 6141220 | **D 19 L 12** | 12 | 77.0 | 18.0 | 22.5 | 14.0 | 127 | 10 |
| 6140170 | **D 19 L 13** | 13 | 77.0 | 19.2 | 22.5 | 16.0 | 101 | 10 |
| 6140250 | **D 19 L 14** | 14 | 77.0 | 20.5 | 22.5 | 16.5 | 109 | 10 |
| 6142460 | **D 19 L 15** | 15 | 77.0 | 21.7 | 22.5 | 16.5 | 119 | 10 |
| 6142540 | **D 19 L 16** | 16 | 77.0 | 23.0 | 24.0 | 16.5 | 128 | 10 |
| 6140330 | **D 19 L 17** | 17 | 77.0 | 24.0 | 24.0 | 16.5 | 133 | 10 |
| 6142380 | **D 19 L 18** | 18 | 82.0 | 25.5 | 25.0 | 20.0 | 147 | 10 |
| 6140410 | **D 19 L 19** | 19 | 82.0 | 26.7 | 26.0 | 22.0 | 175 | 10 |
| 6140680 | **D 19 L 21** | 21 | 82.0 | 29.2 | 28.5 | 24.0 | 211 | 10 |
| 6145050 | **D 19 L 22** | 22 | 82.0 | 30.5 | 28.5 | 24.0 | 219 | 10 |
| 6140760 | **D 19 L 24** | 24 | 82.0 | 33.0 | 29.0 | 26.0 | 257 | 10 |
| 6141060 | **D 19 L 27** | 27 | 82.0 | 36.7 | 30.0 | 30.0 | 290 | 10 |
| 6145640 | **D 19 L 30** | 30 | 82.0 | 40.5 | 32.5 | 33.0 | 351 | 10 |
| 6191320 | **D 19 L 32** | 32 | 82.0 | 43.0 | 34.5 | 36.0 | 387 | 10 |
| 6147500 | **D 19 L 34** | 34 | 82.0 | 45.5 | 36.5 | 37.0 | 432 | 5 |

| Code | No. | "AF | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 6141300 | **D 19 L 1/2AF** | 1/2 | 77.0 | 18.7 | 22.5 | 16.0 | 95 | 10 |
| 6141490 | **D 19 L 9/16AF** | 9/16 | 77.0 | 20.7 | 22.5 | 16.5 | 105 | 10 |
| 6141570 | **D 19 L 5/8AF** | 5/8 | 77.0 | 22.5 | 24.0 | 16.5 | 120 | 10 |
| 6141650 | **D 19 L 11/16AF** | 11/16 | 77.0 | 24.7 | 24.8 | 16.5 | 143 | 10 |
| 6141730 | **D 19 L 3/4AF** | 3/4 | 82.0 | 26.7 | 26.0 | 22.0 | 164 | 10 |
| 6141810 | **D 19 L 13/16AF** | 13/16 | 82.0 | 28.5 | 28.5 | 22.0 | 197 | 10 |
| 6142030 | **D 19 L 7/8AF** | 7/8 | 82.0 | 30.6 | 28.5 | 24.0 | 208 | 10 |
| 6142110 | **D 19 L 15/16AF** | 15/16 | 82.0 | 32.6 | 29.0 | 26.0 | 234 | 10 |

## TX 19

### SOCKET 1/2" for protruding TORX® head screws

- Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- GEDORE vanadium steel 31CrV3, polished, chrome-plated
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

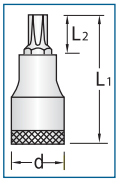



| Code | No. | | | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6145720 | **TX 19 E10** | E10 | M8 | 9.42 | 38.0 | 13.5 | 22.5 | 15.5 | 56 | 10 |
| 6194180 | **TX 19 E11** | E11 | - | 10.08 | 38.0 | 14.0 | 22.5 | 15.5 | 55 | 5 |
| 6147340 | **TX 19 E12** | E12 | M10 | 11.17 | 38.0 | 15.5 | 22.5 | 15.5 | 59 | 10 |
| 6147420 | **TX 19 E14** | E14 | M12 | 12.90 | 38.0 | 17.0 | 22.5 | 13.0 | 59 | 10 |
| 6194420 | **TX 19 E16** | E16 | M12 | 14.76 | 38.0 | 19.0 | 22.5 | 13.0 | 62 | 10 |
| 6194500 | **TX 19 E18** | E18 | M14 | 16.70 | 40.0 | 21.0 | 24.5 | 14.0 | 78 | 10 |
| 6194690 | **TX 19 E20** | E20 | M16 | 18.45 | 40.0 | 23.5 | 24.5 | 14.0 | 85 | 10 |
| 6195070 | **TX 19 E24** | E24 | M18 - M20 | 22.16 | 41.5 | 28.5 | 26.0 | 16.0 | 116 | 5 |

## ITX 19

### SCREWDRIVER BIT SOCKET 1/2" for recessed TORX® head screws

- Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



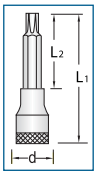

| Code | No. | | | mm | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|---|
| 6152930 | **ITX 19 T20** | T20 | M4 - M5 | 3.86 | 55 | 17 | 22.5 | 76 | 10 |
| 6154200 | **ITX 19 T25** | T25 | M4,5 - M5 | 4.43 | 55 | 17 | 22.5 | 75 | 10 |
| 6154630 | **ITX 19 T27** | T27 | M4,5 - M6 | 4.99 | 55 | 17 | 22.5 | 76 | 10 |
| 6156170 | **ITX 19 T30** | T30 | M6 - M7 | 5.52 | 55 | 17 | 22.5 | 75 | 10 |
| 6156330 | **ITX 19 T40** | T40 | M7 - M8 | 6.65 | 55 | 17 | 22.5 | 76 | 10 |
| 6157060 | **ITX 19 T45** | T45 | M8 - M10 | 7.82 | 55 | 17 | 22.5 | 77 | 10 |
| 6158030 | **ITX 19 T50** | T50 | M10 | 8.83 | 55 | 17 | 22.5 | 92 | 10 |
| 6158380 | **ITX 19 T55** | T55 | M12 | 11.22 | 55 | 17 | 23.0 | 107 | 10 |
| 6158540 | **ITX 19 T60** | T60 | M14 | 13.25 | 55 | 15 | 24.7 | 137 | 10 |

Quantities in packs may vary.

## ITX 19 L

### SCREWDRIVER BIT SOCKET 1/2" for recessed TORX® head screws, long pattern

- Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

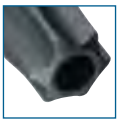


| Code | No. | | | mm | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|---|
| 6188020 | **ITX 19 L T20-100** | T20 | M4 - M5 | 3.86 | 100 | 62 | 22.5 | 95 | 5 |
| 6188100 | **ITX 19 L T25-100** | T25 | M4,5 - M5 | 4.43 | 100 | 62 | 22.5 | 95 | 5 |
| 6188370 | **ITX 19 L T27-100** | T27 | M4,5 - M6 | 4.99 | 100 | 62 | 22.5 | 96 | 5 |
| 6152500 | **ITX 19 L T30-100** | T30 | M6 - M7 | 5.52 | 100 | 62 | 22.5 | 96 | 10 |
| 6152690 | **ITX 19 L T40-100** | T40 | M7 - M8 | 6.65 | 100 | 62 | 22.5 | 96 | 10 |
| 6155870 | **ITX 19 L T45-100** | T45 | M8 - M10 | 7.82 | 100 | 62 | 22.5 | 98 | 10 |
| 6158700 | **ITX 19 L T50-100** | T50 | M10 | 8.83 | 100 | 62 | 22.5 | 124 | 10 |
| 6159940 | **ITX 19 L T55-100** | T55 | M12 | 11.22 | 100 | 62 | 23.0 | 151 | 10 |
| 6188450 | **ITX 19 L T60-100** | T60 | M14 | 13.25 | 100 | 60 | 24.7 | 197 | 5 |
| 6105180 | **ITX 19 L T70-100** | T70 | M16 | 15.55 | 100 | 60 | 28.0 | 277 | 5 |

## ITX 19 B

### SCREWDRIVER BIT SOCKET 1/2" for recessed TORX® head screws with pilot

- Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

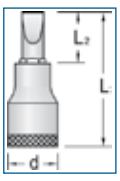


| Code | No. | | | mm | $L_1$ | $L_2$ | d | Bore | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6192720 | **ITX 19 B T20** | T20 | M4 - M5 | 3.86 | 55 | 17 | 22.5 | 1,55 x 1,86 | 75 | 5 |
| 6195660 | **ITX 19 B T25** | T25 | M4,5 - M5 | 4.43 | 55 | 17 | 22.5 | 1,93 x 2,04 | 75 | 5 |
| 6196390 | **ITX 19 B T27** | T27 | M4,5 - M6 | 4.99 | 55 | 17 | 22.5 | 2,18 x 2,29 | 76 | 5 |
| 6200170 | **ITX 19 B T30** | T30 | M6 - M7 | 5.52 | 55 | 17 | 22.5 | 2,56 x 2,92 | 76 | 5 |
| 6200410 | **ITX 19 B T40** | T40 | M7 - M8 | 6.65 | 55 | 17 | 22.5 | 2,92 x 3,28 | 91 | 5 |
| 6200840 | **ITX 19 B T45** | T45 | M8 - M10 | 7.82 | 55 | 17 | 22.5 | 3,45 x 3,68 | 92 | 5 |
| 6201300 | **ITX 19 B T50** | T50 | M10 | 8.83 | 55 | 17 | 23.0 | 3,83 x 3,78 | 105 | 5 |
| 6202700 | **ITX 19 B T55** | T55 | M12 | 11.22 | 55 | 15 | 24.7 | 4,85 x 4,79 | 133 | 5 |
| 6203270 | **ITX 19 B T60** | T60 | M14 | 13.25 | 56 | 16 | 28.0 | 5,63 x 7,87 | 182 | 5 |

## IS 19

### SCREWDRIVER BIT SOCKET 1/2" for slotted head screws

- Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated
- Blade as per DIN ISO 2380-1, Form B

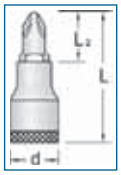


| Code | No. | | | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|
| 6161760 | **IS 19 6,5x1,2** | 1.2 | 6.5 | 60 | 22 | 22.5 | 71 | 10 |
| 6656060 | **IS 19 8x1,2** | 1.2 | 8.0 | 60 | 22 | 22.5 | 80 | 5 |
| 6656140 | **IS 19 10x1,6** | 1.6 | 10.0 | 60 | 22 | 22.5 | 115 | 5 |
| 6656220 | **IS 19 12x2** | 2.0 | 12.0 | 60 | 22 | 23.0 | 110 | 5 |
| 6162140 | **IS 19 14x2,5** | 2.5 | 14.0 | 60 | 20 | 24.7 | 138 | 5 |
| 6656490 | **IS 19 16x2,5** | 2.5 | 16.0 | 60 | 20 | 28.0 | 190 | 5 |
| 6656570 | **IS 19 18x2,5** | 2.5 | 18.0 | 60 | 20 | 27.0 | 193 | 10 |

## IKS 19

### SCREWDRIVER BIT SOCKET 1/2" for cross-slotted head screws PH

- Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- Tip as per DIN ISO 8764-1 PH

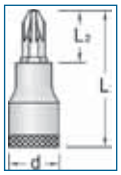


| Code | No. | PH | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|
| 6656650 | **IKS 19 2** | 2 | 60 | 22 | 22.5 | 77 | 10 |
| 6656730 | **IKS 19 3** | 3 | 60 | 22 | 22.5 | 92 | 10 |
| 6656810 | **IKS 19 4** | 4 | 60 | 22 | 23.0 | 106 | 10 |

## IKS 19 PZD

### SCREWDRIVER BIT SOCKET 1/2" for cross-slotted head screws PZ

- Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- Tip as per DIN ISO 8764-1 PZ

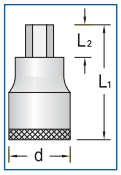


| Code | No. | PZ | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|
| 6156680 | **IKS 19 PZD 2** | 2 | 60 | 22 | 22.5 | 77 | 10 |
| 6156760 | **IKS 19 PZD 3** | 3 | 60 | 22 | 22.5 | 91 | 10 |
| 6156840 | **IKS 19 PZD 4** | 4 | 60 | 22 | 23.0 | 108 | 5 |

## IN 19

### SCREWDRIVER BIT SOCKET 1/2" for in-hex screws

- Acc. to DIN 7422
- Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated
- **IN 19 17** for oil filter and drain plug screws
- * not standardised



| Code | No. | * | mm | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|
| 6153070 | **IN 19 4** | * | 4 | 60 | 22 | 22.5 | 68 | 10 |
| 6153150 | **IN 19 5** | * | 5 | 60 | 22 | 22.5 | 69 | 10 |
| 6153230 | **IN 19 6** | | 6 | 60 | 22 | 22.5 | 70 | 10 |
| 6153310 | **IN 19 7** | | 7 | 60 | 22 | 22.5 | 75 | 10 |
| 6153580 | **IN 19 8** | | 8 | 60 | 22 | 22.5 | 82 | 10 |
| 6153660 | **IN 19 9** | * | 9 | 60 | 22 | 22.5 | 91 | 10 |
| 6153740 | **IN 19 10** | | 10 | 60 | 22 | 22.5 | 99 | 10 |
| 6153820 | **IN 19 12** | | 12 | 60 | 22 | 23.0 | 113 | 10 |
| 6153900 | **IN 19 14** | | 14 | 60 | 20 | 24.7 | 149 | 10 |
| 6154040 | **IN 19 17** | * | 17 | 60 | 20 | 28.0 | 210 | 10 |
| 6154120 | **IN 19 19** | * | 19 | 60 | 20 | 27.0 | 222 | 10 |



Quantities in packs may vary.

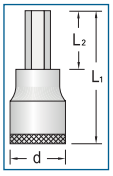
## IN 19

| Code | No. | "AF | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|
| 6154710 | **IN 19 3/16AF** | 3/16 | 60 | 22 | 22.5 | 69 | 10 |
| 6154980 | **IN 19 7/32AF** | 7/32 | 60 | 22 | 22.5 | 69 | 10 |
| 6155010 | **IN 19 1/4AF** | 1/4 | 60 | 22 | 22.5 | 73 | 10 |
| 6155280 | **IN 19 9/32AF** | 9/32 | 60 | 22 | 22.5 | 76 | 5 |
| 6155360 | **IN 19 5/16AF** | 5/16 | 60 | 22 | 22.5 | 81 | 10 |
| 6155440 | **IN 19 3/8AF** | 3/8 | 60 | 22 | 22.5 | 98 | 10 |
| 6155520 | **IN 19 1/2AF** | 1/2 | 60 | 22 | 23.0 | 119 | 10 |
| 6155600 | **IN 19 9/16AF** | 9/16 | 60 | 20 | 24.7 | 150 | 10 |
| 6155790 | **IN 19 5/8AF** | 5/8 | 60 | 20 | 28.0 | 205 | 10 |

## IN 19 L

### SCREWDRIVER BIT SOCKET 1/2" for in-hex screws, long pattern

- Acc. to DIN 7422
- Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated
- * t = stepped hexagon bit 13 mm
- * not standardised

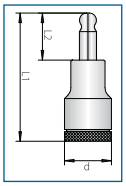


| Code | No. | * | mm | $L_1$ | $L_2$ | d | * t | | |
|---|---|---|---|---|---|---|---|---|---|
| 6162060 | **IN 19 L 5-90** | * | 5 | 90 | 52 | 22.5 | 13 | 91 | 10 |
| 6157140 | **IN 19 L 5-180** | * | 5 | 180 | 142 | 22.5 | 13 | 131 | 10 |
| 6157300 | **IN 19 L 6-90** | | 6 | 90 | 52 | 22.5 | | 79 | 10 |
| 6145800 | **IN 19 L 6-140** | | 6 | 140 | 102 | 22.5 | 13 | 115 | 10 |
| 6145990 | **IN 19 L 6-160** | | 6 | 160 | 122 | 22.5 | 13 | 123 | 10 |
| 6157570 | **IN 19 L 7-100** | | 7 | 100 | 62 | 22.5 | | 89 | 10 |
| 6157730 | **IN 19 L 8-90** | | 8 | 90 | 52 | 22.5 | | 95 | 10 |
| 6157810 | **IN 19 L 8-120** | | 8 | 120 | 82 | 22.5 | | 109 | 10 |
| 6158110 | **IN 19 L 10-140** | | 10 | 140 | 102 | 22.5 | | 154 | 10 |
| 6158460 | **IN 19 L 12-140** | | 12 | 140 | 102 | 23.0 | | 195 | 10 |
| 6158620 | **IN 19 L 14-140** | | 14 | 140 | 100 | 24.7 | | 257 | 10 |

## IN 19 K

### SCREWDRIVER BIT SOCKET 1/2" with ball end, for in-hex screws

- Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- Total swivel angle approx. 15-20°

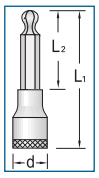


| Code | No. | | mm | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|
| 2219336 | **IN 19 K 6** | | 6 | 60 | 22 | 22.5 | 68 | 1 |
| 2219360 | **IN 19 K 7** | | 7 | 60 | 22 | 22.5 | 71 | 1 |
| 2219379 | **IN 19 K 8** | | 8 | 60 | 22 | 22.5 | 80 | 1 |
| 2219395 | **IN 19 K 10** | | 10 | 60 | 22 | 22.5 | 100 | 1 |
| 1621513 | **IN 19 K 12** | | 12 | 60 | 20 | 23.0 | 190 | 1 |
| 2663090 | **IN 19 K 14** | | 14 | 60 | 20 | 24.7 | | 1 |

## IN 19 LK

### SCREWDRIVER BIT SOCKET 1/2" with ball end, for in-hex screws, long pattern

- Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- Total swivel angle approx. 15°-20°

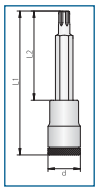


| Code | No. | | mm | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|
| 6162810 | **IN 19 LK 6-140** | | 6 | 140 | 102 | 22.5 | 91 | 10 |
| 6165080 | **IN 19 LK 7-140** | | 7 | 140 | 102 | 22.5 | 103 | 5 |
| 6165160 | **IN 19 LK 8-140** | | 8 | 140 | 102 | 22.5 | 116 | 10 |
| 6166800 | **IN 19 LK 10-140** | | 10 | 140 | 102 | 22.5 | 153 | 10 |
| 6172370 | **IN 19 LK 12-140** | | 12 | 140 | 102 | 23.0 | 195 | 5 |
| 1936328 | **IN 19 LK 14-140** | | 14 | 140 | 100 | 24.7 | | 5 |

## INR 19 L

### SCREWDRIVER BIT SOCKET 1/2" for multi-spline screws RIBE®, long pattern

- RIBE® = reg. trademark of Richard Bergner GmbH & Co. KG, Schwabach, Germany

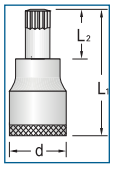


| Code | No. | | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|
| 1449826 | **INR 19 L 5-100** | M5 | 100 | 62 | 22.5 | 85 | 1 |
| 1449850 | **INR 19 L 6-100** | M6 | 100 | 62 | 22.5 | 85 | 1 |
| 1450859 | **INR 19 L 6-188** | M6 | 188 | 150 | 22.5 | 120 | 1 |
| 1449877 | **INR 19 L 8-100** | M8 | 100 | 62 | 22.5 | 85 | 1 |
| 1450875 | **INR 19 L 8-188** | M8 | 188 | 150 | 22.5 | 125 | 1 |
| 1449591 | **INR 19 L 10-100** | M10 | 100 | 62 | 22.5 | 105 | 1 |
| 1450891 | **INR 19 L 10-188** | M10 | 188 | 150 | 22.5 | 165 | 1 |
| 1398636 | **INR 19 L 12-100** | M12 | 100 | 62 | 22.5 | 145 | 1 |
| 1450913 | **INR 19 L 12-188** | M12 | 188 | 150 | 22.5 | 230 | 1 |
| 1449893 | **INR 19 L 14-100** | M14 | 100 | 60 | 24.7 | 155 | 1 |

## INX 19

### SCREWDRIVER BIT SOCKET 1/2" for multi-point screws XZN

- Acc. to DIN 2324
- Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated
- Tip as per DIN 2325
- * not standardised



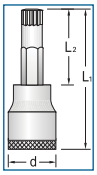
| Code | No. | * | | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|
| 6158890 | **INX 19 5** | * | M5 | 55 | 17 | 22.5 | 75 | 10 |
| 6159000 | **INX 19 6** | * | M6 | 55 | 17 | 22.5 | 76 | 10 |
| 6159270 | **INX 19 8** | | M8 | 55 | 17 | 22.5 | 77 | 10 |
| 6159430 | **INX 19 10** | | M10 | 55 | 17 | 22.5 | 94 | 10 |
| 6159780 | **INX 19 12** | | M12 | 55 | 17 | 23.0 | 110 | 10 |
| 1888943 | **INX 19 14** | | M14 | 57 | 17 | 24.7 | 85 | 10 |

Quantities in packs may vary.

## INX 19 L

### SCREWDRIVER BIT SOCKET 1/2" for multi-point screws XZN, long pattern

- Acc. to DIN 2324
- Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated
- Tip as per DIN 2325
- * not standardised



| Code | No. | * | | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|
| 6159190 | **INX 19 L 6-100** | * | M6 | 100 | 62 | 22.5 | 93 | 10 |
| 6159350 | **INX 19 L 8-100** | | M8 | 100 | 62 | 22.5 | 97 | 10 |
| 6159510 | **INX 19 L 10-100** | | M10 | 100 | 62 | 22.5 | 124 | 10 |
| 6159860 | **INX 19 L 12-100** | | M12 | 100 | 62 | 23.0 | 149 | 10 |
| 1888951 | **INX 19 L 14-100** | | M14 | 100 | 60 | 24.7 | 110 | 10 |

## ACCESSORIES 12.5 (1/2")

## 1930

### REDUCER 1/2" TO 3/8"

- Acc. to DIN 3123, ISO 3316
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- GEDORE vanadium steel 31CrV3, polished, chrome-plated

| Code | No. | □" | □ | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6143000 | **1930** | 1/2 | 12.5 | 3/8 | 10 | 38.5 | 62 | 10 |

## 1932

### CONVERTOR 1/2" TO 3/4"

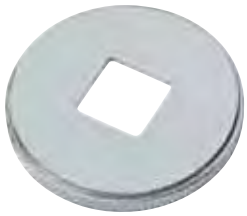
- Acc. to DIN 3123, ISO 3316
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- GEDORE vanadium steel 31CrV3, polished, chrome-plated

| Code | No. | □" | □ | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6143190 | **1932** | 1/2 | 12.5 | 3/4 | 20 | 44 | 128 | 10 |

## 1940

### HIGH-SPEED SWIVEL DISC for 1/2" ratchets

- For 12.5 mm (1/2") ratchets
- Tightens loose screws with a flick of the wrist
- Easy assembly between release head and socket
- Speeds up the screwing process



| Code | No. | □" | □ | | |
|---|---|---|---|---|---|
| 1640887 | **1940** | 1/2 | 12.5 | 14 | 1 |

## 1981 K

### L-HANDLE 1/2"

- Acc. to DIN 3122, ISO 3315
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- GEDORE vanadium steel 31CrV3, polished, chrome-plated

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6143270 | **1981 K** | 1/2 | 12.5 | 220 | 267 | 10 |

## 1985

### SPEED BRACE 1/2"

- Acc. to DIN 3122, ISO 3315
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- GEDORE vanadium steel 31CrV3, polished, chrome-plated

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6143350 | **1985** | 1/2 | 12.5 | 395 | 619 | 1 |

## 1987

### SLIDING T BAR 1/2"

- Acc. to DIN 3122, ISO 3315
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- GEDORE vanadium steel 31CrV3, polished, chrome-plated

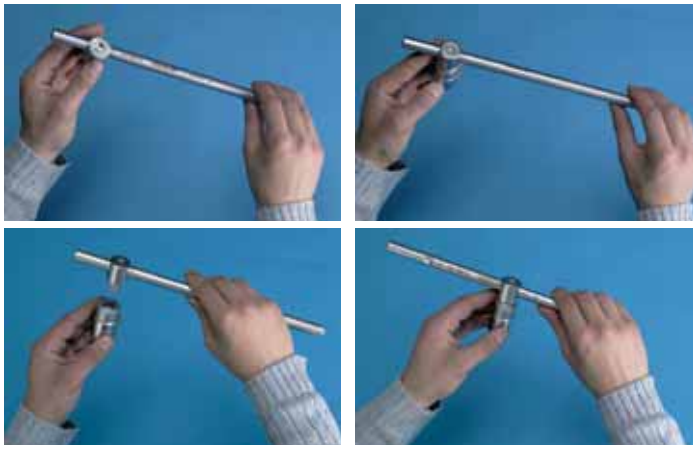
| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6143430 | **1987** | 1/2 | 12.5 | 292 | 386 | 10 |

## 1987 A

### SLIDING T BAR WITH RELEASE 1/2"

- Secured against unintentional removal
- GEDORE vanadium steel 31CrV3, polished, chrome-plated
- Turn handle for easy locking and releasing
- Accidental release when working is prevented because of the asymmetrical release point
- Particularly useful for work in sensitive areas where certainty against loss is a theme
- Examples: Aircraft engine, work in deep machine bodies
- DBGM (German utility patent)

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 1871641 | **1987 A** | 1/2 | 12.5 | 292 | 375 | 10 |





Quantities in packs may vary.

## 1990

### EXTENSION 1/2"

- Acc. to DIN 3123, ISO 3316
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- GEDORE vanadium steel 31CrV3, chrome-plated

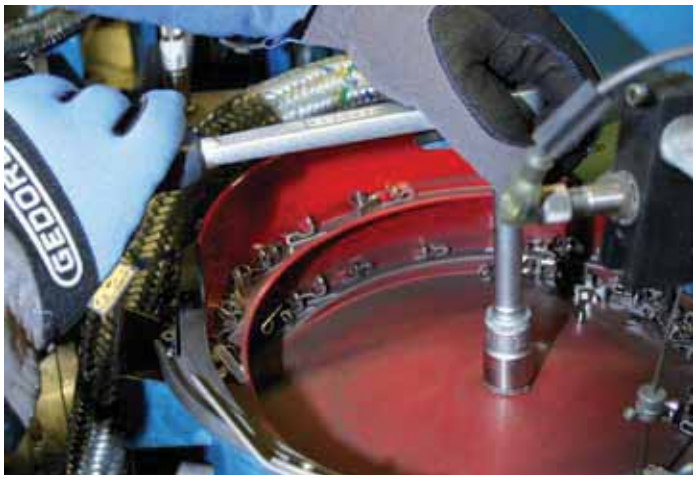
| Code | No. | * | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|---|
| 6143510 | **1990-2.1/2** | * | 1/2 | 12.5 | 63 | 115 | 10 |
| 6143780 | **1990-3** | | 1/2 | 12.5 | 76 | 137 | 10 |
| 6143860 | **1990-5** | | 1/2 | 12.5 | 125 | 188 | 10 |
| 6142890 | **1990-7** | * | 1/2 | 12.5 | 180 | 264 | 10 |
| 6143940 | **1990-10** | | 1/2 | 12.5 | 250 | 361 | 10 |
| 6129950 | **1990-12** | * | 1/2 | 12.5 | 305 | 411 | 10 |

## 1990 A

### EXTENSION 1/2" with release

- Easy access to deep-fitting screws
- Locking ring prevents unintentional release of the socket
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device

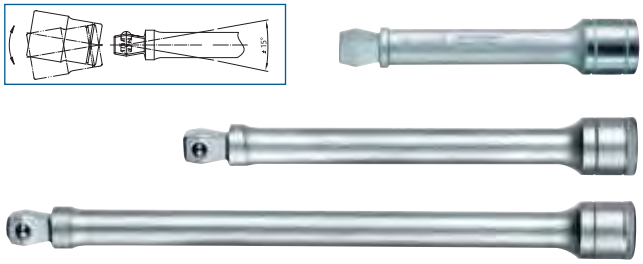
| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 1640828 | **1990 A-5** | 1/2 | 12.5 | 125 | 216 | 10 |
| 1640801 | **1990 A-10** | 1/2 | 12.5 | 250 | 386 | 1 |



## 1990 KR

### UNIVERSAL EXTENSION 1/2"

- With ball end
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- The extension is able to pivot up to 15°
- Load capacity max. 230 N·m
- GEDORE vanadium steel 31CrV3, polished, chrome-plated



| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6173180 | **1990 KR-5** | 1/2 | 12.5 | 125 | 180 | 10 |
| 6225590 | **1990 KR-7** | 1/2 | 12.5 | 180 | 255 | 10 |
| 6366570 | **1990 KR-10** | 1/2 | 12.5 | 250 | 345 | 10 |

## 1994

### COUPLER 1/2"

- Acc. to DIN 3122, ISO 3315
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- GEDORE vanadium steel 31CrV3, chrome-plated, polished

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6144670 | **1994** | 1/2 | 12.5 | 37.8 | 45 | 10 |

## 1995

### UNIVERSAL JOINT 1/2"

- Acc. to DIN 3123, ISO 3316
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- GEDORE vanadium steel 31CrV3, chrome-plated, polished

| Code | No. | ■" | ■ | □" | □ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6144750 | **1995** | 1/2 | 12.5 | 1/2 | 12.5 | 72 | 159 | 10 |

## 1996 - 1997

### SWIVEL HANDLE 1/2"

- Acc. to DIN 3122, ISO 3315
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- GEDORE vanadium steel 31CrV3, chrome-plated, polished

1996

1997

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6144830 | **1996** | 1/2 | 12.5 | 255 | 426 | 10 |
| 6144910 | **1997** | 1/2 | 12.5 | 381 | 593 | 10 |

Quantities in packs may vary.

## 1998

### SWIVEL HANDLE WITH SLIDING T 1/2"

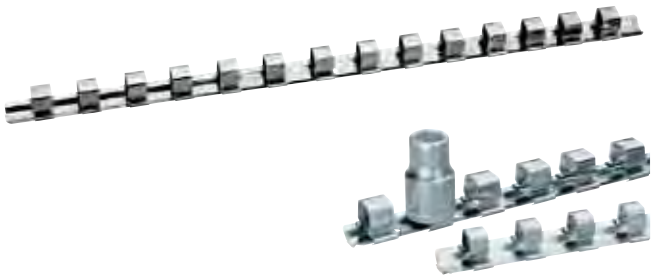
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with ball locking device
- GEDORE vanadium steel 31CrV3, chrome-plated, polished

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6199730 | **1998** | 1/2 | 12.5 | 460 | 747 | 10 |

## VH 19

### SPRING STEEL SOCKET RAIL 1/2"

- For 14 1/2" sockets
- Delivery without tools

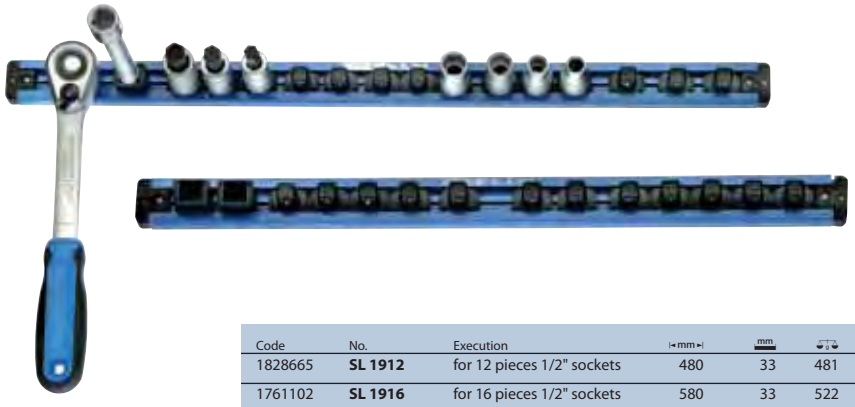


| Code | No. | | |
|---|---|---|---|
| 5162520 | **VH 19** | 65 | 1 |

## SL 19

### TOOL HOLDING RAIL, MAGNETIC 1/2" empty

- External squares to take 12 or 16 standard commercial 12.5 mm (1/2") sockets
- Two female square adaptors to take ratchets, sliding T bars, extensions etc.
- A strong magnet securely holds the socket rail to ferrous metals
- Additional holes are provided for wall mounting the socket rail or attaching to non-ferrous materials
- The sockets are securely locked by the ball at the square-drive end by turning them 90°
- It is a simple matter to "unlock" and remove the sockets, by turning them 90° in the opposing direction
- Delivery without tools



| Code | No. | Execution | mm | mm | | |
|---|---|---|---|---|---|---|
| 1828665 | **SL 1912** | for 12 pieces 1/2" sockets | 480 | 33 | 481 | 1 |
| 1761102 | **SL 1916** | for 16 pieces 1/2" sockets | 580 | 33 | 522 | 1 |

S 2032-05 183

19 V20U-10 219

Quantities in packs may vary.

## 19 SKU-20

### SOCKET SET 1/2" 14 pieces

- With forged, tempered hexagon sockets (no. 19 SK), hand-operated
- With reversible with lever change ratchet
- In GEDORIT blue sheet steel case
- Dimensions: 290 x 132 x 55 mm

| Code | No. | Ratchet | Sockets | |
|---|---|---|---|---|
| 2521563 | **19 SKU-20** | U-20 **1993** U-20 SK | **19 SK** 10 11 12 13 14 15 16 17 18 19 21 22 24 | 1 |

## 19 KMU / D 19 KMU

### SOCKET SET 1/2" 13 pieces

- With forged, tempered hexagon (no.19) or UD profile sockets (no. D 19), hand-operated
- With accessories made from GEDORE vanadium steel 31CrV
- With robust lever-change reversible ratchet, with push-button release
- In GEDORIT blue sheet steel case
- Dimensions: 290 x 132 x 55 mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 2545810 | **19 KMU-20** | U-20 **1993** U-20 | **19** 10 12 13 14 15 16 17 18 19 22 24 | **1990**-5 | 2.9 | 1 |
| 2545829 | **D 19 KMU-20** | U-20 **1993** U-20 | **D 19** 10 11 13 14 15 17 19 22 24 | **1990**-5 | 2.9 | 1 |

## 19 JMU / D 19 JMU

### SOCKET SET 1/2" 19 pieces

- With forged, tempered hexagon (no.19) or UD profile sockets (no. D 19), hand-operated
- With accessories made from GEDORE vanadium steel 31CrV
- With fine toothed, dial change ratchet
- In GEDORIT blue sheet steel case
- Dimensions: 315 x 181 x 40 mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 2682842 | **19 JMU-3** | U-3 **1993** U-3 | **19** 8 9 10 11 12 13 14 15 16 17 18 19 21 22 24 | **1990**-5 -10 **1995** | 3.7 | 1 |
| 2682850 | **D 19 JMU-3** | U-3 **1993** U-3 | **D 19** 8 9 10 11 12 13 14 15 16 17 18 19 21 22 24 | **1990**-5 -10 **1995** | 3.7 | 1 |

Quantities in packs may vary.

## 19 EMU / D 19 EMU

### SOCKET SET 1/2" 23 pieces

- With forged, tempered hexagon (no.19) or UD profile sockets (no. D 19), hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- Set U-20 with robust lever-change reversible ratchet, with push-button release
- Set U-3 with fine toothed, dial change ratchet
- In GEDORIT blue sheet steel case
- Dimensions: 425 x 277 x 55 mm

19 EMU-20

D 19 EMU-20

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 2545837 | **19 EMU-20** | U-20 **1993** U-20 | **19** 8 9 10 11 12 13 14 15 16 17 18 19 21 22 24 27 30 32 | **1987**<br>**1990**-5 -10<br>**1995** | 6.8 | 1 |
| 2545845 | **D 19 EMU-20** | U-20 **1993** U-20 | **D 19** 8 9 10 11 12 13 14 15 16 17 18 19 21 22 24 27 30 32 | **1987**<br>**1990**-5 -10<br>**1995** | 6.7 | 1 |
| 2545853 | **19 EMU-3** | U-3 **1993 U**-3 | **19** 8 9 10 11 12 13 14 15 16 17 18 19 21 22 24 27 30 32 | **1987**<br>**1990**-5 -10<br>**1995** | 6.8 | 1 |
| 2545861 | **D 19 EMU-3** | U-3 **1993 U**-3 | **D 19** 8 9 10 11 12 13 14 15 16 17 18 19 21 22 24 27 30 32 | **1987**<br>**1990**-5 -10<br>**1995** | 6.6 | 1 |

## 19 TMU / D 19 TMU

### SOCKET SET 1/2" 25 pieces

- With forged, tempered hexagon (no.19) or UD profile sockets (no. D 19), hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- With reversible with lever change ratchet, with push-button release
- In GEDORIT blue sheet steel case
- Dimensions: 425 x 277 x 55 mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 6151880 | **19 TMU-10** | U-10T **1993** U-10 T | **19** 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32 | **1985** **1987**<br>**1990**-5 -10<br>**1995** | 7.8 | 1 |
| 6151960 | **D 19 TMU-10** | U-10T **1993** U-10 T | **D 19** 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32 | **1985** **1987**<br>**1990**-5 -10<br>**1995** | 7.7 | 1 |

## 19 VMU / D 19 VMU

### SOCKET SET 1/2" 28 pieces

- With forged, tempered hexagon (no.19) or UD profile sockets (no. D 19), hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- With reversible with lever change ratchet, with push-button release
- In GEDORIT blue sheet steel case
- Dimensions: 425 x 277 x 55 mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 2682869 | **19 VMU-10** | U-10T **1993** U-10 T | **19** 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32 33 34 36 | **1987**<br>**1990**-5 -10<br>**1995** | 7.8 | 1 |
| 2682877 | **D 19 VMU-10** | U-10T **1993** U-10 T | **D 19** 10 11 12 13 14 15 16 17 18 19 21 22 23 24 26 27 28 30 32 33 34 36 | **1987**<br>**1990**-5 -10<br>**1995** | 7.8 | 1 |



Quantities in packs may vary.

## 19 LMU-10

### SOCKET SET 1/2" 31 pieces

- With forged, tempered hexagon UD profile sockets, hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- With reversible with lever change ratchet, with push-button release
- In GEDORIT blue sheet steel case
- Dimensions: 425 x 277 x 55 mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 1806033 | **19 LMU-10** | U-10T **1993** U-10 T | **19** 10 11 12 13 14 15 16 17 18 19 21 22 24 27 32 36<br>**D 19 L** 10 12 13 14 15 16 18 24<br>**K 19 LS** 17 19 21 22 | **1990**-5 -10 | 8.3 | 1 |

## 19 RMU-10

### SOCKET SET 1/2" 32 pieces

- With forged, tempered hexagon UD profile sockets, hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- With reversible with lever change ratchet, with push-button release
- In GEDORIT blue sheet steel case
- Dimensions: 425 x 277 x 55 mm

Schlüsselknarre R-Serie

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 6145210 | **19 RMU-10** | U-10T **1993** U-10 T | **19** 8 10 11 12 13 14 15 16 17 18 19 21 22 24 27 32 36<br>**7 R** 8 10 11 12 13 14 15 16 17 18 19 | **1990**-5 -10<br>**1995** | 7.7 | 1 |

## IN 19 Q

### SCREWDRIVER BIT SOCKET SET 1/2" 11 pieces

- For in-hex screws (INBUS®)
- In GEDORIT blue sheet steel case
- Dimensions: 315 x 181 x 40 mm
- INBUS® = reg. trademark of Acument GmbH & Co. OHG, 56567 Neuwied, Germany

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 6156920 | **IN 19 Q** | U-10T **1993** U-10 T | **IN 19** 5 6 7 8 9 10 12 14 17 | **1990**-10 | 3.3 | 1 |

Quantities in packs may vary.

## 19 IMU / D 19 IMU

### SOCKET SET 1/2" 27 pieces

- With forged, tempered hexagon (no.19) or UD profile sockets (no. D 19), hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- With reversible with lever change ratchet, with push-button release
- In GEDORIT blue sheet steel case
- Dimensions: 425 x 277 x 55 mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 6139750 | **19 IMU-10** | U-10T **1993** U-10T | **19** 10 11 12 13 14 15 17 19 22 24 27 30<br>**IN 19** 5 6 7 8 10 12 14<br>**IS 19** 8 10<br>**IKS 19** 2 3 | **1990**-5 -10<br>**1995** | 6.9 | 1 |
| 6140090 | **D 19 IMU-10** | U-10T **1993** U-10T | **D 19** 10 11 12 13 14 15 17 19 22 24 27 30<br>**IN 19** 5 6 7 8 10 12 14<br>**IS 19** 8 10<br>**IKS 19** 2 3 | **1990**-5 -10<br>**1995** | 6.9 | 1 |

## ITX 19 TXU-20

### SOCKET SET 1/2" 25 pieces

- For protruding and recessed TORX® screws
- In GEDORIT blue sheet steel case
- Dimensions: 425 x 277 x 55 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 2546019 | **ITX 19 TXU-20** | U-20 **1993** U-20 | **ITX 19** T20 T25 T27 T30 T40 T45 T50 T55 T60<br>**TX 19** E10 E11 E12 E14 E16 E18 E20 E24<br>**TX 4** E6xE8 E10xE12 E14xE18 E20xE24 | **1990**-5 -10<br>**1995** | 6.4 | 1 |

## ITX 19 INU-20

### SOCKET SET 1/2" 42 pieces

- For protruding and recessed TORX® screws and in-hex screws (INBUS®)
- In GEDORIT blue sheet steel case
- Dimensions: 425 x 277 x 55 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA
- INBUS® = reg. trademark of Acument GmbH & Co. OHG, 56567 Neuwied, Germany

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 2546000 | **ITX 19 INU-20** | U-20 **1993** U-20 | **19** 10 11 12 13 14 15 16 17 18 19 21 22 24 27 30 32<br>**IN 19** 5 6 7 8 9 10 12 14 17<br>**TX 19** E10 E12 E14 E16 E18 E20 E24<br>**ITX 19** T20 T25 T27 T30 T40 T45 T50 T55 T60 | **1990 KR**-10 | 8.2 | 1 |



Quantities in packs may vary.

## 19 V20U-10

### SOCKET SET 1/4"-1/2" 50 pieces

- With forged, tempered hexagon or UD profile sockets, hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- 1/4" with fine toothed, dial change ratchet U-3
- 1/2" with reversible lever change ratchet U-10 T
- In GEDORIT blue sheet steel case
- Dimensions: 425 x 277 x 55 mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 6157490 | **19 V20U-10** | U-10T **1993** U-10 T<br>U-3 **2093** U-3 | **19** 10 11 12 13 14 15 17 19 22 24 27 30<br>**IN 19** 7 8 10 12 14<br>**IS 19** 8 10 **IKS 19** 3<br>**20** 4 4,5 5 5,5 6 7 8 9 10 11 13<br>**IN 20** 3 4 5 6<br>**IS 20** 4 5,5 6,5<br>**IKS 20** 1 2 | **1990**-5 -10<br>**1995**<br>**2098**<br>**2090**-2 -4<br>**2087**<br>**2095** | 7.2 | 1 |

## 19 V20U-20

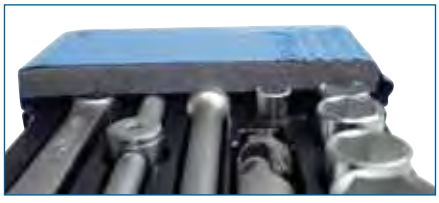
### SOCKET SET 1/4"-1/2" 81 pieces

- With forged, tempered hexagon or UD profile sockets, hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- With robust lever-change reversible ratchet, with push-button release
- In GEDORIT blue sheet steel case
- Dimensions: 425 x 277 x 55 mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 1550691 | **19 V20U-20** | U-20 **1993 U**-20<br>U-20 **2093 U**-20 | **19** 10 11 12 13 14 15 16 17 18 19 21 22 24 27 30 32 36<br>**D 20** 4 5 5,5 6 7 8 9 10 11 12 13<br>**680** 4 4,5 5,5 6,5 **685** 2 2,5 3 4 5 6 8<br>**685 X** 5 6 8<br>**687 TX** T10 T15 T20 T25 T27 T30 T40<br>**690** 1 2 3<br>**690 PZD** 1 2 3<br>**885** 3 4 5 6 8 10<br>**885 X** 5 6 8 10 12<br>**887 TX** T27 T30 T40 T45 T50 | **1990 KR**-5 -10<br>**2090**-4<br>**2095**<br>**620**<br>**676**<br>**699**<br>**KB 819** | 7.4 | 1 |

## THE GEDORE SOCKET SET

- Innovative, functional design
- Sheet steel case - inside-folded, seamless edge provides added strength. The tool and foam inserts are secured to prevent them being lost
- ABS plastic tool insert, resistant to oils and greases
- Tool insert with the socket sizes permanently laser marked
- With the lid closed, the tools sit securely in their pockets
- Boxes designed so that they can be stacked easily
- Large, rounded fasteners can be opened and closed even when the user is wearing gloves
- Contoured carry handle ensures comfortable carrying even for long periods
- Environmentally-friendly powder-coated in GEDORIT blue



Quantities in packs may vary.

## D 19 L-015

### SOCKET SET 1/2" 15 pieces

- With forged, tempered UD profile sockets, hand-operated
- In GEDORIT blue sheet steel case
- Dimensions: 320 x 210 x 55 mm

| Code | No. | Sockets | | |
|---|---|---|---|---|
| 2190214 | **D 19 L-015** | **D 19 L** 10 12 13 14 15 16 17 18 19 21 22 24 27 30 32 | 4.3 | 1 |

## IN 19 LKM

### SCREWDRIVER BIT SOCKET SET 1/2" 15 pieces

- For in-hex screws (INBUS®), short and long
- In GEDORIT blue sheet steel case
- Dimensions: 320 x 210 x 55 mm
- INBUS® = reg. trademark of Acument GmbH & Co. OHG, 56567 Neuwied

| Code | No. | Sockets | | |
|---|---|---|---|---|
| 6129360 | **IN 19 LKM** | **IN 19** 5 6 7 8 9 10 12 14 17<br>**IN 19 L** 5-90 6-90 8-90 10-140 12-140 14-140 | 2.8 | 1 |

## IN 19 PM

### SCREWDRIVER BIT SOCKET SET 1/2" 9 pieces

- For in-hex screws (INBUS®)
- In GEDORIT blue sheet steel case
- Dimensions: 281 x 79 x 35 mm
- INBUS® = reg. trademark of Acument GmbH & Co. OHG, 56567 Neuwied, Germany

| Code | No. | Sockets | | |
|---|---|---|---|---|
| 6156250 | **IN 19 PM** | **IN 19** 5 6 7 8 9 10 12 14 17 | 1362 | 1 |

## INX 19 PM

### SCREWDRIVER BIT SOCKET SET 1/2" 9 pieces

- For slotted, cross-head and multi-point screws
- In GEDORIT blue sheet steel case
- Dimensions: 281 x 79 x 35 mm

| Code | No. | Sockets | | |
|---|---|---|---|---|
| 6150050 | **INX 19 PM** | **INX 19** 5 6 8 10 12<br>**IKS 19** 2 3<br>**IS 19** 12 16 | 1.3 | 1 |



Quantities in packs may vary.

## ITX 19 PM / ITX 19 B-PM

### SCREWDRIVER BIT SOCKET SET 1/2" 9 pieces

- ITX 19 PM: for recessed TORX® head screws
- ITX 19 B-PM: for recessed TORX® head screws with pilot
- In GEDORIT blue sheet steel case
- Dimensions: 281 x 79 x 35 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Sockets | | |
|---|---|---|---|---|
| 6158970 | **ITX 19 PM** | **ITX 19** T20 T25 T27 T30 T40 T45 T50 T55 T60 | 1.2 | 1 |
| 1394894 | **ITX 19 B-PM** | **ITX 19 B** T20 T25 T27 T30 T40 T45 T50 T55 T60 | 1.3 | 1 |

## TX 19 E-09

### SOCKET SET 1/2" 9 pieces

- For protruding TORX® screws
- In plastic case
- Dimensions: 200 x 120 x 38 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Sockets | | |
|---|---|---|---|---|
| 6265970 | **TX 19 E-09** | **TX 19** E10 E11 E12 E14 E16 E18 E20 E24<br>**3019** | 1.0 | 1 |

## ITX 19 TX-017

### SCREWDRIVER BIT SOCKET SET 1/2" 17 pieces

- For protruding and recessed TORX® screws
- In GEDORIT blue sheet steel case
- Dimensions: 320 x 210 x 55 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Sockets | | |
|---|---|---|---|---|
| 6129520 | **ITX 19 TX-017** | **ITX 19** T20 T25 T27 T30 T40 T45 T50 T55 T60<br>**TX 19** E10 E11 E12 E14 E16 E18 E20 E24 | 2.0 | 1 |

## ITX 19 LKP

### SCREWDRIVER BIT SOCKET SET 1/2" 18 pieces

- For recessed TORX® screws, short and long
- In GEDORIT blue sheet steel case
- Dimensions: 320 x 210 x 55 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Sockets | | |
|---|---|---|---|---|
| 6138510 | **ITX 19 LKP** | **ITX 19** T20 T25 T27 T30 T40 T45 T50 T55 T60<br>**ITX 19 L** T20 T25 T27 T30 T40 T45 T50 T55 T60 | 2.9 | 1 |

Quantities in packs may vary.

## ITX 19-20-30 T

### SCREWDRIVER BIT SOCKET SET 1/2" 10 pieces

- 1/4", 3/8" and 1/2" sockets for recessed TORX® screws
- In plastic case
- Dimensions: 200 x 120 x 38 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Sockets | | |
|---|---|---|---|---|
| 6173500 | **ITX 19-20-30 T** | **ITX 20** T8 T10 T15<br>**ITX 30** T20 T25 T30<br>**ITX 19** T40 T50 T55 T60 | 0.8 | 1 |

## 19 TX 20

### SCREWDRIVER BIT SOCKET SET 1/2" + 1/4" 34 pieces

- 1/4" and 1/2" sockets for protruding and recessed TORX® screws
- In GEDORIT blue sheet steel case
- Dimensions: 320 x 210 x 55 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Sockets | | |
|---|---|---|---|---|
| 6129440 | **19 TX 20** | **ITX 19** T40 T45 T50 T55 T60<br>**ITX 19 L** T20 T25 T27 T30 T40 T45 T50 T55 T60<br>**TX 19** E12 E14 E16 E18 E20 E24<br>**ITX 20** T8 T9 T10 T15 T20 T25 T27 T30<br>**TX 20** E4 E5 E6 E7 E8 E10 | 3.2 | 1 |

# SETS 12.5 (1/2") INCH

## D 19 WAU-20

### SOCKET SET 1/2" 24 pieces

- With forged, tempered UD profile sockets, hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- With robust lever-change reversible ratchet, with push-button release
- In GEDORIT blue sheet steel case
- Dimensions: 425 x 277 x 55 mm

| Code | No. | Ratchet | Sockets | Accessories | |
|---|---|---|---|---|---|
| 2546027 | **D 19 WAU-20** | U-20 **1993** U-20 | **D 19** 5/16 11/32 3/8 13/32 7/16 1/2 9/16 19/32 5/8 11/16 3/4 25/32 13/16 7/8 15/16 1" 1.1/16 1.1/8 1.3/16 1.1/4" **H 42 EL**-88 A | **1990**-5 -10<br>**1995** | 1 |

## IN 19 PA

### SCREWDRIVER BIT SOCKET SET 1/2" 9 pieces

- For in-hex screws (INBUS®)
- In GEDORIT blue sheet steel case
- Dimensions: 290 x 132 x 55 mm
- INBUS® = reg. trademark of Acument GmbH & Co. OHG, 56567 Neuwied, Germany

| Code | No. | Sockets | | |
|---|---|---|---|---|
| 6156410 | **IN 19 PA** | **IN 19** 3/16 7/32 1/4 9/32 5/16 3/8 1/2 9/16 5/8" | 1328 | 1 |



Quantities in packs may vary.

## SETS 12.5 (1/2") MM+INCH

### D 19 XMAU-20

**SOCKET SET 1/2" 31 pieces**

- With forged, tempered UD profile sockets, hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- With robust lever-change reversible ratchet, with push-button release
- In GEDORIT blue sheet steel case
- Dimensions: 425 x 277 x 55 mm

mm
"AF

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 2546043 | **D 19 XMAU-20** | U-20 **1993** U-20 | **D 19** 11 13 14 17 19 22 24 27 30 32<br>**D 19** 3/8 13/32 7/16 1/2 9/16 19/32 5/8 11/16 3/4 25/32 13/16 7/8 15/16 1" 1.1/16 1.1/8" | **1987**<br>**1990**-5 -10<br>**1995** | 7.6 | 1 |

## SETS 12.5 (1/2") WITHWORTH

### D 19 YWU-20

**SOCKET SET 1/2" 14 pieces**

- With forged, tempered bi-hexagon sockets, hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- With robust lever-change reversible ratchet, with push-button release
- In GEDORIT blue sheet steel case
- Dimensions: 320 x 210 x 55 mm

Whitw.

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 2546035 | **D 19 YWU-20** | U-20 **1993** U-20 | **D 19** 3/16 1/4 5/16 3/8 7/16 1/2 9/16 5/8 11/16 3/4W | **1990**-5 -10<br>**1995** | 3.8 | 1 |

Quantities in packs may vary.

# 20 (3/4") SQUARE DRIVE

## RATCHETS 20 (3/4")

### 3293 U-10

**REVERSIBLE RATCHET 3/4"**

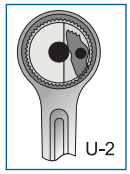
- Acc. to DIN 3122, ISO 3315
- With lever change, locks in middle position
- Push-fit tube handle
- For hand-operated sockets and accessories with square drive as per DIN 3120 - D 20, ISO 1174 with locking pin
- GEDORE vanadium steel 31CrV3, chrome-plated

| Code | No. | ■" | ■ | ∠° | mm | | | |
|---|---|---|---|---|---|---|---|---|
| 6277980 | **3293 U-10** | 3/4 | 20 | 11,25 | 620 | 57.5 | 2630 | 1 |

### 3293 U-2

**REVERSIBLE RATCHET 3/4"**

- Acc. to DIN 3122, ISO 3315
- With disc change, fine-toothed and robust
- For hand-operated sockets and accessories with square drive as per DIN 3120 - D 20, ISO 1174 with locking pin
- GEDORE vanadium steel 31CrV3, chrome-plated

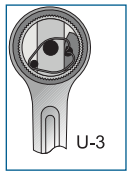



| Code | No. | ■" | ■ | ∠° | mm | | | |
|---|---|---|---|---|---|---|---|---|
| 6278600 | **3293 U-2** | 3/4 | 20 | 7,2 | 510 | 60 | 1435 | 1 |

### 3293 U-3

**REVERSIBLE RATCHET 3/4"**

- Acc. to DIN 3122, ISO 3315
- With non-slip metal disc change, fine-toothed and robust
- Push-fit tube handle
- For hand-operated sockets and accessories with square drive as per DIN 3120 - D 20, ISO 1174, with locking pin
- GEDORE vanadium steel 31CrV3, chrome-plated




| Code | No. | ■" | ■ | ∠° | mm | | | |
|---|---|---|---|---|---|---|---|---|
| 6278790 | **3293 U-3** | 3/4 | 20 | 5 | 620 | 62.5 | 2610 | 1 |

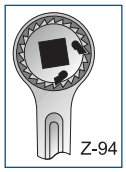


Quantities in packs may vary.

## 3293 Z-94

### RATCHET HANDLE WITH COUPLER 3/4"

- Acc. to DIN 3122, ISO 3315
- With square coupler, medium-fine toothed, extremely rugged
- For hand-operated sockets and accessories with square drive as per DIN 3120 - D 20, ISO 1174 with locking pin
- GEDORE vanadium steel 31CrV3, chrome-plated




| Code | No. | ■" | ■ | ∠° | ⟷mm⟷ | ⟷ | ⚖ | ⊞ |
|---|---|---|---|---|---|---|---|---|
| 6278950 | **3293 Z-94** | 3/4 | 20 | 10 | 510 | 31.0 | 1301 | 1 |

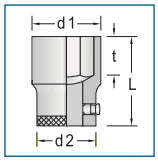
## SOCKETS 20 (3/4")

| 3/4" | mm UNIT DRIVE hexagon | mm UNIT DRIVE bi-hexagon | 7/AF UNIT DRIVE bi-hexagon | 7/AF UNIT DRIVE hexagon | Whitw. UNIT DRIVE bi-hexagon | mm Hexagon - external | 7/AF Hexagon - external | Whitw. Hexagon - external | mm Internal hexagon | Internal TORX® | Internal TORX® with pin | External TORX® | Internal serrations XZN | Slot | Cruciform PH | Cruciform PZ | Internal TORX PLUS® | Internal TORX® with ball end | Internal hexagon with ball end | 7/AF Internal hexagon |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ● | ● | ● | | | | | | ● | ● | | | | | | | | | | |

## 32

### SOCKET 3/4" hexagon UD profile

- Acc. to DIN 3124, ISO 2725-1
- Square drive as per DIN 3120 - D 20, ISO 1174, with locking pin
- Hand-operated, knurled grip
- GEDORE vanadium steel 31CrV3, chrome-plated, polished
- * not standardised



| Code | No. | * | mm | L | $d_1$ | $d_2$ | t | ⚖ | ⊞ |
|---|---|---|---|---|---|---|---|---|---|
| 6269880 | **32 18** | * | 18 | 51.5 | 28.3 | 36.0 | 19.0 | 219 | 1 |
| 6270110 | **32 19** | * | 19 | 51.5 | 29.6 | 36.0 | 19.0 | 225 | 1 |
| 6269960 | **32 21** | | 21 | 51.5 | 32.0 | 36.0 | 19.0 | 228 | 1 |
| 6270380 | **32 22** | | 22 | 51.5 | 33.3 | 36.0 | 19.0 | 232 | 1 |
| 6270460 | **32 24** | | 24 | 51.5 | 35.8 | 38.0 | 19.5 | 267 | 1 |
| 6270540 | **32 27** | | 27 | 54.5 | 39.6 | 36.0 | 24.0 | 271 | 1 |
| 6270620 | **32 29** | * | 29 | 54.5 | 42.0 | 36.0 | 23.5 | 281 | 1 |
| 6270700 | **32 30** | | 30 | 57.5 | 43.3 | 38.0 | 26.0 | 331 | 1 |
| 6270890 | **32 32** | | 32 | 57.5 | 45.8 | 38.0 | 27.0 | 345 | 1 |

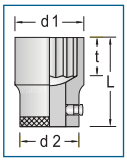
| Code | No. | * | mm | L | $d_1$ | $d_2$ | t | ⚖ | ⊞ |
|---|---|---|---|---|---|---|---|---|---|
| 6270030 | **32 33** | * | 33 | 57.5 | 47.0 | 40.0 | 26.5 | 392 | 1 |
| 6279410 | **32 34** | | 34 | 57.5 | 48.3 | 40.0 | 26.5 | 404 | 1 |
| 6270970 | **32 36** | | 36 | 59.5 | 50.8 | 40.0 | 28.0 | 448 | 1 |
| 6271000 | **32 38** | * | 38 | 59.5 | 53.3 | 40.5 | 28.0 | 476 | 1 |
| 6271190 | **32 41** | | 41 | 62.5 | 57.1 | 44.0 | 30.5 | 593 | 1 |
| 6271270 | **32 46** | | 46 | 65.5 | 63.3 | 44.0 | 32.5 | 700 | 1 |
| 6271350 | **32 50** | | 50 | 68.5 | 68.3 | 48.0 | 34.5 | 848 | 1 |
| 6271430 | **32 55** | | 55 | 68.5 | 74.6 | 53.0 | 33.0 | 1008 | 1 |
| 6271510 | **32 60** | | 60 | 68.5 | 80.8 | 53.0 | 33.0 | 1143 | 1 |

Quantities in packs may vary.

## D 32

### SOCKET 3/4" bi-hexagon UD profile

- Acc. to DIN 3124, ISO 2725-1
- Square drive as per DIN 3120 - D 20, ISO 1174, with locking pin
- Hand-operated, knurled grip
- GEDORE vanadium steel 31CrV3, chrome-plated, polished
- * not standardised



mm

| Code | No. | * | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|---|
| 6289720 | **D 32 18** | * | 18 | 51.5 | 28.3 | 36.0 | 19.0 | 211 | 1 |
| 6272160 | **D 32 19** | * | 19 | 51.5 | 29.6 | 36.0 | 19.0 | 221 | 1 |
| 6289800 | **D 32 21** | | 21 | 51.5 | 32.0 | 36.0 | 19.0 | 223 | 1 |
| 6272240 | **D 32 22** | | 22 | 51.5 | 33.3 | 36.0 | 19.0 | 227 | 1 |
| 6272320 | **D 32 24** | | 24 | 51.5 | 35.8 | 38.0 | 19.5 | 257 | 1 |
| 6272400 | **D 32 27** | | 27 | 54.5 | 39.6 | 36.0 | 24.0 | 255 | 1 |
| 6272590 | **D 32 29** | * | 29 | 54.5 | 42.0 | 36.0 | 23.5 | 272 | 1 |
| 6272670 | **D 32 30** | | 30 | 57.5 | 43.3 | 38.0 | 26.0 | 319 | 1 |
| 6272750 | **D 32 32** | | 32 | 57.5 | 45.8 | 38.0 | 27.0 | 332 | 1 |
| 6277040 | **D 32 33** | * | 33 | 57.5 | 47.0 | 40.0 | 26.5 | 358 | 1 |
| 6272830 | **D 32 36** | | 36 | 59.5 | 50.8 | 40.0 | 28.0 | 418 | 1 |
| 6272910 | **D 32 38** | * | 38 | 59.5 | 53.3 | 40.5 | 28.0 | 441 | 1 |
| 6273050 | **D 32 41** | | 41 | 62.5 | 57.1 | 44.0 | 30.5 | 558 | 1 |
| 6273130 | **D 32 46** | | 46 | 65.5 | 63.3 | 44.0 | 32.5 | 641 | 1 |
| 6273210 | **D 32 50** | | 50 | 68.5 | 68.3 | 48.0 | 34.5 | 800 | 1 |
| 6273480 | **D 32 55** | | 55 | 68.5 | 74.6 | 53.0 | 33.0 | 961 | 1 |
| 6273560 | **D 32 60** | | 60 | 68.5 | 80.8 | 53.0 | 33.0 | 1052 | 1 |

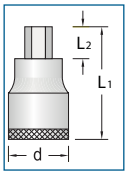
"AF

| Code | No. | "AF | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 6274020 | **D 32 7/8AF** | 7/8 | 51.5 | 33.6 | 36.0 | 19.0 | 227 | 1 |
| 6274100 | **D 32 15/16AF** | 15/16 | 51.5 | 35.6 | 38.0 | 19.5 | 262 | 1 |
| 6274290 | **D 32 1AF** | 1 | 51.5 | 37.6 | 36.0 | 22.0 | 229 | 1 |
| 6274370 | **D 32 1.1/16AF** | 1.1/16 | 54.5 | 39.6 | 36.0 | 24.0 | 256 | 1 |
| 6274450 | **D 32 1.1/8AF** | 1.1/8 | 54.5 | 41.5 | 36.0 | 24.0 | 268 | 1 |
| 6274530 | **D 32 1.1/4AF** | 1.1/4 | 57.5 | 45.5 | 38.0 | 27.0 | 333 | 1 |
| 6274610 | **D 32 1.5/16AF** | 1.5/16 | 57.5 | 47.5 | 40.0 | 26.5 | 377 | 1 |
| 6274880 | **D 32 1.3/8AF** | 1.3/8 | 59.5 | 49.5 | 40.0 | 28.0 | 407 | 1 |
| 6274960 | **D 32 1.7/16AF** | 1.7/16 | 59.5 | 51.4 | 40.0 | 28.0 | 413 | 1 |
| 6275180 | **D 32 1.1/2AF** | 1.1/2 | 59.5 | 53.3 | 40.5 | 28.0 | 431 | 1 |
| 6275260 | **D 32 1.5/8AF** | 1.5/8 | 62.5 | 57.4 | 44.0 | 30.5 | 539 | 1 |
| 6275340 | **D 32 1.11/16AF** | 1.11/16 | 62.5 | 59.4 | 44.0 | 30.5 | 568 | 1 |
| 6275420 | **D 32 1.3/4AF** | 1.3/4 | 65.5 | 61.4 | 44.0 | 32.5 | 627 | 1 |
| 6275500 | **D 32 1.13/16AF** | 1.13/16 | 65.5 | 63.3 | 44.0 | 32.5 | 637 | 1 |
| 6275690 | **D 32 1.7/8AF** | 1.7/8 | 65.5 | 65.3 | 44.0 | 32.5 | 664 | 1 |
| 6275770 | **D 32 2AF** | 2 | 68.5 | 69.2 | 48.0 | 34.5 | 811 | 1 |

## IN 32

### SCREWDRIVER BIT SOCKET 3/4" for in-hex screws

- Acc. to DIN 7422
- Square drive as per DIN 3120 - D 20, ISO 1174, with locking pin
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated

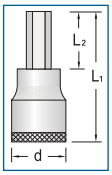


| Code | No. | mm | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|
| 6275850 | **IN 32 14** | 14 | 80 | 25.5 | 38 | 352 | 1 |
| 6275930 | **IN 32 17** | 17 | 80 | 25.5 | 38 | 394 | 1 |
| 6276070 | **IN 32 19** | 19 | 80 | 25.5 | 38 | 433 | 1 |
| 6276150 | **IN 32 22** | 22 | 80 | 25.5 | 38 | 482 | 1 |

## IN 32 L

### SCREWDRIVER BIT SOCKET 3/4" for in-hex screws, long pattern

- Acc. to DIN 7422
- Square drive as per DIN 3120 - D 20, ISO 1174, with locking pin
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated

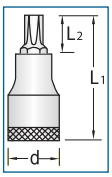


| Code | No. | mm | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|
| 2003503 | **IN 32 L 14-155** | 14 | 155 | 100 | 38 | 452 | 1 |
| 1353705 | **IN 32 L 17-155** | 17 | 155 | 100 | 38 | 540 | 1 |
| 2003511 | **IN 32 L 19-155** | 19 | 155 | 100 | 38 | | 1 |
| 2003538 | **IN 32 L 22-155** | 22 | 155 | 100 | 38 | | 1 |

## ITX 32

### SCREWDRIVER BIT SOCKET 3/4" for recessed TORX® head screws

- Square drive as per DIN 3120 - D 20, ISO 1174, with locking pin
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, gun-metal finish
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



| Code | No. | | M | mm | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|---|
| 6271780 | **ITX 32 T60** | T60 | M14 | 13.25 | 80 | 25.5 | 38 | 346 | 1 |
| 6272080 | **ITX 32 T70** | T70 | M16 | 15.55 | 80 | 25.5 | 38 | 383 | 1 |
| 6273640 | **ITX 32 T80** | T80 | M18 | 17.58 | 80 | 25.5 | 38 | 416 | 1 |
| 6276230 | **ITX 32 T90** | T90 | M20 | 19.95 | 80 | 25.5 | 38 | 455 | 1 |
| 6276310 | **ITX 32 T100** | T100 | M22 | 21.16 | 80 | 25.5 | 38 | 461 | 1 |



Quantities in packs may vary.

K 32

239

## ACCESSORIES 20 (3/4")

### 3219

**REDUCER 3/4" TO 1/2"**

- Acc. to DIN 3123, ISO 3316
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with locking pin
- GEDORE vanadium steel 31CrV3, chrome-plated

| Code | No. | □" | □ | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6278010 | **3219** | 3/4 | 20 | 1/2 | 12.5 | 56 | 168 | 1 |

### 3221

**CONVERTOR 3/4" TO 1"**

- Acc. to DIN 3123, ISO 3316
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with locking pin
- GEDORE vanadium steel 31CrV3, chrome-plated

| Code | No. | □" | □ | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6278280 | **3221** | 3/4 | 20 | 1 | 25 | 60 | 337 | 1 |

### 3287

**SLIDING T BAR 3/4"**

- Acc. to DIN 3122, ISO 3315
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with locking pin
- GEDORE vanadium steel 31CrV3, chrome-plated

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6278360 | **3287** | 3/4 | 20 | 500 | 1161 | 1 |

### 3290

**EXTENSION 3/4"**

- Acc. to DIN 3123, ISO 3316
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with locking pin
- GEDORE vanadium steel 31CrV3, chrome-plated

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6278440 | **3290-8** | 3/4 | 20 | 200 | 574 | 1 |
| 6278520 | **3290-16** | 3/4 | 20 | 400 | 1079 | 1 |

### 3294

**COUPLER 3/4"**

- Acc. to DIN 3122, ISO 3315
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with locking pin
- GEDORE vanadium steel 31CrV3, chrome-plated

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6279090 | **3294** | 3/4 | 20 | 51.5 | 133 | 1 |

### 3295

**UNIVERSAL JOINT 3/4"**

- Acc. to DIN 3123, ISO 3316
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with locking pin
- GEDORE vanadium steel 31CrV3, chrome-plated

| Code | No. | ■" | ■ | □" | □ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6279170 | **3295** | 3/4 | 20 | 3/4 | 20 | 108 | 580 | 1 |

### 3296

**SWIVEL HANDLE 3/4"**

- Acc. to DIN 3122, ISO 3315
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with locking pin
- GEDORE vanadium steel 31CrV3, chrome-plated

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6279250 | **3296** | 3/4 | 20 | 547 | 1965 | 1 |

Quantities in packs may vary.

# SETS 20 (3/4") METRIC

3/4

## 32 EM / D 32 EM

### SOCKET SET 3/4" 14 pieces

- With forged, tempered hexagon (no.32) or UD profile sockets (no. D 32), hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- Set U-2 with fine toothed, dial change ratchet
- Set Z-94 with ratchet with square coupler
- In GEDORIT blue sheet steel case
- Dimensions: 525 x 203 x 73 mm

3/4 | UNIT DRIVE | UNIT DRIVE

mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 6280180 | **32 EMZ** | Z-94 **3293** Z-94 | **32** 22 24 27 30 32 36 38 41 46 50 | **3287** **3290**-8 -16 | 11.4 | 1 |
| 6280340 | **32 EMU-2** | U-2 **3293** U-2 | **32** 22 24 27 30 32 36 38 41 46 50 | **3287** **3290**-8 -16 | 11.6 | 1 |
| 6280260 | **D 32 EMZ** | Z-94 **3293** Z-94 | **D 32** 22 24 27 30 32 36 38 41 46 50 | **3287** **3290**-8 -16 | 11.2 | 1 |
| 6280420 | **D 32 EMU-2** | U-2 **3293** U-2 | **D 32** 22 24 27 30 32 36 38 41 46 50 | **3287** **3290**-8 -16 | 11.1 | 1 |

## 32 FM / D 32 FM

### SOCKET SET 3/4" 16 pieces

- With forged, tempered hexagon, bi-hexagon (no.32) or UD profile sockets (no. D 32), hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- Set U-2 with fine toothed, dial change ratchet
- Set Z-94 with ratchet with square coupler
- In GEDORIT blue sheet steel case
- Dimensions: 555 x 230 x 80 mm

3/4 | UNIT DRIVE | UNIT DRIVE

mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 6280930 | **32 FMZ** | Z-94 **3293** Z-94 | **32** 22 24 27 30 32 36 38 41 46 50 55 60 | **3287** **3290**-8 -16 | 15.6 | 1 |
| 6281150 | **32 FMU-2** | U-2 **3293** U-2 | **32** 22 24 27 30 32 36 38 41 46 50 55 60 | **3287** **3290**-8 -16 | 15.8 | 1 |
| 6281070 | **D 32 FMZ** | Z-94 **3293** Z-94 | **D 32** 22 24 27 30 32 36 38 41 46 50 55 60 | **3287** **3290**-8 -16 | 15.1 | 1 |
| 6281230 | **D 32 FMU-2** | U-2 **3293** U-2 | **D 32** 22 24 27 30 32 36 38 41 46 50 55 60 | **3287** **3290**-8 -16 | 15.2 | 1 |

8563-30 D

266

Quantities in packs may vary.

# SETS 20 (3/4") INCH

## D 32 EA

### SOCKET SET 3/4" 14 pieces

- With forged, tempered bi-hexagon UD profile sockets, hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- Set U-2 with fine toothed, dial change ratchet
- Set Z-94 with ratchet with square coupler
- In GEDORIT blue sheet steel case
- Dimensions: 525 x 203 x 73 mm

3/4" UNIDRIVE

"AF

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 6280500 | **D 32 EAZ** | Z-94 **3293** Z-94 | **D 32** 15/16 1.1/16 1.1/8 1.1/4 1.5/16 1.3/8 1.1/2 1.5/8 1.7/8 2" | **3287**<br>**3290**-8 -16 | 11.3 | 1 |
| 6280690 | **D 32 EAU-2** | U-2 **3293** U-2 | **D 32** 15/16 1.1/16 1.1/8 1.1/4 1.5/16 1.3/8 1.1/2 1.5/8 1.7/8 2" | **3287**<br>**3290**-8 -16 | 11.3 | 1 |

# SETS 20 MM (3/4") MM+INCH

## D 32 EMAU-2

### SOCKET SET 3/4" 25 pieces

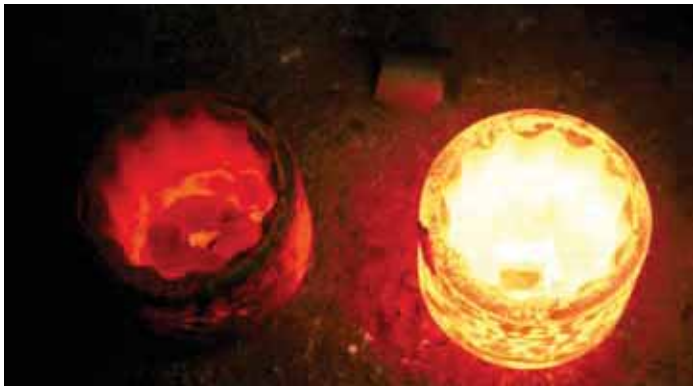
- With forged, tempered bi-hexagon UD profile sockets, hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- With fine toothed, dial change ratchet
- In GEDORIT blue sheet steel case
- Dimensions: 660 x 230 x 80 mm

3/4" UNIDRIVE

mm
"AF

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 6281310 | **D 32 EMAU-2** | U-2 **3293** U-2 | **D 32** 22 24 27 30 32 36 41 46 50<br>**D 32** 7/8 15/16 1" 1.1/16 1.1/8 1.1/4 1.5/16 1.3/8 1.1/2 1.11/16 1.7/8 2" | **3287**<br>**3290**-8 -16 | 18.2 | 1 |

8563-10 D
264



Quantities in packs may vary.

# 25 (1") SQUARE DRIVE

1" 1"

## RATCHETS 25 (1")

### 2193 U-10

**REVERSIBLE RATCHET 1"**

- Acc. to DIN 3122, ISO 3315
- With lever change, locks in middle position
- Push-fit bar handle no. 2187 G
- For hand-operated sockets and accessories with square drive as per DIN 3120 - D 25, ISO 1174 with locking pin
- GEDORE vanadium steel 31CrV3, chrome-plated

1"

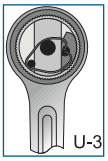
| Code | No. | Execution | ■" | ■ | ∠° | ⟷mm⟷ | ⟷ | | |
|---|---|---|---|---|---|---|---|---|---|
| 6180550 | **2193 U-10** | complete | 1 | 25 | 11,25 | 810 | 61.5 | 5210 | 1 |
| 6196120 | **2193 U-10 K** | head only | 1 | 25 | | 184 | 61.5 | 1980 | 1 |
| 6195900 | **2187 G** | tommy bar | | | | 700 | | 3275 | 1 |

### 2193 U-3

**REVERSIBLE RATCHET 1"**

- Acc. to DIN 3122, ISO 3315
- With non-slip metal disc change, fine-toothed and robust
- Push-fit tube handle
- For hand-operated sockets and accessories with square drive as per DIN 3120 - D 25, ISO 1174, with locking pin
- GEDORE vanadium steel 31CrV3, chrome-plated

1"



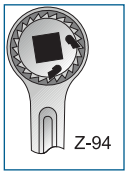

| Code | No. | Execution | ■" | ■ | ∠° | ⟷mm⟷ | ⟷ | | |
|---|---|---|---|---|---|---|---|---|---|
| 6180630 | **2193 U-3** | complete | 1 | 25 | 5 | 720 | 76 | 4160 | 1 |
| 1637487 | **2193 U-3 K** | head only | 1 | 25 | | | | 2000 | 1 |
| 1382500 | **2193 Z/17** | tube | | | | | | 2175 | 1 |

### 2193 Z-94

**RATCHET HANDLE WITH COUPLER 1"**

- Acc. to DIN 3122, ISO 3315
- With square coupler, medium-fine toothed, extremely rugged
- Push-fit tube handle
- For hand-operated sockets and accessories with square drive as per DIN 3120 - D 25, ISO 1174 with locking pin
- GEDORE vanadium steel 31CrV3, chrome-plated

1"




| Code | No. | Execution | ■" | ■ | ∠° | ⟷mm⟷ | ⟷ | | |
|---|---|---|---|---|---|---|---|---|---|
| 6181520 | **2193 Z-94** | complete | 1 | 25 | 9 | 720 | 41 | 4115 | 1 |
| 1493779 | **2193 Z K** | head only | 1 | 25 | | | | 1175 | 1 |
| 1382500 | **2193 Z/17** | tube | | | | | | 2175 | 1 |



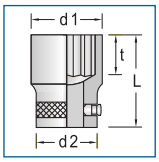
Quantities in packs may vary.

# SOCKETS 25 (1")

## D 21

### SOCKET 1" bi-hexagon UD profile

- Acc. to DIN 3124, ISO 2725-1
- Square drive as per DIN 3120 - D 25, ISO 1174, with locking pin
- Hand-operated, knurled grip
- GEDORE vanadium steel 31CrV3, chrome-plated
- * not standardised



mm

| Code | No. | * | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|---|
| 6174900 | **D 21 36** | * | 36 | 70.0 | 53.9 | 48.0 | 30.0 | 600 | 1 |
| 6175040 | **D 21 41** | | 41 | 70.0 | 60.1 | 50.0 | 30.5 | 688 | 1 |
| 6175120 | **D 21 46** | | 46 | 75.0 | 66.4 | 50.0 | 33.5 | 842 | 1 |
| 6175200 | **D 21 50** | | 50 | 75.0 | 71.4 | 50.0 | 35.0 | 908 | 1 |
| 6175390 | **D 21 55** | | 55 | 80.0 | 77.6 | 50.0 | 37.5 | 1129 | 1 |
| 6175470 | **D 21 60** | | 60 | 85.0 | 83.9 | 50.0 | 41.0 | 1376 | 1 |
| 6175550 | **D 21 65** | | 65 | 88.0 | 90.1 | 59.5 | 44.5 | 1700 | 1 |
| 6175630 | **D 21 70** | | 70 | 92.0 | 96.4 | 59.5 | 48.0 | 1984 | 1 |
| 6175710 | **D 21 75** | | 75 | 95.0 | 102.6 | 59.5 | 51.0 | 2225 | 1 |
| 6175980 | **D 21 80** | | 80 | 97.0 | 108.9 | 59.5 | 54.0 | 2454 | 1 |

"AF

| Code | No. | "AF | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 6176440 | **D 21 1.7/16AF** | 1.7/16 | 70.0 | 54.5 | 48.0 | 30.0 | 608 | 1 |
| 6176520 | **D 21 1.1/2AF** | 1.1/2 | 70.0 | 56.5 | 48.0 | 30.0 | 649 | 1 |
| 6176600 | **D 21 1.5/8AF** | 1.5/8 | 70.0 | 60.1 | 50.0 | 30.5 | 701 | 1 |
| 6176870 | **D 21 1.13/16AF** | 1.13/16 | 75.0 | 66.4 | 50.0 | 33.5 | 835 | 1 |
| 6176950 | **D 21 1.7/8AF** | 1.7/8 | 75.0 | 68.4 | 50.0 | 33.5 | 890 | 1 |
| 6177090 | **D 21 2AF** | 2 | 75.0 | 72.4 | 50.0 | 35.0 | 944 | 1 |
| 6177170 | **D 21 2.1/16AF** | 2.1/16 | 75.0 | 74.0 | 50.0 | 35.0 | 987 | 1 |
| 6177250 | **D 21 2.3/16AF** | 2.3/16 | 80.0 | 78.3 | 50.0 | 37.5 | 1181 | 1 |
| 6177330 | **D 21 2.1/4AF** | 2.1/4 | 80.0 | 80.3 | 50.0 | 37.5 | 1230 | 1 |
| 6177410 | **D 21 2.3/8AF** | 2.3/8 | 85.0 | 83.9 | 50.0 | 41.0 | 1398 | 1 |
| 6177680 | **D 21 2.7/16AF** | 2.7/16 | 85.0 | 86.2 | 50.0 | 41.0 | 1544 | 1 |
| 6177760 | **D 21 2.9/16AF** | 2.9/16 | 88.0 | 90.1 | 59.5 | 44.5 | 1788 | 1 |
| 6177840 | **D 21 2.5/8AF** | 2.5/8 | 88.0 | 92.2 | 59.5 | 44.5 | 1813 | 1 |
| 6177920 | **D 21 2.3/4AF** | 2.3/4 | 92.0 | 96.4 | 59.5 | 48.0 | 2065 | 1 |
| 6178060 | **D 21 2.13/16AF** | 2.13/16 | 92.0 | 98.2 | 59.5 | 48.0 | 2140 | 1 |
| 6178140 | **D 21 2.15/16AF** | 2.15/16 | 95.0 | 102.6 | 59.5 | 51.0 | 2307 | 1 |
| 6178220 | **D 21 3AF** | 3 | 95.0 | 104.1 | 59.5 | 51.0 | 2349 | 1 |
| 6178300 | **D 21 3.1/8AF** | 3.1/8 | 97.0 | 108.9 | 59.5 | 54.0 | 2556 | 1 |

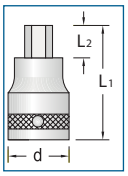
Whitw.

| Code | No. | Whitw. | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 6178650 | **D 21 7/8W** | 7/8 | 70.0 | 55.8 | 48.0 | 30.0 | 648 | 1 |
| 6178730 | **D 21 15/16W** | 15/16 | 70.0 | 58.6 | 50.0 | 30.0 | 734 | 1 |
| 6178810 | **D 21 1W** | 1 | 70.0 | 61.9 | 50.0 | 30.5 | 726 | 1 |
| 6179030 | **D 21 1.1/8W** | 1.1/8 | 75.0 | 67.9 | 50.0 | 33.5 | 882 | 1 |
| 6179110 | **D 21 1.1/4W** | 1.1/4 | 75.0 | 74.0 | 50.0 | 35.0 | 982 | 1 |
| 6179380 | **D 21 1.3/8W** | 1.3/8 | 80.0 | 79.3 | 50.0 | 37.5 | 1139 | 1 |
| 6179460 | **D 21 1.1/2W** | 1.1/2 | 85.0 | 85.1 | 50.0 | 41.0 | 1551 | 1 |
| 6179540 | **D 21 1.5/8W** | 1.5/8 | 88.0 | 90.8 | 59.5 | 44.5 | 1594 | 1 |
| 6179620 | **D 21 1.3/4W** | 1.3/4 | 92.0 | 96.4 | 59.5 | 48.0 | 1876 | 1 |
| 6179700 | **D 21 2W** | 2 | 97.0 | 108.9 | 59.5 | 54.0 | 2434 | 1 |

## IN 21

### SCREWDRIVER BIT SOCKET 1" for in-hex screws

- Acc. to DIN 7422
- Square drive as per DIN 3120 - D 25, ISO 1174, with locking pin
- Hand-operated, knurled grip
- Chrome-plated
- With pressed-in pin in GEDORE vanadium special steel, manganese-phosphated
- * not standardised



| Code | No. | * | mm | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|
| 6181010 | **IN 21 17** | | 17 | 90 | 25.5 | 48 | 613 | 1 |
| 6181280 | **IN 21 19** | | 19 | 90 | 25.5 | 48 | 676 | 1 |
| 6181360 | **IN 21 22** | | 22 | 90 | 25.5 | 48 | 733 | 1 |
| 6181440 | **IN 21 24** | | 24 | 90 | 25.5 | 48 | 784 | 1 |
| 6200680 | **IN 21 27** | * | 27 | 90 | 25.5 | 48 | 856 | 1 |

# ACCESSORIES 25 (1")

## 2132

### REDUCER 1" TO 3/4"

- Acc. to DIN 3123, ISO 3316
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with locking pin
- GEDORE vanadium steel 31CrV3, chrome-plated

| Code | No. | " | □ | " | ■ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6180040 | **2132** | 1 | 25 | 3/4 | 20 | 75 | 504 | 1 |

## 2187

### SLIDING T BAR 1"

- Acc. to DIN 3122, ISO 3315
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with locking pin
- GEDORE vanadium steel 31CrV3, chrome-plated

| Code | No. | Execution | " | ■ | mm | | |
|---|---|---|---|---|---|---|---|
| 6180120 | **2187** | complete | 1 | 25 | 700 | 3955 | 1 |
| 6196040 | **2187 K** | drive piece | 1 | 25 | 80 | 680 | 1 |
| 6195900 | **2187 G** | tommy bar | | | 700 | 3275 | 1 |

Quantities in packs may vary.

## 2190

### EXTENSION 1"

- Acc. to DIN 3123, ISO 3316
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with locking pin
- GEDORE vanadium steel 31CrV3, chrome-plated

1"

| Code | No. | ■ " | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6180200 | **2190-8** | 1 | 25 | 200 | 1182 | 1 |
| 6180390 | **2190-16** | 1 | 25 | 400 | 2144 | 1 |

## 2194

### COUPLER 1"

- Acc. to DIN 3122, ISO 3315
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with locking pin
- GEDORE vanadium steel 31CrV3, chrome-plated

1"

| Code | No. | ■ " | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6180710 | **2194** | 1 | 25 | 67.5 | 321 | 1 |

## 2195

### UNIVERSAL JOINT 1"

- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, with locking pin
- GEDORE vanadium steel 31CrV3, chrome-plated

1"

| Code | No. | ■ " | ■ | □ " | □ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6180980 | **2195** | 1 | 25 | 1 | 25 | 140 | 1482 | 1 |

# SETS 25 (1") METRIC

1"

## D 21 EMU-10

### SOCKET SET 1" 15 pieces

- With forged, tempered UD profile sockets, hand-operated
- With accessories made from GEDORE vanadium steel 31CrV3
- With reversible lever change ratchet
- In GEDORIT blue sheet steel case
- Dimensions: 765 x 289 x 105 mm

1"

mm

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 6181600 | **D 21 EMU-10** | U-10 K **2193** U-10 K | **D 21** 36 41 46 50 55 60 65 70 75 80 | **2190**-8 -16<br>**2187** G<br>**2187** K | 31.4 | 1 |

## D 21 EAU-10

"AF

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 6181790 | **D 21 EAU-10** | U-10 K **2193** U-10 K | **D 21** 1.1/2 1.5/8 1.7/8 2 2.1/16 2.1/4 2.3/8 2.9/16 2.3/4 3" | **2190**-8 -16<br>**2187** G<br>**2187** K | 34.9 | 1 |

## D 21 EWU-10

Whitw.

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 6181870 | **D 21 EWU-10** | U-10 K **2193** U-10 K | **D 21** 7/8 15/16 1 1.1/8 1.1/4 1.3/8 1.1/2 1.5/8 1.3/4 2W | **2190**-8 -16<br>**2187** G<br>**2187** K | 34.9 | 1 |



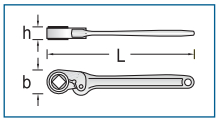
Quantities in packs may vary.

# FRICTION TYPE RATCHETS

## 31 KR

### FRICTION TYPE RATCHET with ring UD profile or bi-hexagon

- Friction spanner (31 K) with exchangeable UD profile or bi-hexagon insert rings (31 R)
- Hexagon rings are available on request
- Flat shaft up to 30", push-fit tube handle from 35"
- GEDORE vanadium steel 31CrV3, manganese-phosphated
- Explanation of the article number: 31 KR 16-32 = ratchet 31 K 16" and insert ring 31 R 32 mm

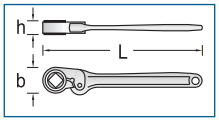



| Code | No. | Ring | L | L " | h | b | | |
|---|---|---|---|---|---|---|---|---|
| 6253020 | **31 KR 6-8** | 8 | 150 | 6 | 11.5 | 23.0 | 93 | 1 |
| 6253100 | **31 KR 6-9** | 9 | 150 | 6 | 11.5 | 23.0 | 90 | 1 |
| 6253290 | **31 KR 6-10** | 10 | 150 | 6 | 11.5 | 23.0 | 88 | 1 |
| 6253370 | **31 KR 6-11** | 11 | 150 | 6 | 11.5 | 23.0 | 86 | 1 |
| 6253450 | **31 KR 6-12** | 12 | 150 | 6 | 11.5 | 23.0 | 84 | 1 |
| 6253530 | **31 KR 6-13** | 13 | 150 | 6 | 11.5 | 23.0 | 82 | 1 |
| 6253610 | **31 KR 8-14** | 14 | 205 | 8 | 15.5 | 31.2 | 224 | 1 |
| 6253880 | **31 KR 8-15** | 15 | 205 | 8 | 15.5 | 31.2 | 220 | 1 |
| 6253960 | **31 KR 8-16** | 16 | 205 | 8 | 15.5 | 31.2 | 216 | 1 |
| 6254180 | **31 KR 8-17** | 17 | 205 | 8 | 15.5 | 31.2 | 212 | 1 |
| 6254260 | **31 KR 10-18** | 18 | 255 | 10 | 17.5 | 38.0 | 352 | 1 |
| 6254340 | **31 KR 10-19** | 19 | 255 | 10 | 17.5 | 38.0 | 346 | 1 |
| 6254500 | **31 KR 10-21** | 21 | 255 | 10 | 17.5 | 38.0 | 336 | 1 |
| 6254690 | **31 KR 10-22** | 22 | 255 | 10 | 17.5 | 38.0 | 330 | 1 |
| 6254770 | **31 KR 10-23** | 23 | 255 | 10 | 17.5 | 38.0 | 324 | 1 |
| 6254850 | **31 KR 12-24** | 24 | 305 | 12 | 18.5 | 44.6 | 497 | 1 |
| 6255070 | **31 KR 12-26** | 26 | 305 | 12 | 18.5 | 44.6 | 482 | 1 |
| 6255150 | **31 KR 12-27** | 27 | 305 | 12 | 18.5 | 44.6 | 474 | 1 |
| 6255230 | **31 KR 12-28** | 28 | 305 | 12 | 18.5 | 44.6 | 466 | 1 |
| 6255580 | **31 KR 16-30** | 30 | 400 | 16 | 19.5 | 51.6 | 709 | 1 |
| 6255740 | **31 KR 16-32** | 32 | 400 | 16 | 19.5 | 51.6 | 684 | 1 |
| 6262600 | **31 KR 20-34** | 34 | 500 | 20 | 21.5 | 63.6 | 1184 | 1 |
| 6256120 | **31 KR 20-36** | 36 | 500 | 20 | 21.5 | 63.6 | 1162 | 1 |
| 6256470 | **31 KR 20-41** | 41 | 500 | 20 | 21.5 | 63.6 | 1098 | 1 |
| 6256550 | **31 KR 25-46** | 46 | 635 | 25 | 31.5 | 78.1 | 2302 | 1 |
| 6256630 | **31 KR 25-50** | 50 | 635 | 25 | 31.5 | 78.1 | 2213 | 1 |
| 6256710 | **31 KR 30-55** | 55 | 760 | 30 | 33.5 | 92.0 | 3011 | 1 |
| 6256980 | **31 KR 30-60** | 60 | 760 | 30 | 33.5 | 92.0 | 2879 | 1 |
| 6257010 | **31 KR 35-65** | 65 | 940 | 35 | 36.5 | 105.0 | 7204 | 1 |
| 6257280 | **31 KR 35-70** | 70 | 940 | 35 | 36.5 | 105.0 | 7023 | 1 |
| 6257360 | **31 KR 40-75** | 75 | 960 | 40 | 39.5 | 118.0 | 7643 | 1 |
| 6257440 | **31 KR 40-80** | 80 | 960 | 40 | 39.5 | 118.0 | 7392 | 1 |
| 6257520 | **31 KR 45-85** | 85 | 1150 | 45 | 46.0 | 133.0 | 9790 | 1 |
| 6257600 | **31 KR 45-90** | 90 | 1150 | 45 | 46.0 | 133.0 | 9479 | 1 |
| 6257790 | **31 KR 55-95** | 95 | 1400 | 55 | 55.0 | 160.0 | 16370 | 1 |
| 6257870 | **31 KR 55-100** | 100 | 1400 | 55 | 55.0 | 160.0 | 15970 | 1 |
| 6257950 | **31 KR 55-105** | 105 | 1400 | 55 | 55.0 | 160.0 | 15535 | 1 |
| 6258090 | **31 KR 60-110** | 110 | 1500 | 60 | 57.0 | 169.0 | 17122 | 1 |
| 6258170 | **31 KR 60-115** | 115 | 1500 | 60 | 57.0 | 169.0 | 16606 | 1 |

## 31 KVR

### FRICTION TYPE RATCHET with square ring

- Friction spanner (31 K) with exchangeable square insert rings (31 VR)
- GEDORE vanadium steel 31CrV3, manganese phosphated
- Explanation of the article number: 31 KVR 8-12 = ratchet 31 K 8" and insert ring 31 VR 12 mm




| Code | No. | Ring | L | L " | h | b | | |
|---|---|---|---|---|---|---|---|---|
| 6266000 | **31 KVR 6-8** | 8 | 150 | 6 | 11.5 | 23.0 | 91 | 1 |
| 6266190 | **31 KVR 6-9** | 9 | 150 | 6 | 11.5 | 23.0 | 89 | 1 |
| 6266270 | **31 KVR 6-10** | 10 | 150 | 6 | 11.5 | 23.0 | 87 | 1 |
| 6266350 | **31 KVR 6-11** | 11 | 150 | 6 | 11.5 | 23.0 | 85 | 1 |
| 6266430 | **31 KVR 8-12** | 12 | 205 | 8 | 15.5 | 31.2 | 228 | 1 |
| 6266780 | **31 KVR 8-14** | 14 | 205 | 8 | 15.5 | 31.2 | 221 | 1 |
| 6267080 | **31 KVR 10-17** | 17 | 255 | 10 | 17.5 | 38.0 | 353 | 1 |
| 6267240 | **31 KVR 10-19** | 19 | 255 | 10 | 17.5 | 38.0 | 346 | 1 |

## 31 K

### FRICTION RATCHET HANDLE WITHOUT INSERT RING

- Friction spanner for insert rings 31 R and 31 VR
- GEDORE vanadium steel 31CrV3, manganese-phosphated

| Code | No. | Ring | Ring | L | L " | Head Ø | | |
|---|---|---|---|---|---|---|---|---|
| 6243060 | **31 K 6** | 8-13 | 8-11 | 150 | 6 | 20 | 70 | 1 |
| 6243140 | **31 K 8** | 14-17 | 12-14 | 205 | 8 | 28 | 176 | 1 |
| 6243220 | **31 K 10** | 18-23 | 17-19 | 255 | 10 | 34 | 277 | 1 |
| 6243300 | **31 K 12** | 24-28 | | 305 | 12 | 40 | 406 | 1 |
| 6243490 | **31 K 16** | 30-32 | | 400 | 16 | 46 | 600 | 1 |
| 6243570 | **31 K 20** | 34-41 | | 500 | 20 | 57 | 961 | 1 |
| 6243650 | **31 K 25** | 46-50 | | 635 | 25 | 70 | 1880 | 1 |
| 6243730 | **31 K 30** | 55-60 | | 760 | 30 | 82 | 2435 | 1 |
| 6243810 | **31 K 35** | 65-70 | | 940 | 35 | 96 | 6305 | 1 |
| 6244030 | **31 K 40** | 75-80 | | 960 | 40 | 108 | 6480 | 1 |
| 6244110 | **31 K 45** | 85-90 | | 1150 | 45 | 120 | 8245 | 1 |
| 6244460 | **31 K 55** | 95-105 | | 1400 | 55 | 145 | 13015 | 1 |
| 6244540 | **31 K 60** | 110-115 | | 1500 | 60 | 153 | 14100 | 1 |

## 31 R

### INSERT RING FOR FRICTION RATCHET UD profile or bi-hexagon

- GEDORE vanadium steel 31CrV3, manganese-phosphated

| Code | No. | | Ø | | | |
|---|---|---|---|---|---|---|
| 6245000 | **31 R 8** | 8 | 19.7 | 6 | 21 | 1 |
| 6245190 | **31 R 9** | 9 | 19.7 | 6 | 20 | 1 |
| 6245270 | **31 R 10** | 10 | 19.7 | 6 | 18 | 1 |
| 6245350 | **31 R 11** | 11 | 19.7 | 6 | 16 | 1 |
| 6245430 | **31 R 12** | 12 | 19.7 | 6 | 13 | 1 |
| 6245510 | **31 R 13** | 13 | 19.7 | 6 | 11 | 1 |
| 6245780 | **31 R 14** | 14 | 27.6 | 8 | 47 | 1 |

Quantities in packs may vary.

## 31 R

| Code | No. | ⬡ | ø | | | |
|---|---|---|---|---|---|---|
| 6245860 | **31 R 15** | 15 | 27.6 | 8 | 44 | 1 |
| 6245940 | **31 R 16** | 16 | 27.6 | 8 | 40 | 1 |
| 6246080 | **31 R 17** | 17 | 27.6 | 8 | 36 | 1 |
| 6246160 | **31 R 18** | 18 | 33.6 | 10 | 75 | 1 |
| 6246240 | **31 R 19** | 19 | 33.6 | 10 | 69 | 1 |
| 6246400 | **31 R 21** | 21 | 33.6 | 10 | 59 | 1 |
| 6246590 | **31 R 22** | 22 | 33.6 | 10 | 53 | 1 |
| 6246670 | **31 R 23** | 23 | 33.6 | 10 | 47 | 1 |
| 6246750 | **31 R 24** | 24 | 39.6 | 12 | 91 | 1 |
| 6246910 | **31 R 26** | 26 | 39.6 | 12 | 76 | 1 |
| 6247050 | **31 R 27** | 27 | 39.6 | 12 | 69 | 1 |
| 6247130 | **31 R 28** | 28 | 39.6 | 12 | 61 | 1 |
| 6247480 | **31 R 30** | 30 | 45.6 | 16 | 109 | 1 |
| 6247640 | **31 R 32** | 32 | 45.6 | 16 | 84 | 1 |
| 6240040 | **31 R 34** | 34 | 56.6 | 20 | 223 | 1 |
| 6248020 | **31 R 36** | 36 | 56.6 | 20 | 201 | 1 |
| 6248370 | **31 R 41** | 41 | 56.6 | 20 | 137 | 1 |
| 6248450 | **31 R 46** | 46 | 70.0 | 25 | 422 | 1 |
| 6248530 | **31 R 50** | 50 | 70.0 | 25 | 333 | 1 |
| 6248610 | **31 R 55** | 55 | 82.0 | 30 | 576 | 1 |
| 6248880 | **31 R 60** | 60 | 82.0 | 30 | 444 | 1 |
| 6248960 | **31 R 65** | 65 | 96.0 | 35 | 899 | 1 |
| 6249180 | **31 R 70** | 70 | 96.0 | 35 | 718 | 1 |
| 6249260 | **31 R 75** | 75 | 108.0 | 40 | 1163 | 1 |
| 6249340 | **31 R 80** | 80 | 108.0 | 40 | 912 | 1 |
| 6249420 | **31 R 85** | 85 | 120.0 | 45 | 1545 | 1 |
| 6249500 | **31 R 90** | 90 | 120.0 | 45 | 1234 | 1 |
| 6249690 | **31 R 95** | 95 | 145.0 | 55 | 3355 | 1 |
| 6249770 | **31 R 100** | 100 | 145.0 | 55 | 2955 | 1 |
| 6249850 | **31 R 105** | 105 | 145.0 | 55 | 2520 | 1 |
| 6249930 | **31 R 110** | 110 | 153.0 | 60 | 3022 | 1 |
| 6250000 | **31 R 115** | 115 | 153.0 | 60 | 2506 | 1 |

## 31 VR

### INSERT RING FOR FRICTION RATCHET square

- GEDORE vanadium steel 31CrV3, manganese-phosphated

| Code | No. | ⬡ | ø | | | |
|---|---|---|---|---|---|---|
| 6261200 | **31 VR 8** | 8 | 19.7 | 6 | 21 | 1 |
| 6261390 | **31 VR 9** | 9 | 19.7 | 6 | 18 | 1 |
| 6261470 | **31 VR 10** | 10 | 19.7 | 6 | 17 | 1 |
| 6261550 | **31 VR 11** | 11 | 19.7 | 6 | 15 | 1 |
| 6261630 | **31 VR 12** | 12 | 27.6 | 8 | 52 | 1 |
| 6261980 | **31 VR 14** | 14 | 27.6 | 8 | 45 | 1 |
| 6262360 | **31 VR 17** | 17 | 33.6 | 10 | 76 | 1 |
| 6262520 | **31 VR 19** | 19 | 33.6 | 10 | 69 | 1 |

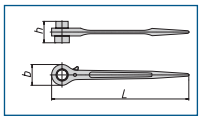
## 31 K

233

## 29

### CONSTRUCTION RATCHET bi-hexagon

- Reversible ratchet with two different size heads, bi-hexagon and "rat-tail" handle




| Code | No. | ⬡ mm | L | h | b | | |
|---|---|---|---|---|---|---|---|
| 1648934 | **29 17x19** | 17 x 19 | 315 | 49.0 | 42.0 | 463 | 1 |
| 1382853 | **29 19X22** | 19 x 22 | 315 | 49.5 | 42.0 | 448 | 1 |
| 1648926 | **29 19x24** | 19 x 24 | 365 | 56.0 | 51.5 | 757 | 1 |
| 6262790 | **29 24x30** | 24 x 30 | 402 | 63.0 | 61.0 | 1378 | 1 |
| 6262950 | **29 27x32** | 27 x 32 | 402 | 63.0 | 61.0 | 1278 | 1 |
| 6263170 | **29 36x41** | 36 x 41 | 495 | 74.0 | 76.0 | 1377 | 1 |

## 41 - 41 B

### REVERSIBLE LEVER CHANGE RATCHET

- With permanently fixed UD profile insert
- GEDORE vanadium steel 31CrV3, chrome-plated

41

41 B

| Code | No. | ∠° | ⬡ | mm | ⟷mm⟷ | | |
|---|---|---|---|---|---|---|---|
| 6338790 | **41 22** | 11,25 | 22 | 27.9 | 620 | 2455 | 1 |
| 6338870 | **41 24** | 11,25 | 24 | 27.9 | 620 | 2430 | 1 |
| 6338950 | **41 27** | 11,25 | 27 | 27.9 | 620 | 2410 | 1 |
| 6330030 | **41 28** | 11,25 | 28 | 27.9 | 620 | 2393 | 1 |
| 6339170 | **41 30** | 11,25 | 30 | 27.9 | 620 | 2365 | 1 |
| 6339250 | **41 32** | 11,25 | 32 | 27.9 | 620 | 2330 | 1 |
| 6338360 | **41 B 36** | 15,00 | 36 | 43.0 | 910 | 5025 | 1 |
| 6338440 | **41 B 41** | 15,00 | 41 | 43.0 | 910 | 4895 | 1 |
| 6338520 | **41 B 46** | 15,00 | 46 | 43.0 | 910 | 4725 | 1 |

## 41 V - 41 BV

### REVERSIBLE LEVER CHANGE RATCHET

- With permanently fixed square insert
- GEDORE vanadium steel 31CrV3, chrome-plated

| Code | No. | ∠° | ⬡ | mm | ⟷mm⟷ | | |
|---|---|---|---|---|---|---|---|
| 6339410 | **41 V 19** | 11,25 | 19 | 27.9 | 620 | 2475 | 1 |
| 6339680 | **41 V 22** | 11,25 | 22 | 27.9 | 620 | 2450 | 1 |
| 6339760 | **41 V 24** | 11,25 | 24 | 27.9 | 620 | 2420 | 1 |
| 6339840 | **41 V 27** | 11,25 | 27 | 27.9 | 620 | 2385 | 1 |
| 6338600 | **41 BV 30** | 15,00 | 30 | 43.0 | 910 | 5115 | 1 |
| 6339330 | **41 BV 32** | 15,00 | 32 | 43.0 | 910 | 5075 | 1 |
| 6339920 | **41 BV 36** | 15,00 | 36 | 43.0 | 910 | 4970 | 1 |



Quantities in packs may vary.

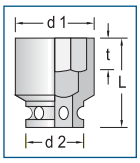
# IMPACT TOOLS

## 6.3 (1/4") SQUARE DRIVE

### K 20

**IMPACT SOCKET 1/4" hexagon**

- Acc. to DIN 3129, ISO 2725-2
- Suitable for all standard electric and air tools
- Square drive as per DIN 3121 - G 6.3, ISO 1174
- GEDORE special steel, gun-metal finish
- * not standardised




| Code | No. | * | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|---|
| 6198090 | **K 20 5,5** | | 5.5 | 23 | 9.5 | 13 | 3 | 16 | 1 |
| 6198170 | **K 20 6** | | 6.0 | 23 | 10.0 | 13 | 3 | 16 | 1 |
| 6198250 | **K 20 7** | | 7.0 | 23 | 11.3 | 13 | 3 | 16 | 1 |
| 6198330 | **K 20 8** | | 8.0 | 23 | 12.5 | 13 | 4 | 16 | 1 |
| 6198410 | **K 20 9** | | 9.0 | 23 | 13.8 | 13 | 4 | 17 | 1 |
| 6198680 | **K 20 10** | | 10.0 | 23 | 15.0 | 13 | 5 | 18 | 1 |
| 6198760 | **K 20 11** | | 11.0 | 23 | 16.3 | 13 | 5 | 20 | 1 |
| 6198840 | **K 20 12** | | 12.0 | 23 | 17.0 | 13 | 6 | 23 | 1 |
| 6198920 | **K 20 13** | | 13.0 | 23 | 18.8 | 13 | 6 | 24 | 1 |
| 6199060 | **K 20 14** | * | 14.0 | 25 | 20.0 | 13 | 7 | 35 | 1 |
| 6199140 | **K 20 17** | * | 17.0 | 26 | 23.8 | 13 | 7 | 37 | 1 |

| Code | No. | "AF | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 6199220 | **K 20 3/16AF** | 3/16 | 23 | 8.5 | 13 | 3 | 15 | 1 |
| 6199300 | **K 20 1/4AF** | 1/4 | 23 | 10.3 | 13 | 3 | 17 | 1 |
| 6199490 | **K 20 5/16AF** | 5/16 | 23 | 12.5 | 13 | 3 | 16 | 10 |
| 6199570 | **K 20 3/8AF** | 3/8 | 23 | 15.0 | 13 | 4 | 18 | 10 |
| 6199650 | **K 20 7/16AF** | 7/16 | 23 | 16.3 | 13 | 6 | 21 | 1 |

### KB 2090

**EXTENSION 1/4" for impact sockets**

- With square drive as per DIN 3121 - G 6.3, ISO 1174
- GEDORE special steel, gun-metal finish

| Code | No. | " | | mm | | |
|---|---|---|---|---|---|---|
| 6201140 | **KB 2090-2** | 1/4 | 6.3 | 50 | 26 | 1 |

**Securing with pin and ring**

### KB 2070 - KB 2075

**SAFETY RING AND SAFETY PIN for impact sockets 1/4"**

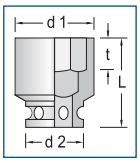
| Code | No. | Description | Ø | mm | | |
|---|---|---|---|---|---|---|
| 6200920 | **KB 2070** | Safety ring d 9 mm | 9.0 | | 5 | 1 |
| 6201060 | **KB 2075** | Safety pin d 1.5 mm | 1.5 | 10 | 5 | 1 |

## 10 (3/8") SQUARE DRIVE

### K 30

**IMPACT SOCKET 3/8" hexagon**

- Acc. to DIN 3129, ISO 2725-2
- Suitable for all standard electric and air tools
- Square drive as per DIN 3121 - G 10, ISO 1174
- GEDORE special steel, gun-metal finish
- * not standardised




| Code | No. | * | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|---|
| 6251160 | **K 30 6** | * | 6 | 30 | 11.0 | 19 | 3.0 | 45 | 5 |
| 6251240 | **K 30 7** | | 7 | 30 | 12.5 | 19 | 3.0 | 46 | 5 |
| 6251320 | **K 30 8** | | 8 | 30 | 14.5 | 19 | 4.0 | 46 | 5 |
| 6251400 | **K 30 9** | | 9 | 30 | 15.0 | 19 | 4.0 | 46 | 1 |
| 6251590 | **K 30 10** | | 10 | 30 | 16.0 | 19 | 5.0 | 46 | 10 |
| 6251670 | **K 30 11** | | 11 | 30 | 17.5 | 19 | 5.0 | 46 | 5 |
| 6251750 | **K 30 12** | | 12 | 30 | 19.0 | 19 | 6.0 | 46 | 5 |
| 6251830 | **K 30 13** | | 13 | 30 | 19.0 | 22 | 6.0 | 63 | 10 |
| 6251910 | **K 30 14** | | 14 | 30 | 21.0 | 22 | 7.0 | 63 | 5 |
| 6252050 | **K 30 15** | | 15 | 30 | 22.0 | 22 | 7.0 | 62 | 1 |
| 6252130 | **K 30 16** | | 16 | 30 | 24.0 | 22 | 8.0 | 66 | 1 |
| 6252210 | **K 30 17** | | 17 | 30 | 25.0 | 22 | 9.0 | 68 | 1 |
| 6252480 | **K 30 18** | | 18 | 30 | 26.0 | 22 | 9.0 | 75 | 10 |
| 6252560 | **K 30 19** | | 19 | 30 | 27.5 | 22 | 9.5 | 76 | 10 |
| 6252640 | **K 30 20** | * | 20 | 30 | 28.0 | 22 | 10.0 | 84 | 1 |
| 6252720 | **K 30 21** | * | 21 | 30 | 30.0 | 22 | 11.0 | 89 | 1 |
| 6252800 | **K 30 22** | * | 22 | 30 | 32.0 | 23 | 11.0 | 93 | 1 |
| 6252990 | **K 30 23** | * | 23 | 30 | 32.0 | 23 | 13.0 | 95 | 1 |
| 6254420 | **K 30 24** | * | 24 | 30 | 35.0 | 23 | 13.0 | 105 | 1 |

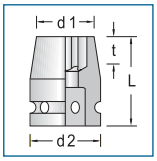
**DREMOPLUS ALU • DVV-13Z** 334

Quantities in packs may vary.

## TX K 30

### IMPACT SOCKET 3/8" for protruding TORX® head screws

- Suitable for all standard electric and air tools
- Square drive as per DIN 3121 - G 10, ISO 1174
- GEDORE special steel, gun-metal finish
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA




| Code | No. | | | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6265030 | **TX K 30 E5** | E5 | M4 | 4.73 | 32 | 9.0 | 19 | 5 | 42 | 1 |
| 6265110 | **TX K 30 E6** | E6 | M5 | 5.74 | 32 | 10.0 | 19 | 5 | 44 | 1 |
| 6265380 | **TX K 30 E7** | E7 | M6 | 6.16 | 32 | 10.0 | 19 | 7 | 44 | 1 |
| 6265460 | **TX K 30 E8** | E8 | M6 - M7 | 7.52 | 32 | 10.5 | 19 | 8 | 48 | 1 |
| 6265540 | **TX K 30 E10** | E10 | M8 | 9.42 | 32 | 12.5 | 19 | 9 | 48 | 1 |
| 6265620 | **TX K 30 E12** | E12 | M10 | 11.17 | 32 | 15.0 | 19 | 10 | 47 | 1 |
| 6265700 | **TX K 30 E14** | E14 | M12 | 12.90 | 32 | 19.0 | 19 | 12 | 46 | 1 |

## KB 3019

### CONVERTOR 3/8" TO 1/2" for impact sockets

- With square drive as per DIN 3121 - G 10, ISO 1174
- GEDORE special steel, manganese-phosphated

| Code | No. | □" | □ | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6263410 | **KB 3019** | 3/8 | 10 | 1/2 | 12.5 | 33 | 61 | 1 |

## KB 3020

### REDUCER 3/8" TO 1/4" for impact sockets

- With square drive as per DIN 3121 - G 10, ISO 1174
- GEDORE special steel, manganese-phosphated

| Code | No. | □" | □ | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6263250 | **KB 3020** | 3/8 | 10 | 1/4 | 6.3 | 31 | 34 | 1 |

## KB 3090

### EXTENSION 3/8" for impact sockets

- With square drive as per DIN 3121 - G 10, ISO 1174
- GEDORE special steel, manganese-phosphated

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6261710 | **KB 3090-3** | 3/8 | 10 | 75 | 90 | 1 |
| 6262010 | **KB 3090-5** | 3/8 | 10 | 125 | 149 | 1 |
| 6262280 | **KB 3090-10** | 3/8 | 10 | 250 | 298 | 1 |

## KB 3095

### UNIVERSAL JOINT 3/8" for impact sockets

- With square drive as per DIN 3121 - G 10, ISO 1174
- GEDORE special steel, manganese-phosphated

| Code | No. | □" | □ | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6262440 | **KB 3095** | 3/8 | 10 | 3/8 | 10 | 50 | 72 | 1 |

## KB 3070 - KB 3075

### SAFETY RING AND SAFETY PIN for impact sockets 3/8"

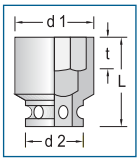
| Code | No. | Description | Use | Ø | mm | | |
|---|---|---|---|---|---|---|---|
| 6260820 | **KB 3070 6-12** | Safety ring d 13 mm | for K 30 6-12 mm | 14.0 | | 2 | 1 |
| 6260900 | **KB 3070 13-24** | Safety ring d 16 mm | for K 30 13-24 mm | 15.5 | | 2 | 1 |
| 6261040 | **KB 3075 6-12** | Safety pin d 2.5 mm | for K 30 6-12 mm | 2.5 | 14 | 5 | 1 |
| 6261120 | **KB 3075 13-24** | Safety pin d 2.5 mm | for K 30 13-24 mm | 2.5 | 16 | 2 | 1 |

# 12.5 (1/2") SQUARE DRIVE

## K 19

### IMPACT SOCKET 1/2" hexagon

- Acc. to DIN 3129, ISO 2725-2
- Suitable for all standard electric and air tools
- Square drive as per DIN 3121 - G 12.5, ISO 1174
- GEDORE special steel, gun-metal finish
- * not standardised




| Code | No. | * | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|---|
| 6160280 | **K 19 10** | | 10 | 38 | 17.0 | 25 | 5.0 | 82 | 10 |
| 6160360 | **K 19 11** | | 11 | 38 | 19.0 | 25 | 5.0 | 85 | 5 |
| 6160440 | **K 19 12** | | 12 | 38 | 20.0 | 25 | 6.0 | 84 | 5 |
| 6160520 | **K 19 13** | | 13 | 38 | 21.0 | 25 | 6.0 | 81 | 10 |
| 6160600 | **K 19 14** | | 14 | 38 | 22.0 | 25 | 7.0 | 82 | 5 |
| 6161680 | **K 19 15** | | 15 | 38 | 24.0 | 30 | 7.0 | 125 | 10 |
| 6160790 | **K 19 16** | | 16 | 38 | 25.0 | 30 | 8.0 | 124 | 10 |
| 6160870 | **K 19 17** | | 17 | 38 | 26.0 | 30 | 9.0 | 123 | 10 |
| 6160950 | **K 19 18** | | 18 | 38 | 27.5 | 30 | 9.0 | 122 | 10 |
| 6161090 | **K 19 19** | | 19 | 38 | 27.5 | 30 | 9.5 | 119 | 10 |
| 6161170 | **K 19 21** | | 21 | 38 | 30.0 | 30 | 11.0 | 137 | 10 |
| 6161250 | **K 19 22** | | 22 | 38 | 32.0 | 30 | 11.0 | 142 | 10 |
| 6161330 | **K 19 23** | * | 23 | 38 | 32.0 | 30 | 13.0 | 148 | 10 |
| 6161410 | **K 19 24** | | 24 | 45 | 35.0 | 30 | 13.0 | 154 | 10 |
| 6182680 | **K 19 27** | | 27 | 50 | 38.0 | 30 | 13.0 | 180 | 10 |
| 1560557 | **K 19 30** | * | 30 | 50 | 41.0 | 30 | 16.0 | 256 | 1 |
| 1783742 | **K 19 32** | * | 32 | 50 | 44.0 | 30 | 17.0 | 286 | 1 |



Quantities in packs may vary.

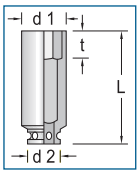
## K 19

| Code | No. | "AF | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 6166990 | **K 19 3/8AF** | 3/8 | 38 | 16.0 | 25 | 4.0 | 79 | 1 |
| 6162300 | **K 19 7/16AF** | 7/16 | 38 | 18.0 | 25 | 6.0 | 79 | 1 |
| 6162650 | **K 19 1/2AF** | 1/2 | 38 | 20.0 | 25 | 6.0 | 78 | 1 |
| 6163030 | **K 19 9/16AF** | 9/16 | 38 | 22.0 | 25 | 7.0 | 80 | 1 |
| 6163460 | **K 19 5/8AF** | 5/8 | 38 | 25.0 | 25 | 8.0 | 121 | 1 |
| 6163700 | **K 19 11/16AF** | 11/16 | 38 | 25.0 | 25 | 9.0 | 121 | 1 |
| 6163970 | **K 19 3/4AF** | 3/4 | 38 | 27.5 | 30 | 9.5 | 115 | 1 |
| 6168420 | **K 19 13/16AF** | 13/16 | 38 | 30.0 | 30 | 11.0 | 131 | 1 |
| 6169820 | **K 19 7/8AF** | 7/8 | 38 | 32.0 | 30 | 13.0 | 141 | 1 |
| 6164190 | **K 19 15/16AF** | 15/16 | 38 | 35.0 | 30 | 13.0 | 156 | 1 |
| 6169900 | **K 19 1AF** | 1 | 38 | 35.0 | 30 | 13.0 | 169 | 1 |
| 6164350 | **K 19 1.1/16AF** | 1.1/16 | 50 | 38.0 | 30 | 13.0 | 173 | 1 |
| 6164510 | **K 19 1.1/8AF** | 1.1/8 | 40 | 38.0 | 30 | 16.5 | 180 | 1 |
| 6165240 | **K 19 1.1/4AF** | 1.1/4 | 40 | 44.0 | 35 | 17.0 | 284 | 1 |
| 6165320 | **K 19 1.5/16AF** | 1.5/16 | 43 | 45.0 | 35 | 19.0 | 296 | 1 |

## K 19 L

### IMPACT SOCKET 1/2" hexagon, long pattern

- Suitable for all standard electric and air tools
- Square drive as per DIN 3121 - G 12.5, ISO 1174
- GEDORE special steel, manganese-phosphated




| Code | No. | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 6163110 | **K 19 L 8** | 8 | 77 | 15.3 | 25 | 12 | 124 | 5 |
| 6163380 | **K 19 L 10** | 10 | 77 | 17.8 | 25 | 12 | 140 | 10 |
| 6163540 | **K 19 L 13** | 13 | 77 | 21.5 | 25 | 13 | 158 | 10 |
| 6163620 | **K 19 L 14** | 14 | 77 | 22.8 | 25 | 13 | 171 | 5 |
| 6197790 | **K 19 L 16** | 16 | 77 | 24.0 | 30 | 14 | 208 | 5 |
| 6163890 | **K 19 L 17** | 17 | 80 | 26.5 | 30 | 15 | 230 | 10 |
| 6197870 | **K 19 L 18** | 18 | 82 | 27.8 | 30 | 15 | 255 | 5 |
| 6164000 | **K 19 L 19** | 19 | 82 | 29.0 | 30 | 17 | 265 | 10 |
| 6162730 | **K 19 L 21** | 21 | 82 | 31.5 | 30 | 17 | 306 | 5 |
| 6164270 | **K 19 L 22** | 22 | 82 | 32.8 | 30 | 19 | 318 | 10 |
| 6199810 | **K 19 L 23** | 23 | 82 | 34.0 | 30 | 19 | 328 | 1 |
| 6164430 | **K 19 L 24** | 24 | 82 | 35.3 | 30 | 21 | 358 | 10 |
| 6164780 | **K 19 L 27** | 27 | 82 | 39.0 | 30 | 22 | 396 | 5 |

## K 19 LD

### IMPACT SOCKET 1/2" hexagon, long pattern, for cars

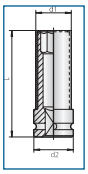
- Suitable for all standard electric and air tools
- Square drive as per DIN 3121 - G 12.5, ISO 1174
- GEDORE special steel, gun-metal finish

| Code | No. | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 6149120 | **K 19 LD 17** | 17 | 78 | 25 | 30 | 9.0 | 238 | 1 |
| 6149200 | **K 19 LD 19** | 19 | 78 | 27 | 30 | 9.5 | 274 | 1 |

## K 19 LS

### IMPACT SOCKET 1/2" WITH PROTECTIVE SLEEVE hexagon, long pattern

- Square drive as per DIN 3121 - G 12.5, ISO 1174
- For racing wheels, with a plastic insert to protect the wheel nuts
- Thin-walled to protect the alloy wheels
- GEDORE special steel, manganese-phosphated

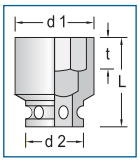


| Code | No. | mm | RAL | Colour | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2178214 | **K 19 LS 17** | 17 | 5017 | Traffic blue | 81 | 27.0 | 30 | 15 | 200 | 1 |
| 2178222 | **K 19 LS 19** | 19 | 6024 | Traffic green | 83 | 29.0 | 30 | 17 | 210 | 1 |
| 2178230 | **K 19 LS 21** | 21 | 3020 | Traffic red | 83 | 30.5 | 30 | 17 | 230 | 1 |
| 2178249 | **K 19 LS 22** | 22 | 1023 | Traffic yellow | 83 | 32.3 | 30 | 19 | 260 | 1 |

## KR 19

### IMPACT SOCKET 1/2" hexagon, for cars

- Suitable for all standard electric and air tools
- Square drive as per DIN 3121 - G 12.5, ISO 1174
- GEDORE special steel, gun-metal finish



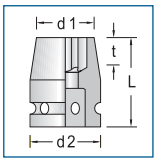

| Code | No. | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 6162490 | **KR 19 17** | 17 | 45 | 30 | 30 | 11 | 174 | 1 |
| 6162570 | **KR 19 19** | 19 | 45 | 33 | 30 | 13 | 186 | 1 |

Quantities in packs may vary.

## TX K 19

### IMPACT SOCKET 1/2" for protruding TORX® head screws

- Suitable for all standard electric and air tools
- Square drive as per DIN 3121 - G 12.5, ISO 1174
- GEDORE special steel, gun-metal finish
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

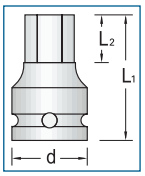



| Code | No. | | M | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6223110 | **TX K 19 E10** | E10 | M8 | 9.42 | 38 | 15.0 | 25 | 9 | 84 | 1 |
| 6223380 | **TX K 19 E12** | E12 | M10 | 11.17 | 38 | 16.0 | 25 | 10 | 85 | 1 |
| 6223460 | **TX K 19 E14** | E14 | M12 | 12.90 | 38 | 18.5 | 25 | 12 | 86 | 1 |
| 6223540 | **TX K 19 E16** | E16 | M12 | 14.76 | 38 | 20.0 | 25 | 12 | 88 | 1 |
| 6223620 | **TX K 19 E18** | E18 | M14 | 16.70 | 38 | 22.0 | 25 | 12 | 87 | 1 |
| 6223700 | **TX K 19 E20** | E20 | M16 | 18.45 | 38 | 25.0 | 30 | 13 | 140 | 1 |
| 6223890 | **TX K 19 E24** | E24 | M18 - M20 | 22.16 | 45 | 28.5 | 30 | 17 | 137 | 1 |

## IN K 19

### IMPACT SCREWDRIVER BIT SOCKET 1/2" for in-hex screws

- Suitable for all standard electric and air tools
- Square drive as per DIN 3121 - G 12.5, ISO 1174
- GEDORE special steel, manganese-phosphated

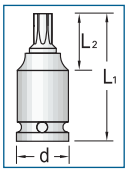



| Code | No. | mm | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|
| 6223970 | **IN K 19 5** | 5 | 38 | 5.0 | 25 | 73 | 10 |
| 6224000 | **IN K 19 6** | 6 | 38 | 6.0 | 25 | 72 | 10 |
| 6224190 | **IN K 19 8** | 8 | 38 | 8.0 | 25 | 77 | 10 |
| 6224270 | **IN K 19 10** | 10 | 40 | 10.0 | 25 | 79 | 10 |
| 6224350 | **IN K 19 12** | 12 | 42 | 12.0 | 30 | 136 | 10 |
| 6225320 | **IN K 19 14** | 14 | 43 | 14.0 | 30 | 144 | 10 |
| 6225670 | **IN K 19 17** | 17 | 45 | 17.0 | 30 | 157 | 10 |

## ITX K 19

### IMPACT SCREWDRIVER BIT SOCKET 1/2" for recessed TORX® head screws

- Square drive as per DIN 3121 - G 12.5, ISO 1174
- GEDORE special steel, manganese-phosphated
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA




| Code | No. | | M | mm | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|---|
| 6197280 | **ITX K 19 T30** | T30 | M6 - M7 | 5.52 | 57 | 26 | 25 | 75 | 5 |
| 6197360 | **ITX K 19 T40** | T40 | M7 - M8 | 6.65 | 57 | 26 | 25 | 77 | 5 |
| 1603124 | **ITX K 19 T45** | T45 | M8 - M10 | 7.82 | 57 | 26 | 25 | 78 | 5 |
| 6197440 | **ITX K 19 T50** | T50 | M10 | 8.83 | 57 | 26 | 25 | 79 | 5 |
| 6197520 | **ITX K 19 T55** | T55 | M12 | 11.22 | 57 | 26 | 25 | 84 | 5 |
| 6197600 | **ITX K 19 T60** | T60 | M14 | 13.25 | 60 | 26 | 25 | 88 | 5 |

## KB 1930

### REDUCER 1/2" TO 3/8" for impact sockets

- With square drive as per DIN 3121 - G 12.5, Form F, G, and H
- GEDORE special steel, manganese-phosphated

| Code | No. | □" | □ | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6650370 | **KB 1930** | 1/2 | 12.5 | 3/8 | 10 | 38 | 81 | 1 |

## KB 1932

### CONVERTOR 1/2" TO 3/4" for impact sockets

- With square drive as per DIN 3121 - G 12.5, Form F, G, and H
- GEDORE special steel, manganese-phosphated

| Code | No. | □" | □ | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6650020 | **KB 1932** | 1/2 | 12.5 | 3/4 | 20 | 48 | 146 | 1 |

## KB 1990

### EXTENSION 1/2" for impact sockets

- With square drive as per DIN 3121 - G 12.5, Form F, G, and H
- GEDORE special steel, manganese-phosphated

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6655250 | **KB 1990-5** | 1/2 | 12.5 | 125 | 256 | 1 |
| 6650100 | **KB 1990-10** | 1/2 | 12.5 | 250 | 461 | 1 |

## KB 1995

### UNIVERSAL JOINT 1/2" for impact sockets

- With square drive as per DIN 3121 - G 12.5, Form F, G, and H
- GEDORE special steel, manganese-phosphated

| Code | No. | ■" | ■ | □" | □ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6655410 | **KB 1995** | 1/2 | 12.5 | 1/2 | 12.5 | 62 | 202 | 1 |



Quantities in packs may vary.

## KB 1970 - KB 1975

### SAFETY RING AND SAFETY PIN for impact sockets 1/2"

| Code | No. | Description | Ø | mm | | |
|---|---|---|---|---|---|---|
| 6654790 | **KB 1970 10-14** | Safety ring d 19 mm | 19 | | 2 | 10 |
| 6654870 | **KB 1970 15-27** | Safety ring d 24 mm | 24 | | 2 | 10 |
| 6654950 | **KB 1975 10-14** | Safety pin d 3 mm | 3 | 20 | 2 | 10 |
| 6655090 | **KB 1975 15-27** | Safety pin d 3 mm | 3 | 25 | 2 | 10 |

## K 19-028

### IMPACT SOCKET SET 1/2" FOR CARS 5 pieces

- 5 sockets, suitable for all standard electric and air tools
- Square drive as per DIN 3121 - G 12.5, ISO 1174
- GEDORE special steel, gun-metal finish
- In black plastic case

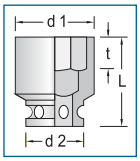
| Code | No. | Sockets | | |
|---|---|---|---|---|
| 1646923 | **K 19-028** | 10 13 17 19 24 | 749 | 1 |

# 20 (3/4") SQUARE DRIVE

## K 32

### IMPACT SOCKET 3/4" hexagon

- Acc. to DIN 3129, ISO 2725-2
- Suitable for all standard electric and air tools
- Square drive as per DIN 3121 - H 20, ISO 1174
- GEDORE special steel, gun-metal finish
- * not standardised



mm

| Code | No. | * | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|---|
| 6282040 | **K 32 17** | | 17 | 45 | 29 | 44 | 9.0 | 300 | 1 |
| 6289990 | **K 32 18** | | 18 | 45 | 32 | 44 | 9.0 | 300 | 1 |
| 6282120 | **K 32 19** | | 19 | 45 | 32 | 44 | 9.5 | 293 | 10 |
| 6282200 | **K 32 22** | | 22 | 46 | 38 | 44 | 11.0 | 345 | 1 |
| 6282390 | **K 32 24** | | 24 | 46 | 40 | 44 | 13.0 | 339 | 1 |
| 6282470 | **K 32 27** | | 27 | 48 | 41 | 44 | 13.0 | 339 | 1 |
| 6282550 | **K 32 30** | | 30 | 52 | 44 | 44 | 16.5 | 352 | 1 |
| 6282630 | **K 32 32** | | 32 | 52 | 49 | 44 | 17.0 | 407 | 1 |
| 6283010 | **K 32 33 (3/4W)** | * | 33 | 55 | 49 | 44 | 17.0 | 430 | 1 |
| 6281580 | **K 32 34** | | 34 | 55 | 52 | 44 | 19.0 | 475 | 1 |
| 6282710 | **K 32 36** | | 36 | 56 | 52 | 44 | 19.0 | 444 | 1 |
| 6281740 | **K 32 38** | * | 38 | 59 | 54 | 44 | 22.0 | 481 | 1 |
| 6282980 | **K 32 41** | | 41 | 59 | 57 | 44 | 22.0 | 500 | 1 |

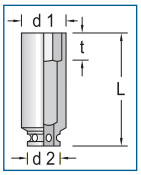
"AF

| Code | No. | " | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 6285300 | **K 32 13/16AF** | 13/16 | 46 | 35 | 44 | 11.0 | 349 | 1 |
| 6284410 | **K 32 7/8AF** | 7/8 | 46 | 38 | 44 | 13.0 | 354 | 1 |
| 6284680 | **K 32 15/16AF** | 15/16 | 46 | 40 | 44 | 13.0 | 342 | 1 |
| 6285490 | **K 32 1AF** | 1 | 46 | 41 | 44 | 13.0 | 340 | 1 |
| 6285650 | **K 32 1.1/16AF** | 1.1/16 | 48 | 41 | 44 | 13.0 | 347 | 1 |
| 6284760 | **K 32 1.1/8AF** | 1.1/8 | 52 | 44 | 44 | 16.5 | 367 | 1 |
| 6284840 | **K 32 1.1/4AF** | 1.1/4 | 52 | 49 | 44 | 17.0 | 418 | 1 |
| 6284920 | **K 32 1.5/16AF** | 1.5/16 | 55 | 49 | 44 | 19.0 | 417 | 1 |
| 6285730 | **K 32 1.3/8AF** | 1.3/8 | 55 | 52 | 44 | 19.0 | 452 | 1 |
| 6285060 | **K 32 1.7/16AF** | 1.7/16 | 56 | 52 | 44 | 19.0 | 439 | 1 |
| 6285140 | **K 32 1.1/2AF** | 1.1/2 | 59 | 54 | 44 | 22.0 | 480 | 1 |
| 6285810 | **K 32 1.5/8AF** | 1.5/8 | 59 | 57 | 44 | 22.0 | 497 | 1 |
| 6286030 | **K 32 1.11/16AF** | 1.11/16 | 64 | 63 | 44 | 25.0 | 674 | 1 |
| 6286110 | **K 32 1.3/4AF** | 1.3/4 | 64 | 63 | 44 | 25.5 | 639 | 1 |
| 6286380 | **K 32 1.7/8AF** | 1.7/8 | 67 | 67 | 54 | 27.0 | 873 | 1 |
| 6286460 | **K 32 2AF** | 2 | 67 | 73 | 54 | 27.0 | 995 | 1 |

## K 32 L

### IMPACT SOCKET 3/4" hexagon, long pattern

- Suitable for all standard electric and air tools
- Square drive as per DIN 3121 - H 20, ISO 1174
- GEDORE special steel, gun-metal finish



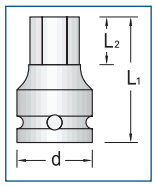
| Code | No. | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 6283600 | **K 32 L 17** | 17 | 90 | 29 | 44 | 9.0 | 727 | 1 |
| 6283790 | **K 32 L 19** | 19 | 90 | 32 | 44 | 9.5 | 720 | 1 |
| 6286700 | **K 32 L 21** | 21 | 90 | 35 | 44 | 11.0 | 757 | 1 |
| 6283870 | **K 32 L 22** | 22 | 90 | 38 | 44 | 11.0 | 739 | 1 |
| 6283950 | **K 32 L 24** | 24 | 90 | 40 | 44 | 13.0 | 706 | 1 |
| 6284090 | **K 32 L 27** | 27 | 90 | 41 | 44 | 13.0 | 655 | 1 |
| 6284170 | **K 32 L 30** | 30 | 90 | 44 | 44 | 16.5 | 644 | 1 |
| 6284250 | **K 32 L 32** | 32 | 90 | 49 | 44 | 17.0 | 728 | 1 |
| 6286540 | **K 32 L 33 (3/4W)** | 33 | 90 | 49 | 44 | 17.0 | 709 | 1 |
| 6281660 | **K 32 L 34** | 34 | 90 | 52 | 44 | 19.0 | 858 | 1 |
| 6284330 | **K 32 L 36** | 36 | 90 | 52 | 44 | 19.0 | 826 | 1 |
| 6286890 | **K 32 L 41** | 41 | 90 | 57 | 44 | 22.0 | 811 | 1 |

Quantities in packs may vary.

## IN K 32

### IMPACT SCREWDRIVER BIT SOCKET 3/4" for in-hex screws

- Suitable for all standard electric and air tools
- Square drive as per DIN 3121 - H 20, ISO 1174
- GEDORE special steel, manganese-phosphated



| Code | No. | mm | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|
| 1956477 | **IN K 32 14** | 14 | 59 | 14 | 38 | 440 | 1 |
| 1956485 | **IN K 32 17** | 17 | 62 | 17 | 38 | 495 | 1 |
| 1956493 | **IN K 32 19** | 19 | 64 | 19 | 44 | 530 | 1 |
| 1956507 | **IN K 32 22** | 22 | 67 | 22 | 44 | 590 | 1 |
| 1956515 | **IN K 32 24** | 24 | 67 | 24 | 44 | 630 | 1 |
| 1956523 | **IN K 32 27** | 27 | 67 | 27 | 44 | 695 | 1 |

## KB 3219

### REDUCER 3/4" TO 1/2" for impact sockets

- With square drive as per DIN 3121, ISO 1174, Form F and H
- GEDORE special steel, manganese-phosphated

| Code | No. | □" | □ | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6675280 | **KB 3219** | 3/4 | 20 | 1/2 | 12.5 | 55 | 351 | 1 |

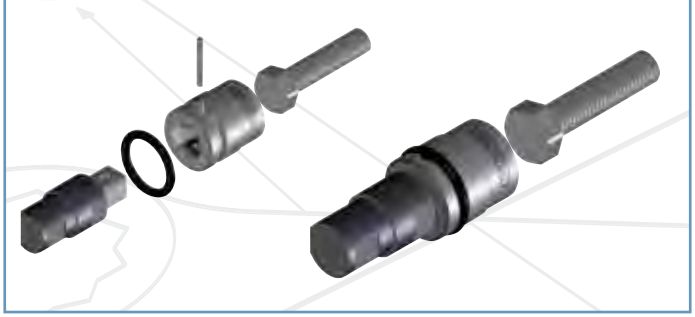
## KB 3221

### CONVERTOR 3/4" TO 1" for impact sockets

- With square drive as per DIN 3121, ISO 1174, Form F and H
- GEDORE special steel, manganese-phosphated

| Code | No. | □" | □ | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6671530 | **KB 3221** | 3/4 | 20 | 1 | 25 | 59 | 445 | 1 |

### Securing with pin and ring



## KB 3290

### EXTENSION 3/4" for impact sockets

- With square drive as per DIN 3121, ISO 1174, Form F and H
- GEDORE special steel, manganese-phosphated

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6675600 | **KB 3290-8** | 3/4 | 20 | 200 | 957 | 1 |
| 6675790 | **KB 3290-12** | 3/4 | 20 | 300 | 1328 | 1 |
| 6675870 | **KB 3290-16** | 3/4 | 20 | 400 | 1759 | 1 |

## KB 3295

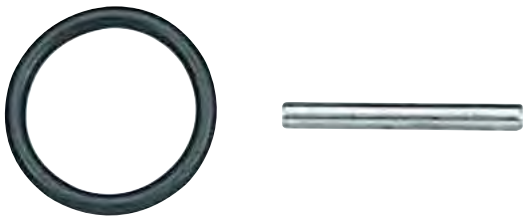
### UNIVERSAL JOINT 3/4" for impact sockets

- With square drive as per DIN 3121, ISO 1174, Form F and H
- GEDORE special steel, manganese-phosphated

| Code | No. | ■" | ■ | □" | □ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6676090 | **KB 3295** | 3/4 | 20 | 3/4 | 20 | 94 | 623 | 1 |

## KB 3270 - KB 3275

### SAFETY RING AND SAFETY PIN for impact sockets 3/4"



| Code | No. | Description | Ø | mm | | |
|---|---|---|---|---|---|---|
| 6675360 | **KB 3270** | Safety ring d 36 mm | 36 | | 4 | 1 |
| 6675440 | **KB 3275** | Safety pin d 4 mm | 4 | 35 | 4 | 1 |

## K 32-040

### IMPACT SOCKET SET 3/4" FOR TRUCKS 4 pieces

- 4 sockets, suitable for all standard electric and air tools
- Square drive as per DIN 3121 - H 20, ISO 1174
- GEDORE special steel, gun-metal finish
- In black plastic case

| Code | No. | Sockets | | |
|---|---|---|---|---|
| 1828142 | **K 32-040** | ○ 24 27 30 33 | 1630 | 1 |



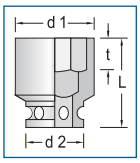
Quantities in packs may vary.

# 25 (1") SQUARE DRIVE

## K 21

### IMPACT SOCKET 1" hexagon

- Acc. to DIN 3129, ISO 2725-2
- Suitable for all standard electric and air tools
- Square drive as per DIN 3121 - H 25, ISO 1174
- GEDORE special steel, gun-metal finish
- Use KB 3770 and KB 3775 from 75 mm and up
- * not standardised



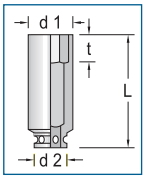

| Code | No. | * | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|---|
| 6183060 | **K 21 22** | | 22 | 55 | 40.0 | 54 | 11.0 | 561 | 1 |
| 6183140 | **K 21 24** | | 24 | 55 | 42.0 | 54 | 13.0 | 611 | 1 |
| 6183220 | **K 21 27** | | 27 | 55 | 46.0 | 54 | 13.0 | 614 | 1 |
| 6183300 | **K 21 30** | | 30 | 57 | 50.0 | 54 | 16.5 | 619 | 1 |
| 6183490 | **K 21 32** | | 32 | 57 | 51.0 | 54 | 17.0 | 608 | 1 |
| 6183650 | **K 21 33** | * | 33 | 57 | 54.0 | 54 | 17.0 | 615 | 1 |
| 6196980 | **K 21 34** | | 34 | 60 | 54.0 | 54 | 19.0 | 624 | 1 |
| 6183570 | **K 21 36** | | 36 | 60 | 54.0 | 54 | 19.0 | 598 | 1 |
| 6184890 | **K 21 38** | * | 38 | 64 | 60.0 | 54 | 19.0 | 764 | 1 |
| 6183730 | **K 21 41** | | 41 | 64 | 63.0 | 54 | 22.0 | 794 | 1 |
| 6184970 | **K 21 42** | * | 42 | 64 | 63.0 | 54 | 22.0 | 781 | 1 |
| 6183810 | **K 21 46** | | 46 | 69 | 70.0 | 54 | 25.5 | 974 | 1 |
| 6184030 | **K 21 50** | | 50 | 72 | 73.0 | 54 | 27.0 | 1018 | 1 |
| 6184110 | **K 21 55** | | 55 | 76 | 82.0 | 54 | 30.0 | 1298 | 1 |
| 6184380 | **K 21 60** | | 60 | 82 | 86.0 | 54 | 33.0 | 1481 | 1 |
| 6184460 | **K 21 65** | | 65 | 85 | 92.0 | 54 | 35.0 | 1682 | 1 |
| 6184540 | **K 21 70** | | 70 | 88 | 96.0 | 54 | 38.0 | 1812 | 1 |
| 6184620 | **K 21 75** | * | 75 | 92 | 100.0 | 86 | 41.0 | 2690 | 1 |
| 6184700 | **K 21 80** | * | 80 | 97 | 105.0 | 86 | 44.0 | 2936 | 1 |

| Code | No. | "AF | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 6186320 | **K 21 1AF** | 1 | 55 | 43 | 54 | 13.0 | 611 | 1 |
| 6186400 | **K 21 1.1/4AF** | 1.1/4 | 57 | 51 | 54 | 17.0 | 614 | 1 |
| 6186590 | **K 21 1.7/16AF** | 1.7/16 | 60 | 54 | 54 | 19.0 | 593 | 1 |
| 6186750 | **K 21 1.1/2AF** | 1.1/2 | 64 | 60 | 54 | 22.0 | 776 | 1 |
| 6186670 | **K 21 1.5/8AF** | 1.5/8 | 64 | 63 | 54 | 22.0 | 796 | 1 |
| 6186830 | **K 21 1.13/16AF** | 1.13/16 | 69 | 70 | 54 | 25.5 | 972 | 1 |
| 6186910 | **K 21 1.7/8AF** | 1.7/8 | 72 | 70 | 54 | 27.0 | 981 | 10 |
| 6187050 | **K 21 2.1/4AF** | 2.1/4 | 80 | 82 | 54 | 33.0 | 1365 | 1 |

## K 21 L

### IMPACT SOCKET 1" hexagon, long pattern

- Suitable for all standard electric and air tools
- Square drive as per DIN 3121 - H 25, ISO 1174
- GEDORE special steel, gun-metal finish

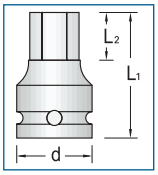



| Code | No. | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 6185350 | **K 21 L 22** | 22 | 100 | 40 | 54 | 11.0 | 1103 | 1 |
| 6185430 | **K 21 L 24** | 24 | 100 | 42 | 54 | 13.0 | 1234 | 1 |
| 6185510 | **K 21 L 27** | 27 | 100 | 46 | 54 | 13.0 | 1227 | 1 |
| 6185780 | **K 21 L 30** | 30 | 100 | 50 | 54 | 16.5 | 1141 | 1 |
| 6185860 | **K 21 L 32** | 32 | 100 | 51 | 54 | 17.0 | 1101 | 1 |
| 6197950 | **K 21 L 33** | 33 | 100 | 54 | 54 | 17.0 | 1104 | 1 |
| 6197010 | **K 21 L 34** | 34 | 100 | 54 | 54 | 19.0 | 1189 | 1 |
| 6185940 | **K 21 L 36** | 36 | 100 | 54 | 54 | 19.0 | 1022 | 1 |
| 6186080 | **K 21 L 38** | 38 | 100 | 60 | 54 | 22.0 | 1262 | 1 |
| 6186160 | **K 21 L 41** | 41 | 100 | 63 | 54 | 22.0 | 1420 | 1 |
| 6186240 | **K 21 L 46** | 46 | 100 | 70 | 54 | 25.5 | 1619 | 1 |

## IN K 21

### IMPACT SCREWDRIVER BIT SOCKET 1" for in-hex screws

- Suitable for all standard electric and air tools
- Square drive as per DIN 3121 - H 25, ISO 1174
- GEDORE special steel, manganese-phosphated




| Code | No. | | mm | $L_1$ | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|
| 1956558 | **IN K 21 19** | | 19 | 75 | 21 | 54 | 650 | 1 |
| 1956566 | **IN K 21 22** | | 22 | 75 | 24 | 54 | 675 | 1 |
| 1956574 | **IN K 21 24** | | 24 | 75 | 26 | 54 | 700 | 1 |
| 1956582 | **IN K 21 27** | | 27 | 75 | 28 | 54 | 730 | 1 |
| 1577514 | **IN K 21 30** | | 30 | 75 | 29 | 54 | 770 | 1 |
| 1956590 | **IN K 21 32** | | 32 | 75 | 30 | 54 | 900 | 1 |
| 1956604 | **IN K 21 36** | | 36 | 75 | 30 | 54 | 860 | 1 |

## KB 2132

### REDUCER 1" TO 3/4" for impact sockets

- Square drive as per DIN 3121, ISO 1174, Form F and H
- GEDORE special steel, manganese-phosphated

| Code | No. | □" | □ | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6657460 | **KB 2132** | 1 | 25 | 3/4 | 20 | 77 | 661 | 1 |

## KB 2137

### CONVERTOR 1" TO 1.1/2" for impact sockets

- Square drive as per DIN 3121, ISO 1174, Form F and H
- GEDORE special steel, manganese-phosphated

| Code | No. | □" | □ | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6657890 | **KB 2137** | 1 | 25 | 1.1/2 | 40 | 85 | 988 | 1 |

Quantities in packs may vary.

## KB 2190

### EXTENSION 1" for impact sockets

- Square drive as per DIN 3121, ISO 1174, Form F and H
- GEDORE special steel, manganese-phosphated

| Code | No. | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|
| 6657970 | **KB 2190-8** | 1 | 25 | 200 | 1477 | 1 |
| 6658000 | **KB 2190-12** | 1 | 25 | 300 | 2010 | 1 |
| 6658190 | **KB 2190-16** | 1 | 25 | 400 | 2587 | 1 |

## KB 2195

### UNIVERSAL JOINT 1" for impact sockets

- Square drive as per DIN 3121, ISO 1174, Form F and H
- GEDORE special steel, manganese-phosphated

| Code | No. | ■" | ■ | □" | □ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6658350 | **KB 2195** | 1 | 25 | 1 | 25 | 136.5 | 1425 | 1 |

## KB 2170 - KB 2175

### SAFETY RING AND SAFETY PIN for impact sockets 1"

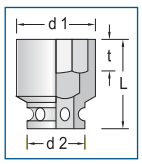
| Code | No. | Description | Ø | mm | | |
|---|---|---|---|---|---|---|
| 6657620 | **KB 2170** | Safety ring d 45 mm | 45 | | 8 | 10 |
| 6657700 | **KB 2175** | Safety pin d 5 mm | 5 | 45 | 7 | 10 |

# 40 (1.1/2") SQUARE DRIVE

## K 37

### IMPACT SOCKET 1.1/2" hexagon

- Acc. to DIN 3129, ISO 2725-2
- Suitable for all standard electric and air tools
- Square drive as per DIN 3121 - H 40, ISO 1174
- GEDORE special steel, gun-metal finish
- Use KB 6470 and KB 6475 from 95 mm and up
- * not standardised

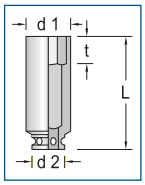


| Code | No. | * | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|---|
| 6328130 | **K 37 46** | | 46 | 80 | 75 | 86 | 25.5 | 2265 | 1 |
| 6328210 | **K 37 50** | * | 50 | 82 | 80 | 86 | 27.0 | 2306 | 1 |
| 6328480 | **K 37 55** | | 55 | 89 | 86 | 86 | 30.0 | 2459 | 1 |
| 6328560 | **K 37 60** | | 60 | 92 | 92 | 86 | 33.0 | 2744 | 1 |
| 6328640 | **K 37 65** | | 65 | 96 | 100 | 86 | 35.0 | 3215 | 1 |
| 6328720 | **K 37 70** | | 70 | 101 | 105 | 86 | 38.0 | 3535 | 1 |
| 6328800 | **K 37 75** | | 75 | 105 | 109 | 86 | 41.0 | 3735 | 1 |
| 6328990 | **K 37 80** | | 80 | 110 | 115 | 86 | 44.0 | 4185 | 1 |
| 6329020 | **K 37 85** | | 85 | 116 | 121 | 86 | 47.0 | 4795 | 1 |
| 6329100 | **K 37 90** | | 90 | 118 | 130 | 86 | 49.0 | 5460 | 1 |
| 6329290 | **K 37 95** | * | 95 | 118 | 135 | 127 | 49.0 | 9000 | 1 |
| 6329370 | **K 37 100** | * | 100 | 125 | 140 | 127 | 54.0 | 8095 | 1 |
| 6329450 | **K 37 105** | * | 105 | 125 | 150 | 127 | 54.0 | 9270 | 1 |
| 6329530 | **K 37 110** | * | 110 | 137 | 155 | 127 | 62.0 | 10625 | 1 |
| 6329610 | **K 37 115** | * | 115 | 137 | 160 | 127 | 67.0 | 10575 | 1 |
| 6329880 | **K 37 120** | * | 120 | 145 | 165 | 127 | 67.0 | 11770 | 1 |

## K 37 L

### IMPACT SOCKET 1.1/2" hexagon, long pattern

- Suitable for all standard electric and air tools
- Square drive as per DIN 3121 - H 40, ISO 1174
- GEDORE special steel, gun-metal finish
- Use KB 6470 and KB 6475 from 95 mm and up



| Code | No. | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 6330110 | **K 37 L 41** | 41 | 140 | 70 | 86 | 22.0 | 4400 | 1 |
| 6330380 | **K 37 L 46** | 46 | 140 | 75 | 86 | 25.5 | 4330 | 1 |
| 6330460 | **K 37 L 50** | 50 | 140 | 80 | 86 | 27.0 | 4365 | 1 |
| 6330540 | **K 37 L 55** | 55 | 140 | 86 | 86 | 30.0 | 3950 | 1 |
| 6330620 | **K 37 L 60** | 60 | 140 | 92 | 86 | 33.0 | 4135 | 1 |
| 6330700 | **K 37 L 65** | 65 | 140 | 100 | 86 | 35.0 | 4620 | 1 |
| 6330890 | **K 37 L 70** | 70 | 140 | 105 | 86 | 38.0 | 4805 | 1 |
| 6330970 | **K 37 L 75** | 75 | 140 | 109 | 86 | 41.0 | 5395 | 1 |
| 6331000 | **K 37 L 80** | 80 | 140 | 115 | 86 | 44.0 | 5660 | 1 |
| 6331190 | **K 37 L 85** | 85 | 140 | 121 | 86 | 47.0 | 6154 | 1 |
| 6331270 | **K 37 L 90** | 90 | 140 | 130 | 86 | 49.0 | 6595 | 1 |
| 6331350 | **K 37 L 95** | 95 | 150 | 135 | 127 | 49.0 | 9960 | 1 |
| 6331430 | **K 37 L 100** | 100 | 150 | 140 | 127 | 54.0 | 9964 | 1 |
| 6331510 | **K 37 L 105** | 105 | 150 | 150 | 127 | 54.0 | 11314 | 1 |
| 6331780 | **K 37 L 110** | 110 | 160 | 155 | 127 | 62.0 | 12800 | 1 |
| 6331860 | **K 37 L 115** | 115 | 160 | 160 | 127 | 67.0 | 12225 | 1 |
| 6331940 | **K 37 L 120** | 120 | 170 | 165 | 127 | 67.0 | 13845 | 1 |

## KB 3721

### REDUCER 1.1/2" TO 1" for impact sockets

- Square drive as per DIN 3121, ISO 1174, Form F and H
- Use KB 3770 and KB 3775 up to 90 mm
- Use KB 6470 and KB 6475 from 95 mm and up
- GEDORE special steel, gun-metal finish

| Code | No. | □" | □ | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6676410 | **KB 3721** | 1.1/2 | 40 | 1 | 25 | 95 | 1992 | 1 |

### Securing with pin and ring

Quantities in packs may vary.

## KB 3764

### CONVERTOR 1.1/2" TO 2.1/2" for impact sockets

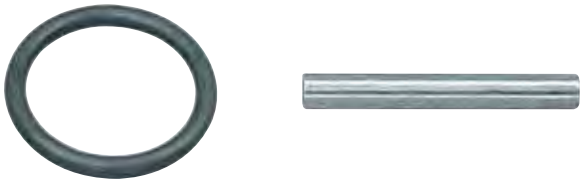
- Square drive as per DIN 3121, ISO 1174, Form F and H
- Use KB 3770 and KB 3775 up to 90 mm
- Use KB 6470 and KB 6475 from 95 mm and up
- GEDORE special steel, gun-metal finish

| Code | No. | □" | □ | ■" | ■ | Ø | mm | | |
|---|---|---|---|---|---|---|---|---|---|
| 1531220 | **KB 3764** | 1.1/2 | 40 | 2.1/2 | 63 | 86 | 93 | 3600 | 1 |

## KB 3770 - KB 3775

### SAFETY RING AND SAFETY PIN for impact sockets 1.1/2"

- Use KB 3770 and KB 3775 up to 90 mm
- Use KB 6470 and KB 6475 from 95 mm and up



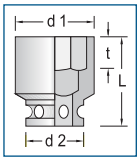
| Code | No. | Description | Ø | mm | | |
|---|---|---|---|---|---|---|
| 6676760 | **KB 3770** | Safety ring d 75 mm | 75 | | 26 | 1 |
| 6676840 | **KB 3775** | Safety pin d 6 mm | 6 | 75 | 17 | 1 |

# 63 (2.1/2") SQUARE DRIVE

## K 64

### IMPACT SOCKET 2.1/2" hexagon

- Acc. to DIN 3129, ISO 2725-2
- Suitable for all standard electric and air tools
- Square drive as per DIN 3121 - H 63, ISO 1174
- GEDORE special steel, gun-metal finish
- * not standardised



| Code | No. | * | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|---|
| 6371300 | **K 64 75** | | 75 | 125 | 115 | 127 | 41 | 7350 | 1 |
| 6371490 | **K 64 80** | | 80 | 125 | 115 | 127 | 44 | 7015 | 1 |
| 6371570 | **K 64 85** | | 85 | 130 | 127 | 127 | 47 | 7295 | 1 |
| 6371650 | **K 64 90** | | 90 | 132 | 135 | 127 | 49 | 7955 | 1 |
| 6371730 | **K 64 95** | | 95 | 132 | 140 | 127 | 49 | 8120 | 1 |
| 6371810 | **K 64 100** | | 100 | 141 | 145 | 127 | 54 | 8905 | 1 |
| 6372030 | **K 64 105** | | 105 | 141 | 150 | 127 | 54 | 9145 | 1 |
| 6372110 | **K 64 110** | | 110 | 150 | 160 | 127 | 62 | 11000 | 1 |
| 6372380 | **K 64 115** | | 115 | 150 | 165 | 127 | 62 | 11130 | 1 |
| 6372460 | **K 64 120** | * | 120 | 158 | 170 | 127 | 67 | 12030 | 1 |

## KB 6437

### REDUCER 2.1/2" TO 1.1/2" for impact sockets

- Square drive as per DIN 3121, ISO 1174, Form F and H
- Use KB 3770 and KB 3775 up to 90 mm
- Use KB 6470 and KB 6475 from 95 mm and up
- GEDORE special steel, gun-metal finish

| Code | No. | □" | □ | ■" | ■ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6699700 | **KB 6437** | 2.1/2 | 63 | 1.1/2 | 40 | 138 | 7090 | 1 |

## KB 6470 - KB 6475

### SAFETY RING AND SAFETY PIN for impact sockets 2.1/2"

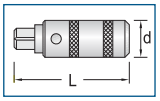
| Code | No. | Description | Ø | mm | | |
|---|---|---|---|---|---|---|
| 6699890 | **KB 6470** | Safety ring d 114 mm | 114 | | 40 | 1 |
| 6699970 | **KB 6475** | Safety pin d 8 mm | 8 | 110 | 43 | 1 |

# IMPACT DRIVER

## K 1900

### HAND-OPERATED IMPACT DRIVER 1/2"

- Particularly suitable for loosening tight bolts or screws with the aid of a hammer
- Reversible for right and left hand operation
- Will fit any 1/2" impact socket or bit
- Manganese-phosphated



| Code | No. | ■" | ■ | L | Ø-d | | |
|---|---|---|---|---|---|---|---|
| 6654440 | **K 1900** | 1/2 | 12.5 | 123 | 34 | 579 | 1 |

## K 1900-018

### HAND-OPERATED IMPACT DRIVER SET 1/2"

- Complete with the most frequently used bits, for use on screws and bolts with slotted, cross-slotted or hexagon heads
- Reversible for right and left hand operation
- In plastic case
- Dimensions: 200 x 120 x 38 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6654600 | **K 1900-018** | **880** 5,5 6,5 8 12<br>**885** 4 5 6 8 10<br>**890** 2 3 4<br>**887 TX** T27 T30 T40 T45<br>**KB 819**<br>**K 1900** | 1249 | 1 |

1500 ES-K 1900 103

Quantities in packs may vary.

# BIT RANGE

## 4 MM HEXAGON SQUARE DRIVE

- For precision work on small components (e.g. clocks, electronics, model making...)
- Mirror-polished for improved corrosion protection
- Vanadium Plus material for safe, reliable application of force to the small effective zones of the miniature screws

### 471-044

**MINIBIT-SET 44 pieces**

- In plastic case
- Dimensions: 160 x 95 x 38 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 1811134 | **471-044** | **471** | **480** 0,8 1,2 1,5 1,8 2 3<br>**485** 0,7 0,9 1,3 1,5 2 2,5<br>**490 PH** 000 00 0<br>**490 PZD** 000 00 0<br>**487 TX** T3 T4 T5 T6 T7 T8 T9 T10 T15<br>**680** 4 4,5 5,5<br>**685** 3 4 **690** 1 2<br>**690 PZD** 1 2<br>**687 TX** T20 T25 T27 T30 | **420**<br>**499**<br>**699** | 302 | 1 |

### 471-042

**MINIBIT SET 42 pieces**

- For electronics engineers, mechanics, model makers, etc.
- With 1/4" reversible ratchet and 1/4" to 4 mm bit adaptor, for use with 4 mm minibits
- In plastic case
- Dimensions: 160 x 95 x 38 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 1801333 | **471-042** | **471** | **480** 0,8 1,2 1,5 1,8 2 2,5 3<br>**485** 0,7 0,9 1,3 1,5 2 2,5 3<br>**485 B** 2 2,5 3<br>**490 PH** 000 00 0<br>**490 PZD** 000 00 0<br>**487 TX** T3 T4 T5 T6 T7 T8 T9 T10 T15<br>**488 TX** T7 T8 T9 T10 T15 | **420**<br>**470**<br>**499**<br>**499 F** | 275 | 1 |

### 471-023

**MINIBIT SET 23 pieces**

- For electronics engineers, mechanics, model makers, etc.
- With 1/4" reversible ratchet and 1/4" to 4 mm bit adaptor, for use with 4 mm minibits
- In plastic case
- Dimensions: 110 x 65 x 31 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 1801325 | **471-023** | **471** | **480** 0,8 1,2 1,5 1,8<br>**485** 0,7 0,9 1,3 1,5<br>**490 PH** 000 00 0<br>**490 PZD** 000 00 0<br>**487 TX** T3 T4 T5 T6 T7 T8 | **420**<br>**499** | 125 | 1 |

### 471

**BIT RATCHET**

- Super slim pattern
- 1/4" recess - or 4 mm recess when used in conjuction with no. 420
- GEDORE vanadium special steel, chrome-plated

| Code | No. | " | | mm | | | |
|---|---|---|---|---|---|---|---|
| 1801341 | **471** | 1/4 | 6,3 | 90 | 9,5 | 23 | 1 |

D 20 FMU-20 187

Quantities in packs may vary.

# 6.3 MM (1/4") HEXAGON DRIVE

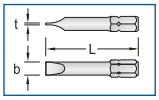
## SCREWDRIVER BITS 6.3 MM (1/4")

10 / 5 = Sales unit 10 / 5 pieces each

### 680

**SCREWDRIVER BIT for slotted head screws**

- For hand operation and use in electric and air tools
- Acc. to DIN ISO 2351-1
- Hexagon drive as per DIN 3126 - C 6.3 (1/4")
- GEDORE special vanadium steel, gun-metal finishspecial steel, gun-metal finish
- **Sales unit 10 / 5 pieces each**

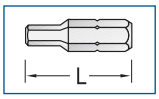


| Code | No. | b | t | L | | |
|---|---|---|---|---|---|---|
| 6537640 | **680 4** | 4.0 | 0.5 | 25 | 5 | 10 |
| 6537720 | **680 4,5** | 4.5 | 0.6 | 25 | 5 | 10 |
| 6537800 | **680 5,5** | 5.5 | 0.8 | 25 | 6 | 10 |
| 6537990 | **680 6,5** | 6.5 | 1.2 | 25 | 6 | 10 |
| 6538020 | **680 7** | 7.0 | 1.2 | 25 | 6 | 10 |
| 6538100 | **680 8** | 8.0 | 1.6 | 25 | 7 | 10 |
| 6538290 | **680 10** | 10.0 | 1.6 | 39 | 16 | 5 |

### 685

**SCREWDRIVER BIT for in-hex screws**

- For hand operation and use in electric and air tools
- Acc. to DIN ISO 2351-3
- Hexagon drive as per DIN 3126 - C 6.3 (1/4")
- GEDORE special vanadium steel, gun-metal finish
- **Sales unit 10 / 5 pieces each**

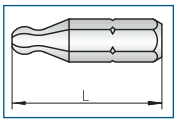


| Code | No. | mm | ISO 4762 | DIN 7984 | L | | |
|---|---|---|---|---|---|---|---|
| 1802399 | **685 2** | 2.0 | M2 | M2 | 25 | 5 | 10 |
| 6538880 | **685 2,5** | 2.5 | M3 | M4 | 25 | 5 | 10 |
| 6538960 | **685 3** | 3.0 | M4 | M5 | 25 | 5 | 10 |
| 6539180 | **685 4** | 4.0 | M5 | M6 | 25 | 6 | 10 |
| 6539260 | **685 5** | 5.0 | M6 | M8 | 25 | 6 | 10 |
| 6539340 | **685 6** | 6.0 | M8 | M10 | 25 | 7 | 10 |
| 6539420 | **685 8** | 8.0 | M10 | M12 | 33 | 9 | 10 |
| 6539500 | **685 10** | 10.0 | M12 | M14 | 33 | 12 | 5 |

### 685 K

**SCREWDRIVER BIT for in-hex screws, with ball end**

- For hand operation and use in electric and air tools
- Hexagon drive as per DIN 3126 - C 6.3 (1/4")
- GEDORE special vanadium steel, gun-metal finish
- **Sales unit 5 pieces each**

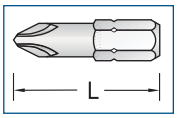


| Code | No. | mm | ISO 4762 | DIN 7984 | L | | |
|---|---|---|---|---|---|---|---|
| 2225700 | **685 K 4** | 4 | M5 | M6 | 25 | 6 | 5 |
| 2225719 | **685 K 5** | 5 | M6 | M8 | 25 | 7 | 5 |
| 2225727 | **685 K 6** | 6 | M8 | M10 | 25 | 8 | 5 |
| 2225735 | **685 K 8** | 8 | M10 | M12 | 33 | 11 | 5 |
| 2225743 | **685 K 10** | 10 | M12 | M14 | 33 | 14 | 5 |

### 690

**SCREWDRIVER BIT for cross-slotted head screws PH**

- For hand operation and use in electric and air tools
- Acc. to DIN ISO 2351-2, tip as per DIN ISO 8764-1 PH
- Hexagon drive as per DIN 3126 - C 6.3 (1/4")
- GEDORE special vanadium steel, gun-metal finish
- **Sales unit 10 pieces each**

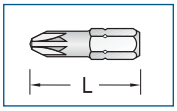


| Code | No. | PH | L | | |
|---|---|---|---|---|---|
| 1803514 | **690 0** | 0 | 25 | 5 | 10 |
| 6541240 | **690 1** | 1 | 25 | 5 | 10 |
| 1828150 | **690 1 L** | 1 | 50 | 12 | 10 |
| 6541320 | **690 2** | 2 | 25 | 6 | 10 |
| 6541400 | **690 2 L** | 2 | 50 | 12 | 10 |
| 6541590 | **690 3** | 3 | 25 | 6 | 10 |
| 6541670 | **690 3 L** | 3 | 50 | 12 | 10 |
| 6541750 | **690 4** | 4 | 32 | 10 | 10 |

### 690 PZD

**SCREWDRIVER BIT for cross-slotted head screws PZ**

- For hand operation and use in electric and air tools
- Acc. to DIN ISO 2351-2, tip as per DIN ISO 8764-1 PZ
- Hexagon drive as per DIN 3126 - C 6.3 (1/4")
- GEDORE special vanadium steel, gun-metal finish
- **Sales unit 10 pieces each**



| Code | No. | PZ | L | | |
|---|---|---|---|---|---|
| 6552790 | **690 PZD 1** | 1 | 25 | 5 | 10 |
| 1827022 | **690 PZD 1 L** | 1 | 50 | 12 | 10 |
| 6552870 | **690 PZD 2** | 2 | 25 | 6 | 10 |
| 6552950 | **690 PZD 2 L** | 2 | 50 | 12 | 10 |
| 6553090 | **690 PZD 3** | 3 | 25 | 6 | 10 |
| 6553170 | **690 PZD 3 L** | 3 | 50 | 12 | 10 |
| 6553680 | **690 PZD 4** | 4 | 32 | 15 | 10 |

1500 ES/CT-20 BIT

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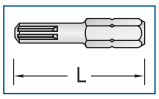
Quantities in packs may vary.

## 686

### SCREWDRIVER BIT for multi-spline screws RIBE®

- For hand operation and use in electric and air tools
- Hexagon drive as per DIN 3126 - C 6.3 (1/4")
- GEDORE special vanadium steel, gun-metal finish
- RIBE® = reg. trademark of Richard Bergner GmbH & Co. KG, Schwabach, Germany
- **Sales unit 10 pieces each**

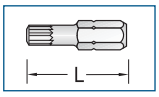


| Code | No. | M | L | | |
|---|---|---|---|---|---|
| 6540510 | **686 4** | M4 | 33 | 6 | 10 |
| 6540780 | **686 5** | M5 | 33 | 7 | 10 |
| 6540860 | **686 6** | M6 | 33 | 8 | 10 |
| 6540940 | **686 8** | M8 | 33 | 11 | 10 |

## 685 X

### SCREWDRIVER BIT for multi-point screws XZN

- For hand operation and use in electric and air tools
- Acc. to DIN ISO 65254
- Hexagon drive as per DIN 3126 - C 6.3 (1/4"), tip as per DIN 2325
- GEDORE special vanadium steel, gun-metal finish
- **Sales unit 10 pieces each**

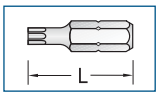


| Code | No. | M | L | | |
|---|---|---|---|---|---|
| 6540000 | **685 X 5** | M5 | 25 | 6 | 10 |
| 6540190 | **685 X 6** | M6 | 25 | 6 | 10 |
| 6540270 | **685 X 8** | M8 | 25 | 8 | 10 |

## 687 TX

### SCREWDRIVER BIT for recessed TORX® head screws

- For hand operation and use in electric and air tools
- Hexagon drive as per DIN 3126 - C 6.3 (1/4")
- GEDORE special vanadium steel, gun-metal finish
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA
- **Sales unit 10 pieces each**



| Code | No. | | M | mm | L | | |
|---|---|---|---|---|---|---|---|
| 6541830 | **687 TX T6** | T6 | M2 | 1.70 | 25 | 5 | 10 |
| 6541910 | **687 TX T7** | T7 | M2,5 | 1.99 | 25 | 5 | 10 |
| 6542050 | **687 TX T8** | T8 | M2,5 | 2.31 | 25 | 5 | 10 |
| 6542130 | **687 TX T9** | T9 | M3 | 2.50 | 25 | 5 | 10 |
| 6542210 | **687 TX T10** | T10 | M3 - M3,5 | 2.74 | 25 | 5 | 10 |
| 6542480 | **687 TX T15** | T15 | M3,5 - M4 | 3.27 | 25 | 5 | 10 |
| 6542560 | **687 TX T20** | T20 | M4 - M5 | 3.86 | 25 | 5 | 10 |
| 6542640 | **687 TX T25** | T25 | M4,5 - M5 | 4.43 | 25 | 6 | 10 |
| 6542720 | **687 TX T27** | T27 | M4,5 - M6 | 4.99 | 25 | 6 | 10 |
| 6542800 | **687 TX T30** | T30 | M6 - M7 | 5.52 | 25 | 6 | 10 |
| 6542990 | **687 TX T40** | T40 | M7 - M8 | 6.65 | 25 | 7 | 10 |

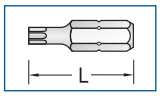
20 XLU-3 T

186

## 688 TX

### SCREWDRIVER BIT for recessed TORX® head screws with pilot

- For hand operation and use in electric and air tools
- Hexagon drive as per DIN 3126 - C 6.3 (1/4")
- GEDORE special vanadium steel, gun-metal finish
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA
- **Sales unit 10 pieces each**



| Code | No. | | M | mm | L | | |
|---|---|---|---|---|---|---|---|
| 6535510 | **688 TX T10** | T10 | M3 - M3,5 | 2.74 | 25 | 5 | 10 |
| 6535780 | **688 TX T15** | T15 | M3,5 - M4 | 3.27 | 25 | 5 | 10 |
| 6535860 | **688 TX T20** | T20 | M4 - M5 | 3.86 | 25 | 5 | 10 |
| 6535940 | **688 TX T25** | T25 | M4,5 - M5 | 4.43 | 25 | 6 | 10 |
| 6536080 | **688 TX T27** | T27 | M4,5 - M6 | 4.99 | 25 | 6 | 10 |
| 6536160 | **688 TX T30** | T30 | M6 - M7 | 5.52 | 25 | 6 | 10 |
| 6536240 | **688 TX T40** | T40 | M7 - M8 | 6.65 | 25 | 6 | 10 |

## 689 TS

### SCREWDRIVER BIT Four-Wing TORQ-SET®

- For hand operation and use in electric and air tools
- Acc. to DIN ISO 3126, ISO 1173
- Hexagon drive as per DIN 3126 - C 6.3 (1/4")
- GEDORE special vanadium steel, gun-metal finish
- TORQ-SET® is a registered trademark of Phillips Screw Company, USA

| Code | No. | | |
|---|---|---|---|
| 1965506 | **689 TS 2** | 6 | 1 |
| 1965514 | **689 TS 4** | 6 | 1 |
| 1965522 | **689 TS 6** | 6 | 1 |
| 1965530 | **689 TS 8** | 6 | 1 |
| 1965549 | **689 TS 10** | 6 | 1 |

## 689 TW

### SCREWDRIVER BIT Tri-Wing®

- For hand operation and use in electric and air tools
- Acc. to DIN ISO 3126, ISO 1173
- Hexagon drive as per DIN 3126 - C 6.3 (1/4")
- GEDORE special vanadium steel, gun-metal finish
- Tri-Wing® is a registered trademark of Phillips Screw Company, USA

| Code | No. | Size | | |
|---|---|---|---|---|
| 1979868 | **689 TW 2** | 2 | 6 | 1 |
| 1979876 | **689 TW 4** | 4 | 6 | 1 |
| 1979884 | **689 TW 6** | 6 | 12 | 1 |
| 1979892 | **689 TW 8** | 8 | 12 | 1 |
| 1979906 | **689 TW 10** | 10 | 20 | 1 |



Quantities in packs may vary.

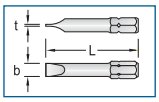
# TIN SCREWDRIVER BITS 6.3 MM (1/4")

- Made from high-quality materials with high-strength, double titanium nitride surface coating
- High degree of wear resistance, preventing damage to screw heads and ensuring long life of the bit
- 5 = Sales unit 5 pieces each

## TIN 680

### SCREWDRIVER BIT for slotted head screws

- For hand operation and use in electric and air tools
- Acc. to DIN ISO 2351-1
- Hexagon drive as per DIN 3126 - C 6.3 (1/4")
- GEDORE special steel, titanium-nitrided
- **Sales unit 5 pieces each**

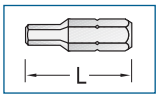


| Code | No. | b | t | L | | |
|---|---|---|---|---|---|---|
| 1828320 | **TIN 680 4** | 4.0 | 0.5 | 25 | 5 | 5 |
| 1828339 | **TIN 680 5,5** | 5.5 | 0.8 | 25 | 6 | 5 |
| 1828347 | **TIN 680 6,5** | 6.5 | 1.2 | 25 | 6 | 5 |
| 1828355 | **TIN 680 8** | 8.0 | 1.6 | 25 | 7 | 5 |

## TIN 685

### SCREWDRIVER BIT for in-hex screws

- For hand operation and use in electric and air tools
- Acc. to DIN ISO 2351-3
- Hexagon drive as per DIN 3126 - C 6.3 (1/4")
- GEDORE special steel, titanium-nitrided
- **Sales unit 5 pieces each**

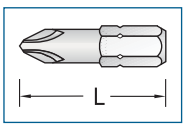


| Code | No. | mm | ISO 4762 | DIN 7984 | L | | |
|---|---|---|---|---|---|---|---|
| 1828363 | **TIN 685 2** | 2.0 | M2 | M2 | 25 | 5 | 5 |
| 1828371 | **TIN 685 2,5** | 2.5 | M3 | M4 | 25 | 5 | 5 |
| 1828398 | **TIN 685 3** | 3.0 | M4 | M5 | 25 | 5 | 5 |
| 1828401 | **TIN 685 4** | 4.0 | M5 | M6 | 25 | 6 | 5 |
| 1828428 | **TIN 685 5** | 5.0 | M6 | M8 | 25 | 6 | 5 |
| 1828436 | **TIN 685 6** | 6.0 | M8 | M10 | 25 | 7 | 5 |
| 1828444 | **TIN 685 8** | 8.0 | M10 | M12 | 33 | 9 | 5 |
| 1828452 | **TIN 685 10** | 10.0 | M12 | M14 | 33 | 12 | 5 |

## TIN 690

### SCREWDRIVER BIT for cross-head screws PH

- For hand operation and use in electric and air tools
- Acc. to DIN ISO 2351-2, tip as per DIN ISO 8764-1 PH
- Hexagon drive as per DIN 3126 - C 6.3 (1/4")
- GEDORE special steel, titanium-nitrided
- **Sales unit 5 pieces each**

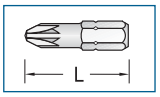


| Code | No. | PH | L | | |
|---|---|---|---|---|---|
| 1828533 | **TIN 690 1** | 1 | 25 | 5 | 5 |
| 1828541 | **TIN 690 1 L** | 1 | 50 | 12 | 5 |
| 1828568 | **TIN 690 2** | 2 | 25 | 6 | 5 |
| 1828576 | **TIN 690 2 L** | 2 | 50 | 12 | 5 |
| 1828584 | **TIN 690 3** | 3 | 25 | 6 | 5 |
| 1828592 | **TIN 690 3 L** | 3 | 50 | 13 | 5 |

## TIN 690 PZD

### SCREWDRIVER BIT for cross-head screws PZ

- For hand operation and use in electric and air tools
- Acc. to DIN ISO 2351-2, tip as per DIN ISO 8764-1 PZ
- Hexagon drive as per DIN 3126 - C 6.3 (1/4")
- GEDORE special steel, titanium-nitrided
- **Sales unit 5 pieces each**

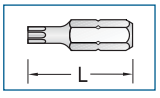


| Code | No. | PZ | L | | |
|---|---|---|---|---|---|
| 1828606 | **TIN 690 PZD 1** | 1 | 25 | 5 | 5 |
| 1828614 | **TIN 690 PZD 1 L** | 1 | 50 | 12 | 5 |
| 1828622 | **TIN 690 PZD 2** | 2 | 25 | 6 | 5 |
| 1828630 | **TIN 690 PZD 2 L** | 2 | 50 | 13 | 5 |
| 1828649 | **TIN 690 PZD 3** | 3 | 25 | 6 | 5 |
| 1828657 | **TIN 690 PZD 3 L** | 3 | 50 | 13 | 5 |

## TIN 687 TX

### SCREWDRIVER BIT for recessed TORX® head screws

- For hand operation and use in electric and air tools
- Hexagon drive as per DIN 3126 - C 6.3 (1/4")
- GEDORE special steel, titanium-nitrided
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA
- **Sales unit 5 pieces each**



| Code | No. | | M | mm | L | | |
|---|---|---|---|---|---|---|---|
| 1828460 | **TIN 687 TX T10** | T10 | M3 - M3,5 | 2.74 | 25 | 5 | 5 |
| 1828479 | **TIN 687 TX T15** | T15 | M3,5 - M4 | 3.27 | 25 | 5 | 5 |
| 1828487 | **TIN 687 TX T20** | T20 | M4 - M5 | 3.86 | 25 | 6 | 5 |
| 1828495 | **TIN 687 TX T25** | T25 | M4,5 - M5 | 4.43 | 25 | 6 | 5 |
| 1828509 | **TIN 687 TX T27** | T27 | M4,5 - M6 | 4.99 | 25 | 6 | 5 |
| 1828517 | **TIN 687 TX T30** | T30 | M6 - M7 | 5.52 | 25 | 6 | 5 |
| 1828525 | **TIN 687 TX T40** | T40 | M7 - M8 | 6.65 | 25 | 7 | 5 |

Quantities in packs may vary.

# BIT SETS 6.3 MM (1/4")

## 671-022

### BIT SET 22 pieces

- Extra slim bit reversible ratchet with most popular bit sizes
- For working in extremely confined spaces
- In plastic case
- Dimensions: 160 x 95 x 38 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 1814567 | **671-022** | **671** | **680** 4 5,5 6,5 8<br>**685** 3 4 5 6<br>**690** 1 2<br>**690 PZD** 1 2 3<br>**687 TX** T10 T15 T20 T25 T27 T30 | **676**<br>**699** | 377 | 1 |

## 693-024

### BIT SET 24 pieces

- With No. 2093 U-3 T T-handle ratchet and 2093 HR-94 hand ratchet
- In plastic case
- Dimensions: 160 x 95 x 38 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 1814524 | **693-024** | **2093 U**-3 T<br>**2093 HR**-94 | **680** 4 6,5<br>**685** 3 4 5 6<br>**690** 1 2<br>**690 PZD** 1 2 3<br>**687 TX** T8 T9 T10 T15 T20 T25 T27 T30 T40 | **2090**-6<br>**620** | 389 | 1 |

## 620-024

### BIT SET 24 pieces

- In plastic case
- Dimensions: 110 x 65 x 31 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Sockets | Accessories | | |
|---|---|---|---|---|---|
| 1815695 | **620-024** | **880** 5,5 6,5 8 12<br>**885** 4 5 6 8 10<br>**890** 2 3 4<br>**887 TX** T27 T30 T40 T45<br>**KB 819**<br>**K 1900** | **620** | 185 | 1 |

## 698-024

### BIT SET 24 pieces

- In plastic case
- Dimensions: 110 x 65 x 31 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Sockets | Accessories | | |
|---|---|---|---|---|---|
| 1815709 | **698-024** | **680** 4 6,5<br>**685** 3 4 5 6<br>**685 X** 5 6 8<br>**690** 1 2<br>**690 PZD** 1 2 3<br>**687 TX** T8 T9 T10 T15 T20 T25 T27 T30 T40 | **698** | 198 | 1 |



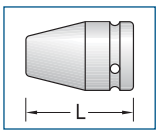
Quantities in packs may vary.

# ACCESSORIES FOR BITS 6.3 MM (1/4")

## KB 619 - KB 630

### ADAPTOR PIECES for screwdriver bits

- Acc. to DIN 7427 Form A
- Hex recess drive as per DIN 3126 - D 6.3 (1/4") and square drive Form G as per DIN 3121
- For hand-operated or power tools
- For use in power tools, we recommend the use of a locking ring and pin
- Manganese-phosphated
- * Length not standardised



| Code | No. | * | ⬡ " | ⬡ | □ " | □ | L | | |
|---|---|---|---|---|---|---|---|---|---|
| 6524150 | **KB 619** | | 1/4 | 6.3 | 1/2 | 12.5 | 35 | 72 | 10 |
| 6524230 | **KB 620** | | 1/4 | 6.3 | 1/4 | 6.3 | 25 | 17 | 10 |
| 6530040 | **KB 630** | * | 1/4 | 6.3 | 3/8 | 10.0 | 30 | 40 | 5 |

## 620 - 630

### BIT ADAPTOR 1/4"

- Hex recess drive as per DIN 3126 - D 6.3 (1/4") and square drive as per DIN 3120 - C 6.3 (1/4") / C 10 (3/8")

| Code | No. | ⬡ " | ⬡ | □ " | □ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 1649329 | **620** | 1/4 | 6.3 | 1/4 | 6.3 | 25 | 20 | 10 |
| 1973312 | **630** | 1/4 | 6.3 | 3/8 | 10.0 | 25 | 25 | 1 |

## 635

### PICKUP TOOL FOR BITS

- Practical pickup tool for easy bit changing without damaging the profiles
- Suitable for 4 mm, 6.3 mm (1/4") and 8 mm (5/16") bits
- Protects hands and bit profiles
- No more slipping with oily or damp fingers, even with bits deeply recessed in the bit holder

| Code | No. | | |
|---|---|---|---|
| 2000253 | **635** | 10 | 1 |

## 670

### BIT SCREWDRIVER 1/4"

- Hex recess drive as per DIN 3126 - D 6.3 (1/4"), for bits
- Magnetic screw retainer
- GEDORE vanadium steel

| Code | No. | ⬡ " | ⬡ | $L_1$ | $L_2$ | | |
|---|---|---|---|---|---|---|---|
| 6536590 | **670** | 1/4 | 6.3 | 210 | 100 | 140 | 10 |

## 670 K

### BIT SCREWDRIVER 1/4" short pattern

- Hex recess drive as per DIN 3126 - D 6.3 (1/4"), for bits
- Magnetic screw retainer
- GEDORE vanadium steel

| Code | No. | ⬡ " | ⬡ | mm | | |
|---|---|---|---|---|---|---|
| 1953796 | **670 K** | 1/4 | 6.3 | 80 | 100 | 1 |

## 671

### BIT REVERSIBLE RATCHET

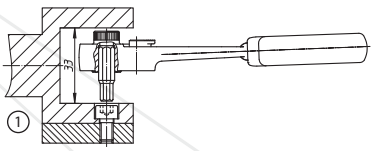
- With knurled head for quick starting or counter-holding of screws
- Hex recess drive as per DIN 3126 - D 6.3 (1/4")
- Slim line design for working in confined spaces

| Code | No. | ⬡ " | ⬡ | ° | mm | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6535350 | **671** | 1/4 | 6.3 | 15 | 127 | 18.3 | 108 | 5 |

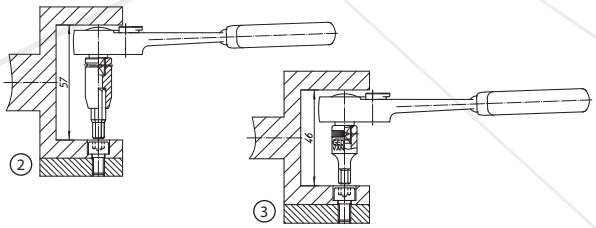
## Features

Slimline design for working in confined spaces

(1) Bit ratchet and bit




(2+3) Ratchet and socket




Quantities in packs may vary.

## 672

### BIT EXTENSION 1/4"

- Hex recess drive as per DIN 3126 - D 6.3 (1/4")
- Hex drive as per DIN 3126 - C 6.3 (1/4")

| Code | No. | ⬢ " | ⬢ | ⬡ " | ⬡ | mm | |
|---|---|---|---|---|---|---|---|
| 6040700 | **672** | 1/4 | 6.3 | 1/4 | 6.3 | 100 | 40 |

## 673 L

### SOCKET HOLDER long

- 1/4" hexagon drive and square drive as per DIN 3120 - A 6.3 (1/4")
- Hand operation
- For use with driving handle no. 676, or torque handle no. 2140

| Code | No. | ■ " | ■ | ⬢ " | ⬢ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 1811061 | **673 L** | 1/4 | 6.3 | 1/4 | 6.3 | 130 | 50 | 1 |

## 673

### ADAPTOR

- Acc. to DIN 7428, ISO 3317
- Hexagon drive as per DIN 3126 - E 6.3 (1/4")
- Square drive as per DIN 3121 for power-driven sockets
- Also suitable for battery screwdrivers without impact effect

| Code | No. | ■ " | ■ | ⬢ " | ⬢ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6536320 | **673 6,3** | 1/4 | 6.3 | 1/4 | 6.3 | 50 | 16 | 10 |
| 1834878 | **673 10** | 3/8 | 10.0 | 1/4 | 6.3 | 50 | 26 | 10 |

## 673 K

### SOCKET HOLDER short pattern

- Hexagon drive as per DIN 3126 - E 6.3 (1/4")
- Square drive as per DIN 3120 - A 6,3 (1/4")

| Code | No. | ■ " | ■ | ⬢ " | ⬢ | mm | |
|---|---|---|---|---|---|---|---|
| 2000245 | **673 K** | 1/4 | 6.3 | 1/4 | 6.3 | 17 | 1 |

## 674

### BIT SCREWDRIVER with reversible mechanism

- Hexagon drive as per DIN 3126 - D 6.3 (1/4"), with powerful magnetic screw retainer
- Smooth gear mechanism with knurled head for quick starting or counter-holding of screws
- The blue handle makes it possible to tighten even hard-to-turn wood screws
- The ratchet is reversible and fully lockable

| Code | No. | ⬡ " | ⬡ | mm | mm | | |
|---|---|---|---|---|---|---|---|
| 6530710 | **674** | 1/4 | 6.3 | 55 | 215 | 259 | 5 |

## 676

### DRIVING HANDLE

- Non-slip 2-component handle
- Recessed hexagon drive 1/4"
- Versatile use

| Code | No. | ⬡ " | ⬡ | | |
|---|---|---|---|---|---|
| 1649337 | **676** | 1/4 | 6.3 | 42 | 1 |

Quantities in packs may vary.

## 698

### BIT HOLDER magnetic

- Hexagon drive as per DIN 3126 - E 6.3 (1/4"), magnetic, and hex recess drive as per DIN 3126 - D 6.3 (1/4")
- Powerful magnetic screw retainer, "automatic holder"

| Code | No. | ⬢ " | ⬢ | ⬡ " | ⬡ | mm | | |
|---|---|---|---|---|---|---|---|---|
| 1761110 | **698** | 1/4 | 6.3 | 1/4 | 6.3 | 73 | 36 | 1 |

## 699

### BIT HOLDER for power tools

- Acc. to DIN 7427 Form D
- Hexagon drive as per DIN 3126 - E 6.3 (1/4") and hex recess drive as per DIN 3126 - D 6.3 (1/4")
- With magnetic holder
- Chrome-plated

| Code | No. | ⬢ " | ⬢ | ⬡ " | ⬡ | | mm | | |
|---|---|---|---|---|---|---|---|---|---|
| 6538610 | **699** | 1/4 | 6.3 | 1/4 | 6.3 | 30 | 60 | 23 | 10 |

## 699 L

### BIT HOLDER LONG long

- Hexagon drive as per DIN 3126 - C 6.3 (1/4") and hex recess drive as per DIN 3126 - D 6.3 (1/4")
- With magnetic screw retainer
- Hand operation
- For use with driving handle, No. 676, or torque handle, No. 2140

| Code | No. | ⬢ " | ⬢ | ⬡ " | ⬡ | | mm | | |
|---|---|---|---|---|---|---|---|---|---|
| 1802437 | **699 L** | 1/4 | 6.3 | 1/4 | 6.3 | 32 | 130 | 39 | 1 |

## 700

### BIT HOLDER magnetic

- Quick-grip system for hex bits as per DIN 3126 - C 6.3 + E 6.3 (1/4")

| Code | No. | ⬢ " | ⬢ | ⬡ " | ⬡ | ø | mm | | |
|---|---|---|---|---|---|---|---|---|---|
| 6530550 | **700** | 1/4 | 6.3 | 1/4 | 6.3 | 14 | 51 | 26 | 1 |

## 169

### MAGAZINE HANDLE SCREWDRIVER

- For highest demands
- With 1/4" recessed hexagon drive
- Magnetic magazine handle with room for 7 bits
- Cap with click-locking
- No. 169 L = empty

| Code | No. | Contents | | | | |
|---|---|---|---|---|---|---|
| 6432700 | **169** | **680** 4 5,5 6,5<br>**690** 1 2<br>**690 PZD** 1 2 | 115 | 220 | 206 | 1 |
| 6432620 | **169 L** | | 115 | 220 | 161 | 1 |

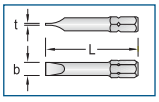
Quantities in packs may vary.

# 8 MM (5/16") HEXAGON DRIVE

## 880

### SCREWDRIVER BIT for slotted head screws

- For hand operation and use in electric and air tools
- For extra heavy use
- Acc. to DIN ISO 2351-1
- Hexagon drive as per DIN 3126 - C 8 (5/16")
- GEDORE special vanadium steel, gun-metal finish

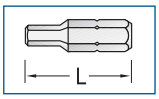


| Code | No. | b | t | L | | |
|---|---|---|---|---|---|---|
| 6566740 | **880 5,5** | 5.5 | 0.8 | 41 | 12 | 10 |
| 6566820 | **880 6,5** | 6.5 | 1.2 | 41 | 13 | 10 |
| 6566900 | **880 7** | 7.0 | 1.2 | 41 | 14 | 10 |
| 6567040 | **880 8** | 8.0 | 1.6 | 41 | 15 | 10 |
| 6567120 | **880 9** | 9.0 | 1.6 | 41 | 16 | 10 |
| 6567200 | **880 10** | 10.0 | 1.6 | 41 | 19 | 10 |
| 6567390 | **880 12** | 12.0 | 2.0 | 41 | 237 | 10 |
| 6567470 | **880 14** | 14.0 | 2.5 | 41 | 29 | 10 |

## 885

### SCREWDRIVER BIT for in-hex screws

- For hand operation and use in electric and air tools
- For extra heavy use
- Acc. to DIN ISO 2351-3
- Hexagon drive as per DIN 3126 - C 8 (5/16")
- GEDORE special vanadium steel, gun-metal finish

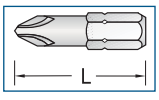


| Code | No. | mm | ISO 4762 | DIN 7984 | L | | |
|---|---|---|---|---|---|---|---|
| 6568010 | **885 3** | 3 | M4 | M5 | 30 | 9 | 10 |
| 6568280 | **885 4** | 4 | M5 | M6 | 30 | 10 | 10 |
| 6568360 | **885 5** | 5 | M6 | M8 | 30 | 11 | 10 |
| 6568440 | **885 6** | 6 | M8 | M10 | 30 | 11 | 10 |
| 6568520 | **885 8** | 8 | M10 | M12 | 30 | 13 | 10 |
| 6568600 | **885 10** | 10 | M12 | M14 | 30 | 171 | 10 |

## 890

### SCREWDRIVER BIT for cross-slotted head screws PH

- For hand operation and use in electric and air tools
- For extra heavy use
- Acc. to DIN ISO 2351-2, tip as per DIN ISO 8764-1 PH
- Hexagon drive as per DIN 3126 - C 8 (5/16")
- GEDORE special vanadium steel, gun-metal finish
- Size 4: the length is not standardised

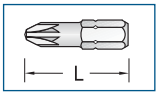


| Code | No. | PH | L | | |
|---|---|---|---|---|---|
| 6571580 | **890 1** | 1 | 32 | 10 | 10 |
| 6571660 | **890 2** | 2 | 32 | 10 | 10 |
| 6571740 | **890 3** | 3 | 32 | 10 | 10 |
| 6571820 | **890 4** | 4 | 32 | 12 | 10 |
| 6571900 | **890 4 L** | 4 | 38 | 15 | 10 |

## 890 PZD

### SCREWDRIVER BIT for cross-slotted head screws PZ

- For hand operation and use in electric and air tools
- For extra heavy use
- Acc. to DIN ISO 2351-2, tip as per DIN ISO 8764-1 PZ
- Hexagon drive as per DIN 3126 - C 8 (5/16")
- GEDORE special vanadium steel, gun-metal finish
- Size 4: the length is not standardised

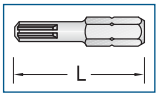


| Code | No. | PZ | L | | |
|---|---|---|---|---|---|
| 6553250 | **890 PZD 1** | 1 | 32 | 9 | 10 |
| 6553330 | **890 PZD 2** | 2 | 32 | 10 | 10 |
| 6553410 | **890 PZD 3** | 3 | 32 | 11 | 10 |
| 6553760 | **890 PZD 4** | 4 | 32 | 13 | 10 |

## 886

### SCREWDRIVER BIT for multi-spline screws RIBE®

- For hand operation and use in electric and air tools
- For extra heavy use
- Hexagon drive as per DIN 3126 - C 8 (5/16")
- GEDORE special vanadium steel, gun-metal finish
- RIBE® = reg. trademark of Richard Bergner GmbH & Co. KG, Schwabach, Germany

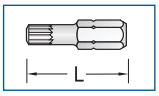


| Code | No. | M | L | | |
|---|---|---|---|---|---|
| 6570340 | **886 4** | M4 | 38 | 10 | 10 |
| 6570420 | **886 5** | M5 | 38 | 11 | 10 |
| 6570500 | **886 6** | M6 | 38 | 12 | 10 |
| 6570690 | **886 8** | M8 | 38 | 13 | 10 |
| 6570770 | **886 10** | M10 | 38 | 19 | 10 |
| 6570850 | **886 12** | M12 | 38 | 24 | 10 |
| 6570930 | **886 14** | M14 | 38 | 30 | 10 |

## 885 X

### SCREWDRIVER BIT for multi-point screws XZN

- For hand operation and use in electric and air tools
- For extra heavy use
- Hexagon drive as per DIN 3126 - C 8 (5/16"), tip as per DIN 2325
- GEDORE special vanadium steel, gun-metal finish



| Code | No. | M | L | | |
|---|---|---|---|---|---|
| 6569170 | **885 X 5** | M5 | 28 | 9 | 10 |
| 6569250 | **885 X 6** | M6 | 28 | 9 | 10 |
| 6569330 | **885 X 8** | M8 | 28 | 11 | 10 |
| 6569410 | **885 X 10** | M10 | 38 | 20 | 10 |
| 6569680 | **885 X 12** | M12 | 38 | 25 | 10 |
| 6569760 | **885 X 14** | M14 | 38 | 30 | 10 |

635

249

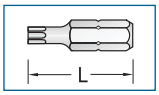


Quantities in packs may vary.

## 887 TX

### SCREWDRIVER BIT for recessed TORX® head screws

- For hand operation and use in electric and air tools
- For extra heavy use
- Hexagon drive as per DIN 3126 - C 8 (5/16")
- GEDORE special vanadium steel, gun-metal finish
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

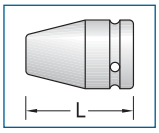


| Code | No. | | | mm | L | | |
|---|---|---|---|---|---|---|---|
| 6571070 | **887 TX T27** | T27 | M4,5 - M6 | 4.99 | 35 | 11 | 10 |
| 6571150 | **887 TX T30** | T30 | M6 - M7 | 5.52 | 35 | 12 | 10 |
| 6571230 | **887 TX T40** | T40 | M7 - M8 | 6.65 | 35 | 13 | 10 |
| 6571310 | **887 TX T45** | T45 | M8 - M10 | 7.82 | 35 | 14 | 10 |
| 6575140 | **887 TX T50** | T50 | M10 | 8.83 | 35 | 15 | 10 |
| 2111225 | **887 TX T55** | T55 | M12 | 11.22 | 35 | 21 | 10 |

## KB 819 - KB 830

### ADAPTOR PIECES for screwdriver bits

- Acc. to DIN 7427 Form A
- Hex recess drive as per DIN 3126 - D 8 (5/16") and square drive Form G DIN 3121
- For hand-operated or power tools
- For use in power tools, we recommend the use of a locking ring and pin
- Manganese-phosphated
- * Length not standardised



| Code | No. | * | " | | " | | L | | |
|---|---|---|---|---|---|---|---|---|---|
| 6563480 | **KB 819** | | 5/16 | 8 | 1/2 | 12.5 | 35 | 75 | 5 |
| 6563560 | **KB 820** | * | 5/16 | 8 | 1/4 | 6.3 | 25 | 18 | 10 |
| 6563800 | **KB 830** | | 5/16 | 8 | 3/8 | 10.0 | 30 | 40 | 10 |

## 870

### BIT SCREWDRIVER

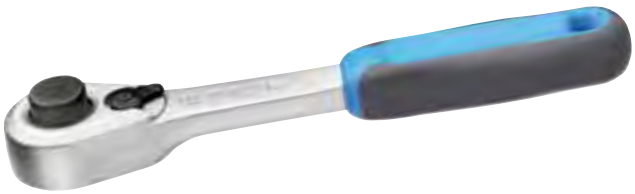
- Hex recess as per DIN 3126 - D 8 (5/16")
- Magnetic screw retainer
- GEDORE vanadium steel

| Code | No. | " | | $L_1$ | $L_2$ | | |
|---|---|---|---|---|---|---|---|
| 6565500 | **870** | 5/16 | 8 | 210 | 100 | 131 | 10 |

## 871

### BIT REVERSIBLE RATCHET

- With knurled head for quick starting or counter-holding of screws
- Hex recess drive as per DIN 3126 - D 8 (5/16")
- Slim line design for working in confined spaces



| Code | No. | " | | ° | mm | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6535430 | **871** | 5/16 | 8 | 15 | 127 | 20.2 | 100 | 5 |

## 872

### BIT EXTENSION 5/16"

- Hex recess drive as per DIN 3126 - D 8 (5/16")
- Hex drive as per DIN 3126 - C 8 (5/16")

| Code | No. | " | | " | | mm | |
|---|---|---|---|---|---|---|---|
| 6040890 | **872** | 5/16 | 8 | 5/16 | 8 | 100 | 50 |

## 871-021

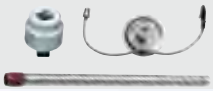
### BIT SET 24 pieces

- Extra slim bit ratchet with most popular bit sizes
- For working in extremely confined spaces
- Bits easy to see, always at hand, fitted into shaped plastic insert in shock-proof plastic case, dimensions: 200 x 120 x 38 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Ratchet | Sockets | Accessories | | |
|---|---|---|---|---|---|---|
| 6570180 | **871-021** | **871** | **880** 5,5 6,5 8 10<br>**885** 3 4 5 6 8<br>**890** 2 3<br>**890 PZD** 2 3 4<br>**887 TX** T27 T30 T40 T45 T50 | **872** | 717 | 1 |

Quantities in packs may vary.

## Controlled safety + secure precision joints


| | | |
|---|---|---|
| SERVICE / FEATURES | | 256 – 261<br>312 – 327, 335 |
| DREMOMETER<br>AM-F | | 262 – 267 |
| ACCESSORIES DREMOMETER |  | 268, 310 |
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GEDORE

# Torque Tools

## GEDORE Torque tools... tightening, measuring, testing!

### Maximum production depth from a single source

- Use of the very best steel grades, state-of-the-art machinery and environmentally-friendly production processes
- Our tool experts guarantee precision-like processing and permanent development
- Precise adherence to stringent testing and measuring specifications are proof of maximum product quality.
- Large selection of mechanical and electronic torque wrenches, test equipment, torque multipliers and accessories
- Available singly or in practical sets
- Tailored service packages through to development of special customised tools

### Maximum control during production guarantees a constantly high level.

- All parts incorporated in the production process - from steel through to the smallest spring - are controlled while all manufacturing and work steps are subject to stringent quality controls.
- After assembly, adjustment and calibration, torque tools are tested for accuracy in the end control stage and given a serial number (unique product identification) and factory test certificate in accordance with the applicable DIN EN ISO standard.
- Within the framework of regular continuous tests, processing quality, repeat accuracy and durability are tested. The results of these tests are integrated directly in optimising the production process.

### Controlled screw tightening - reliable and safe for more than 50 years

- Guaranteed high precision and user safety have been a top priority for decades.
- Top-grade industrial quality for the hardest of continuous uses
- Indispensable and very resilient aids for tough everyday workshop environments
- Torque tools are measuring equipment. Over the long term, accuracy can only be assured in the form of regular tests (recalibration) (at least once a year / at the latest after 5000 load cycles).

### Top-level authorised calibration and competent control

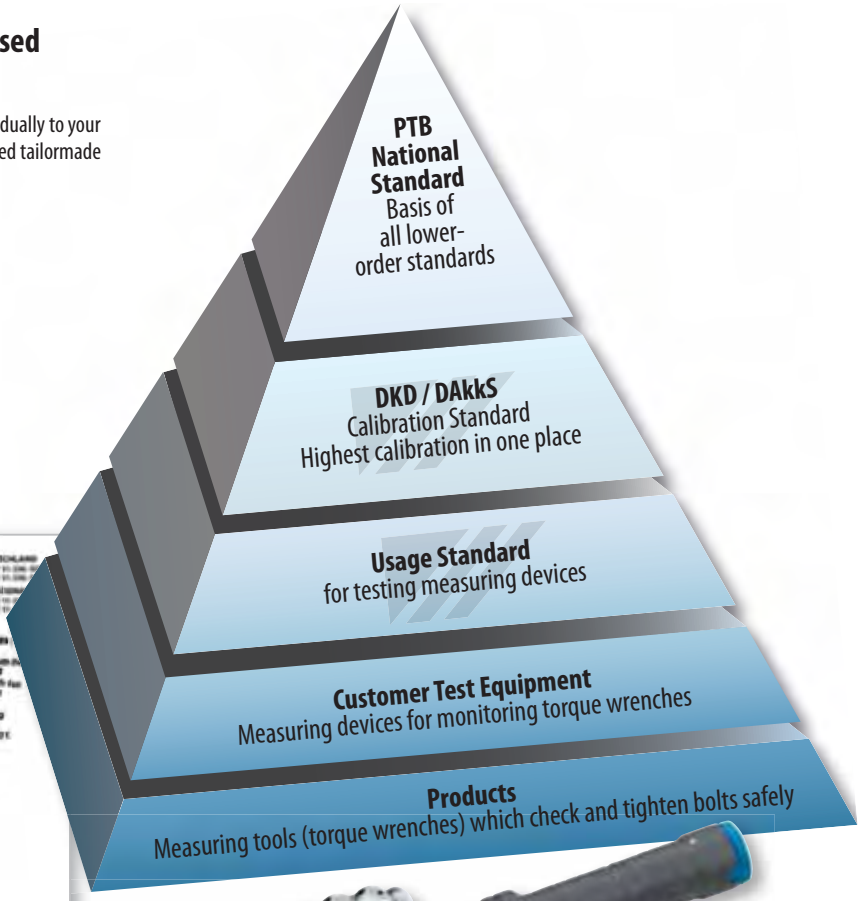
DKD-K-28201

- Own accredited DKD calibration laboratory for torques with (licence for testing in acc. with DKD guidelines 3-7/3-8/DIN EN ISO 6789:2003) the registration number: DKD-K-28201
- National co-operation partner to the German Calibration Service (DKD) since accreditation (DIN EN ISO / IEC 17025) and authorisation by PTB in 2000
- Official examination of all test and measuring equipment once a year in the DKD laboratory by the Physikalisch-Technische Bundesanstalt in Braunschweig (PTB)
- Internal precision testing of all test and measuring equipment at least once every 3 months

## Our all-round service - qualified and customised

We offer you a wide range of services, which can be matched quite individually to your requirements. Your problems are our challenges. We can offer you qualified tailormade support in the following areas:

- In-house calibration according to DIN EN ISO 6789:2003
- DKD calibration in our own accredited DKD calibration laboratory
- Repair service for our own brands
- Demonstration/hire tools at favourable prices
- Competent advice via our service telephone
- Problem solving with the aid of our technical field service
- Product training (internal and external)
- Product presentations (internal and external)
- Involvement in your in-house fairs
- Special solutions in the engineering field / GEDORE SOLUTIONS



### Technical field service

Make use of our qualified advice to solve your technical problems, via telephone or on-site during work. We will willingly assist you in making your choice of the most suitable tool - from standard solutions up to and including customised manufacture for specific uses. Product training courses and presentations are also included in our service offering as is assistance at your company exhibitions.

**We help you at any time...**

### Service-telephone

Between 7.30 a.m. and 4.30 p.m., our customer service operators will answer all your questions about products, including technical enquiries, fast and efficiently.

**Hotline:**
**+49 (0) 1804 37 36 68**

DKD calibration 318, 312 - 319

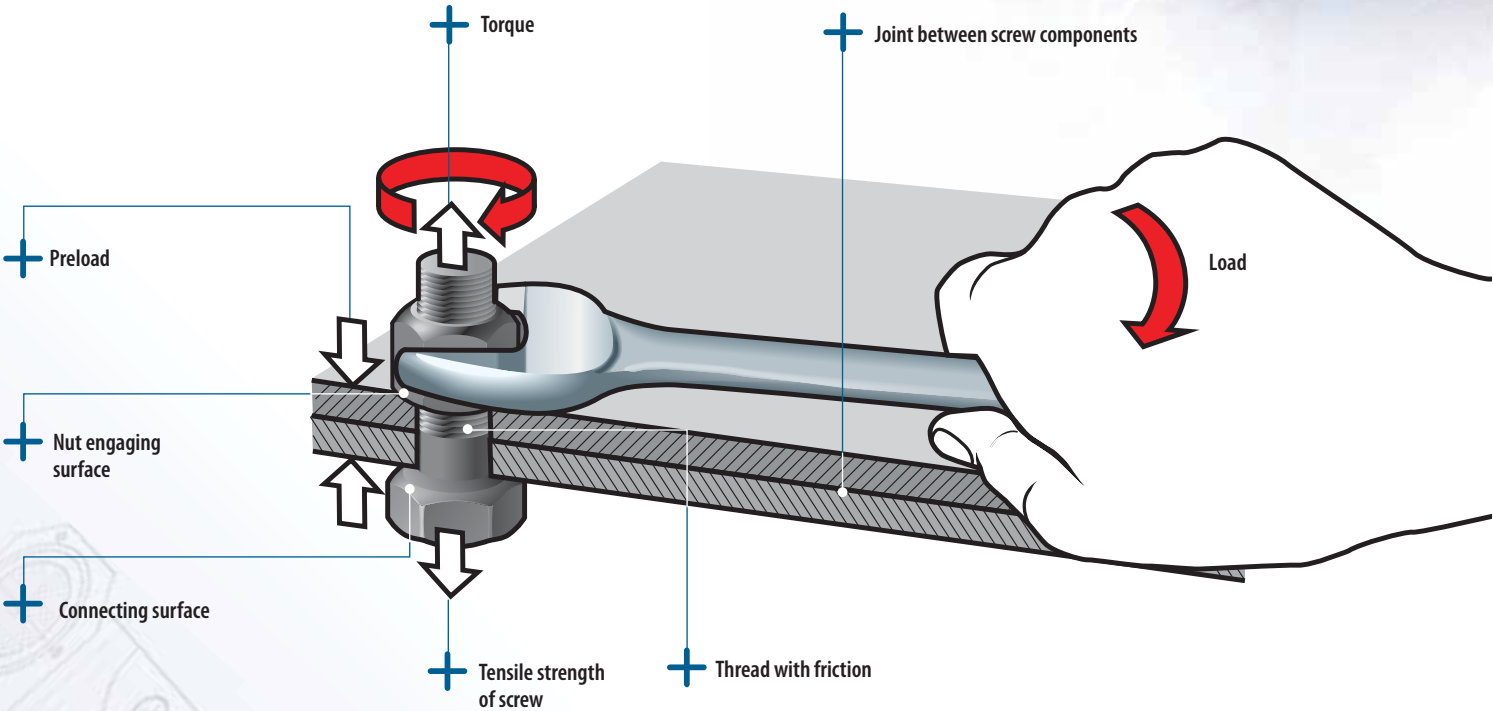
Factory calibration 319, 312 - 319

# Torques and forces

There are different methods to tighten a screw connection. The mechanic works manually and intuitively when using open-ended spanners or ring spanners.
The mechanic evaluates if the screw connection fits securely i.e. tightly according to the resistance at the spanner. Seems logical, however, this process is not reliable.
Only modern processes can be taken into account when tightening important screw connections with guaranteed pre-loads as e.g. tightening with torque wrenches (with or without pivoting angle), motor-driven tightening processes, tightening with ultrasound (to determine pre-load) or tightening with yield stress determination.
Experience has shown that the use of torque tools is sensible. Torque wrenches are a must where controlled screw tightening is required.
The following explanatory remarks and terminology explanations are intended for giving you a rough insight into the world of controlled screw tightening.

## What is tightening torque?

The tightening torque is the force specified in Newton metres (N·m) which is generated at the end of a lever and creates a corresponding pre-tension force on a screw connection.
That might be e.g. the square drive of a torque wrench or, as shown in the diagramm, the open end of a spanner.
The screw-tightening torque consists of the thread tightening torque and the seat frictional torque (screw head or nut seat).
In the process, the seat's frictional torque does not contribute to an increase in the pre-tension force.




## Working principle

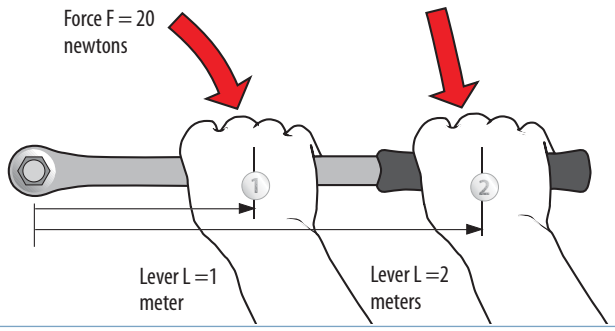
The diagramm shows how two metal plates are joined together (pressed together) in a plug-type screw connection by the tightening of one nut.
The angle of pitch of the thread is responsible for the resulting tensile force produced in the screw. A wind-up force is caused by a tensile force. This pre-tension force is decisive for the optimum screw connection. Why? An optimally tightened screw connection develops sufficient resistance against being loosened.

If the pre-tension force is too weak, the screw connection might vibrate or loosen. If the pre-tension is too great, the danger exists that the screw connection might fracture. You can achieve the optimum pre-tension force with the correct tightening torque. Every screw connection has a certain tightening torque for various fastening requirements. Only if these values are taken into consideration it is possible to tighten a screw connection to a certain pre-tension force in a manner which is safe, works properly and is cost-effective.

# How is the torque measured?

The torque is calculated by multiplying the force "F" applied to the lever with the distance from the pivot point to the point of application "L" (length of the lever).
Mathematically, that is expressed as follows: Torque $M_A$ = Force F x Lever L

## Working principle

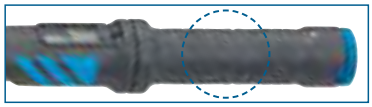



The diagram shows dependencies of force F and lever L on the torque on the base of 2 examples.

In order to determine the relevant torque, we employ the formula „$M_A$ = F x L".

1. $M_A$ = F x L = 20 N x 1 m = 20 N·m (newton meters)
2. $M_A$ = F x L = 20 N x 2 m = 40 N·m (newton meters)

This means that the actual torque applied to the screw changes if the hand's position on the wrench changes.



Also applies for DREMASTER...
Handgrip with user aid

## Operable without inaccuracies

### DREMOMETER Type MINI - F

In the DREMOMETER, we got around the physical principle explained above using constructional cleverness. Irrespective of where you apply the force - whether it be in the middle of the handgrip or at another position ot the DREMOMETER, whether it be with both hands or using an extension tube - the torque set by you is always achieved exactly - without shifts in value! By virtue of an axial position of the pivot point and the output square drive, the DREMOMETER is a tool which is operable without inaccuracies. By contrast to conventional torque wrenches, this single lever enables tightening without shifts in the measured value and without actuation away from the handgrip adversely affecting the accurancy.

Please note that most conventional torque wrenches can only be actuated at the middle of the handgrip because, otherwise, considerable shifts in value could occur. Do you want to play it safe? Then choose DREMOMETER.

### DREMOMETER with spanners

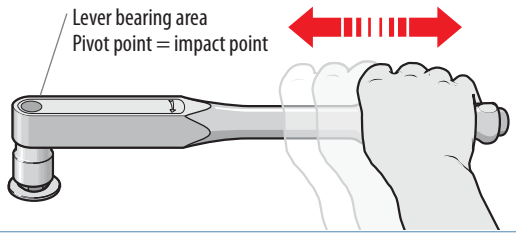
When the DREMOMETER is actuated with a special extension spanner, the single lever mentioned above is no longer the case.
The attached spanner alters the conditions to the extent that the pivot point is now situated outside of the output square drive and thus a socalled double lever acts upon the screw connection.
That has the consequence that the hand's pressure "F" can now only be applied to the middle of the handgrip. Every other pressure point would inevitably lead to shifts in value.

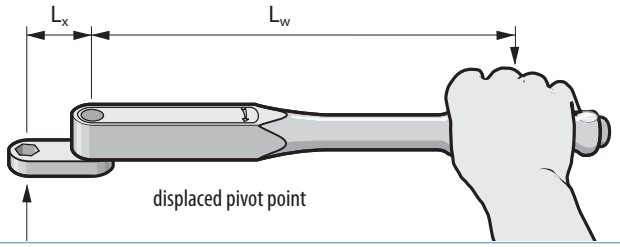
Set torque = Our DREMOMETER and SE operate in accordance with the same principle.
Here, the position of the pivot point also shifts to the front. These wrenches must also be actuated at the middle of the handgrip.
However, if you are using our spanner end fittings, then the setting torque does not have to be re-calculated on the basis of the below-specified formula. Keep the depth gauges in the certificate in mind.
Note: Do not use end fittings together with a DREMOMETER with integrated ratchet!

The set torque ($M_{xW}$) when using special spanners is determined along the following lines:

$$\frac{M_A \times l_w}{l_x + l_w}$$

F = Hand pressure
$M_{xW}$ = Set torque, which has to be set on the scale of the DREMOMETER
$M_A$ = Tightening torque, used to tighten the screw or nut
$l_w$ = Distance from the middle of the square drive of the DREMOMETER to the middle of the handgrip
$l_x$ = Distance from the middle of the square drive of the DREMOMETER to the middle of the screw or nut (also called depth gauge end fitting)

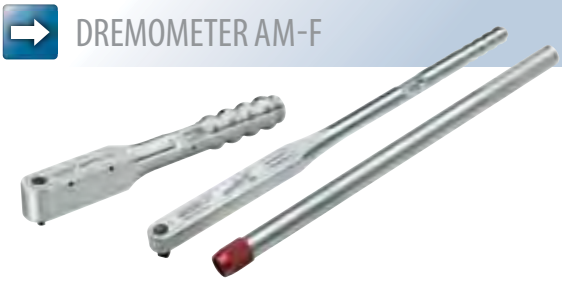




DREMOMETER TYPE MINI - F
269

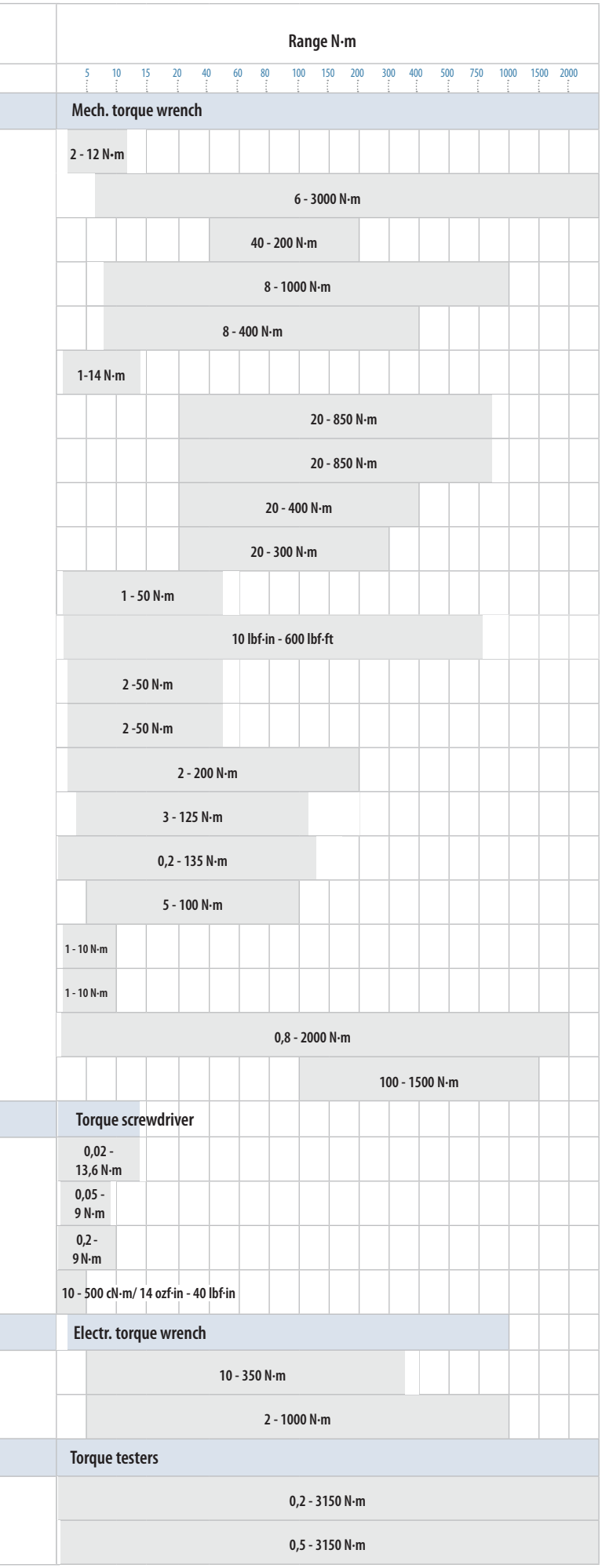
DREMOMETER AM-F
264 - 265

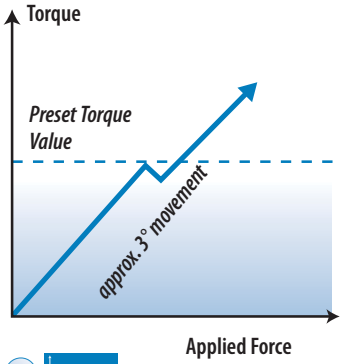
# Overview of GEDORE torque tools

| | Series/Type | Precision | Drive | Ratchet | Scale | Operation length independent | Release types |
|---|---|---|---|---|---|---|---|
| | | + / - | | | | | |
| | **Mech. torque wrench** | **0,2 - 3.000 N·m** | | | | | |
| 269 | DREMOMETER MINI | 3 % | 1/4" | | ● | ● | 1 |
| 264 - 265 | DREMOMETER AM - F | 3 % | 1/4" -> 1 1/2" | | ● | ● | 1 |
| 264 - 265 | DREMOMETER BCK | 3 % | 1/2" | ● | ● | ● | 1 |
| 270 | DREMOMETER Z | 3 % | 16 22 28 | | ● | | 1 |
| 271 | DREMOMETER SE | 3 % | 9x12 14x18 | | ● | | 1 |
| 269 | DREMOMETER FS | 6 % | 1/4" | | | ● | 1 |
| 276 | DREMASTER DMK | 3 % | 1/2" -> 3/4" | ● | ● | | 1 |
| 276 | DREMASTER DMUK | 3 % | 1/2" | ● | ● | | 1 |
| 278 | DREMASTER DMZ | 3 % | 16 22 | | ● | | 1 |
| 279 | DREMASTER DMSE | 3 % | 9x12 14x18 | | ● | | 1 |
| 281 | TORCOFIX K | 3 % | 1/4" -> 3/8" | ● | ● | | 1 |
| 283 | TORCOFIX K US | 3 % | 1/4" -> 3/4" | ● | ● | | 1 |
| 284 | TORCOFIX Z | 3 % | 16 | | ● | | 1 |
| 285 | TOROFIX SE | 3 % | 9x12 | | ● | | 1 |
| 285 | TORCOFIX FS  | 3 % | 9x12 14x18 | | | | 1 |
| 295 | TSN SLIPPER | 4 % | 1/4" -> 1/4" | ● | | ● | 2 |
| 299 | TBN KNICKER | 4 %<br>6 % | 16 9x12<br>(760-00/01) | | | | 3 |
| 300 | ATB | 4 % | 16 9x12 | ● | | | 3 |
| 296 | TSP SLIPPER | 6 % | 1/4" -> 1/2" | ● | | ● | 2 |
| 297 | TSC SLIPPER | 6 % | 1/4" | ● | ● | ● | 2 |
| 301 | Typ 83 | 4 % | 1/4" -> 1" | ● | | ● | |
| 300 | Typ 88 | 4 % | 3/4" 22 | ● | ● | | 3 |
| | **Torque screwdriver** | **0,02 - 13,6 N·m** | | | | | |
| 292 | Typ 755 FS | 6 % | 1/4" | ● | ● | | 2 |
| 291 | Typ 756 S | 6 % | 1/4" | | ● | | 2 |
| 290 | Typ 757 S | 6 % | 1/4" | | ● | | 2 |
| 293 | Typ 758 SP | 6 % | 1/4" | | ● | | |
| | **Electr. torque wrench** | **2 - 1.000 N·m** | | | | | |
| 287 | TORCOTRONIC III | 1 % | 1/2" | ● | ● | | |
| 286 | E-TORC II | 1 % | 1/4" | | ● | | |
| | **Torque testers** | **0,5 - 3.150 N·m** | | | | | |
| 302 | Dremotest E | 1 % | 1/4" -> 1 1/2" | | | | |
| 303 | E-TP | 1 % | 1/4" -> 1 1/2" | | | | |

# Different Torque Tool Mechanisms



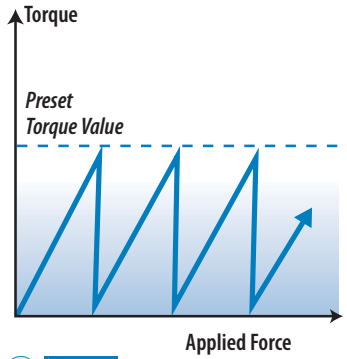

## Click Tools
(Overtightening Possible)




1 Overtightening **Possible**

When the preset torque value is reached the operator will hear a click, feel an impulse and there will be approximately 3° of tool movement. Resetting takes place when the hand pressure is released.
Work can then immediately continue.
These tools are generally length dependent (exception DREMOMETER models AM - F), the position of the hand on the tool alters the torque produced.
Continued application of force after the 3° of movement will cause the torque applied to increase above the required preset limit.

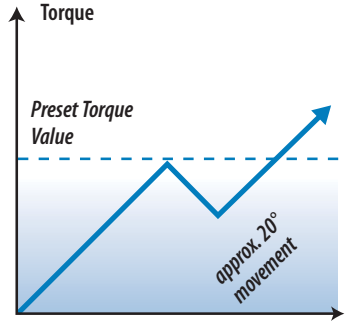
## Slipping Tools
(Overtightening Impossible)




2 Overtightening **Impossible**

When the preset torque value is reached, a mechanism in the tool causes the application of torque to cease and the tool slips free for a short time until resetting occurs.
Even if the application of force is repeated, the preset torque value will not be exceeded, therefore making it impossible to overtighten a fastener.
These tools are not length dependent.

## Breaking Tools
(Overtightening Unlikely)




3 Overtightening **Unlikely**

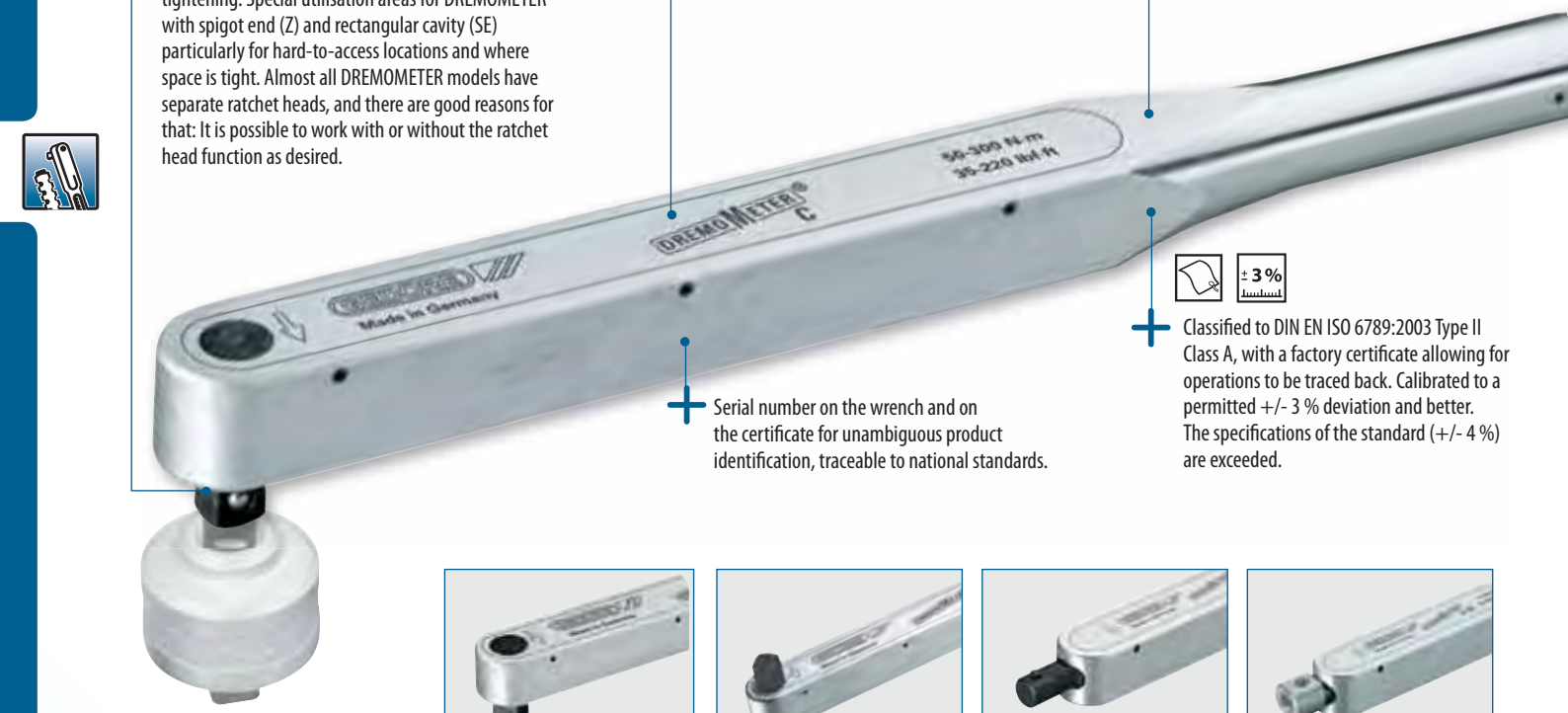
When the preset torque value is reached, these tools break at a specific point along the tool's length - usually at a pivot point near the tool's head.
In most cases the movement is approximately 20°.
The tool is automatically reset by allowing the handle to return to its in line position.
These tools are length dependent, the position of the hand on the tool alters the torque produced.
Continued application of force after 20° of tool movement will increase the torque applied above the preset limit but with the greater angle of tool movement this is less likely.

# DREMOMETER - permanent precision
# Torque wrench made of high-strength aluminium alloy

Drive in accordance with application: DREMOMETERS are available for a large variety of applications in controlled screw tightening. The single square drive for controlled clockwise tightening or the double square drive (L) for controlled bi-directional tightening. Special utilisation areas for DREMOMETER with spigot end (Z) and rectangular cavity (SE) particularly for hard-to-access locations and where space is tight. Almost all DREMOMETER models have separate ratchet heads, and there are good reasons for that: It is possible to work with or without the ratchet head function as desired.

Robust and unsusceptible: The full-metal construction of the DREMOMETER makes it particularly unsusceptible to grime and rough handling on construction sites, in workshops and in industry.

Automatic resetting: The DREMOMETER gives operator an audible signal and tactile impulse and is back in operation in an instant.




Serial number on the wrench and on the certificate for unambiguous product identification, traceable to national standards.

Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate allowing for operations to be traced back. Calibrated to a permitted +/- 3 % deviation and better. The specifications of the standard (+/- 4 %) are exceeded.

¼" - 1½
6-3000 N·m

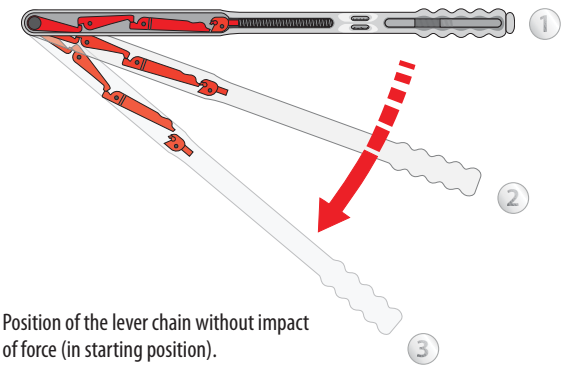
L ¼" - 1"
6-2000 N·m

Z 16 22 28
8-1000 N·m

SE 9x12 14x18
8-400 N·m

## Working principle

The quality lever chain produced in the company's own drop forge reduces the strain on the mechanics to a minimum. The proportioning of the individual levers, which are optimally attuned to each other, gives the DREMOMETER its unique precision and its long tool life.

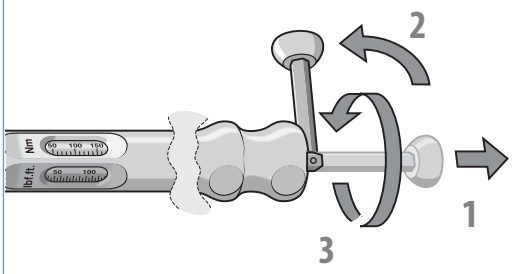



1 Position of the lever chain without impact of force (in starting position).

2 Position of the lever chain with impact of force before the set torque is achieved. The force is transferred from the primary lever to the intermediary and final lever until the final lever slips past the so-called release lever through the sliding back of the angle-lever body.

3 Position of the lever chain when the force impacts after the torque setting is achieved. Immediate position after the clear tactile impulse and audible signal "click". On relief, the lever chain moves back into the starting position (1).

## Technology

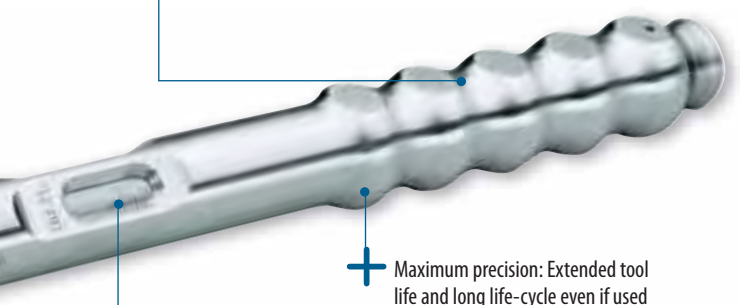



- Setting of the torque value to N·m or alternatively to lbf·in / lbf·ft by the non-losable hexagon key in the handgrip.
- The smooth-running mechanism enables the setting to be made quickly without significant force needing to be applied.

A+S

- All DREMOMETERS are also available with locking and safely device (A+S).

Lightweight and pleasant: The aluminium housing and the ergonomically designed handgrip enable simple and safe operation over wide tightening ranges.

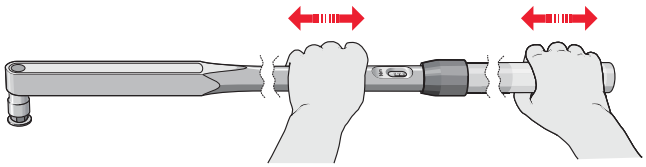


Maximum precision: Extended tool life and long life-cycle even if used intensely.

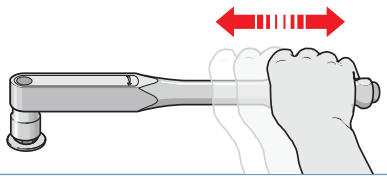
Scale: Clear dual scale N·m and lbf·in/lbf·ft on every DREMOMETER (apart from models E / EL / EK / EKL / F).

## DREMOMETER Type MINI - F
## Operable without inaccuracies

- Regardless of where you apply the force, at the center of the handgrip or another part of the DREMOMETER, with both hands or using an extension tube, your torque setting will always be attained, without shifts in value. Due to



its unique single-axis location of the centre of rotation and the output square drive, the DREMOMETER is a tool that can be operated free from errors. In contrast to conventional torque wrenches, this single lever enables tightening without shifts in the measured value and without interference caused by activation outside of the handgrip.
- (However, value shifts are possible when activating the DREMOMETER with special wrenches or when using wrenches with different depth gauges).



## All the benefits at a single glance

**Square drive**
- In the DREMOMETER, the output square drive and the pivot point of the primary lever are situated on a single axis.
- Advantage: The absolute accuracy always remains unchanged in every case. Even if the tool is operated outside of the handgrip or with an extension tube.

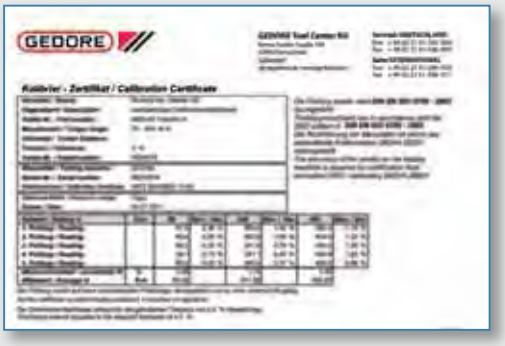
**Lever chain**
- The integrated lever chain reduces the strain on the measuring mechanics to a minimum which means that the measuring mechanics can thus be constructed with much greater sensitivity.
- Advantage: High accuracy and a long life cycle.

**Double square drive**
- DREMOMETER models (except model F) having a double square drive are available on request. Apart from that, separate ratchet heads are available for almost all models (except model F).
- Advantage: Controlled counter-clockwise tightening and work in very narrow spaces are possible without any problems.

**Scale**
- Two scales on each DREMOMETER indicate N·m and the common US unit of torque measurement (apart from types E - F).
- Advantage: Exact reading even for lbf·in or lbf·ft.

**Handgrip**
- The nice-to-hold handgrip enables safe work and less operator fatigue. The full-metal construction makes DREMOMETER models particularly robust.
- Advantage: A high level of dependability even following tough long term work.

**Test certificate**
- All DREMOMETER models include a test certificate according to DIN EN ISO 6789:2003.
- Advantage: Guaranteed accuracy +/-3 % of the adjusted scale value. The specification of the standard (+/- 4 %) is exceeded.



± 3 %

## 8554 AM - 8572 F

### TORQUE WRENCH DREMOMETER AM - F 6-3000 N·m

**Use:**
- Controlled screw tightening in the range 6 - 3000 N·m
- For use in almost all industrial manufacturing areas

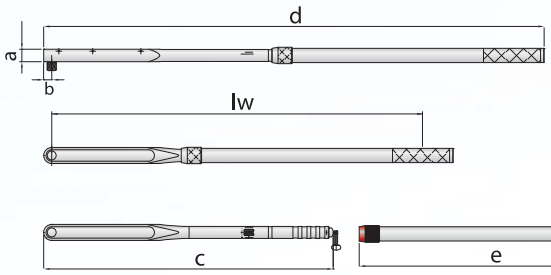
**Features:**
- Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3 % tolerance of scale set torque. The specification of the standard (+/- 4 %) is exceeded.
- Automatic short-path actuation with tactile impulse and audible signal
- Dual scale (except for type E-F) with corresponding scale graduation (see table)
- Type B, BC, C with push-button release
- Type BCK with integrated ratchet function

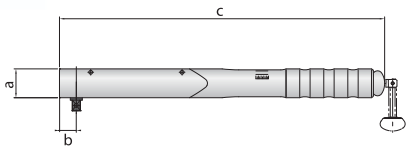
**Technical advantage/Function:**
- Lightweight and robust (as housing is made of an aluminium alloy), very workshop-friendly
- No inaccuracies whether used with both hands or held away from the handle (as for standard torque wrenches) Both the square drive and fulcrum are on an axis which ensures a high degree of user safety; can be extended to reduce the user's working load.
- Extremely low wear attributable to reduced forces in a unique lever mechanism
- Forged lever chain from our own quality forge
- Maximum precision even when subjected to extreme continuous use
- Long life cycles and tool lives
- Easy operation - fast and safe torque tightening
- Easy adjustment thanks to attractive adjusting button secured against loss at the end of the handle
- Single- and double-square drive for controlled bi-directional tightening

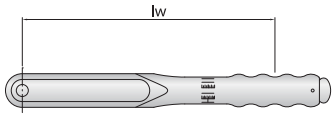
| Code | No. | Type | ■" | ■ | N·m | lbf·in | lbf·ft | لبسلبس |
|---|---|---|---|---|---|---|---|---|
| 7775440 | **8554-01** | AM | 1/4 | 6.3 | 6-30 | 50-270 | – | 1 N·m / 10 lbf·in |
| 7775870 | **8559-01** | AML | 1/4 | 6.3 | 6-30 | 50-270 | – | 1 N·m / 10 lbf·in |
| 7682000 | **8560-01** | A | 3/8 | 10.0 | 8-40 | 70-350 | – | 5 N·m / 50 lbf·in |
| 7682190 | **8565-01** | AL | 3/8 | 10.0 | 8-40 | 70-350 | – | 5 N·m / 50 lbf·in |
| 7683320 | **8561-01** | B | 1/2 | 12.5 | 20-120 | – | 15-90 | 5 N·m / 5 lbf·ft |
| 7683400 | **8566-01** | BL | 1/2 | 12.5 | 20-120 | – | 15-90 | 5 N·m / 5 lbf·ft |
| 7685530 | **8573-00** | BC | 1/2 | 12.5 | 40-200 | – | 30-150 | 5 N·m / 5 lbf·ft |
| 7683670 | **8578-00** | BCL | 1/2 | 12.5 | 40-200 | – | 30-150 | 5 N·m / 5 lbf·ft |
| 1905449 | **8573-10** | BCK | 1/2 | 12.5 | 40-200 | – | 30-150 | 5 N·m / 5 lbf·ft |
| 7685450 | **8562-10** | C | 1/2 | 12.5 | 50-300 | – | 35-220 | 5 N·m / 5 lbf·ft |
| 7685960 | **8567-10** | CL | 1/2 | 12.5 | 50-300 | – | 35-220 | 5 N·m / 5 lbf·ft |
| 7688470 | **8570-10** | CD | 3/4 | 20.0 | 80-360 | – | 60-260 | 5 N·m / 5 lbf·ft |
| 7688710 | **8575-10** | CDL | 3/4 | 20.0 | 80-360 | – | 60-260 | 5 N·m / 5 lbf·ft |
| 1427156 | **8574-10** | DS | 3/4 | 20.0 | 110-550 | – | 80-400 | 10 N·m / 10 lbf·ft |
| 1427121 | **8579-10** | DSL | 3/4 | 20.0 | 110-550 | – | 80-400 | 10 N·m / 10 lbf·ft |
| 7691500 | **8563-10** | D | 3/4 | 20.0 | 140-760 | – | 100-560 | 10 N·m / 10 lbf·ft |
| 7691850 | **8568-10** | DL | 3/4 | 20.0 | 140-760 | – | 100-560 | 10 N·m / 10 lbf·ft |
| 7670180 | **8563-01** | DR | 3/4 | 20.0 | 140-760 | – | 100-560 | 10 N·m / 10 lbf·ft |
| 7670500 | **8568-01** | DRL | 3/4 | 20.0 | 140-760 | – | 100-560 | 10 N·m / 10 lbf·ft |
| 7694010 | **8571-01** | DX | 3/4 | 20.0 | 520-1000 | – | 380-730 | 10 N·m / 10 lbf·ft |
| 7694360 | **8576-01** | DXL | 3/4 | 20.0 | 520-1000 | – | 380-730 | 10 N·m / 10 lbf·ft |
| 2311267 | **8581-01** | EK | 1 | 25.0 | 600-1500 | – | – | 25 N·m |
| 2311291 | **8586-01** | EKL | 1 | 25.0 | 600-1500 | – | – | 25 N·m |
| 7695250 | **8564-01** | E | 1 | 25.0 | 750-2000 | – | – | 50 N·m |
| 7695410 | **8569-01** | EL | 1 | 25.0 | 750-2000 | – | – | 50 N·m |
| 7717160 | **8572-01** | F | 1.1/2 | 40.0 | 1500-3000 | – | – | 50 N·m |

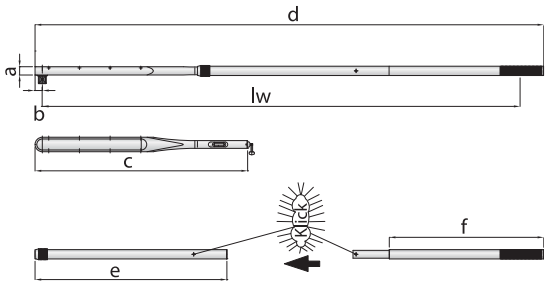


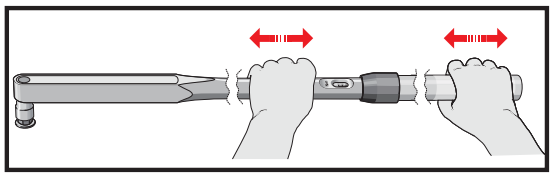
Quantities in packs may vary.



| lw | a | b | c | d | e | f | Tube | |
|---|---|---|---|---|---|---|---|---|
| 207 | 30 | 15.0 | 268 | – | – | – | – | 580 |
| 207 | 30 | 15.0 | 268 | – | – | – | – | 580 |
| 263 | 30 | 17.5 | 338 | – | – | – | – | 1000 |
| 263 | 30 | 17.5 | 338 | – | – | – | – | 1000 |
| 374 | 30 | 17.5 | 462 | – | – | – | – | 1500 |
| 374 | 30 | 17.5 | 462 | – | – | – | – | 1500 |
| 463 | 30 | 17.5 | 551 | – | – | – | – | 1400 |
| 463 | 30 | 17.5 | 551 | – | – | – | – | 1300 |
| 463 | 35 | 20.0 | 554 | – | – | – | – | 1400 |
| 529 | 30 | 17.5 | 617 | – | – | – | – | 2000 |
| 529 | 30 | 17.5 | 617 | – | – | – | – | 2000 |
| 624 | 30 | 22.5 | 717 | – | – | – | – | 2400 |
| 624 | 30 | 22.5 | 717 | – | – | – | – | 2400 |
| 719 | 35 | 22.5 | 812 | – | – | – | – | 2900 |
| 719 | 35 | 22.5 | 812 | – | – | – | – | 2900 |
| 719 | 35 | 22.5 | 812 | – | – | – | – | 3200 |
| 719 | 35 | 22.5 | 812 | – | – | – | – | 3200 |
| 1297 | 35 | 22.5 | 812 | 1413 | 762 | – | 8571-80 | 5000 |
| 1297 | 35 | 22.5 | 812 | 1413 | 762 | – | 8571-80 | 5000 |
| 1297 | 35 | 22.5 | 812 | 1413 | 762 | – | 8571-80 | 5600 |
| 1297 | 35 | 22.5 | 812 | 1413 | 762 | – | 8571-80 | 5600 |
| 1473 | 40 | 30.0 | 932 | 1608 | 925 | – | 8564-92 | 10800 |
| 1473 | 40 | 30.0 | 932 | 1608 | 925 | – | 8564-92 | 10800 |
| 2218 | 40 | 30.0 | 932 | 2353 | 925 | 745 | 8564-92 / 8572-74 | 11600 |
| 2218 | 40 | 30.0 | 932 | 2353 | 925 | 745 | 8564-92 / 8572-74 | 11600 |
| 2313 | 40 | 35.0 | 1025 | 2453 | 925 | 745 | 8564-92 / 8572-74 | 13200 |

Quantities in packs may vary.

8560-03 A
266

753
269

754
268

8568-35
266

## Technical information

- All DREMOMETERs of the types AM to E are also available with double square drive, ideal for controlled bi-directional tightening.
- After being used, torque wrenches should where possible be turned back to the minimum scale value.
- This helps to preserve the springs and ensures a longer product life cycle with high precision.

## 753-12 - 8572-02

### DREMOMETER

1/4" 3/8" 1/2" 3/4" 1" 1½"

± 3 %

| Code | No. | Type | ■" | ■ | N·m | Inclusion | |
|---|---|---|---|---|---|---|---|
| 1957708 | **753-12** | MINI | 1/4 | 6.3 | 2-12 | in plastic cassette | 0.6 |
| 7674090 | **8554-02** | AM | 1/4 | 6.3 | 6-30 | in plastic cassette | 0.9 |
| 7673790 | **8559-02** | AML | 1/4 | 6.3 | 6-30 | in plastic cassette | 0.9 |
| 7682270 | **8560-02** | A | 3/8 | 10.0 | 8-40 | in a sheet-metal case | 2.2 |
| 7682350 | **8565-02** | AL | 3/8 | 10.0 | 8-40 | in a sheet-metal case | 2.2 |
| 7683830 | **8561-02** | B | 1/2 | 12.5 | 20-120 | in a sheet-metal case | 2.8 |
| 7684130 | **8566-02** | BL | 1/2 | 12.5 | 20-120 | in a sheet-metal case | 2.8 |
| 7683590 | **8573-02** | BC | 1/2 | 12.5 | 40-200 | in a sheet-metal case | 3.5 |
| 7683750 | **8578-02** | BCL | 1/2 | 12.5 | 40-200 | in a sheet-metal case | 3.5 |
| 7686340 | **8562-20** | C | 1/2 | 12.5 | 50-300 | in a sheet-metal case | 3.6 |
| 7686690 | **8567-20** | CL | 1/2 | 12.5 | 50-300 | in a sheet-metal case | 3.6 |
| 7689280 | **8570-20** | CD | 3/4 | 20.0 | 80-360 | in a sheet-metal case | 6.2 |
| 7689520 | **8575-20** | CDL | 3/4 | 20.0 | 80-360 | in a sheet-metal case | 6.2 |
| 1436112 | **8574-20** | DS | 3/4 | 20.0 | 110-550 | in a sheet-metal case | 6.7 |
| 1436120 | **8579-20** | DSL | 3/4 | 20.0 | 110-550 | in a sheet-metal case | 6.7 |

| Code | No. | Type | ■" | ■ | N·m | Inclusion | |
|---|---|---|---|---|---|---|---|
| 7692070 | **8563-20** | D | 3/4 | 20.0 | 140-760 | in a sheet-metal case | 7.7 |
| 7692310 | **8568-20** | DL | 3/4 | 20.0 | 140-760 | in a sheet-metal case | 7.7 |
| 7670260 | **8563-02** | DR | 3/4 | 20.0 | 140-760 | in a sheet-metal case with extension tube | 8.8 |
| 7670690 | **8568-02** | DRL | 3/4 | 20.0 | 140-760 | in a sheet-metal case with extension tube | 8.8 |
| 7694520 | **8571-02** | DX | 3/4 | 20.0 | 520-1000 | in a sheet-metal case with extension tube | 10.0 |
| 7694600 | **8576-02** | DXL | 3/4 | 20.0 | 520-1000 | in a sheet-metal case with extension tube | 10.0 |
| 2311275 | **8581-02** | EK | 1 | 25.0 | 600-1500 | in sheet-metal case with 1 extension tube | 24.3 |
| 2311305 | **8586-02** | EKL | 1 | 25.0 | 600-1500 | in sheet-metal case with 1 extension tube | 24.3 |
| 7695680 | **8564-02** | E | 1 | 25.0 | 750-2000 | in sheet-metal case with 2 extension tubes | 24.3 |
| 7695840 | **8569-02** | EL | 1 | 25.0 | 750-2000 | in sheet-metal case with 2 extension tubes | 24.3 |
| 7717240 | **8572-02** | F | 1.1/2 | 40.0 | 1500-3000 | in sheet-metal case with 2 extension tubes | 24.0 |

## 753-13 - 8572-03

### DREMOMETER SETS MM

1/4" 3/8" 1/2" 3/4" 1"

± 3 %

mm

| Code | No. | Type | ■" | ■ | N·m | Inclusion | |
|---|---|---|---|---|---|---|---|
| 1957724 | **753-13** | MINI | 1/4 | 6.3 | 2-12 | Set mm<br>○ 4 5 5,5 6 7 8 9 10<br>⊕ 1 2 3 ⊖ 4 5,5 6,5 ◉ 3 4 5 6<br>✱ T20 T27 T30<br>754-00 55 + 97 mm<br>2098 | 1.0 |
| 7674170 | **8554-03** | AM | 1/4 | 6.3 | 6-30 | Set mm<br>○ 8 9 10 11 12 13 14<br>⊕ 3 ⊖ 5.5 ◉ 4 5 6 8<br>✱ T20 T27 T30<br>754-00 55 + 97 mm | 1.3 |
| 7675060 | **8559-03** | AML | 1/4 | 6.3 | 6-30 | Set mm<br>○ 8 9 10 11 12 13 14<br>⊕ 3 ⊖ 5.5 ◉ 4 5 6 8<br>✱ T20 T27 T30<br>754-00 55 + 97 mm | 1.3 |
| 7682430 | **8560-03** | A | 3/8 | 10.0 | 8-40 | Set mm<br>○ 8 10 11 13 14 15 17 19<br>◉ 4 5 6 8<br>754-01 125 + 250 mm | 3.1 |
| 7682940 | **8565-03** | AL | 3/8 | 10.0 | 8-40 | Set mm<br>○ 8 10 11 13 14 15 17 19<br>◉ 4 5 6 8<br>754-01 125 + 250 mm | 3.1 |
| 7684480 | **8561-03** | B | 1/2 | 12.5 | 20-120 | Set mm<br>○ 11 13 14 17 19 22 24<br>◉ 6 8 10 12<br>754-02 76 + 125 + 250 mm | 4.7 |
| 7684640 | **8566-03** | BL | 1/2 | 12.5 | 20-120 | Set mm<br>○ 11 13 14 17 19 22 24<br>◉ 6 8 10 12<br>754-02 76 + 125 + 250 mm | 4.7 |
| 7683910 | **8573-03** | BC | 1/2 | 12.5 | 40-200 | Set mm<br>○ 11 13 14 17 19 21 22 24 27<br>◉ 6 8 10 12<br>754-02 125 + 250 mm | 5.1 |
| 7684050 | **8578-03** | BCL | 1/2 | 12.5 | 40-200 | Set mm<br>○ 11 13 14 17 19 21 22 24 27<br>◉ 6 8 10 12<br>754-02 125 + 250 mm | 5.1 |
| 7687070 | **8562-30** | C | 1/2 | 12.5 | 50-300 | Set mm<br>○ 17 19 22 24 27 30 32<br>◉ 8 10 12 14<br>754-02 76 + 125 + 250 mm | 6.0 |

| Code | No. | Type | ■" | ■ | N·m | Inclusion | |
|---|---|---|---|---|---|---|---|
| 7687310 | **8567-30** | CL | 1/2 | 12.5 | 50-300 | Set mm<br>○ 17 19 22 24 27 30 32<br>◉ 8 10 12 14<br>754-02 76 + 125 + 250 mm | 6.0 |
| 7689950 | **8570-30** | CD | 3/4 | 20.0 | 80-360 | Set mm<br>○ 19 22 24 27 30 32<br>754-04 200 + 400 mm | 11.0 |
| 7690290 | **8575-30** | CDL | 3/4 | 20.0 | 80-360 | Set mm<br>○ 19 22 24 27 30 32<br>754-04 200 + 400 mm | 11.0 |
| 7692660 | **8563-30** | D | 3/4 | 20.0 | 140-760 | Set mm<br>○ 22 24 27 30 32 36 41 46<br>754-04 200 + 400 mm | 13.6 |
| 7692900 | **8568-30** | DL | 3/4 | 20.0 | 140-760 | Set mm<br>○ 22 24 27 30 32 36 41 46<br>754-04 200 + 400 mm | 13.6 |
| 7670340 | **8563-03** | DR | 3/4 | 20.0 | 140-760 | Set mm<br>○ 22 24 27 30 32 36 41 46<br>754-04 200 + 400 mm | 14.4 |
| 7670770 | **8568-03** | DRL | 3/4 | 20.0 | 140-760 | Set mm<br>○ 22 24 27 30 32 36 41 46<br>754-04 200 + 400 mm | 14.4 |
| 7670930 | **8568-35** | DR-LKW | 3/4 | 20.0 | 140-760 | Set mm<br>○ 27 30 32<br>754-04 400 mm | 12.3 |
| 7694870 | **8571-03** | DX | 3/4 | 20.0 | 520-1000 | Set mm<br>○ 30 32 36 41 46 50<br>754-04 200 + 400 mmm | 16.8 |
| 7694950 | **8576-03** | DXL | 3/4 | 20.0 | 520-1000 | Set mm<br>○ 30 32 36 41 46 50<br>754-04 200 + 400 mm | 16.8 |
| 2311283 | **8581-03** | EK | 1 | 25.0 | 600-1500 | Set mm<br>○ 36 41 46 50 55 60 65 70<br>754-06 200 + 400 mm | 42.4 |
| 2311313 | **8586-03** | EKL | 1 | 25.0 | 600-1500 | Set mm<br>○ 36 41 46 50 55 60 65 70<br>754-06 200 + 400 mm | 42.4 |
| 7696060 | **8564-03** | E | 1 | 25.0 | 750-2000 | Set mm<br>○ 36 41 46 50 55 60 65 70<br>754-06 200 + 400 mm | 42.4 |
| 7696140 | **8569-03** | EL | 1 | 25.0 | 750-2000 | Set mm<br>○ 36 41 46 50 55 60 65 70<br>754-06 200 + 400 mm | 42.4 |



Quantities in packs may vary.

## 753-14 - 8572-04

### DREMOMETER SETS INCH

| Code | No. | Type | ■" | ■ | N·m | Inclusion | |
|---|---|---|---|---|---|---|---|
| 1957732 | **753-14** | MINI | 1/4 | 6.3 | 2-12 | Set INCH<br>○ 3/16 7/32 1/4 9/32 5/16 11/32 3/8 7/16"<br>⊕ 1 2 3 ⊖ 4 5.5 6.5<br>◉ 3 4 5 6 ✱ T20 T27 T30<br>754-00 55 + 97 mm<br>2098 | 1.0 |
| 7674410 | **8554-04** | AM | 1/4 | 6.3 | 6-30 | Set INCH<br>○ 9/32 5/16 11/32 3/8 7/16 1/2 9/16 ⊕ 3 ⊖ 5.5<br>◉ 4 5 6 8 ✱ T20 T27 T30<br>754-00 55 + 97 mm | 1.3 |
| 7675140 | **8559-04** | AML | 1/4 | 6.3 | 6-30 | Set INCH<br>○ 9/32 5/16 11/32 3/8 7/16 1/2 9/16<br>⊕ 3 ⊖ 5.5 ◉ 4 5 6 8<br>✱ T20 T27 T30<br>754-00 55 + 97 mm | 1.3 |
| 7683160 | **8560-04** | A | 3/8 | 10.0 | 8-40 | Set INCH<br>○ 3/8 7/16 1/2 9/16 19/32 5/8 11/16<br>◉ 1/4 5/16 3/8<br>754-01 125 + 250 mm | 3.0 |
| 7683240 | **8565-04** | AL | 3/8 | 10.0 | 8-40 | Set INCH<br>○ 3/8 7/16 1/2 9/16 19/32 5/8 11/16<br>◉ 1/4 5/16 3/8<br>754-01 125 + 250 mm | 3.0 |
| 7684990 | **8561-04** | B | 1/2 | 12.5 | 20-120 | Set INCH<br>○ 7/16 1/2 9/16 19/32 5/8 11/16<br>3/4 25/32 13/16 7/8 15/16 1"<br>◉ 5/16 3/8 1/2"<br>754-02 76 + 125 + 250 mm | 5.3 |
| 7685100 | **8566-04** | BL | 1/2 | 12.5 | 20-120 | Set INCH<br>○ 7/16 1/2 9/16 19/32 5/8 11/16<br>3/4 25/32 13/16 7/8 15/16 1"<br>◉ 5/16 3/8 1/2"<br>754-02 76 + 125 + 250 mm | 5.3 |
| 7684720 | **8573-04** | BC | 1/2 | 12.5 | 40-200 | Set INCH<br>○ 1/2 9/16 5/8 11/16 3/4 13/16 7/8"<br>◉ 5/16 3/8 1/2 9/16"<br>754-02 125 + 250 mm | 4.9 |
| 7684210 | **8578-04** | BCL | 1/2 | 12.5 | 40-200 | Set INCH<br>○ 1/2 9/16 5/8 11/16 3/4 13/16 7/8"<br>◉ 5/16 3/8 1/2 9/16"<br>754-02 125 + 250 mm | 4.9 |

| Code | No. | Type | ■" | ■ | N·m | Inclusion | |
|---|---|---|---|---|---|---|---|
| 7687820 | **8562-40** | C | 1/2 | 12.5 | 50-300 | Set INCH<br>○ 3/4 25/32 13/16 7/8 15/16 1" 1.1/16 1.1/8 1.1/4"<br>◉ 3/8 1/2 9/16 5/8"<br>754-02 76 + 125 + 250 mm | 6.2 |
| 7688120 | **8567-40** | CL | 1/2 | 12.5 | 50-300 | Set INCH<br>○ 3/4 25/32 13/16 7/8 15/16 1" 1.1/16 1.1/8 1.1/4"<br>◉ 3/8 1/2 9/16 5/8"<br>754-02 76 + 125 + 250 mm | 6.2 |
| 7690530 | **8570-40** | CD | 3/4 | 20.0 | 80-360 | Set INCH<br>○ 7/8 15/16 1" 1.1/8 1.1/4 1.3/8 1.1/2 1.5/8"<br>754-04 200 + 400 mm | 11.3 |
| 7691180 | **8575-40** | CDL | 3/4 | 20.0 | 80-360 | Set INCH<br>○ 7/8 15/16 1" 1.1/8 1.1/4 1.3/8 1.1/2 1.5/8"<br>754-04 200 + 400 mm | 11.3 |
| 7693200 | **8563-40** | D | 3/4 | 20.0 | 140-760 | Set INCH<br>○ 1" 1.1/8 1.1/4 1.5/16 1.3/8 1.7/16 1.1/2 1.5/8 1.3/4 1.13/16 1.7/8 2"<br>754-04 200 + 400 mm | 13.3 |
| 7693550 | **8568-40** | DL | 3/4 | 20.0 | 140-760 | Set INCH<br>○ 1" 1.1/8 1.1/4 1.5/16 1.3/8 1.7/16 1.1/2 1.5/8 1.3/4 1.13/16 1.7/8 2"<br>754-04 200 + 400 mm | 13.3 |
| 7670420 | **8563-04** | DR | 3/4 | 20.0 | 140-760 | Set INCH<br>○ 1" 1.1/8 1.1/4 1.5/16 1.3/8 1.7/16 1.1/2 1.5/8 1.3/4 1.13/16 1.7/8 2"<br>754-04 200 + 400 mm | 16.7 |
| 7670850 | **8568-04** | DRL | 3/4 | 20.0 | 140-760 | Set INCH<br>○ 1" 1.1/8 1.1/4 1.5/16 1.3/8 1.7/16 1.1/2 1.5/8 1.3/4 1.13/16 1.7/8 2"<br>754-04 200 + 400 mm | 16.7 |
| 7695170 | **8571-04** | DX | 3/4 | 20.0 | 520-1000 | Set INCH<br>○ 1.1/8 1.1/4 1.3/8 1.1/2 1.3/4 1.7/8"<br>754-04 200 + 400 mm | 16.0 |
| 7695330 | **8576-04** | DXL | 3/4 | 20.0 | 520-1000 | Set INCH<br>○ 1.1/8 1.1/4 1.3/8 1.1/2 1.3/4 1.7/8"<br>754-04 200 + 400 mm | 16.0 |

DVV-40ZRS

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Quantities in packs may vary.

## 754

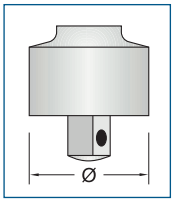
### RATCHET HEAD DREMOMETER

**Use:**
- Enables controlled torque tightening in combination with a DREMOMETER torque wrench (Type MINI - E)

**Features:**
- Fine-pitched, sturdy ratchet head
- With 1/4", 3/8", 1/2", 3/4" or 1" output square drive
- Clockwise models (no. 754-00 to -06)
- Counter-clockwise models (no. 754-11 to -16)
- Made of chrome-vanadium steel

**Scope of delivery:**
- Ratchet head
- Single packed in poly-bag

1/4" 3/8" 1/2" 3/4" 1"



| Code | No. | □" | ■" | H | Ø mm | ∠° | Use | Execution | |
|---|---|---|---|---|---|---|---|---|---|
| 7680490 | **754-00** | 1/4 | 1/4 | 21 | 24 | 18,0 | MINI, AM | clockwise | 54 |
| 7680570 | **754-01** | 3/8 | 3/8 | 28 | 35 | 20,0 | A | clockwise | 150 |
| 7680650 | **754-02** | 1/2 | 1/2 | 35 | 46 | 7,5 | B, BC, C | clockwise | 350 |
| 7680730 | **754-04** | 3/4 | 3/4 | 53 | 65 | 10,0 | CD, DS, D, DR, DX | clockwise | 1000 |
| 7680810 | **754-06** | 1 | 1 | 63 | 73 | 10,0 | E / EK | clockwise | 2500 |
| 7686770 | **754-11** | 3/8 | 3/8 | 28 | 35 | 20,0 | AL | counter-clockwise | 150 |
| 7686850 | **754-12** | 1/2 | 1/2 | 35 | 46 | 7,5 | BL, BCL, CL | counter-clockwise | 350 |
| 7686930 | **754-14** | 3/4 | 3/4 | 53 | 65 | 10,0 | CDL, DSL, DL, DRL, DXL | counter-clockwise | 1000 |
| 7687150 | **754-16** | 1 | 1 | 63 | 73 | 10,0 | EL / EKL | counter-clockwise | 1800 |

### EXTENSION TUBES FOR DREMOMETER DR - F + W

**Use:**
- Spare extension tube for torque wrench series DREMOMETER DR - F and DXZ
- To enable high torque values by means of extending the lever arm

**Features:**
- Guarantees proof connection to the DREMOMETER
- Ideal for extending the lever arm
- Extension tubes 8572-74 / 8564-92 / 8564-40 made from high-grade, galvanised steel
- Extension tube 8571-80 made from high-grade aluminium with anodised locknuts - extremely lightweight

**Scope of delivery:**
- Extension tube
- Single packed in poly-bag

| Code | No. | Description | ⇤mm⇥ | |
|---|---|---|---|---|
| 7621640 | **8564-40** | Extension tube for DREMOMETER E | 400 | 2.3 |
| 7622020 | **8572-74** | Extension tube for DREMOMETER E/F | 745 | 3.6 |
| 1686313 | **8571-80** | Extension tube ALU for DREMOMETER DX/DR | 762 | 0.8 |
| 7621720 | **8564-92** | Extension tube for DREMOMETER E/EK/F | 925 | 3.4 |

### Ratchet heads DREMOMETER 754

- Ratchet head no. 754 can only be used in combination with the DREMOMETER (*). Please note the right direction of rotation by the ratchet head when ordering. There are separate models for clockwise or counter-clockwise rotation. Ratchet head nos. 754-11 to 754-16 (counter-clockwise) can only be used with the DREMOMETER with double square drive.

(*) not applicable to DREMOMETER 8573-10 BCK with integrated ratchet

30 • D 30

192

Quantities in packs may vary.

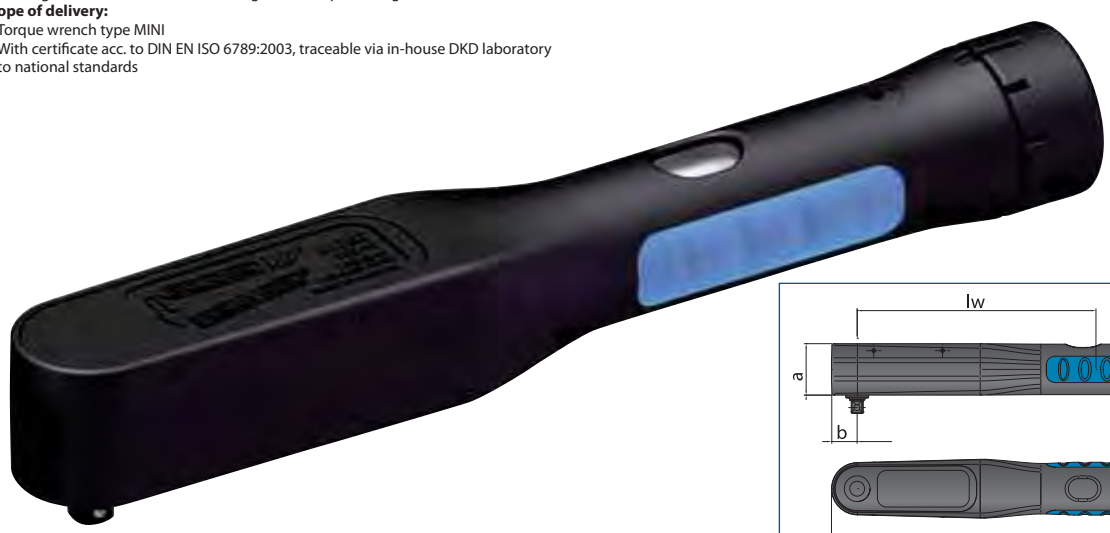
## 753

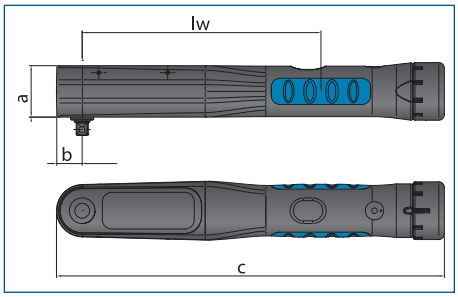
### TORQUE WRENCH DREMOMETER MINI 2-12 N·m / 18-106 lbf·in

**Use:**
- Controlled screw tightening in the range 2 - 12 N·m
- For use in almost all industrial manufacturing areas

**Features:**
- Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3% tolerance of scale set torque. The specification of the standard (+/- 4%) is exceeded.
- Torque wrench with 1/4" square drive with ball locking device DIN 3120 - A 6.3, similar to ISO 1174, for controlled clockwise tightening
- Automatic short-path actuation with tactile impulse and audible signal
- Lightweight plastic casing, made from high-grade, glass-fibre reinforced polyamide, with soft-grip handle
- Dual scale with a scale graduation of 0.5 N·m and 5 lbf·in
- Additional micrometer scale for setting interim values with N·m, graduations of 0.05 N·m
- Window with a magnifying-glass effect
- Locking button enables reliable locking of the torque setting

**Scope of delivery:**
- Torque wrench type MINI
- With certificate acc. to DIN EN ISO 6789:2003, traceable via in-house DKD laboratory to national standards






| Code | No. | Type | ■" | ■ | N·m | lbf·in | ⟷ | lw | a | b | c | ⚖ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1957694 | **753-11** | MINI | 1/4 | 6.3 | 2-12 | 18-106 | 0,5 N·m / 5 lbf·in + 0,05 N·m | 130 | 28 | 14 | 211 | 320 |

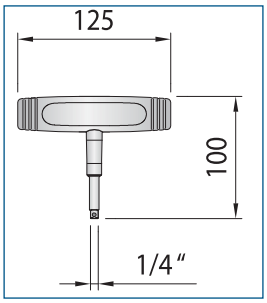
## 763

### TORQUE WRENCH DREMOMETER T-FS pre-set, 1-14 N·m

**Use:**
- Power-saving application for torques which are usually in the range of torque screwdrivers
- E.g. securing modules on solar power systems, tool supports etc.; wherever the torques are too large for classic torque screwdrivers

**Features:**
- Torque wrench series with 14 pre-set models for serial production
- For controlled clockwise tightening
- Working accuracy in accordance with DIN EN ISO 6789:2003 Type II Class E (+/- 6 %)
- Lightweight and robust - housing made of a high-quality aluminium alloy
- With certificate acc. to DIN EN ISO 6789:2003, traceable via in-house DKD laboratory to national standards

- Special ranges are available on request




| Code | No. | ■" | ■ | pre-set value | ⚖ |
|---|---|---|---|---|---|
| 1947907 | **763-01** | 1/4 | 6.3 | 1 N·m | 241 |
| 1947915 | **763-02** | 1/4 | 6.3 | 2 N·m | 241 |
| 1947923 | **763-03** | 1/4 | 6.3 | 3 N·m | 241 |
| 1947931 | **763-04** | 1/4 | 6.3 | 4 N·m | 241 |
| 1947958 | **763-05** | 1/4 | 6.3 | 5 N·m | 241 |
| 1947966 | **763-06** | 1/4 | 6.3 | 6 N·m | 241 |
| 1947974 | **763-07** | 1/4 | 6.3 | 7 N·m | 241 |

| Code | No. | ■" | ■ | pre-set value | ⚖ |
|---|---|---|---|---|---|
| 1947990 | **763-08** | 1/4 | 6.3 | 8 N·m | 241 |
| 1948008 | **763-09** | 1/4 | 6.3 | 9 N·m | 241 |
| 1948016 | **763-10** | 1/4 | 6.3 | 10 N·m | 241 |
| 1948024 | **763-11** | 1/4 | 6.3 | 11 N·m | 241 |
| 1948032 | **763-12** | 1/4 | 6.3 | 12 N·m | 241 |
| 1948040 | **763-13** | 1/4 | 6.3 | 13 N·m | 241 |
| 1948059 | **763-14** | 1/4 | 6.3 | 14 N·m | 241 |

Quantities in packs may vary.

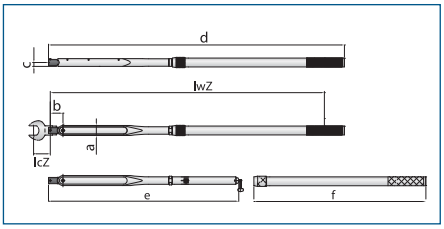
## 8460 Z - 8471 Z

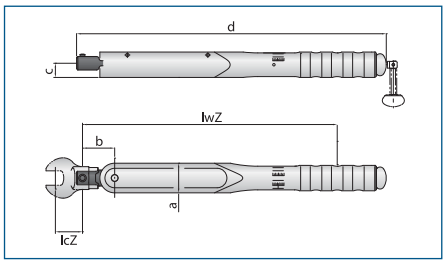
### TORQUE WRENCH DREMOMETER Z WITH QUICK-FITTING CHANGE 8-1000 N·m / 70 lbf·in - 730 lbf·ft

- Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3 % tolerance of scale set torque. The specification of the standard (+/- 4 %) is exceeded.
- Lightweight yet robust (as the housing is made of an aluminium alloy) and resilient, very workshop-friendly
- Depending on the application, access is possible from the front (e.g. open-end fitting) or side (e.g. reversible ratchet and socket)
- Force to be applied in the middle of the handgrip only - do not use an extension tube as otherwise, inaccuracies can evolve (except for model DXZ where the DREMOMETER has been calibrated and adjusted using the extension tube)
- Operation only with end fittings with standardised depth gauges, otherise inaccuracies can arise. Keep the depth gauges on the certificate in mind. Only use original GEDORE accessories.
- Large drive cross-section transfers maximum torques
- Extremely low wear attributable to reduced forces in the lever mechanism
- Forged lever chain from our own quality forge
- Maximum precision even when subjected to extreme continuous use
- Long life cycles and tool lives
- Easy operation - fast and safe torque tightening
- Easy adjustment thanks to attractive adjusting button secured against loss at the end of the handle
- With certificate acc. to DIN EN ISO 6789, traceable via in-house DKD laboratory to national standards

16 22 28

± 3 %




| Code | No. | Type | Ø | N·m | lbf·in | lbf·ft | | lwZ | lcZ | a | b | c | d | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7703610 | **8460-01** | AZ | 16 | 8-40 | 70-350 | – | 5 N·m / 50 lbf·in | 301 | 32 | 35 | 38 | 17 | 366 | 1000 |
| 7704260 | **8461-01** | BZ | 16 | 20-120 | – | 15-90 | 5 N·m / 5 lbf·ft | 412 | 32 | 35 | 38 | 17 | 490 | 1450 |
| 7704340 | **8462-01** | CZ | 16 | 50-400 | – | 35-300 | 5 N·m / 5 lbf·ft | 567 | 32 | 35 | 38 | 17 | 645 | 2000 |
| 7703020 | **8463-10** | DZ | 22 | 140-620 | – | 105-450 | 10 N·m / 10 lbf·ft | 768 | 56 | 45 | 49 | 18 | 846 | 3000 |
| 1251341 | **8471-01** | DXZ | 28 | 520-1000 | – | 380-730 | 10 N·m / 10 lbf·ft | 1231 | 75 | 45 | 57 | 18 | 1329 | 5500 |

### Technical information Z

- The large cross-section of the spigot end transfers a maximum torque. "Quick-fitting-change-system" with a locking pin mechanism guarantees that work takes place flexibly and rapidly.
- Ideal for bolted connections in cramped and hard-to-access locations. Depending on how the torque wrench Z is used, it is possible to work both in the forward direction and also to the side. For anti-clockwise tightening, simply turn the torque wrench through 180°

### OUR SERVICE - qualified and customised

312 - 319

### 7460 - 7471

273

### 8791 - 8798

16 22 28

304 - 307



Quantities in packs may vary.

## 8480 SE - 8482 SE

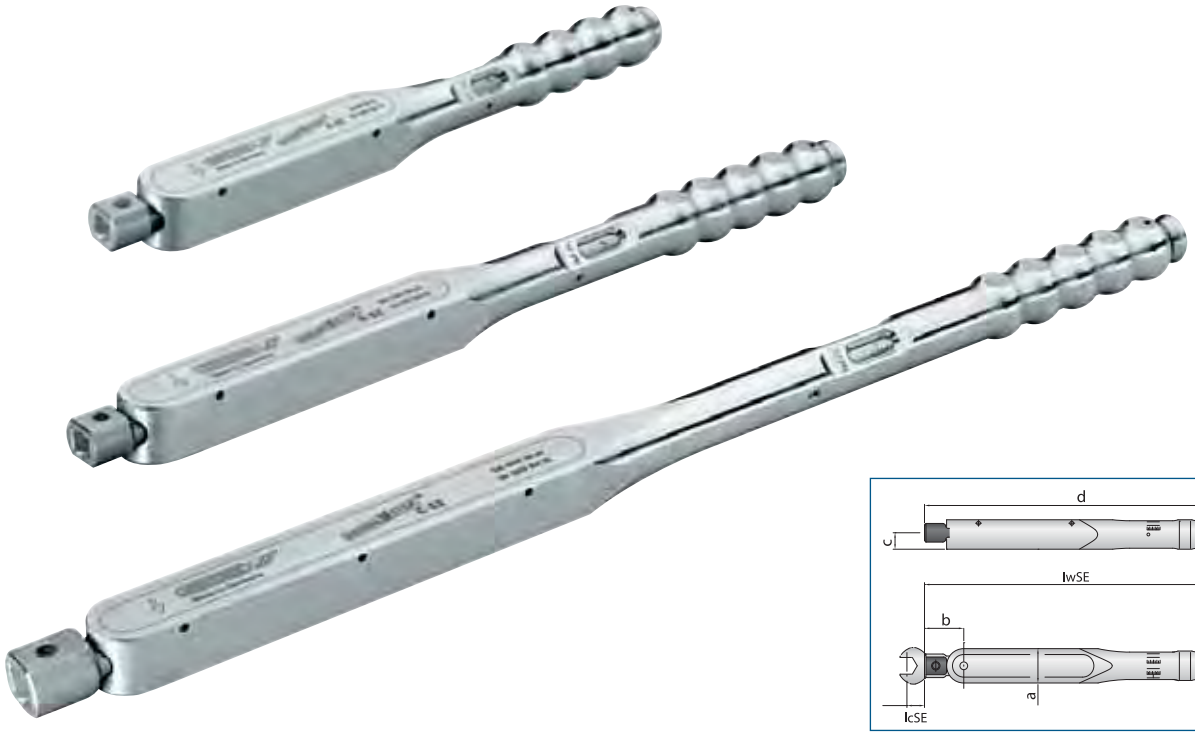
### TORQUE WRENCH DREMOMETER SE WITH QUICK-FITTING CHANGE 8-400 N·m / 70 lbf·in - 300 lbf·ft

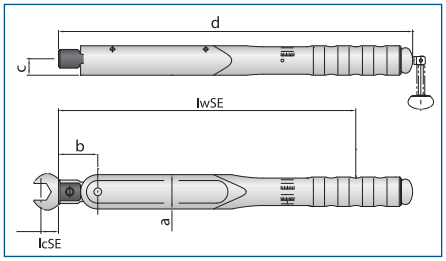
- Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3% tolerance of scale set torque. The specification of the standard (+/- 4%) is exceeded.
- Lightweight yet robust (as the housing is made of an aluminium alloy) and resilient, very workshop-friendly
- Drive offers extensive range of accessories
- Depending on the application, access is possible from the front (e.g. rectangular open-end fitting) or side (e.g. reversible ratchet and socket)
- Force to be applied in the middle of the handgrip only - do not use an extension tube as otherwise, inaccuracies can arise
- Operation only with end fittings otherwise inaccuracies can arise. Keep the depth gauges on the certificate in mind. Only use original GEDORE accessories.
- Extremely low wear attributable to reduced forces in the lever mechanism
- Forged lever chain from our own quality forge
- Maximum precision even when subjected to extreme continuous use
- Long life cycles and tool lives
- Easy operation - fast and safe torque tightening
- Easy adjustment thanks to attractive adjusting button secured against loss at the end of the handle
- With certificate acc. to DIN EN ISO 6789, traceable via in-house DKD laboratory to national standards

9x12

14x18

± 3 %






| Code | No. | Type | □ mm | N·m | lbf·in | lbf·ft | | lwSE | lcSE | a | b | c | d | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7714060 | **8480-01** | A-SE | 9 x 12 | 8-40 | 70-350 | – | 5 N·m / 50 lbf·in | 303 | 17.5 | 35 | 40 | 17 | 361 | 950 |
| 7714140 | **8481-01** | B-SE | 9 x 12 | 20-120 | – | 15-90 | 5 N·m / 5 lbf·ft | 414 | 17.5 | 35 | 40 | 17 | 485 | 1250 |
| 7714220 | **8482-01** | C-SE | 14 x 18 | 50-400 | – | 35-300 | 5 N·m / 5 lbf·ft | 582 | 25.0 | 35 | 53 | 17 | 653 | 1700 |

### Technical information - Quick-fitting change

Quick-fitting tool change system with pin locking guarantees flexible and swift working methods. Ideal for installations in confined and poorly accessible spaces. Depending on the application for the **DREMOMETER SE**, access is possible from the front and side.

- On request, all torque wrenches can be factory pre-set.
- When ordering, please specify the N·m value.
- Pre-setting net P.O.A.

7480 - 7482

273

7112 - 7918

308 - 309

Quantities in packs may vary.

## 7554 AM - 7572 F

### TORQUE WRENCH DREMOMETER A+S with pre-set value locking and safety device

**Technical advantage/function:**

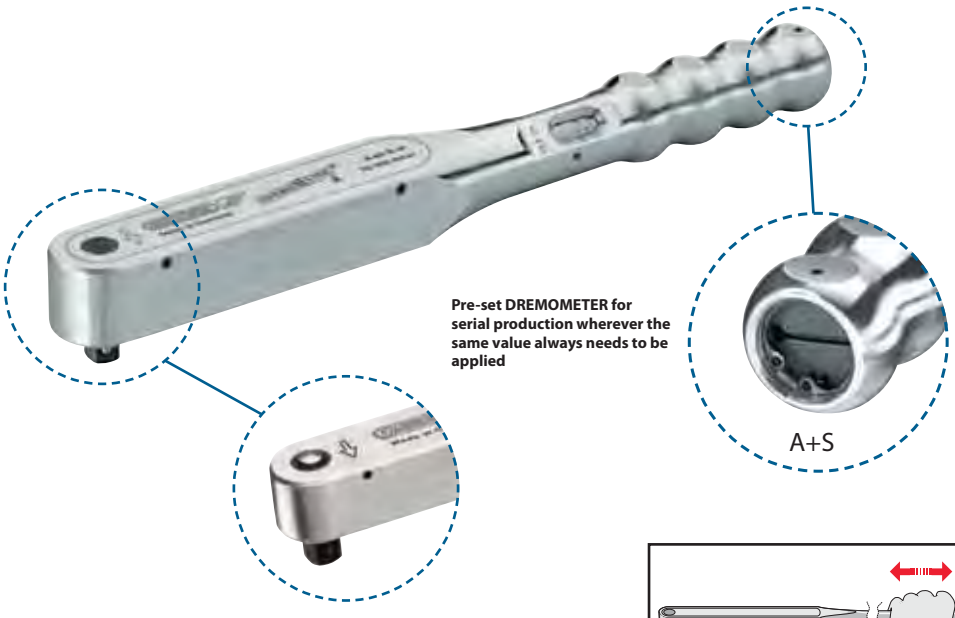
- **Pre-set value locking and safety device (A+S) eliminates the possibility of unintentional or manipulated adjustment**, thereby representing more process reliability of the user
- Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3 % tolerance of scale set torque. The specification of the standard (+/- 4 %) is exceeded.
- Lightweight and robust (as housing is made of an aluminium alloy), very workshop-friendly
- No inaccuracies whether used with both hands or held away from the handle (as for standard torque wrenches) Both the square drive and fulcrum are on an axis which ensures a high degree of user safety; can be extended to reduce the user's working load.
- Extremely low wear attributable to reduced forces in a unique lever mechanism
- Forged lever chain from our own quality forge
- Maximum precision even when subjected to extreme continuous use
- Long life cycles and tool lives
- Easy operation - fast and safe torque tightening
- Single- and double-square drive for controlled bi-directional tightening

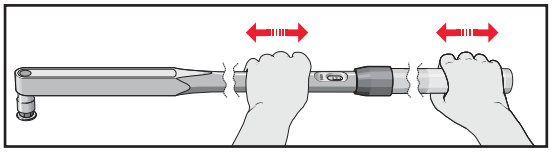
**Use:**

- Controlled screw tightening in the range 6 - 3000 N·m
- For use in almost all industrial manufacturing areas

**Features:**

- With certificate acc. to DIN EN ISO 6789, traceable via in-house DKD laboratory to national standards
- Automatic short-path actuation with tactile impulse and audible signal
- Dual scale with corresponding scale graduation (see table)
- Type B, BC, C with push-button release



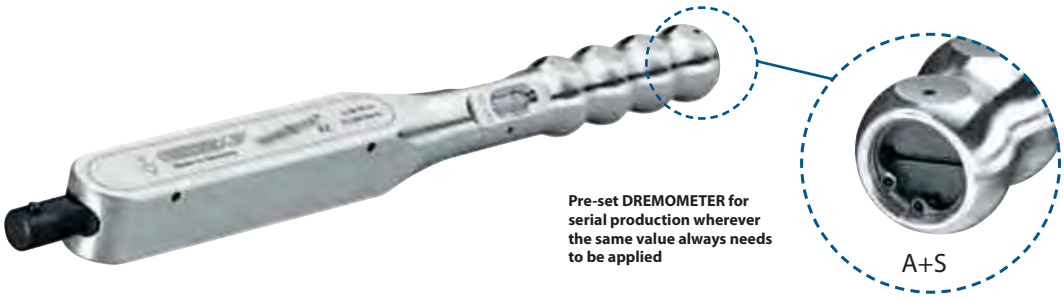
| Code | No. | Type | ■" | ■ | N·m | lbf·in | lbf·ft | | lw | a | b | c | d | e | f | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1210891 | **7554-01** | AM A+S | 1/4 | 6.3 | 6-30 | 50-270 | – | 1 N·m / 10 lbf·in | 207 | 30 | 15.0 | 268 | – | – | – | 580 |
| 1210904 | **7559-01** | AML A+S | 1/4 | 6.3 | 6-30 | 50-270 | – | 1 N·m / 10 lbf·in | 207 | 30 | 15.0 | 268 | – | – | – | 580 |
| 7708920 | **7560-01** | A A+S | 3/8 | 10.0 | 8-40 | 70-350 | – | 5 N·m / 50 lbf·in | 263 | 30 | 17.5 | 338 | – | – | – | 1000 |
| 1210939 | **7565-01** | AL A+S | 3/8 | 10.0 | 8-40 | 70-350 | – | 5 N·m / 50 lbf·in | 263 | 30 | 17.5 | 338 | – | – | – | 1000 |
| 7709060 | **7561-01** | B A+S | 1/2 | 12.5 | 20-120 | – | 15-90 | 5 N·m / 5 lbf·ft | 374 | 30 | 17.5 | 462 | – | – | – | 1500 |
| 1210947 | **7566-01** | BL A+S | 1/2 | 12.5 | 20-120 | – | 15-90 | 5 N·m / 5 lbf·ft | 374 | 30 | 17.5 | 462 | – | – | – | 1500 |
| 1211013 | **7573-00** | BC A+S | 1/2 | 12.5 | 40-200 | – | 30-150 | 5 N·m / 5 lbf·ft | 463 | 30 | 17.5 | 551 | – | – | – | 1400 |
| 1427113 | **7578-00** | BCL A+S | 1/2 | 12.5 | 40-200 | – | 30-150 | 5 N·m / 5 lbf·ft | 463 | 30 | 17.5 | 551 | – | – | – | 1300 |
| 7709650 | **7562-10** | C A+S | 1/2 | 12.5 | 50-300 | – | 35-220 | 5 N·m / 5 lbf·ft | 529 | 30 | 17.5 | 617 | – | – | – | 2000 |
| 1210955 | **7567-10** | CL A+S | 1/2 | 12.5 | 50-300 | – | 35-220 | 5 N·m / 5 lbf·ft | 529 | 30 | 17.5 | 617 | – | – | – | 2000 |
| 1210998 | **7570-10** | CD A+S | 3/4 | 20.0 | 80-360 | – | 60-260 | 5 N·m / 5 lbf·ft | 624 | 30 | 22.5 | 717 | – | – | – | 2400 |
| 1211021 | **7575-10** | CDL A+S | 3/4 | 20.0 | 80-360 | – | 60-260 | 5 N·m / 5 lbf·ft | 624 | 30 | 22.5 | 717 | – | – | – | 2400 |
| 1427164 | **7574-10** | DS A+S | 3/4 | 20.0 | 110-550 | – | 80-400 | 10 N·m / 10 lbf·ft | 719 | 35 | 22.5 | 812 | – | – | – | 2900 |
| 1427148 | **7579-10** | DSL A+S | 3/4 | 20.0 | 110-550 | – | 80-400 | 10 N·m / 10 lbf·ft | 719 | 35 | 22.5 | 812 | – | – | – | 2900 |
| 1210921 | **7563-10** | D A+S | 3/4 | 20.0 | 140-760 | – | 100-560 | 10 N·m / 10 lbf·ft | 719 | 35 | 22.5 | 812 | – | – | – | 3200 |
| 1210971 | **7568-10** | DL A+S | 3/4 | 20.0 | 140-760 | – | 100-560 | 10 N·m / 10 lbf·ft | 719 | 35 | 22.5 | 812 | – | – | – | 3200 |
| 1210912 | **7563-01** | DR A+S | 3/4 | 20.0 | 140-760 | – | 100-560 | 10 N·m / 10 lbf·ft | 1297 | 35 | 22.5 | 812 | 1413 | 762 | – | 5000 |
| 1210963 | **7568-01** | DRL A+S | 3/4 | 20.0 | 140-760 | – | 100-560 | 10 N·m / 10 lbf·ft | 1297 | 35 | 22.5 | 812 | 1413 | 762 | – | 5000 |
| 1211005 | **7571-01** | DX A+S | 3/4 | 20.0 | 520-1000 | – | 380-730 | 10 N·m / 10 lbf·ft | 1297 | 35 | 22.5 | 812 | 1413 | 762 | – | 5600 |
| 1211048 | **7576-01** | DXL A+S | 3/4 | 20.0 | 520-1000 | – | 380-730 | 10 N·m / 10 lbf·ft | 1297 | 35 | 22.5 | 812 | 1413 | 762 | – | 5600 |
| 2311321 | **7581-01** | EK A+S | 1 | 25.0 | 600-1500 | – | – | 25 N·m | 1473 | 40 | 30.0 | 932 | 1608 | 925 | – | 10800 |
| 2311348 | **7586-01** | EKL A+S | 1 | 25.0 | 600-1500 | – | – | 25 N·m | 1473 | 40 | 30.0 | 932 | 1608 | 925 | – | 10800 |
| 1547232 | **7564-01** | E A+S | 1 | 25.0 | 750-2000 | – | – | 50 N·m | 2218 | 40 | 30.0 | 932 | 2353 | 925 | 745 | 11600 |
| 1547240 | **7569-01** | EL A+S | 1 | 25.0 | 750-2000 | – | – | 50 N·m | 2218 | 40 | 30.0 | 932 | 2353 | 925 | 745 | 11600 |
| 1547259 | **7572-01** | F A+S | 1.1/2 | 40.0 | 1500-3000 | – | – | 50 N·m | 2313 | 40 | 35.0 | 1025 | 2453 | 925 | 745 | 13200 |



Quantities in packs may vary.

## 7460 Z - 7471 Z

### TORQUE WRENCH DREMOMETER Z A+S



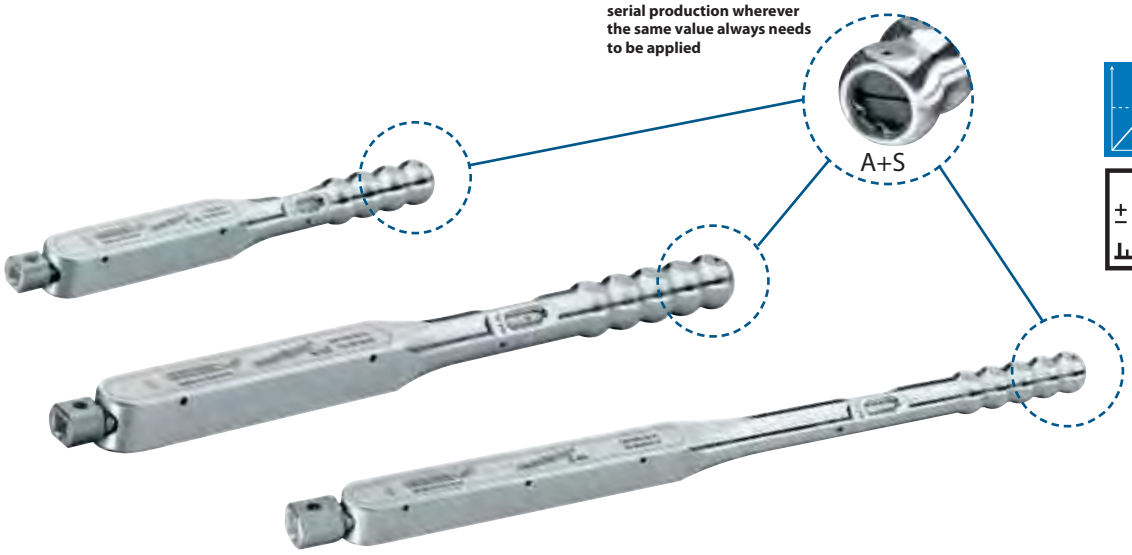

16
22
28

± 3 %

| Code | No. | Type | Ø | N·m | lbf·in | lbf·ft | ىىىىىى | lwZ | lcZ | a | b | c | d | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1427067 | **7460-01** | AZ A+S | 16 | 8-40 | 70-350 | – | 5 N·m / 50 lbf·in | 301 | 32 | 35 | 38 | 17 | 355 | 1000 |
| 1427075 | **7461-01** | BZ A+S | 16 | 20-120 | – | 15-90 | 5 N·m / 5 lbf·ft | 412 | 32 | 35 | 38 | 17 | 479 | 1450 |
| 1225669 | **7462-01** | CZ A+S | 16 | 50-400 | – | 35-300 | 5 N·m / 5 lbf·ft | 567 | 32 | 35 | 38 | 17 | 634 | 2000 |
| 1427083 | **7463-10** | DZ A+S | 22 | 140-620 | – | 105-450 | 10 N·m / 10 lbf·ft | 768 | 56 | 45 | 49 | 18 | 835 | 3000 |
| 1521977 | **7471-01** | DXZ A+S | 28 | 520-1000 | – | 380-730 | 10 N·m / 10 lbf·ft | 1231 | 75 | 45 | 57 | 18 | 1329 | 5500 |

## 7480 SE - 7482 SE

### TORQUE WRENCH DREMOMETER SE A+S




9x12
14x18

± 3 %

| Code | No. | Type | □mm | N·m | lbf·in | lbf·ft | ىىىىىى | lwSE | lcSE | a | b | c | d | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1427059 | **7480-01** | A-SE A+S | 9 x 12 | 8-40 | 70-350 | – | 5 N·m / 50 lbf·in | 303 | 17.5 | 35 | 40 | 17 | 350 | 950 |
| 1427091 | **7481-01** | B-SE A+S | 9 x 12 | 20-120 | – | 15-90 | 5 N·m / 5 lbf·ft | 414 | 17.5 | 35 | 40 | 17 | 474 | 1250 |
| 1427105 | **7482-01** | C-SE A+S | 14 x 18 | 50-400 | – | 35-300 | 5 N·m / 5 lbf·ft | 582 | 25.0 | 35 | 53 | 17 | 641 | 1700 |


8791 - 8798

16 22 28

304 - 307

7112 - 7918

308 - 309


Quantities in packs may vary.

# DREMASTER DMK

## Robust torque wrench with square drive and integrated ratchet-head function for controlled bi-directional tightening and interchangeable mushroom head with push-button release

Chrome-plated ratchet head: All 1/2" square drives of the DREMASTER DMK-series have a black plastic cap - also referred to as a mushroom head. This mushroom head prevents an unintentional pulling out of the whole square drive when changing the nut socket.

Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate allowing for operations to be traced back. Calibrated to a permitted +/- 3 % deviation and better. The specifications of the standard (+/- 4 %) are exceeded.

Robust steel tube: With high corrosion protection, chrome-plated, silk-metal.

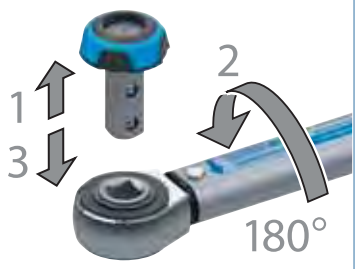
Automatic actuation: The DREMASTER DMK actuates with a clear tactile impulse and audible signal and is immediately ready for operation again.

## Features Anti-loss attachment

## Function

**In order to change the turning direction of the DREMASTER DMK:**

- Press on the push-button with your thumb and take out the mushroom head, turn the wrench and re-insert the square drive.




## All the benefits at a single glance

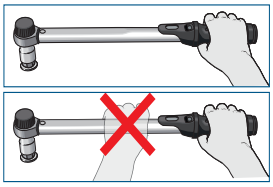
- Additional protection of the serial number
- Concealed setting drill hole
- Engaging adjusting button with locking reference (lock symbol)
- Rapid adjustment provision using a separate hexagon allen key
- Mushroom head with release button and soft component
- Plastic grip with soft component
- Dual scale (main unit with vernier)
- At all times only one unit in the viewing area (N·m or lbf·ft)
- Change-over switch for selecting the unit
- Controlled safety via in-house DKD-/DAkkS test laboratory

GEDORE Tool Center KG

Kalibrier - Zertifikat / Calibration Certificate

Nonius: Model-dependent intervals of 1 or 0.5 N·m allow very accurate settings.

Additional protection of the serial number. Concealed setting drill hole = secured adjusting/setting system
Serial number on the wrench and on the certificate for unambiguous product identification, traceable via in-house DKD-/DAkkS laboratory to national standards



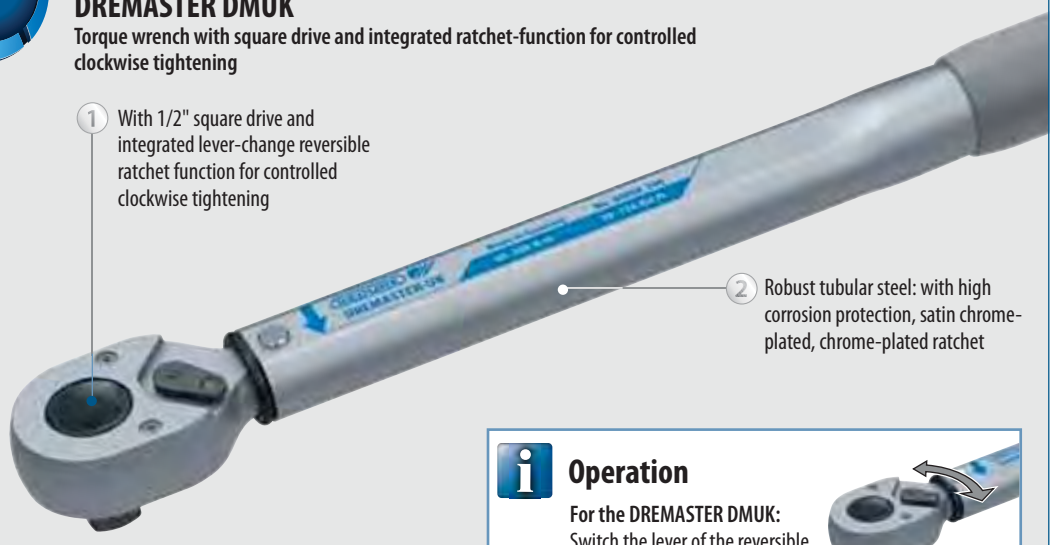
Handgrip with a user aid: Grey plastic handgrip, new ergonomically enhanced shape, with an indentation in the middle of the handgrip.
User aid and reference points for calibration.

Ligthweight and reliable: Locking button enables reliable locking of the torque setting.
"Torque adjustable" reference by means of opened lock symbol.
Provision for rapid setting from the separate hexagon allen key fixture.

Dual scale with main and alternative unit (N·m/lbf·ft).
Main unit N·m with vernier.
At all times only one unit in the viewing area = avoids any reading errors.
Change-over switch next to the scale for straightforward unit selection.

## DREMASTER DMUK

**Torque wrench with square drive and integrated ratchet-function for controlled clockwise tightening**



1 With 1/2" square drive and integrated lever-change reversible ratchet function for controlled clockwise tightening

2 Robust tubular steel: with high corrosion protection, satin chrome-plated, chrome-plated ratchet

### Operation

**For the DREMASTER DMUK:**
Switch the lever of the reversible ratchet to correspond with the desired direction, clockwise or counter-clockwise.

### Features

DMK 1/2 - 3/4
20-850 N·m

DMUK 1/2
20-300 N·m

DMZ 16 22
20-850 N·m

DMSE 9x12 14x18
20-400 N·m

TORCOFIX 1/4 - 3/8
1 - 50 N·m

281

## DMK - DMUK

### TORQUE WRENCH DREMASTER K / UK 20-850 N·m / 15 - 630 lbf·ft

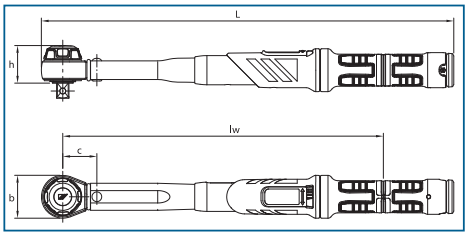
**Use:**

- Controlled screw tightening in the most common range of 20 - 850 N·m / 15 - 630 lbf·ft (guide for screws M7-10.9 to M24-8.8, M30-5.6)
- Adjustable, releasing and sturdy tubular torque wrench with integrated ratchet and with square drive for industry and the trades

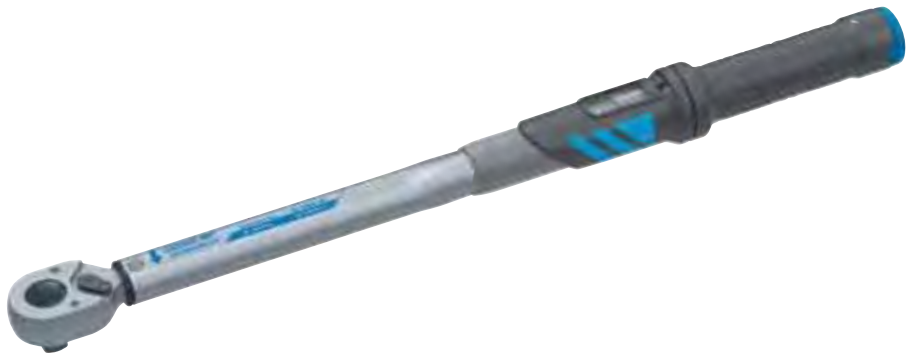
**Features:**

- Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate allowing for operations to be traced back. Calibrated to a permitted +/- 3 % deviation and better. The specifications of the standard (+/- 4 %) are exceeded.
- For controlled bi-directional tightening DMUK only for controlled clockwise-tightening
- Models DMK: 1/2" mushroom head interchangeable square with push-button releasing and a ball-locking mechanism. From Model No. DMK 400 with 3/4" push-through square and a pin-locking mechanism
- Models DMUK: With 1/2" reversible ratchet
- Sturdy, satin chrome-plated tubular steel construction, with chrome-plated ratchet head and top-grade plastic parts
- Ergonomically shaped, 2-component plastic grip with calibration aid
- Change-over between N·m main scale and lbf·ft ancillary scale to avoid reading errors when setting the torque wanted
- With micrometre scale for main N·m scale for setting interim values
- Release system triggers a tactile and audible signal
- Ergonomic system for torque adjustment with reference symbol
- Fast adjustment provision
- Secured adjusting/setting system
- Patent applied

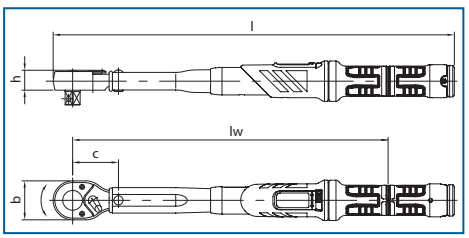
DMK 200




| Code | No. | ■" | ■ | N·m | lbf·ft | لسلسا | scale ring | L | lw | c | h | b | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2641232 | **DMK 100** | 1/2 | 12.5 | 20-100 | 15-75 | 5 N·m | 0,5 N·m | 423.5 | 329.2 | 35 | 38.4 | 44 | 1100 |
| 2641240 | **DMK 200** | 1/2 | 12.5 | 40-200 | 30-150 | 10 N·m | 1 N·m | 514.5 | 420.2 | 35 | 38.4 | 44 | 1300 |
| 2641259 | **DMK 300** | 1/2 | 12.5 | 60-300 | 45-220 | 10 N·m | 1 N·m | 606.5 | 511.2 | 35 | 38.4 | 46 | 1500 |
| 2641267 | **DMK 400** | 3/4 | 20.0 | 80-400 | 60-300 | 10 N·m | 1 N·m | 715.5 | 609.2 | 46 | 31.0 | 67 | 2400 |
| 2641275 | **DMK 550** | 3/4 | 20.0 | 110-550 | 80-405 | 10 N·m | 1 N·m | 953.5 | 846.7 | 52 | 31.0 | 69 | 3800 |
| 2641283 | **DMK 750** | 3/4 | 20.0 | 150-750 | 110-550 | 10 N·m | 1 N·m | 1,228.5 | 1,121.7 | 327 | 31.0 | 69 | 4900 |
| 2641291 | **DMK 850** | 3/4 | 20.0 | 250-850 | 185-630 | 10 N·m | 1 N·m | 1,375.5 | 1,268.7 | 474 | 31.0 | 69 | 5200 |



DMUK 200




| Code | No. | ■" | ■ | N·m | lbf·ft | لسلسا | scale ring | L | lw | c | h | b | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2641305 | **DMUK 100** | 1/2 | 12.5 | 20-100 | 15-75 | 5 N·m | 0,5 N·m | 438.0 | 344.2 | 50 | 22.0 | 43 | 1200 |
| 2641313 | **DMUK 200** | 1/2 | 12.5 | 40-200 | 30-150 | 10 N·m | 1 N·m | 529.0 | 435.2 | 50 | 22.0 | 43 | 1400 |
| 2641348 | **DMUK 300** | 1/2 | 12.5 | 60-300 | 45-220 | 10 N·m | 1 N·m | 620.0 | 526.2 | 50 | 22.0 | 43 | 1600 |



Quantities in packs may vary.

## GDMK

### TORQUE WRENCH SET DREMASTER K

- The DREMASTER DMK as a practical tool set
- Most-widely-used tools in a robust sheet-metal case
- Clearly organised - everything always ready to hand
- With foam-material inlay modules (on request, these can be customised or extended individually)

| Code | No. | ■ " | ■ | N·m | lbf·ft | Contents | |
|---|---|---|---|---|---|---|---|
| 2641593 | **GDMK 100** | 1/2 | 12.5 | 20-100 | 15-75 | No. DMK 100 in sheet-metal case<br>10 13 17 19 24 125 mm and 1/2" square drive | 4.5 |
| 2641607 | **GDMK 200** | 1/2 | 12.5 | 40-200 | 30-150 | No. DMK 200 in sheet-metal case<br>10 13 17 19 24 125 mm and 1/2" square drive | 5.7 |
| 2641615 | **GDMK 300** | 1/2 | 12.5 | 60-300 | 45-220 | No. DMK 300 in sheet-metal case<br>17 19 24 27 125 mm and 1/2" square drive | 5.8 |
| 2641623 | **GDMK 400** | 3/4 | 20.0 | 80-400 | 60-300 | No. DMK 400 in sheet-metal case<br>18 19 24 27 200 mm and 3/4" square drive | 6.5 |

## DMKPK

### MUSHROOM HEAD / SQUARE DRIVE

| Code | No. | Description | □ " | □ | ■ " | ■ | |
|---|---|---|---|---|---|---|---|
| 2551829 | **DMKPK 7** | Mushroom head 1/2" | 1/2 | 12.5 | 1/2 | 12.5 | |
| 6279090 | **3294** | Coupler 3/4" | 3/4 | 20.0 | 3/4 | 20.0 | 133 |

920 541

4549 281

Quantities in packs may vary.

## DMZ

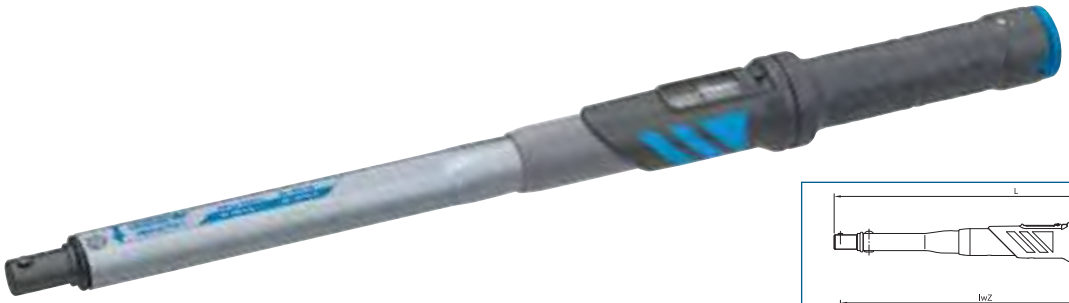
### TORQUE WRENCH DREMASTER Z 20-850 N·m / 15-630 lbf·ft

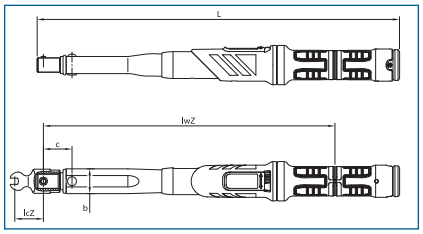
**Use:**

- Controlled screw tightening in the most common range of 20 - 850 N·m / 15 - 630 lbf·ft (guide for screws M7-10.9 to M24-8.8, M30-5.6)
- Adjustable, releasing and sturdy tubular torque wrench with spigot end for industry and the trades

**Features:**

- Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate allowing for operations to be traced back. Calibrated to a permitted +/- 3 % deviation and better. The specifications of the standard (+/- 4 %) are exceeded.
- For controlled bi-directional tightening
- Sturdy, satin chrome-plated tubular steel construction, with phosphated spigot end (16 mm or 22 mm) and high-grade plastic parts
- Ergonomically shaped, 2-component plastic grip with calibration aid
- Change-over between N·m main scale and lbf·ft ancillary scale to avoid reading errors when setting the torque wanted.
- With micrometre scale for main N·m scale for setting interim values
- Release system triggers a tactile and audible signal
- Ergonomic system for torque adjustment with reference symbol
- Fast adjustment provision
- Secured adjusting/setting system
- Factory depth gauge: 32 mm (16 mm) or 56 mm (22 mm)
- Operation only with end fittings with standardised depth gauge - otherwise inaccuracies may arise.
- Depending on the application, access is possible from the front (e.g. open-end fitting) or side (e.g. reversible ratchet and socket)
- Patent applied






| Code | No. | Ø | N·m | lbf·ft | scale | scale ring | L | lwZ | lcZ | b | c | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2641518 | **DMZ 100** | 16 | 20-100 | 15-75 | 5 N·m | 0,5 N·m | 405.5 | 326.2 | 32 | 27.5 | 32 | 900 |
| 2641526 | **DMZ 200** | 16 | 40-200 | 30-150 | 10 N·m | 1 N·m | 496.5 | 417.2 | 32 | 27.5 | 32 | 1100 |
| 2641534 | **DMZ 300** | 16 | 60-300 | 45-220 | 10 N·m | 1 N·m | 587.5 | 508.2 | 32 | 27.5 | 32 | 1300 |
| 2641542 | **DMZ 400** | 16 | 80-400 | 60-300 | 10 N·m | 1 N·m | 677.5 | 598.2 | 32 | 33.0 | 32 | 2200 |
| 2641550 | **DMZ 550** | 22 | 110-550 | 80-405 | 10 N·m | 1 N·m | 913.0 | 840.7 | 56 | 36.5 | 37 | 3600 |
| 2641569 | **DMZ 750** | 22 | 150-750 | 110-550 | 10 N·m | 1 N·m | 1,194.0 | 1,121.7 | 56 | 38.5 | 318 | 4700 |
| 2641577 | **DMZ 850** | 22 | 250-850 | 185-630 | 10 N·m | 1 N·m | 1,341.0 | 1,268.7 | 56 | 38.5 | 465 | 5000 |

## GDMZ

### TORQUE WRENCH SET DREMASTER Z

- The DREMASTER DMZ as a practical tool set
- Most-widely-used tools in a robust sheet-metal case
- Clearly organised - everything always ready to hand
- With foam-material inlay modules (on request, these can be customised or extended individually)

| Code | No. | Ø | N·m | lbf·ft | Contents | |
|---|---|---|---|---|---|---|
| 2641704 | **GDMZ 100** | 16 | 20-100 | 15-75 | No. DMZ 100 in sheet-metal case<br>17 19 24 17 19 24 and 1/2" ratchet head | 4.5 |
| 2641712 | **GDMZ 200** | 16 | 40-200 | 30-150 | No. DMZ 200 in sheet-metal case<br>17 19 24 17 19 24 and 1/2" ratchet head | 5.8 |
| 2641720 | **GDMZ 300** | 16 | 60-300 | 45-220 | No. DMZ 300 in sheet-metal case<br>24 27 30 32 24 27 and 1/2" ratchet head | 6.5 |
| 2641739 | **GDMZ 400** | 16 | 80-400 | 60-300 | No. DMZ 400 in sheet-metal case<br>24 27 30 32 24 27 and 1/2" ratchet head | 7.4 |



Quantities in packs may vary.

## DMSE

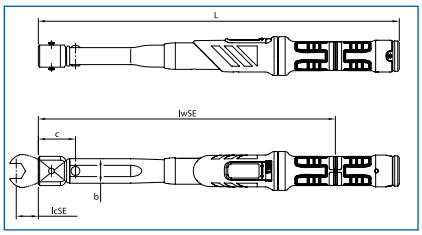
### TORQUE WRENCH DREMASTER SE 20-400 N·m / 15-300 lbf·ft

**Use:**

- Controlled screw tightening in the most common range of 20 - 400 N·m / 15 - 300 lbf·ft (guide for screws M7-10.9 to M20-6.9)
- Adjustable, releasing and sturdy tubular torque wrench with rectangular cavity for industry and the trades

**Features:**

- Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate allowing for operations to be traced back. Calibrated to a permitted +/- 3 % deviation and better. The specifications of the standard (+/- 4 %) are exceeded.
- For controlled bi-directional tightening
- Sturdy, satin chrome-plated tubular steel construction, with chrome-plated rectangular cavity (9x12 mm or 14x18mm) and high-grade plastic parts
- Ergonomically shaped, 2-component plastic grip with calibration aid
- Change-over between N·m main scale and lbf·ft ancillary scale to avoid reading errors when setting the torque wanted.
- With micrometre scale for main N·m scale for setting interim values
- Release system triggers a tactile and audible signal
- Ergonomic system for torque adjustment with reference symbol
- Fast adjustment provision
- Secured adjusting/setting system
- Factory depth gauge: 17.5 mm (9x12 mm) or 25 mm (14x18 mm)
- Operation only with end fittings with standardised depth gauges, otherwise inaccuracies can arise
- Depending on the application, access is possible from the front (e.g. open-end fitting) or side (e.g. reversible ratchet and socket).
- Patent applied




| Code | No. | □mm | N·m | lbf·ft | ⟷ | scale ring | L | lwSE | lcSE | b | c | ⚖ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2641445 | **DMSE 100** | 9 x 12 | 20-100 | 15-75 | 5 N·m | 0,5 N·m | 398.5 | 326.2 | 17.5 | 27.5 | 32 | 800 |
| 2641453 | **DMSE 150** | 9 x 12 | 30-150 | 22-110 | 10 N·m | 1 N·m | 489.5 | 417.2 | 17.5 | 27.5 | 32 | 1000 |
| 2641461 | **DMSE 200** | 14 x 18 | 40-200 | 30-150 | 10 N·m | 1 N·m | 499.5 | 427.2 | 25.0 | 27.5 | 42 | 1100 |
| 2641488 | **DMSE 300** | 14 x 18 | 60-300 | 45-220 | 10 N·m | 1 N·m | 590.5 | 518.2 | 25.0 | 27.5 | 42 | 1300 |
| 2641496 | **DMSE 400** | 14 x 18 | 80-400 | 60-300 | 10 N·m | 1 N·m | 677.5 | 605.2 | 25.0 | 33.0 | 42 | 2000 |

## GDMSE

### TORQUE WRENCH SET DREMASTER SE

- The DREMASTER DMSE as a practical tool set
- Most-widely-used tools in a robust sheet-metal case
- Clearly organised - everything always ready to hand
- With foam-material inlay modules (on request, these can be customised or extended individually)

| Code | No. | □mm | N·m | lbf·ft | Contents | ⚖ |
|---|---|---|---|---|---|---|
| 2641658 | **GDMSE 100** | 9 x 12 | 20-100 | 15-75 | No. DMSE 100 in sheet-metal case<br>13 17 19 13 17 19 and 1/2" ratchet head | 3.9 |
| 2643731 | **GDMSE 150** | 9 x 12 | 30-150 | 22-110 | No. DMSE 150 in sheet-metal case<br>13 17 19 13 17 19 and 1/2" ratchet head | 5.6 |
| 2641666 | **GDMSE 200** | 14 x 18 | 40-200 | 30-150 | No. DMSE 200 in sheet-metal case<br>17 19 24 17 19 24 and 1/2" ratchet head | 6.3 |
| 2641674 | **GDMSE 300** | 14 x 18 | 60-300 | 45-220 | No. DMSE 300 in sheet-metal case<br>24 30 32 24 30 32 36 and 1/2" ratchet head | 6.5 |
| 2641690 | **GDMSE 400** | 14 x 18 | 80-400 | 60-300 | No. DMSE 400 in sheet-metal case<br>24 30 32 24 30 32 36 and 1/2" ratchet head | 7.0 |

Quantities in packs may vary.

# TORCOFIX K / K US

**Robust torque wrench with square drive and integrated ratchet-head function for controlled bi-directional tightening.**

Micrometer scale: Optimised shape, stable scale frame with red-shaded micrometer scale ring.
Model-dependent intervals of 0.25; 0.1 or 0.025 N·m allow very accurate settings.

Ligthweight and reliable: Locking button enables reliable locking of the torque setting.

± 3 %

Working accuracy: +/- 3 % tolerance of scale set torque. Includes test certificate according to DIN EN ISO 6789.
Serial number on the wrench and on the certificate for unambiguous product identification, traceable to national standards.

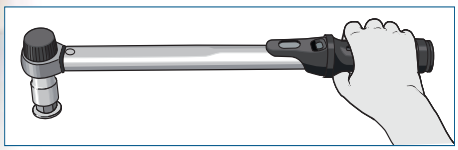
Scale: Easily readable dual scale (N·m / lbf·in / lbf·ft) well protected under a window with a magnifying-glass effect.
The torque setting is readable on the scale or, more particularly, on the scale in combination with the scale ring.

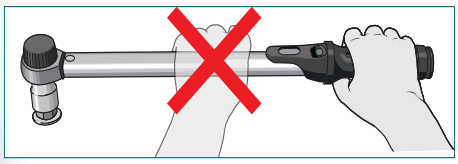
Chrome-plated ratchet head: All 1/4" - 3/8" square drives of the TOROFIX K-series have a black plastic cap - also referred to as a mushroom head.
This mushroom head prevents an unintentional pulling out of the whole square drive when changing the nut socket.

Automatic actuation: The TORCOFIX actuates with a clear tactile impulse and audible signal and is immediately ready for operation again.

Robust steel tube: With high corrosion protection, chrome-plated, silk-metal.

Handgrip with a user aid: Black plastic handgrip, new ergonomically enhanced shape, with an indentation in the middle of the handgrip.
User aid and reference points for calibration.





K 1/4 - 3/8
1 - 50 N·m

K US 1/4 - 3/4
10 lbf·in - 600 lbf·ft

Z 16
2 - 50 N·m

SE 9x12
2 - 50 N·m

## 4549

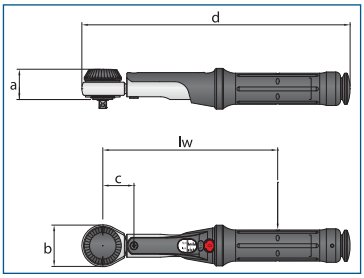
### TORQUE WRENCH TORCOFIX K 1-50 N·m / 0.75-37 lbf·ft

**Use:**

- Controlled screw tightening in the most widely used range of 1 - 50 N·m / 0.75 - 37 lbf·ft
- For use in almost all industrial manufacturing areas

**Features:**

- Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3 % tolerance of scale set torque. The specification of the standard (+/- 4 %) is exceeded.
- Adjustable torque wrench with square drive and integrated ratchet function for controlled bi-directional tightening
- 1/4", 3/8" interchangeable mushroom head with ball locking device as per DIN 3120 - A 6.3 or A 10, similar to ISO 1174
- With certificate acc. to DIN EN ISO 6789, traceable via in-house DKD laboratory to national standards
- Release system triggers a tactile and audible signal
- Sturdy, satin chrome-plated tubular steel design, with chrome-plated ratchet head and high-quality plastic parts
- Dual scale N·m and lbf·ft below a window with a magnifying glass effect
- Magnifying glass with marking for minimum paralaxe errors allows a high degree of safety when setting the requisite torque value
- Additional micrometre scale for setting interim values
- Ergonomically shaped, convenient black plastic handgrip, with an indentation in the middle as a calibration aid




| Code | No. | ■" | ■ | N·m | lbf·ft | ≡ | scale ring | lw | a | b | c | d | ⚖ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2201429 | **4549-00** | 1/4 | 6.3 | 1-5 | 0,75-3,7 | 0,25 N·m | 0,025 N·m | 146.0 | 25.3 | 35 | 26 | 224.0 | 323 |
| 1545132 | **4549-02** | 1/4 | 6.3 | 2-25 | 1,5-18 | 1 N·m | 0,1 N·m | 206.5 | 24.0 | 35 | 26 | 284.5 | 450 |
| 1545140 | **4549-05** | 3/8 | 10.0 | 5-50 | 3,5-37 | 2,5 N·m | 0,25 N·m | 256.5 | 24.0 | 35 | 26 | 334.5 | 540 |

## 4549-G

### TORQUE WRENCH SET TORCOFIX K 1-50 N·m / 0.75-37 lbf·ft

- The TORCOFIX K as a practical tool set
- Most-widely-used tools in a robust sheet-metal case
- Clearly organised - everything always ready to hand
- With foam-material inlay modules (on request, these can be customised or extended individually)

| Code | No. | ■" | ■ | Contents | N·m | lbf·ft | ≡ | ⚖ |
|---|---|---|---|---|---|---|---|---|
| 2312646 | **4549-G00** | 1/4 | 6.3 | No. 4549-00 - in sheet-metal case<br>○ 7 8 10 13 ⟷ 55 mm<br>and 1/4" square drive | 1-5 | 0,75-3,7 | 0,25 N·m | 3.0 |
| 1547003 | **4549-G02** | 1/4 | 6.3 | No. 4549-02 - in sheet-metal case<br>○ 7 8 10 13 ⟷ 55 mm<br>and 1/4" square drive | 2-25 | 1,5-18 | 1 N·m | 3.2 |
| 1547011 | **4549-G05** | 3/8 | 10.0 | No. 4549-05 - in sheet-metal case<br>○ 8 10 13 17 ⟷ 125 mm<br>and 3/8" square drive | 5-50 | 3,5-37 | 2,5 N·m | 3.5 |

Quantities in packs may vary.

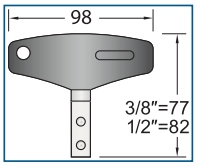
## 4550

### QUICK-TURN WITH T-GRIP DREH-FIX

**Use:**
- Enables controlled torque tightening in combination with a DREMASTER DMK, TORCOFIX K and K US
- Very quick pre-tightening, following the torque wrench makes the final work

**Features:**
- Made of chrome-vanadium steel
- With T-grip made of polypropylene (PPN)
- Scarred grip
- With 3/8" or 1/2" square drive with ball locking device
- Max. continuous load of coupler according to DIN EN ISO 6789:2003;
- 4550-80 1/2" = 340 N·m
- 4550-81 3/8" = 135 N·m

**Scope of delivery:**
- DREH-FIX
- Single packed in poly-bag




| Code | No. | ■" | ■ | □" | □ | |
|---|---|---|---|---|---|---|
| 7604470 | **4550-81** | 3/8 | 10.0 | 1/2 | 12.5 | 100 |
| 7604390 | **4550-80** | 1/2 | 12.5 | 1/2 | 12.5 | 100 |

## 4549

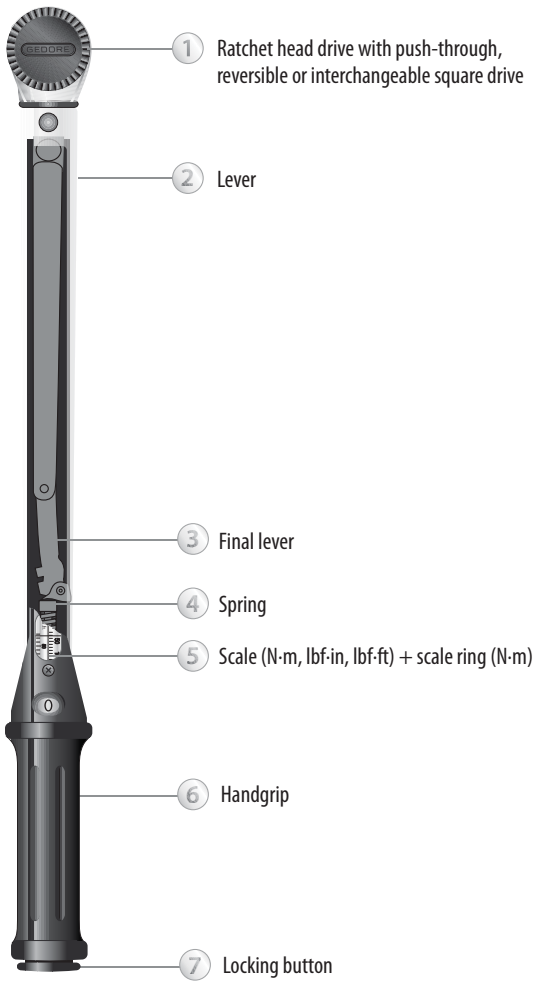
### MUSHROOM HEAD / SQUARE DRIVE TORCOFIX K

**Use:**
- Interchangeable square drive (mushroom head) for TORCOFIX K and K US

**Features:**
- Made of chrome-vanadium steel, zinc-plated
- With black mushroom head made of polypropylene (PPN)
- With 1/4" or 3/8" output square drive with ball locking device

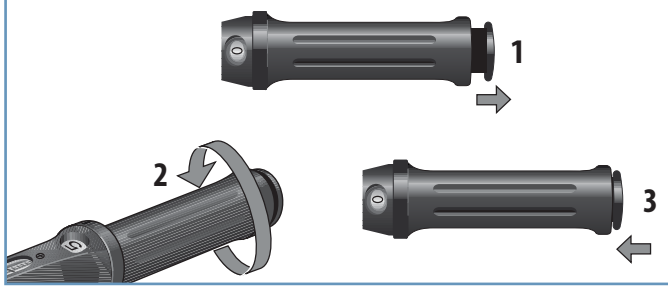
| Code | No. | □" | □ | ■" | ■ | Ø mm | |
|---|---|---|---|---|---|---|---|
| 1545167 | **4549-87S** | 3/8 | 10 | 1/4 | 6.3 | 35 | 21 |
| 1566385 | **4549-88S** | 3/8 | 10 | 3/8 | 10.0 | 35 | 22 |

## Mechanics



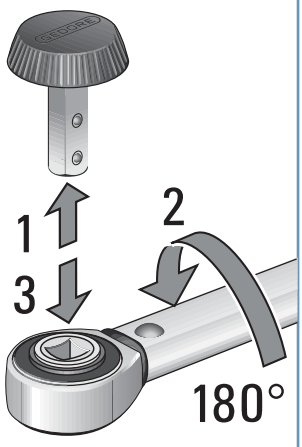

## Features

Pull out the locking button at the end of the handgrip and turn the handgrip in the clockwise or counter-clockwise direction in order to make the desired torque setting. Lock the locking button again. Finished!




## Function

**In order to change the turning direction of the TORCOFIX K:**
- Press on the protruding square drive with your thumb and take out the mushroom head, turn the wrench and re-insert the square drive.






Quantities in packs may vary.

# TORCOFIX K US

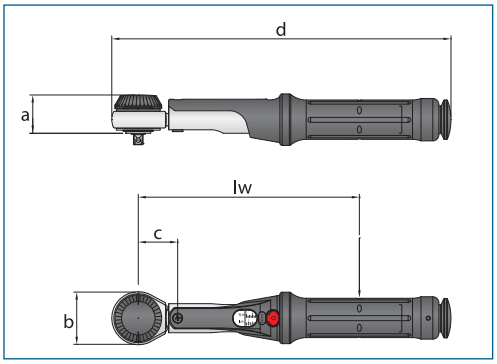
## 6550 - 6551

### TORCOFIX K US 10 lbf·in - 600 lbf·ft / 1.1 - 810 N·m

**Use:**
- Controlled screw tightening in the most widely used range of 10 lbf·in - 600 lbf·ft
- For use in almost all areas of industrial manufacturing

**Features:**
- Anglo-American unit
- Adjustable torque wrench with square drive and integrated ratchet function
- For controlled bi-directional tightening
- 1/4", 3/8", 1/2" interchangeable mushroom head-square drive with ball locking device as per DIN 3120 - A 6.3, A 10 or A 12.5, ISO 1174
- With 3/4" push through square drive with pin-locking mechanism DIN 3120 - B 20, ISO 1174 (no. 6551-120)
- With test certificate acc. to DIN EN ISO 6789, traceable to national standards
- Lever-breaking mechanism with a castor guarantee tactile-impulse and audible actuation signals
- Working accuracy: +/- 3 % tolerance of scale set torque
- Robust, silk-matt chrome-plated steel tube construction, with chrome-plated ratchet head and high-quality plastic parts
- Dual scale in lbf·in resp. lbf·ft and N·m underneath a window with a magnifying-glass effect
- Additional micrometer scale with lbf·in / lbf·ft graduation (see table)
- Ergonomically shaped convenient black plastic handgrip with blue adjusting knob
- With an indentation in the middle of the handgrip as a calibration aid
- 9 models in the range 10 lbf·in - 600 lbf·ft

**Scope of delivery:**
- Torque wrench type TORCOFIX K US
- Test certificate acc. to DIN EN ISO 6789 Type II class A
- Operating instructions
- The individual wrench is delivered in a transparent plastic box with a practical suspension mounting or in sturdy cardboard packaging (no. 6551-60/-120)




| Code | No. | ■" | ■ | N·m | lbf·in | lbf·ft | لبسلبسا | scale ring | lw | a | b | c | ⟷mm⟷ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1956744 | **6550-01** | 1/4 | 6.3 | 1,1-5,6 | 10-50 | | 2,5 lbf·in | 0,25 lbf·in | 140.0 | 24 | 35 | 26 | 220 | 300 |
| 1956752 | **6550-02** | 1/4 | 6.3 | 2-11 | 20-100 | | 5 lbf·in | 0,5 lbf·in | 140.0 | 24 | 35 | 26 | 220 | 300 |
| 1956779 | **6550-05** | 3/8 | 10.0 | 6-28 | 50-250 | | 10 lbf·in | 1 lbf·in | 230.0 | 33 | 43 | 35 | 307 | 800 |
| 1956787 | **6550-15** | 3/8 | 10.0 | 17-113 | 150-1000 | | 50 lbf·in | 5 lbf·in | 303.5 | 33 | 44 | 35 | 394 | 900 |
| 1956795 | **6551-07** | 3/8 | 10.0 | 10-68 | | 7-50 | 2,5 lbf·ft | 0,25 lbf·ft | 303.5 | 33 | 44 | 35 | 394 | 900 |
| 1956817 | **6551-10** | 1/2 | 12.5 | 15-102 | | 10-75 | 2,5 lbf·ft | 0,25 lbf·ft | 303.5 | 33 | 44 | 35 | 394 | 900 |
| 1956833 | **6551-30** | 1/2 | 12.5 | 40-205 | | 30-150 | 5 lbf·ft | 0,5 lbf·ft | 394.5 | 33 | 44 | 35 | 485 | 1100 |
| 1956841 | **6551-60** | 3/4 | 20.0 | 81-407 | | 60-300 | 10 lbf·ft | 1 lbf·ft | 583.5 | 31 | 67 | 46 | 686 | 2000 |
| 1956868 | **6551-120** | 3/4 | 20.0 | 163-810 | | 120-600 | 10 lbf·ft | 1 lbf·ft | 1,133.0 | 31 | 69 | 327 | 1236 | 4500 |

Quantities in packs may vary.

## 4400 - 4405

### TORQUE WRENCH TORCOFIX Z 2-50 N·m / 1.5-37 lbf·ft

**Use:**
- Controlled screw tightening in the most widely used range of 2 - 50 N·m / 1.5 - 37 lbf·ft
- For use in almost all industrial manufacturing areas

**Features:**
- Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3 % tolerance of scale set torque. The specification of the standard (+/- 4 %) is exceeded.
- 16 mm spigot end
- For controlled bi-directional tightening
- Release system triggers a tactile and audible signal
- With micrometre scale for setting interim values
- Sturdy, satin chrome-plated tubular steel design and high-quality plastic parts; ergonomically shaped plastic handgrip with marking in the middle of the handgrip
- Factory depth gauges: 32 mm
- Operation only with end fittings with standardised depth gauges, otherise inaccuracies can arise
- Depending on the application, access is possible from the front (e.g. open-end fitting) or side (e.g. reversible ratchet and socket)

| Code | No. | Ø | N·m | lbf·ft | تسلسل | scale ring | lwZ | lcZ | a | b | c | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1646168 | **4400-02** | 16 | 2-25 | 1,5-18 | 1 N·m | 0,1 N·m | 211.0 | 32 | 20.0 | 30 | 279.0 | 330 |
| 1646176 | **4405-05** | 16 | 5-50 | 3,5-37 | 2,5 N·m | 0,25 N·m | 261.0 | 32 | 20.0 | 30 | 329.0 | 390 |

## 4400-G - 4405-G

### TORQUE WRENCH SET TORCOFIX Z 2-50 N·m / 1.5-37 lbf·ft

- The TORCOFIX Z as a practical tool set
- Most-widely-used tools in a robust sheet-metal case
- Clearly organised - everything always ready to hand
- With foam-material inlay modules (on request, these can be customised or extended individually)

| Code | No. | Ø | N·m | lbf·ft | Contents | |
|---|---|---|---|---|---|---|
| 1663259 | **4400-G02** | 16 | 2-25 | 1,5-18 | No. 4400-02 - in sheet-metal case<br>10 13 17 10 13 17<br>and -ratchet head | 3.0 |
| 1663267 | **4405-G05** | 16 | 5-50 | 3,5-37 | No. 4405-05 - in sheet-metal case<br>10 13 17 10 13 17<br>and -ratchet head | 3.3 |

### Technical information Z

- The large cross-section of the spigot end transfers a maximum torque. "Quick-fitting-change-system" with a locking pin mechanism guarantees that work takes place flexibly and rapidly.
- Ideal for bolted connections in cramped and hard-to-access locations. Depending on how the torque wrench Z is used, it is possible to work both in the forward direction and also to the side. For anti-clockwise tightening, simply turn the torque wrench through 180°

Quantities in packs may vary.

# TORCOFIX SE

## 4101

### TORQUE WRENCH TORCOFIX SE 2-50 N·m / 1.5-37 lbf·ft

**Use:**
- Controlled screw tightening in the most widely used range of 2 - 50 N·m / 1.5 - 37 lbf·ft
- For use in almost all industrial manufacturing areas

**Features:**
- Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate. Working accuracy: +/- 3 % tolerance of scale set torque. The specification of the standard (+/- 4 %) is exceeded.
- 9x12 mm rectangular cavity
- For controlled bi-directional tightening
- Release system triggers a tactile and audible signal
- With micrometre scale for setting interim values
- Sturdy, satin chrome-plated tubular steel design and high-quality plastic parts; ergonomically shaped plastic handgrip with marking in the middle of the handgrip
- Factory depth gauges: 17.5 mm (9x12)
- Operation only with end fittings with standardised depth gauges, otherwise inaccuracies can arise
- Depending on the application, access is possible from the front (e.g. rectangular open-end fitting) or side (e.g. reversible ratchet and socket)

9x12

± 3 %

| Code | No. | □mm | N·m | lbf·ft | ىىىىىى | scale ring | lwSE | lcSE | a | b | c | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1646192 | **4101-02** | 9 x 12 | 2-25 | 1,5-18 | 1 N·m | 0,1 N·m | 213.0 | 17.5 | 20.0 | 32 | 274.0 | 300 |
| 1646206 | **4101-05** | 9 x 12 | 5-50 | 3,5-37 | 2,5 N·m | 0,25 N·m | 263.0 | 17.5 | 20.0 | 32 | 324.0 | 450 |

## 4101-G

### TORQUE WRENCH SET TORCOFIX SE 2-50 N·m / 1.5-37 lbf·ft

- The TORCOFIX SE as a practical tool set
- Most-widely-used tools in a robust sheet-metal case
- Clearly organised - everything always ready to hand
- With foam-material inlay modules (on request, these can be customised or extended individually)

9x12

± 3 %

| Code | No. | □mm | N·m | lbf·ft | Contents | |
|---|---|---|---|---|---|---|
| 1663224 | **4101-G02** | 9 x 12 | 2-25 | 1,5-18 | No. 4101-02 - in a sheet-metal case<br>10 13 17 10 13 17 and ⅜-ratchet head | 3.0 |
| 1663232 | **4101-G05** | 9 x 12 | 5-50 | 3,5-37 | No. 4101-05 - in a sheet-metal case<br>10 13 17 10 13 17 and ⅜-ratchet head | 3.3 |

# TORCOFIX FS

## 4150 - 4151

### TORQUE WRENCH FOR PRE-SETTING TORCOFIX FS 2-200 N·m

**Use:**
- Controlled screw tightening in the most widely used range of 2 - 200 N·m without scale
- For use in almost all industrial serial manufacturing areas

**Features:**
- Classified to DIN EN ISO 6789:2003 Type II Class B, with a factory certificate. Working accuracy: +/- 3% tolerance of scale set torque. The specification of the standard (+/- 4%) is exceeded.
- Pre-set torque wrench with rectangular cavity
- For controlled bi-directional tightening
- With certificate acc. to DIN EN ISO 6789, traceable via in-house DKD laboratory to national standards
- Release system triggers a tactile and audible signal
- Robust, satin chrome-plated tubular steel construction
- Factory depth gauges: 17.5 mm (9x12) or 25 mm (14x18)
- Operation only with end fittings with standardised depth gauges, otherwise inaccuracies can arise
- Depending on the application, access is possible from the front (e.g. rectangular open-end fitting) or side (e.g. reversible ratchet and socket)
- If a factory setting is required, please specify the N·m value on the order

9x12
14x18

± 3 %

| Code | No. | □mm | N·m min / max | lwFS | lcFS | a | b | c | |
|---|---|---|---|---|---|---|---|---|---|
| 7601960 | **4150-25** | 9 x 12 | 2 / 25 | 134 | 17.5 | 22 | 31 | 186 | 210 |
| 7602180 | **4150-50** | 9 x 12 | 5 / 50 | 194 | 17.5 | 22 | 31 | 246 | 270 |
| 7602850 | **4150-85** | 9 x 12 | 15 / 85 | 277 | 17.5 | 22 | 31 | 329 | 340 |
| 7603580 | **4151-20** | 14 x 18 | 20 / 200 | 354 | 25.0 | 33 | 42 | 407 | 750 |

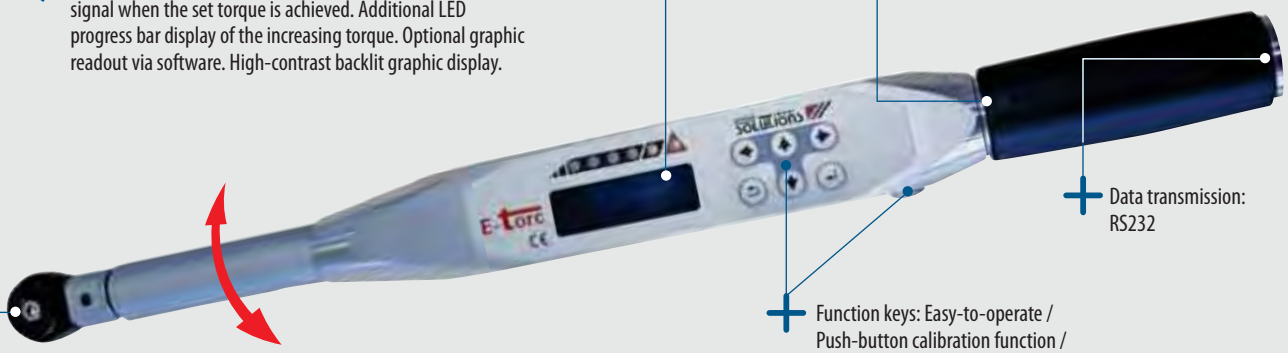
Quantities in packs may vary.

# E-torc II
# Microprocessor-controlled torque wrench

± 1 %  ± 1 %

+ Lightweight and comfortable: The aluminium housing and ergonomically designed handgrip enable easy and safe operation, even over wide tightening ranges

+ Torque / rotary angle control: Visual, acoustic and sensory signal when the set torque is achieved. Additional LED progress bar display of the increasing torque. Optional graphic readout via software. High-contrast backlit graphic display.




+ Data transmission: RS232

+ Function keys: Easy-to-operate / Push-button calibration function / Selectable readings in N·m or lbf·ft / lbf·in via software

+ Drive: 22 mm spigot socket, with 1/4" drive or 9x12 / 14x18 mm rectangular cavity with pin-locking mechanism. For hard-to-access and confined locations. Special tools on request

## E-torc II
## Electronic torque wrench with angle measurement

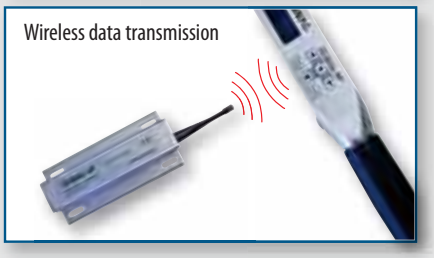
- Calibration at the push of a button
- High-contrast backlit graphic display
- Aluminium housing, can be rotated by 120°
- Visual, acoustic and sensorial signal
- Free of charge, comprehensive software
- 5 models from 2 upto 1000 N·m

**General information:**
- 1/4" square drive, 9x12 and 14x18 rectangular cavity, 22 and 28 mm spigot end
- Signal: visual (LED progress bar), acoustic (beep), sensorial (vibration)
- Measurement accuracy torque +/- 1 % tolerance for all read-off values, +/- 1 digit
- Measurement accuracy torque angle +/- 1 %, but min. +/- 1° on 360°
- Test certificate acc. to DIN EN ISO 6789:2003 Type I Class C
- Memory: 2000 values
- Curve memory (1 curve at 100 values/sec.)
- Serial interface to read data (RS232)
- Flowchart with 5 screw parameters
- Operation with disposable-battery or rechargeable-battery (2 Standard Mignon AA)
- Incl. analysis software and data transfer cable
- Delivered in a robust sheet-metal case with insert

**Options:**
- Curve memory (extended to 50 curves each 100 values/sec.)
- Flowcharts extendable to 100 parameters
- Barcode scanner/input ident number (reading of a barcode or ident number input

Barcode scanner

- Wireless data transmission (868 Mhz range)


Wireless data transmission

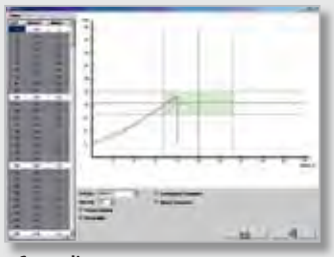
- Power/Communication tray (loading of the key and data transfer)
- First movement
- Yield point detection
- Customised programming (on request)
- Calibration to DAkkS-DKD-R 3-7, Class 1 (on request)

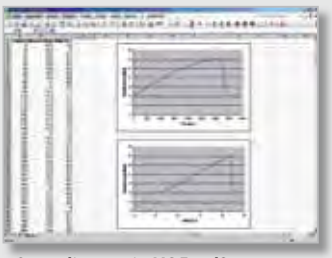
Power/Communication tray

## E-torc II
## Software basic functions

Main screen

Wrench settings


Curve diagram


Curve diagram in MS Excel®

## TT3K

### ELECTRONIC TORQUE WRENCH TORCOTRONIC III 10-350 N·m / 7.4-258.2 lbf·ft

**Use:**
- For everyday requirements in installation and torque control
- For use in all areas of manufacturing and development

**Features:**
- Microprocessor-controlled, electronic torque wrench
- For controlled bi-directional tightening
- Acc. to DIN EN ISO 6789, traceable to national standards
- Robust workshop design
- Broad measurement range in N·m, can be switched to lbf·ft
- With 1/2" reversible ratchet. The ratchet is exchangeable, providing the option of using a 9x12 mm (TT3H 120) or 14x18 mm (TT3H 350) square socket

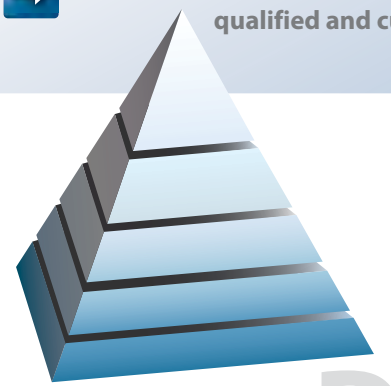
**Features:**
- Torque measure
- Torque and torque angle measure
- 5 different measuring modes
- 5 parameters storable
- USB interface for data exchange
- 2000 storage places
- Measurement accuracy torque +/- 1 %, +/- 1 digit
- Measurement accuracy torque angle +/- 1 %, but min. +/- 1° on 360° with min. 4°/sec
- Different depth gauges for end fittings programmable
- Simple to operate with easy to understand Icon-menu navigation and 4 functional keys
- Clearly readable, illuminated LCD display
- Resolution torque: 0.1 N·m
- Resolution torque angle: 0.1°
- PC-software easy to operate for uncomplicated programming and documentation of data
- Data can be transfered to MS Excel®
- Keyboard lock
- Operation with standard Mignon AA or optional with rechargeable-battery (NiMH)
- Visual signal: 3x LED (yellow, green, red)
- Acoustic signal: buzzer
- TÜV certified, CE and RoHS
- 2 models in the range 10 - 350 N·m
- Test certificate acc. to DIN EN ISO 6789:2003 Type I Class C
- Calibration to DAkkS-DKD-R 3-7, Class 1 (on request)

**Scope of delivery:**
- Electronic torque wrench TorcoTronic III HighLine
- Reversible ratchet 1/2"
- USB cable
- Software on CD-R
- Test certificate acc. to DIN EN ISO 6789:2003 Type I Class C
- Delivered in a transparent plastic box with insert

**Attention:**
- A PC, running a Windows® operating system (from Windows XP®) is required to obtain the full benefit of all the functions of this product.

| Code | No. | ■ " | ■ | □ mm | N·m | lbf·ft | |
|---|---|---|---|---|---|---|---|
| 2648636 | **TT3KH 120** | 1/2 | 12.5 | 9 x 12 | 10-120 | 7,4-88,5 | 0.9 |
| 2648644 | **TT3KH 350** | 1/2 | 12.5 | 14 x 18 | 70-350 | 51,6-258,2 | 1.2 |


OUR SERVICE - qualified and customised



DKD

312 - 319



K 19 • D 19

236 208


Quantities in packs may vary.

# TORQUE SCREWDRIVER

- Ideal for serial production
- 3 Torque screwdriver handles for 3 working ranges
- 23 different plug-in blades for all common screw profiles (slotted, cross-slotted PH + PZ, TORX® and TORX PLUS®)
- All items are available individually - from torque screwdriver handle to each plug-in blade)

## 2140

### TORQUE SCREWDRIVER SET 25 pieces

- Ideal for working in a small torque range, e.g. electronics, precision mechanics
- GEDORE-Check-Tool system
- For screwdriver function simply add the 2C multi-handle with appropriate accessory
- Adjustable, with tactile impulse and audible signal
- For guaranteed controlled screw tightening in the range of 1.5-3 / 3-5.4 N·m
- With test certificate acc. to DIN EN ISO 6789, traceable to national standards
- Actuation accuracy: +/- 6 % tolerance of the set value
- Delivered with test certificate and operating instructions

| Code | No. | Contents | N·m | | |
|---|---|---|---|---|---|
| 1953761 | **2140-3,0-025** | **680** 4 6,5<br>**685** 2 2,5 3 4 5 6<br>**690** 0 1 2<br>**D 20** 4 4,5 5 5,5 6 7 8 9 10<br>**42** 6 **673 L** **676** **699 L**<br>**2140** 3,0 N·m | 1,5-3,0 | 595 | 1 |
| 1802429 | **2140-5,4-025** | **680** 4 6,5<br>**685** 2 2,5 3 4 5 6<br>**690** 0 1 2<br>**D 20** 4 4,5 5 5,5 6 7 8 9 10<br>**42** 6 **673 L** **676**<br>**699 L** **2140** 5,4 N·m | 3,0-5,4 | 595 | 1 |

## 2140

### TORQUE SCREWDRIVER HANDLE 0.6-5.4 N·m

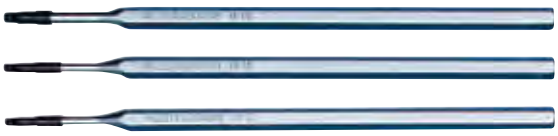
- Adjustable, with tactile impulse and audible signal
- For guaranteed controlled screw tightening in the range of 0.6 - 5.4 N·m
- With test certificate acc. to DIN EN ISO 6789, traceable to national standards
- Including hexagon socket key set 42 6 mm
- Actuation accuracy:
- model 2140 1,5 NM: +/- 10 % tolerance of the set value
- model 2140 3,0 NM and 2140 5,4 NM: +/- 6 % tolerance of the set value

| Code | No. | N·m | | | | |
|---|---|---|---|---|---|---|
| 1802364 | **2140 1,5 NM** | 0,6-1,5 | 108 | 0,1 | 145 | 1 |
| 1802372 | **2140 3,0 NM** | 1,5-3,0 | 108 | 0,1 | 147 | 1 |
| 1802380 | **2140 5,4 NM** | 3,0-5,4 | 108 | 0,2 | 152 | 1 |

## 2141 IP

### PLUG-IN BLADE 1/4" HEX for recessed TORX PLUS® head screws

- TORX PLUS® = reg. trademark of Acument Intellectual Properties, LLC. USA



| Code | No. | | | | |
|---|---|---|---|---|---|
| 1802658 | **2141 6IP** | M2 | 170 | 42 | 1 |
| 1802666 | **2141 7IP** | - | 170 | 42 | 1 |
| 1802674 | **2141 8IP** | M2,5 - M3 | 170 | 42 | 1 |
| 1802682 | **2141 9IP** | - | 170 | 42 | 1 |
| 1802690 | **2141 10IP** | M3 - M3,5 | 170 | 42 | 1 |
| 1802704 | **2141 15IP** | M3,5 - M4 | 170 | 44 | 1 |

## Accessories

Activating tools and screwdriver bits as well as adaptors are listed up from page

245 - 253

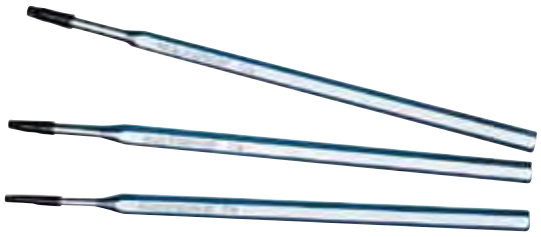


Quantities in packs may vary.

## 2141 TX

**PLUG-IN BLADE 1/4" HEX for recessed TORX® head screws**

◤ TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



| Code | No. | | M | mm | mm | | |
|---|---|---|---|---|---|---|---|
| 1802569 | **2141 TX T6** | T6 | M2 | 1.69 | 170 | 42 | 1 |
| 1802577 | **2141 TX T7** | T7 | M2,5 | 1.99 | 170 | 42 | 1 |
| 1802585 | **2141 TX T8** | T8 | M2,5 | 2.31 | 170 | 42 | 1 |
| 1802593 | **2141 TX T9** | T9 | M3 | 2.50 | 170 | 42 | 1 |
| 1802607 | **2141 TX T10** | T10 | M3 - M3,5 | 2.74 | 170 | 42 | 1 |
| 1802615 | **2141 TX T15** | T15 | M3,5 - M4 | 3.27 | 170 | 44 | 1 |
| 1802623 | **2141 TX T20** | T20 | M4 - M5 | 3.86 | 170 | 45 | 1 |
| 1802631 | **2141 TX T25** | T25 | M4,5 - M5 | 4.43 | 170 | 46 | 1 |

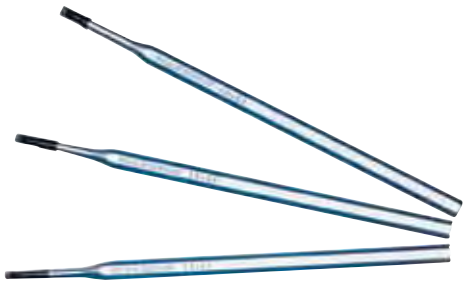
## 2141 PH

**PLUG-IN BLADE HEX for cross-slotted head screws PH**

| Code | No. | PH | M | mm | | |
|---|---|---|---|---|---|---|
| 1802496 | **2141 PH 0** | 0 | M1,6 - M2 | 170 | 42 | 1 |
| 1802518 | **2141 PH 1** | 1 | M2 - M3 | 170 | 44 | 1 |
| 1802526 | **2141 PH 2** | 2 | M3,5 - M5 | 170 | 46 | 1 |

## 2141 IS

**PLUG-IN BLADE 1/4" HEX for slotted head screws**

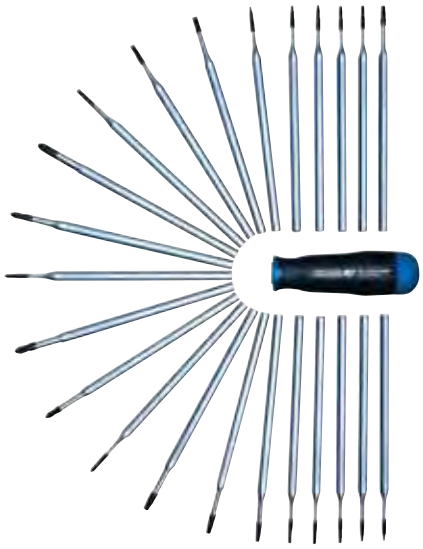


| Code | No. | mm | mm | mm | | |
|---|---|---|---|---|---|---|
| 1802453 | **2141 IS 3** | 3.0 | 0.5 | 170 | 42 | 1 |
| 1802461 | **2141 IS 3,5** | 3.5 | 0.6 | 170 | 43 | 1 |
| 1802488 | **2141 IS 4** | 4.0 | 0.8 | 170 | 43 | 1 |

## 2141 PZ

**PLUG-IN BLADE HEX for cross-slotted head screws PZ**

| Code | No. | PZ | M | mm | | |
|---|---|---|---|---|---|---|
| 1802534 | **2141 PZ 0** | 0 | M1,6 - M2 | 170 | 42 | 1 |
| 1802542 | **2141 PZ 1** | 1 | M2 - M3 | 170 | 44 | 1 |
| 1802550 | **2141 PZ 2** | 2 | M3,5 - M5 | 170 | 46 | 1 |



2133

161

Quantities in packs may vary.

## Torque screwdriver Technical features
## A range of compact and versatile torque screwdrivers with automatically actuating, dial-indicating and measuring torque.

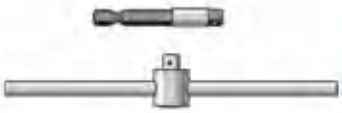
**Type FS 755**
Pre-set torque screwdriver without scale for durable and identical value tightening
Auto setting
Bidirectional
Anodised aluminium handgrip

**Type 756**
Adjustable torque screwdriver with micrometer scale
"Positive-lock"-system
Drive type made of stainless steel
Auto setting
Bidirectional
Non-slip rubber handgrip
EPA > see product

**Type S 757**
Adjustable torque screwdriver with micrometer scale
Auto setting
Bidirectional
Anodised aluminium handgrip

**Type SP 758**
Dial-indicating torque screwdriver with dual scale
Locking of maximum values / maximum value-display
Bidirectional
Anodised aluminium handgrip
EPA > see product

**Scope of delivery**
We supply a 1/4"-1/4"-drive adaptor with all models
To make work easier, a sliding or removable T-bar is included with several models



**Special models**
Optionally, all torque screwdrivers are also available with a 1/4" male square drive spindle.
Apart from that: Torque screwdrivers for the medical "clean-room" area are available on request.

## 757

### TORQUE SCREWDRIVER TYPE S 0.2-9 N·m

**Use:**
- Controlled screw tightening in the range 20 cN·m - 9 N·m
- High-speed, controlled tightening enables serial production
- Electrical and electronic hardware industry, instrument-making industry and industrial manufacturing or in quality control

**Features:**
- Adjustable torque screwdriver with scale
- With 1/4" female hexagon drive for use with 1/4" hexagon bits as per DIN 3126 - C 6.3
- With adaptor also suitable for 1/4" square drive sockets as per DIN 3124
- Working accuracy: +/- 6 % tolerance of the set torque
- Acc. to DIN EN ISO 6789, traceable to national standards
- Precision radial ball clutch and cam design for controlled bi-directional tightening
- Precision mechanism slips very noticeably through when set torque is reached
- Automatic resetting to the starting position
- Locking of the value by means of an adjusting knob
- 3 models in the range 20 cN·m to 9 N·m
- Micrometer scale graduation: 1 cN·m / 0.1 N·m
- Lightweight construction by virtue of anodised aluminium handgrips

**Scope of delivery:**
- Torque screwdriver type 757
- 1/4" square/hexagon drive adaptor (no. 757-20)
- Models 757-06/-09 with additional sliding T-bar (no. 757-21) - for ease of use
- Test certificate acc. to DIN EN ISO 6789
- Delivered in sturdy cardboard packaging

757-06

757-01

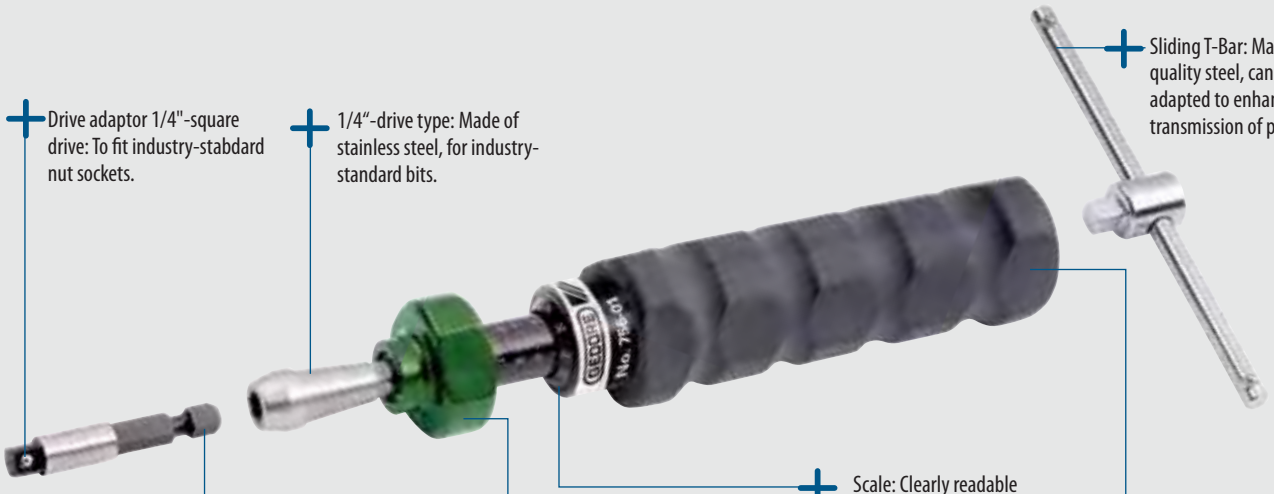
757-09

| Code | No. | ⬡ " | ⬡ | ■ " | ■ | cN·m | N·m | ⟷ mm ⟷ | ⟷ | Colour | ⚖ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7718050 | **757-01** | 1/4 | 6.3 | 1/4 | 6.3 | 20-120 | | 169 | 1,0 cN·m | black | 165 |
| 7718130 | **757-06** | 1/4 | 6.3 | 1/4 | 6.3 | | 1-6 | 184 | 0,1 N·m | red | 400 |
| 7718210 | **757-09** | 1/4 | 6.3 | 1/4 | 6.3 | | 4-9 | 184 | 0,1 N·m | green | 400 |



Quantities in packs may vary.

# Torque screwdrivers 756




## 756

### TORQUE SCREWDRIVER TYPE S 0.05-9 N·m

**Use:**
- Controlled screw tightening in the range 0.05 - 9 N·m
- High-speed, controlled tightening enables serial production
- Electrical and electronic hardware industry, instrument-making industry and industrial manufacturing or in quality control

**Features:**
- Adjustable torque screwdriver - with scale
- With 1/4" female hexagon drive for use with 1/4" hexagon bits as per DIN 3126 - C 6.3
- With adapter also suitable for 1/4" square drive sockets as per DIN 3124
- Actuation accuracy: +/- 6 % tolerance of the set value
- Acc. to DIN EN ISO 6789, traceable to national standards
- Precision radial ball clutch and cam design for controlled bi-directional tightening
- Precision mechanism slips very noticeably through when the set torque is reached
- Automatic resetting to the starting position
- "Positive-Lock" system automatically fixes the set value preventing it from wrong setting.
- 4 models in the range 0.05 N·m to 9 N·m
- Micrometre scaling: 1 cN·m and 0.1 N·m
- Very convenient, lightweight and non-slip rubber handgrip
- EPA-conformant (Electrostatic Protected Area), for use in sensitive electrostatic applications

**Scope of delivery:**
- Torque wrench type 756
- 1/4" square/hexagon drive adapter (no. 757-20)
- Models 756-06/-09 with additional sliding T-bar (no. 757-21) - for ease of use
- Test certificate acc. to DIN EN ISO 6789
- Delivered in sturdy cardboard packaging

756-01

| Code | No. | ⬡ " | ⬡ | ■ " | ■ | cN·m | N·m | ⟷ mm ⟷ | ⊔⊔ | Colour | ⚖ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1498738 | **756-00** | 1/4 | 6.3 | 1/4 | 6.3 | 5-40 | | 159 | 1 cN·m | silver | 124 |
| 1400150 | **756-01** | 1/4 | 6.3 | 1/4 | 6.3 | 20-120 | | 183 | 1 cN·m | blue | 165 |
| 1400169 | **756-06** | 1/4 | 6.3 | 1/4 | 6.3 | | 1-6 | 196 | 0,1 N·m | red | 340 |
| 1400177 | **756-09** | 1/4 | 6.3 | 1/4 | 6.3 | | 4-9 | 196 | 0,1 Nm | green | 340 |


685 • 690 245

20 • IN 20 178 - 181


Quantities in packs may vary.

## 755

### TORQUE SCREWDRIVER TYPE FS 0.02-13.6 N·m

**Use:**
- Controlled screw tightening in the range 0.02 - 13.6 N·m
- Serial manufacture with constant tightening value
- Electronic industry, precision mechanics and industrial manufacturing

**Features:**
- Pre-set torque screwdriver without a scale
- With 1/4" female hexagon drive for use with 1/4" hexagon bits as per DIN 3126 - C 6.3
- With adaptor also suitable for 1/4" square drive sockets as per DIN 3124
- Working accuracy: +/- 6 % tolerance of the set torque
- Acc. to DIN EN ISO 6789, traceable to national standards
- Precision radial ball clutch and cam design for controlled bi-directional tightening
- Precision mechanism slips very noticeably through when the set torque is reached
- Automatic resetting to the starting position
- 5 models in the range 0.02 to 13.6 N·m
- Lightweight construction by virtue of anodised aluminium handgrips
- The pre-setting can be made at the factory or by the user on suitable torque testers
- If ordering, please specify the N·m value - if a fixed factory setting is desired (price on request)

**Scope of delivery:**
- Torque screwdriver type 755
- 1/4" square/hexagon drive adaptor (no. 757-20)
- Model 755-05 with additional removable T-bar - for ease of use
- Test certificate acc. to DIN EN ISO 6789
- Delivered in sturdy cardboard packaging

755-01

755-02

755-04

755-05

| Code | No. | ⬡ " | ⬡ | ■ " | ■ | cN·m | N·m | ⟷ mm ⟷ | Colour | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1471481 | **755-01** | 1/4 | 6.3 | 1/4 | 6.3 | 2-22 | | 76 | red | 50 |
| 1471473 | **755-02** | 1/4 | 6.3 | 1/4 | 6.3 | 0,5-22 | | 104 | gold | 72 |
| 1471465 | **755-03** | 1/4 | 6.3 | 1/4 | 6.3 | 2-135 | | 111 | blue | 210 |
| 1471457 | **755-04** | 1/4 | 6.3 | 1/4 | 6.3 | 6-406 | | 127 | green | 280 |
| 1228501 | **755-05** | 1/4 | 6.3 | 1/4 | 6.3 | | 1-13,6 | 137 | black | 325 |

690 • 685

245
246

Quantities in packs may vary.

## 758

### TORQUE SCREWDRIVER TYPE SP 10-500 cN·m / 14 ozf·in - 40 lbf·in

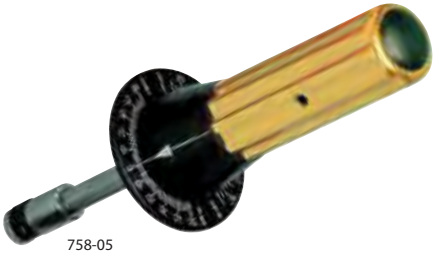
**Use:**
- In the torque range 10 cN·m - 500 cN·m
- For test and installation work in the electrical and electronic hardware industry, instrument-making industry and industrial manufacturing or in quality control

**Features:**
- Dial-indicating torque and test screwdriver - with dual scale (cN·m/ozf·in/lbf·in)
- With 1/4" female hexagon drive for use with 1/4" hexagon bits as per DIN 3126 - C 6.3
- With adapter also suitable for 1/4" square drive sockets as per DIN 3124
- Display accuracy: +/- 6 % tolerance of the indicated value
- Acc. to DIN EN ISO 6789, traceable to national standards
- For controlled bi-directional tightening
- With slave-pointer function
- For locking of maximum values / maximum-value display
- 4 models in the range 10 cN·m to 500 cN·m
- Lightweight construction by virtue of anodised aluminium handgrips
- EPA-conformant (Electrostatic Protected Area), for use in sensitive electrostatic applications

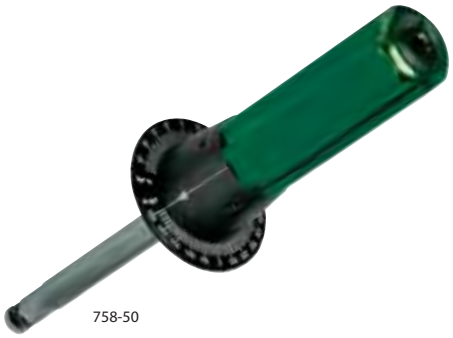
**Scope of delivery:**
- Torque screwdriver type 758
- 1/4" square/hexagon drive adapter (no. 757-20)
- Models 758-25/-50 with additional sliding T-bar (no. 757-21) - for ease of use
- Test certificate acc. to DIN EN ISO 6789
- Delivered in sturdy cardboard packaging

758-10

758-25



758-05



758-50

757-20

757-21

| Code | No. | ⬡ " | ⬡ | ■ " | ■ | cN·m | ozf·in / lbf·in | ⟷ mm ⟷ | | Colour | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 7096380 | **758-05** | 1/4 | 6.3 | 1/4 | 6.3 | 10-50 | 14-70 ozf·in | 178 | 2 cN·m / 2 ozf·in | gold | 190 |
| 7096460 | **758-10** | 1/4 | 6.3 | 1/4 | 6.3 | 20-100 | 28-140 ozf·in | 178 | 5 cN·m / 5 ozf·in | blue | 190 |
| 7096540 | **758-25** | 1/4 | 6.3 | 1/4 | 6.3 | 50-250 | 4-20 lbf·in | 250 | 10 cN·m / 0,5 lbf·in | red | 465 |
| 7096620 | **758-50** | 1/4 | 6.3 | 1/4 | 6.3 | 100-500 | 8-40 lbf·in | 250 | 20 cN·m / 1 lbf·in | green | 465 |

20

178

Quantities in packs may vary.

# TSN SLIPPER

**Pre-set ratchet head torque wrench with automatic actuation and slip function. Over-tightening is not possible.**

Integrated ratchet function: Particularly dependable ratchet having 36 teeth (759-00/-01) or 48 teeth (759-02/-03). Slip-through function guarantees controlled and safe screw tightening, even in hard-to-access locations.

High repeatability: Guarantees constant tightening torques.

Rubber handgrip: Ergonomic and pleasant to hold in your hand. Prevents slipping.

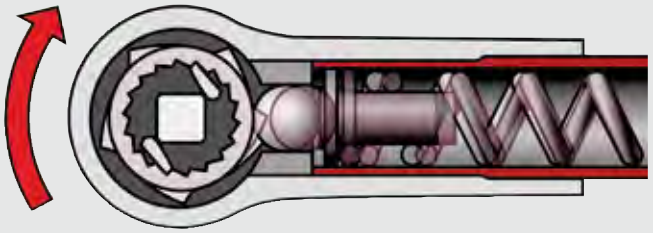
Solid light-metal tube: With plastic sleeving.

Robust casting part: Made of corrosion-resistant, rustproof material

Output square drive: Made of quality steel with ball-locking mechanism

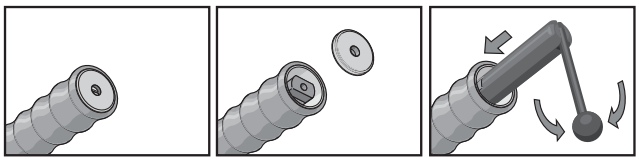
## TSN SLIPPER Working principle

When the pre-set torque value is achieved, the mechanism slips through over the ball (without the possibility of over-tightening). The torque wrench is then immediately ready for the next operation.



## TSN SLIPPER TBN BREAKER Technical information

All TSN SLIPPER and TBN BREAKER torque wrenches (apart from 760-00/-01) are fitted with the patented "Mechanical Torque Adjustment Locking Device" to modify torque tester.



## TORQUE WRENCH TSN SLIPPER 3-125 N·m

**Use:**
- Controlled screw tightening in the range 3 - 125 N·m
- Serial / production-line assembling
- Extremely long-term work

**Features:**
- Pre-set production torque wrench - without scale
- 1/4", 3/8" or 1/2" square drive with ball locking device
- With integrated ratchet-function for controlled clockwise tightening
- Working accuracy: +/- 4 % tolerance of the set torque
- Acc. to DIN EN ISO 6789, traceable to national standards
- Precision mechanism slips very noticeably and audibly ("click") when the pre-set value is achieved - over-tightening is not possible
- Automatic resetting to the starting position
- 4 models in the range 3 to 125 N·m
- Lightweight yet robust and corrosion-resistant construction design
- Very convenient non-slip rubber handgrip
- The pre-setting can be made at the factory or by the user on suitable torque testers
- If ordering, please specify the N·m value - if a factory pre-setting is desired (price on request)
- EPA-conformant (Electrostatic Protected Area), for use in sensitive electrostatic applications

**Scope of delivery:**
- Torque wrench type TSN SLIPPER
- Special adjusting key for changing the pre-set torque value
- Test certificate acc. to DIN EN ISO 6789
- Delivered in sturdy cardboard packaging

759-00

759-01

759-02

759-03

- TSN SLIPPER - the pre-set production torque wrench (without scale).
- With this torque wrench, accidental adjustment while working is ruled out.
- The state-of-the-art lightweight production wrenches "slip" through as soon as the set torque is achieved.
- Over-tightening is impossible.
- The ideal torque tool for all jobs where for a longer time only one tightening torque value is required.
- The automatic resetting and integrated ratchet are the ideal assistance for working swiftly.

- TSNs for counter-clockwise tightening, bi-directional tightening without a ratchet-function or as a VDE-Wrench can be manufactured specially - on request.

| Code | No. | ■ " | ■ | N·m | ⟷ mm ⟷ | Cams per turn | ⚖ |
|---|---|---|---|---|---|---|---|
| 7091900 | **759-00** | 1/4 | 6.3 | 3-25 | 216 | 10 | 340 |
| 7092040 | **759-01** | 3/8 | 10.0 | 3-25 | 216 | 10 | 340 |
| 7092120 | **759-02** | 3/8 | 10.0 | 15-55 | 324 | 10 | 800 |
| 7092200 | **759-03** | 1/2 | 12.5 | 40-125 | 460 | 8 | 1360 |

Quantities in packs may vary.

## 761

### TORQUE WRENCH TSP SLIPPER 1-10 N·m / 10-90 lbf·in

**Use:**
- Controlled screw tightening in the range 1 - 10 N·m
- Ideal for assembly work where controlled tightening with low torque values is required (e.g. electronic hardware sector, precision mechanics etc.)

**Features:**
- Pre-set production torque wrench - without scale
- 1/4" square drive with ball locking device
- With integrated ratchet-function for controlled clockwise tightening
- Working accuracy: +/- 6 % tolerance of the set torque
- Acc. to DIN EN ISO 6789, traceable to national standards
- Precision mechanism slips very noticeably and audibly ("click") when the pre-set value is reached - over-tightening is not possible
- Automatic resetting to the starting position
- 2 models in the range 1 N·m to 10 N·m
- Extremely lightweight yet robust and corrosion-resistant construction design
- Very convenient non-slip rubber handgrip
- EPA-conformant (Electrostatic Protected Area), for use in sensitive electrostatic applications
- The pre-setting can be made at the factory or by the user on suitable torque testers
- If ordering, please specify the N·m value - if a fixed factory pre-setting is desired (price on request)

**Scope of delivery:**
- Torque wrench type TSP SLIPPER
- Adjusting tool for changing the pre-set torque value
- Test certificate acc. to DIN EN ISO 6789
- Delivered in sturdy cardboard packaging

- TSP SLIPPER - the pre-set production torque wrench (without scale) for the lower torque range 1 - 10 N·m.
- Accidental adjustment while working is ruled out.
- The built-in ratchet with clockwise tightening and the corrosion-resistant lightweight construction design make this torque wrench the optimum working partner for quick and controlled screw tightening.
- The integrated slipping mechanism reliably prevents over-tightening - the guarantee for high repeatability and controlled tightening values.

| Code | No. | ■" | ■ | N·m | lbf·in | ↔mm↔ | |
|---|---|---|---|---|---|---|---|
| 1196650 | **761-05** | 1/4 | 6.3 | 1-5 | 10-45 | 185 | 190 |
| 1196731 | **761-10** | 1/4 | 6.3 | 2-10 | 20-90 | 185 | 190 |

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178 – 181

Quantities in packs may vary.

## 762

### TORQUE WRENCH TSC SLIPPER 1-10 N·m

**Use:**
- Controlled screw tightening in the range 1 - 10 N·m
- Ideal for assembly work where controlled tightening with low torque values is required (e.g. electronic hardware sector, precision mechanics etc.)

**Features:**
- Adjustable torque wrench - with scale
- 1/4" square drive with ball locking device
- With integrated ratchet-head function for controlled clockwise tightening
- Working accuracy: +/- 6 % tolerance of set torque
- Acc. to DIN EN ISO 6789, traceable to national standards
- Precision mechanism slips very noticeably and audibly ("click") when the set torque is reached - over-tightening is not possible
- Automatic resetting to the starting position
- Micrometer scale graduation: 0.05 N·m / 0.1 N·m
- 2 models in the range 1 N·m to 10 N·m
- Extremely lightweight yet robust and corrosion-resistant construction design
- Very convenient non-slip rubber handgrip
- EPA-conformant (Electrostatic Protected Area), for use in sensitive electrostatic applications

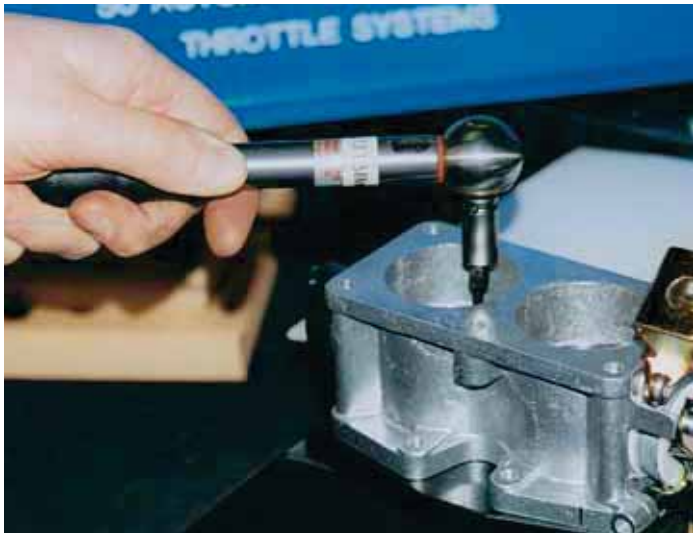
**Scope of delivery:**
- Torque wrench type TSC SLIPPER
- Test certificate acc. to DIN EN ISO 6789
- Delivered in sturdy cardboard packaging

### Technical information

- The scale is situated on the body tube.
- The setting is made by rotating the unlocked handgrip with the integrated micrometer ring.

- **TSC SLIPPER -** the adjustable torque wrenches (with scale) for the lower torque range 1 - 10 N·m.
- The built-in ratchet with clockwise tightening and the corrosion-resistant lightweight construction design make this torque wrench the optimum working partner for quick and controlled screw tightening.
- The integrated slipping mechanism reliably prevents over-tightening - the guarantee for high repeatability and controlled tightening values.

| Code | No. | ■" | ■ | N·m | ⟷ mm ⟷ | | |
|---|---|---|---|---|---|---|---|
| 1196480 | **762-05** | 1/4 | 6.3 | 1-5 | 195 | 0,05 N·m | 235 |
| 1196510 | **762-10** | 1/4 | 6.3 | 2-10 | 195 | 0,1 N·m | 235 |



- On request, all torque wrenches can be factory pre-set.
- When ordering, please specify the N·m value.
- Pre-setting

2090

182

Quantities in packs may vary.

# TBN BREAKER

**Pre-set torque wrench with automatic snap actuation. Torque wrench offering maximum accuracy. Guaranteed tightening values without over-tightening.**

Drive: 16 mm spigot end or 9x12 mm rectangular cavity made of quality steel with pin-locking mechanism

Breaking: All TBN breaking torque wrenches break by 20° at the pivot point when the set torque is achieved. The models 760-00/-01 can also be set to a breaking angle of 90°.

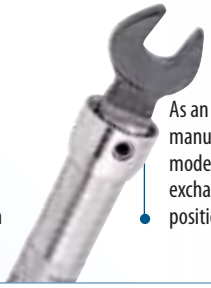
Rubber handgrip: Ergonomic and pleasant to hold in your hand. Prevents slipping.

Patented mechanism: Guarantees a long product lifespan with guaranteed accuracy values

Lightweight steel tube: Firm, solid, and free of corrosion

TBN Knicker
16
5 - 135 N·m

TBN Knicker
9x12
0,2 - 135 N·m



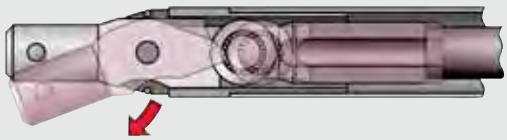
As an option, we also manufacture the TBN BREAKER models 760-00/-01 with exchangeable fittings directly positioned on the tool.

## TBN BREAKER

TBN BREAKER 760-00/-01 values are changed using the "Double Positive" adjustment system.

## TBN BREAKER
## Working principle

When the TBN breaking torque wrench is operated, the rear section of the driver unit presses the roller. When the pre-set torque value is achieved, the lever switches over and the front section of the drive unit breaks.



## 760

### BREAKING TORQUE WRENCH TBN 0.2-135 N·m / 1.8-1195 lbf·in

**Use:**
- Controlled screw tightening in the range 0.2 - 135 N·m
- Serial / production-line assembling
- Extremely long-term work

**Features:**
- Pre-set production torque wrench - without scale
- With 9x12 mm rectangular-cavity-end or 16 mm spigot-end
- For bi-directional tightening (the wrench only has to be turned by 180°!)
- Working accuracy: +/- 4 % tolerance of the set torque
- Acc. to DIN EN ISO 6789, traceable to national standards
- Breaking of the handgrip by 20° (90° also possible in the case of no. 760-00/-01) when the pre-set torque value is achieved makes over-tightening unlikely
- Automatic resetting to the starting position
- 8 models in the range 0.2 to 135 N·m
- Lightweight yet robust and corrosion-resistant construction design
- Very convenient non-slip rubber handgrip
- No. 760-00/-01: EPA (Electrostatic Protected Area) compliant
- The pre-setting can be made at the factory or by the user on suitable torque testers
- If ordering, please specify the N·m value - if a fixed factory pre-setting is desired (price on request)

**Scope of delivery:**
- TBN breaking torque wrench
- Adjusting tool for changing the pre-set torque value
- Test certificate acc. to DIN EN ISO 6789
- Delivered in sturdy cardboard packaging

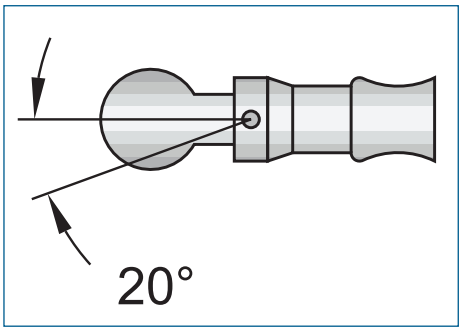
760-01

760-00

760-45

760-11

760-50




- TBN breaking torque wrench - the pre-set production torque wrench (without scale).
- With this torque wrench, accidental adjustment while working is ruled out.
- The state-of-the-art lightweight production wrenches "break" as soon as the set torque is achieved.
- Over-tightening is unlikely.
- The ideal torque tool for all jobs where for a longer time only one tightening torque value is required.
- For this reason, it is optimally suited for large series.
- However, the TBN breaking torque wrench is also ideal when varying tightening values are required.

| Code | No. | Ø | □mm | EPA | N·m | lbf·in | ↦mm↤ | |
|---|---|---|---|---|---|---|---|---|
| 7090690 | **760-00** | | 9 x 12 | x | 0,2-2,0 | 1,8-18 | 105 | 110 |
| 7090770 | **760-01** | | 9 x 12 | x | 1-10 | 9-89 | 105 | 130 |
| 1824686 | **760-30** | 16 | | | 5-25 | 44-221 | 265 | 405 |
| 1824694 | **760-35** | | 9 x 12 | | 5-25 | 44-221 | 265 | 405 |
| 1824708 | **760-40** | 16 | | | 10-65 | 89-575 | 302 | 745 |
| 1824716 | **760-45** | | 9 x 12 | | 10-65 | 89-575 | 302 | 745 |
| 1824724 | **760-50** | 16 | | | 20-135 | 177-1195 | 408 | 1027 |
| 7092630 | **760-11** | | 9 x 12 | | 20-135 | 177-1195 | 408 | 830 |

## 765

### ADJUSTABLE BREAKING WRENCH ATB with scale 5-25 N·m

- With 9x12 mm rectangular-cavity-end or 16 mm spigot-end
- With micrometer scale, which allows quick and precise adjustment of the desired value
- With adjuster lock that prevents accidental adjustment during use
- Working accuracy: +/- 4 % tolerance of the set torque
- Breaking of the handgrip by 20° when the pre-set torque value is achieved makes over-tightening unlikely
- Classified to DIN EN ISO 6789:2003 Type II Class A

| Code | No. | Ø | □mm | N·m | ↔mm↔ | |
|---|---|---|---|---|---|---|
| 2312816 | **765-25** | 16 | | 5-25 | 297 | 678 |
| 2312824 | **765-30** | | 9 x 12 | 5-25 | 303 | 700 |

# TORQUE WRENCH TYPE 88

## 8800

### TORQUE WRENCH TYPE 88 100-1500 N·m / 70-1000 lbf·ft

**Use:**

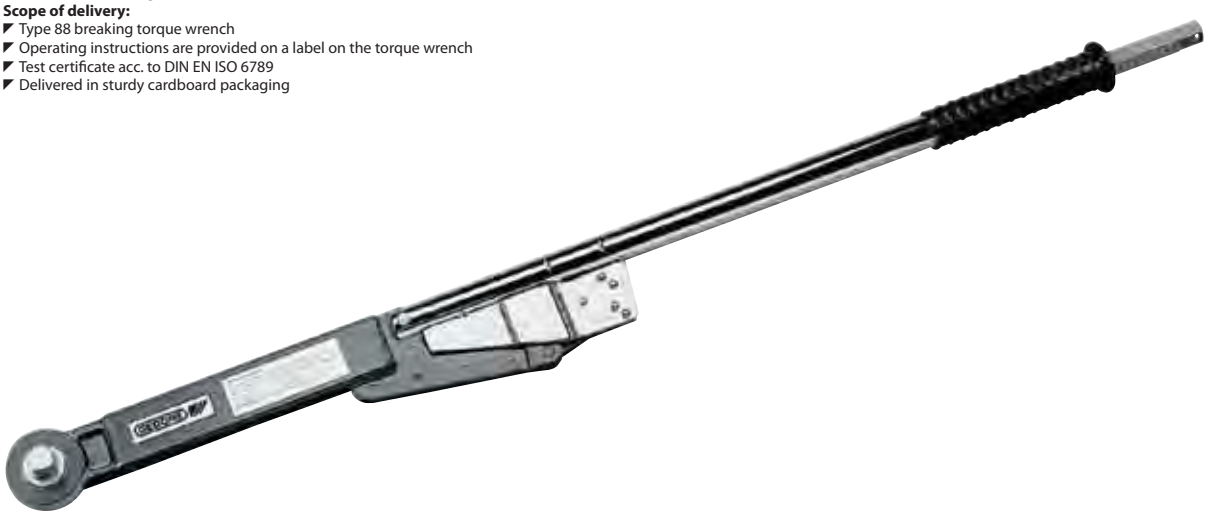
- Controlled screw tightening in the range 100 - 1500 N·m
- Industry and vehicle sector (lorries, industrial vehicles), machine maintenance

**Features:**

- Adjustable torque wrench - with scale
- 3/4"square drive with integrated ratchet-function or 22 mm spigot-end
- Suitable for bi-directional tightening on account of push-through square drive
- Working accuracy: +/- 4 % tolerance of the value setting
- Acc. to DIN EN ISO 6789, traceable to national standards
- Breaking mechanism as an actuation signal which can be seen and felt and makes over-tightening unlikely
- Dual scale in N·m and lbf·ft
- 5 models in the range 100 - 1500 N·m

**Scope of delivery:**

- Type 88 breaking torque wrench
- Operating instructions are provided on a label on the torque wrench
- Test certificate acc. to DIN EN ISO 6789
- Delivered in sturdy cardboard packaging

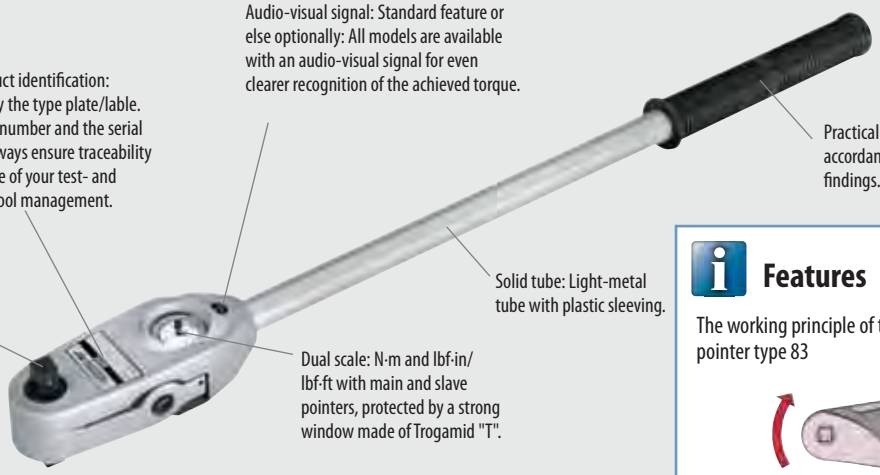


| Code | No. | Ø | ■" | ■ | N·m | lbf·ft | ↔mm↔ | ⌇⌇⌇ | |
|---|---|---|---|---|---|---|---|---|---|
| 7715700 | **8800-01** | | 3/4 | 20 | 100-500 | 70-350 | 915 | 10 N·m | 5.5 |
| 7715890 | **8800-02** | | 3/4 | 20 | 150-700 | 100-500 | 1090 | 10 N·m | 6.0 |
| 7716000 | **8800-03** | | 3/4 | 20 | 300-1000 | 200-750 | 1470 | 20 N·m | 7.3 |
| 7716190 | **8800-04** | | 3/4 | 20 | 700-1500 | 500-1000 | 1470 | 25 N·m | 10.5 |
| 7716270 | **8800-06** | 22 | | | 130-550 | 100-400 | 915 | 10 N·m | 4.9 |



Quantities in packs may vary.

## Torque wrenches with slave pointer
## Ideal for test, control and maintenance work



Audio-visual signal: Standard feature or else optionally: All models are available with an audio-visual signal for even clearer recognition of the achieved torque.

Clear product identification: Provided by the type plate/lable. The article number and the serial number always ensure traceability in the scope of your test- and checking-tool management.

Practical handgrip: Handgrip shaped in accordance with the most recent ergonomic findings. Resistant to grease and oil.

Integrated ratchet spindle: With double square drive enables high-speed bi-directional tightening.

Solid tube: Light-metal tube with plastic sleeving.

Dual scale: N·m and lbf·in/ lbf·ft with main and slave pointers, protected by a strong window made of Trogamid "T".

### Features

The working principle of the torque wrench with slave pointer type 83

### 8301 - 8305

**TORQUE WRENCH WITH SLAVE POINTER TYPE 83 0.8-2000 N·m / 7 lbf·in - 1500 lbf·ft**

**Use:**
- Controlled tightening and verification of tightening values
- For use in all areas of industrial manufacturing and in quality control
- Working ranges of 0.8 to 2000 N·m are covered

**Features:**
- Dial-indicating torque wrench with dual scale and multi-functional slave pointer
- 1/4", 3/8", 1/2", 3/4" or 1" double-square drive with ball locking device
- With integrated ratchet-function for controlled bi-directional tightening
- For controlled screw tightening and torque measurements
- Working accuracy: +/- 4 % tolerance of the indicated torque
- Acc. to DIN EN ISO 6789, traceable to national standards
- With dual scale in N·m and lbf·in or lbf·ft double-tinted clearly readable face
- Integrated overload protection - mechanical stop up to max. 25 % overload of the maximum value
- Housing made of lightweight, robust special aluminium construction - lacquered, silver-grey
- Black, non-slip rubber handgrips
- 10 models in the range 0.8 - 2000 N·m
- Models 8301-04 to 8301-40: EPA-conformant (Electrostatic Protected Area), for use in sensitive electrostatic applications
- Audio-visual signal is standard on models 8303-40 to 8305-20

**Scope of delivery:**
- Dial-measuring torque wrench type 83
- Battery for models having audio-visual signal
- Test certificate acc. to DIN EN ISO 6789
- Delivered in a sturdy black plastic box (no. 8301-04 to 8302-20), otherwise in sturdy cardboard packaging (no. 8303-40 to 8305-20)

| Code | No. | Type | ■" | ■ | EPA | N·m | lbf·in | lbf·ft | mm | Height | Signal | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7651390 | **8301-04** | | 1/4 | 6.3 | x | 0,8-4 | 7-35 | | 244 | 61 | optional | 500 |
| 7651470 | **8301-12** | | 1/4 | 6.3 | x | 2,4-12 | 21-105 | | 244 | 61 | optional | 500 |
| 7651550 | **8301-25** | | 3/8 | 10.0 | x | 5-25 | 44-220 | | 244 | 69 | optional | 500 |
| 7651630 | **8301-40** | | 3/8 | 10.0 | x | 8-40 | 72-360 | | 244 | 69 | optional | 500 |
| 7651710 | **8302-08** | | 1/2 | 12.5 | | 16-80 | | 12-60 | 435 | 86 | optional | 1350 |
| 7651980 | **8302-20** | | 1/2 | 12.5 | | 40-200 | | 30-160 | 515 | 86 | optional | 1400 |
| 7652280 | **8303-40** | | 3/4 | 20.0 | | 80-400 | | 60-300 | 710 | 111 | standard | 3150 |
| 7652010 | **8304-80** | | 3/4 | 20.0 | | 160-800 | | 120-600 | 1000 | 123 | standard | 4850 |
| 1196790 | **8305-14** | | 1 | 25.0 | | 280-1400 | | 200-1000 | 2040 | 138 | standard | 16690 |
| 1196804 | **8305-20** | | 1 | 25.0 | | 400-2000 | | 300-1500 | 2040 | 138 | standard | 16690 |

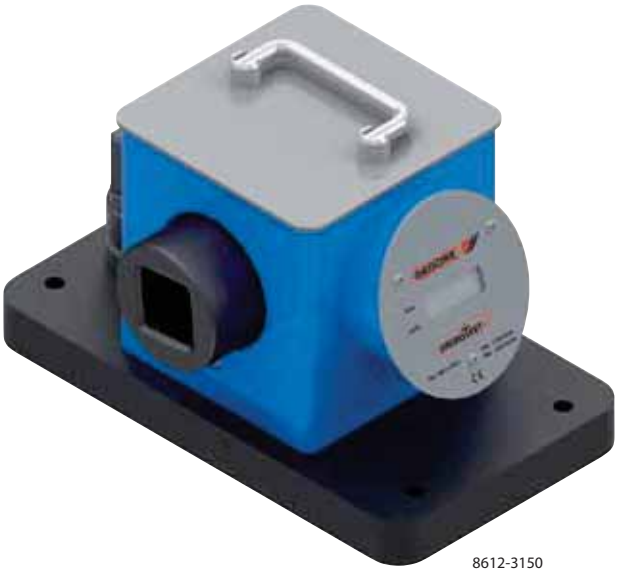
Quantities in packs may vary.

## 8612

### ELECTRONIC TORQUE TESTER DREMOTEST E 0.2-3150 N·m / 1.8 lbf·in - 2323 lbf·ft

- For verifying and setting clockwise torque wrenches and torque screwdrivers in the range from 0.2 - 3150 N·m
- Simple, electronic torque tester with integrated torque transducer (DMS)
- With fixed hexagon female drive 1/4", 10, 17, 36, 46 mm (model dependent)
- With 1/4", 3/8", 1/2", 3/4", 1" and 1.1/2" square drive adaptor or bit adaptor (model dependent)
- High measurement accuracy: +/- 1 % tolerance of reading, +/- 1 digit
- Break-Point-measurement (1st peak)
- Autoreset
- Can be switched from N·m to lbf·ft
- Serial interface RS232
- Optionally available: adaptor for cigarette lighter socket (12 V), no. 8612-390

8612-300


8612-3150

| Code | No. | | ○ | □ | N·m | lbf·in | lbf·ft | Resolution | Adaptor □ | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2288311 | **8612-012** | | 6.3 | | 0,2-12 | 1,8-106 | | 0,001 | 1/4", 3/8" | 3.0 |
| 1947699 | **8612-050** | | 10.0 | | 0,9-55 | | 0,7-40,6 | 0,01 | 1/4", 3/8" | 3.0 |
| 1856111 | **8612-300** | | 17.0 | | 9-320 | | 7-236 | 0,1 | 3/8", 1/2" | 3.0 |
| 1947702 | **8612-1000** | | 36.0 | | 90-1100 | | 66-811 | 1 | 1/2", 3/4" | 10.0 |
| 2529858 | **8612-3150** | | | 40 | 500-3150 | | 369-2323 | 1 | 1" | 26.0 |
| 1878719 | **8612-390** | | | | | | | | | 0.2 |

## 8612

### TORQUE CALIBRATION ANALYSER 0-25 N·m / 0-220 lbf·in

**Features:**

- Guaranteed measuring accuracy: +/- 2 % of read-out in the core range of 20 - 100 % of the scale
- Dual scale in cN·m and ozf·in or N·m and lbf·in
- Model no. 8612-700 suitable for clockwise and counter-clockwise calibration, all other models for clockwise tightening
- For testing and setting clockwise torque wrenches and screwdrivers in the lower torque range of 0 - 25 N·m

| Code | No. | Scale cN·m / N·m | Scale ozf·in / lbf·in | Adaptor | |
|---|---|---|---|---|---|
| 1824619 | **8612-700** | 0-10 cN·m | 0-14 ozf·in | | 1.0 |
| 1824627 | **8612-710** | 7-35 cN·m | 10-50 ozf·in | 1/4 | 1.7 |
| 1824635 | **8612-720** | 26-130 cN·m | 36-180 ozf·in | 1/4 | 1.7 |
| 1824643 | **8612-730** | 0,8-4,0 N·m | 7-36 lbf·in | 1/4 | 1.7 |
| 1824651 | **8612-740** | 2,4-12 N·m | 24-120 lbf·in | 1/4 3/8 | 1.7 |
| 1824678 | **8612-750** | 5-25 N·m | 44-220 lbf·in | 1/4 3/8 | 1.8 |



Quantities in packs may vary.

# Electronic Torsions Torque Tester E-tp

## The smart electronic torque tester series with the new torsion metrology 0.5-3150 N·m

The smart and modular system of the E-tp which is made possible by keeping separate the measuring and display instrument, convinces and offers the user an ideal measuring environment in any kind of operation. Depending on use, the display unit can easily be taken out and placed in another position, to enable the user to always have the display in optimal view.

**Your advantage:**
In all applications the operating display is always in the direct field of vision and near to the operator. With the new E-tp you can avoid complicated and impractical measuring operations caused by a bad visibility of the display from a distance which is often the case at standard torque testers with a fixed display.

The E-tp tester enables a precise and comfortable operation, verifying and calibrating of all clockwise and anti-clockwise torque wrenches in the range of 0.5-3150 N·m. The torsion metrology, located in the robust aluminium housing, allows the user a horizontal as well as a vertical torque operation complying with standards (DIN EN ISO 6789).

**Your advantage:**
With one E-tp torque tester only, bi-directional torque wrenches can be tested and calibrated in the horizontal or vertical plane.

Quantities in packs may vary.

# ACCESSORIES

## END FITTINGS 16 Z

### 8791

**OPEN END FITTING 16 Z**

- For accessing bolts in cramped and hard-to-reach locations, easy to change
- Forged
- Chrome-vanadium steel, chrome-plated
- With eject-pin for unlocking

| Code | No. | Ø | mm | mm | mm | Depth gauge | |
|---|---|---|---|---|---|---|---|
| 7774470 | **8791-07** | 16 | 7 | 5 | 20.5 | 32 | 80 |
| 7774550 | **8791-08** | 16 | 8 | 5 | 20.5 | 32 | 80 |
| 7774630 | **8791-09** | 16 | 9 | 5 | 20.5 | 32 | 80 |
| 7710070 | **8791-10** | 16 | 10 | 7 | 29.0 | 32 | 90 |
| 7710150 | **8791-11** | 16 | 11 | 7 | 29.0 | 32 | 90 |
| 7676890 | **8791-12** | 16 | 12 | 7 | 29.0 | 32 | 90 |
| 7710230 | **8791-13** | 16 | 13 | 8 | 34.5 | 32 | 120 |
| 7710310 | **8791-14** | 16 | 14 | 8 | 34.5 | 32 | 120 |
| 7710580 | **8791-15** | 16 | 15 | 8 | 34.5 | 32 | 120 |
| 7710660 | **8791-16** | 16 | 16 | 9 | 41.5 | 32 | 160 |
| 7710740 | **8791-17** | 16 | 17 | 9 | 41.5 | 32 | 160 |
| 7676970 | **8791-18** | 16 | 18 | 9 | 41.5 | 32 | 160 |
| 7710820 | **8791-19** | 16 | 19 | 10 | 45.0 | 32 | 180 |
| 7710900 | **8791-20** | 16 | 20 | 10 | 45.0 | 32 | 180 |
| 7677000 | **8791-21** | 16 | 21 | 10 | 45.0 | 32 | 180 |
| 7711040 | **8791-22** | 16 | 22 | 11 | 56.0 | 32 | 220 |
| 1977164 | **8791-23** | 16 | 23 | 11 | 56.0 | 32 | 220 |
| 7711120 | **8791-24** | 16 | 24 | 11 | 56.0 | 32 | 220 |
| 1552279 | **8791-25** | 16 | 25 | 11 | 56.0 | 32 | 220 |
| 1552287 | **8791-26** | 16 | 26 | 11 | 56.0 | 32 | 220 |
| 7711200 | **8791-27** | 16 | 27 | 12 | 60.5 | 32 | 260 |
| 1207008 | **8791-28** | 16 | 28 | 12 | 68.0 | 32 | 300 |
| 1552309 | **8791-29** | 16 | 29 | 12 | 68.0 | 32 | 300 |
| 7774710 | **8791-30** | 16 | 30 | 12 | 68.0 | 32 | 300 |
| 7774980 | **8791-32** | 16 | 32 | 12 | 68.0 | 32 | 300 |
| 1552317 | **8791-36** | 16 | 36 | 12 | 68.0 | 32 | 300 |

| Code | No. | Ø | AF | mm | mm | Depth gauge | |
|---|---|---|---|---|---|---|---|
| 1211421 | **8791-1/4AF** | 16 | 1/4 | 5 | 20.5 | 32 | 90 |
| 7720030 | **8791-5/16AF** | 16 | 5/16 | 5 | 20.5 | 32 | 80 |
| 1211447 | **8791-3/8AF** | 16 | 3/8 | 7 | 29.0 | 32 | 90 |
| 7720110 | **8791-7/16AF** | 16 | 7/16 | 7 | 29.0 | 32 | 90 |
| 7720380 | **8791-1/2AF** | 16 | 1/2 | 8 | 34.5 | 32 | 90 |
| 7720460 | **8791-9/16AF** | 16 | 9/16 | 8 | 34.5 | 32 | 120 |
| 7720540 | **8791-5/8AF** | 16 | 5/8 | 9 | 41.5 | 32 | 160 |
| 7720620 | **8791-11/16AF** | 16 | 11/16 | 9 | 41.5 | 32 | 160 |
| 7720700 | **8791-3/4AF** | 16 | 3/4 | 10 | 45.0 | 32 | 180 |
| 1211439 | **8791-13/16AF** | 16 | 13/16 | 10 | 45.0 | 32 | 90 |
| 7720890 | **8791-7/8AF** | 16 | 7/8 | 10 | 45.0 | 32 | 220 |
| 7720970 | **8791-15/16AF** | 16 | 15/16 | 11 | 56.0 | 32 | 220 |
| 7721000 | **8791-1AF** | 16 | 1 | 11 | 56.0 | 32 | 220 |
| 7721190 | **8791-1.1/16AF** | 16 | 1.1/16 | 12 | 60.5 | 32 | 260 |
| 7721270 | **8791-1.1/8AF** | 16 | 1.1/8 | 12 | 68.0 | 32 | 300 |
| 7776170 | **8791-1.3/16AF** | 16 | 1.3/16 | 12 | 68.0 | 32 | 300 |
| 7776250 | **8791-1.1/4AF** | 16 | 1.1/4 | 12 | 68.0 | 32 | 300 |
| 7776330 | **8791-1.5/16AF** | 16 | 1.5/16 | 12 | 68.0 | 32 | 300 |

### 8792

**RING END FITTING 16 Z**

- For accessing bolts in cramped and hard-to-reach locations, easy to change
- Forged
- Chrome-vanadium steel, chrome-plated
- With eject-pin for unlocking

| Code | No. | Ø | mm | mm | mm | Depth gauge | |
|---|---|---|---|---|---|---|---|
| 7775010 | **8792-07** | 16 | 7 | 8 | 15.0 | 32 | 90 |
| 7775280 | **8792-08** | 16 | 8 | 8 | 15.0 | 32 | 90 |
| 7775360 | **8792-09** | 16 | 9 | 8 | 15.0 | 32 | 90 |
| 7712600 | **8792-10** | 16 | 10 | 10 | 19.5 | 32 | 100 |
| 7712790 | **8792-11** | 16 | 11 | 10 | 19.5 | 32 | 100 |
| 7677190 | **8792-12** | 16 | 12 | 10 | 19.5 | 32 | 100 |
| 7712870 | **8792-13** | 16 | 13 | 12 | 23.5 | 32 | 140 |
| 7712950 | **8792-14** | 16 | 14 | 12 | 23.5 | 32 | 140 |
| 7713090 | **8792-15** | 16 | 15 | 12 | 23.5 | 32 | 140 |
| 7713170 | **8792-16** | 16 | 16 | 13 | 28.5 | 32 | 180 |
| 7713250 | **8792-17** | 16 | 17 | 13 | 28.5 | 32 | 180 |
| 7677270 | **8792-18** | 16 | 18 | 13 | 28.5 | 32 | 180 |
| 7713330 | **8792-19** | 16 | 19 | 14 | 31.5 | 32 | 210 |
| 7713410 | **8792-20** | 16 | 20 | 14 | 31.5 | 32 | 210 |
| 7677350 | **8792-21** | 16 | 21 | 14 | 31.5 | 32 | 210 |
| 7713680 | **8792-22** | 16 | 22 | 15 | 39.5 | 32 | 260 |
| 1211471 | **8792-23** | 16 | 23 | 15 | 39.5 | 32 | 270 |
| 7713760 | **8792-24** | 16 | 24 | 15 | 39.5 | 32 | 260 |
| 7713840 | **8792-27** | 16 | 27 | 16 | 41.5 | 32 | 300 |

| Code | No. | Ø | AF | mm | mm | Depth gauge | |
|---|---|---|---|---|---|---|---|
| 1211455 | **8792-1/4AF** | 16 | 1/4 | 8 | 15.0 | 32 | 100 |
| 7721350 | **8792-5/16AF** | 16 | 5/16 | 8 | 15.0 | 32 | 90 |
| 1211498 | **8792-3/8AF** | 16 | 3/8 | 10 | 19.5 | 32 | 100 |
| 7721430 | **8792-7/16AF** | 16 | 7/16 | 10 | 19.5 | 32 | 100 |
| 7721510 | **8792-1/2AF** | 16 | 1/2 | 12 | 23.5 | 32 | 100 |
| 7721780 | **8792-9/16AF** | 16 | 9/16 | 12 | 23.5 | 32 | 140 |
| 7721860 | **8792-5/8AF** | 16 | 5/8 | 13 | 28.5 | 32 | 140 |
| 7721940 | **8792-11/16AF** | 16 | 11/16 | 13 | 28.5 | 32 | 180 |
| 7722080 | **8792-3/4AF** | 16 | 3/4 | 14 | 31.5 | 32 | 210 |
| 1211463 | **8792-13/16AF** | 16 | 13/16 | 14 | 31.5 | 32 | 100 |
| 7722160 | **8792-7/8AF** | 16 | 7/8 | 15 | 39.5 | 32 | 260 |
| 7722240 | **8792-15/16AF** | 16 | 15/16 | 15 | 39.5 | 32 | 260 |
| 7722320 | **8792-1AF** | 16 | 1 | 15 | 39.5 | 32 | 300 |
| 7722400 | **8792-1.1/16AF** | 16 | 1.1/16 | 16 | 41.5 | 32 | 300 |

**DREMASTER Z • DREMOMETER Z**

278
270

Quantities in packs may vary.

## 8797

### FLARED END FITTING 16 Z

- For accessing bolts in cramped and hard-to-reach locations, easy to change
- Forged
- Chrome-vanadium steel, chrome-plated
- With eject-pin for unlocking

| Code | No. | Ø | mm | mm | mm | max. N·m | Depth gauge | Opening width | |
|---|---|---|---|---|---|---|---|---|---|
| 1211587 | **8797-07** | 16 | 7 | 8.0 | 15.0 | 7.0 | 32 | 5.5 | 90 |
| 1211595 | **8797-08** | 16 | 8 | 8.0 | 15.0 | 6.5 | 32 | 6.0 | 90 |
| 1211609 | **8797-09** | 16 | 9 | 8.0 | 15.0 | 5.5 | 32 | 6.5 | 90 |
| 1211625 | **8797-10** | 16 | 10 | 10.0 | 19.5 | 26.0 | 32 | 7.0 | 100 |
| 1211633 | **8797-11** | 16 | 11 | 10.0 | 19.5 | 19.0 | 32 | 8.5 | 100 |
| 1211641 | **8797-12** | 16 | 12 | 10.0 | 19.5 | 13.0 | 32 | 9.0 | 120 |
| 1211668 | **8797-13** | 16 | 13 | 12.0 | 23.5 | 34.0 | 32 | 10.0 | 140 |
| 7664290 | **8797-14** | 16 | 14 | 12.0 | 23.5 | 24.0 | 32 | 11.2 | 140 |
| 1211684 | **8797-15** | 16 | 15 | 12.0 | 23.5 | 18.0 | 32 | 12.0 | 140 |
| 1211692 | **8797-16** | 16 | 16 | 13.0 | 28.5 | 66.0 | 32 | 13.0 | 180 |
| 1211706 | **8797-17** | 16 | 17 | 13.0 | 28.5 | 56.0 | 32 | 14.0 | 180 |
| 1211714 | **8797-18** | 16 | 18 | 13.0 | 28.5 | 45.0 | 32 | 14.5 | 200 |
| 1211722 | **8797-19** | 16 | 19 | 14.0 | 31.5 | 80.0 | 32 | 15.0 | 210 |
| 1211731 | **8797-20** | 16 | 20 | 14.0 | 31.5 | 60.0 | 32 | 16.0 | 210 |
| 1211749 | **8797-21** | 16 | 21 | 14.0 | 31.5 | 43.0 | 32 | 16.5 | 210 |
| 1211757 | **8797-22** | 16 | 22 | 15.0 | 39.5 | 172.0 | 32 | 17.0 | 260 |
| 1211765 | **8797-23** | 16 | 23 | 15.0 | 39.5 | 153.0 | 32 | 17.5 | 260 |
| 1211773 | **8797-24** | 16 | 24 | 15.0 | 39.5 | 118.0 | 32 | 18.0 | 260 |
| 1211781 | **8797-27** | 16 | 27 | 16.0 | 41.5 | 76.0 | 32 | 20.0 | 300 |

| Code | No. | Ø | AF | mm | mm | max. N·m | Depth gauge | |
|---|---|---|---|---|---|---|---|---|
| 1326503 | **8797-1/4AF** | 16 | 1/4 | 8.0 | 15.0 | 7.0 | 32 | 90 |
| 7709300 | **8797-5/16AF** | 16 | 5/16 | 8.0 | 15.0 | 6.5 | 32 | 90 |
| 1211803 | **8797-3/8AF** | 16 | 3/8 | 10.0 | 19.5 | 26.0 | 32 | 140 |
| 7715620 | **8797-7/16AF** | 16 | 7/16 | 10.0 | 19.5 | 18.0 | 32 | 100 |
| 7715970 | **8797-1/2AF** | 16 | 1/2 | 12.0 | 23.5 | 37.0 | 32 | 140 |
| 7716350 | **8797-9/16AF** | 16 | 9/16 | 12.0 | 23.5 | 22.0 | 32 | 140 |
| 7716430 | **8797-5/8AF** | 16 | 5/8 | 13.0 | 28.5 | 68.0 | 32 | 180 |
| 7719610 | **8797-11/16AF** | 16 | 11/16 | 13.0 | 28.5 | 51.0 | 32 | 180 |
| 7719880 | **8797-3/4AF** | 16 | 3/4 | 14.0 | 31.5 | 77.0 | 32 | 210 |
| 1211676 | **8797-13/16AF** | 16 | 13/16 | 14.0 | 31.5 | 58.0 | 32 | 370 |
| 7725180 | **8797-7/8AF** | 16 | 7/8 | 15.0 | 39.5 | 169.0 | 32 | 210 |
| 7719960 | **8797-15/16AF** | 16 | 15/16 | 15.0 | 39.5 | 138.0 | 32 | 210 |
| 7725260 | **8797-1AF** | 16 | 1 | 15.0 | 39.5 | 104.0 | 32 | 260 |
| 7725340 | **8797-1.1/16AF** | 16 | 1.1/16 | 16.0 | 41.5 | 77.0 | 32 | 300 |

## 8755

### END FITTING TORX® 16 Z

- For accessing bolts in cramped and hard-to-reach locations, easy to change
- For recessed TORX® head screws
- Forged
- Chrome-vanadium steel, chrome-plated
- With eject-pin for unlocking
- TORX® = registered trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Ø | | Depth gauge | |
|---|---|---|---|---|---|
| 7672040 | **8755-20** | 16 | 20 | 32 | 100 |
| 7672120 | **8755-25** | 16 | 25 | 32 | 100 |
| 7672200 | **8755-27** | 16 | 27 | 32 | 140 |
| 7672390 | **8755-30** | 16 | 30 | 32 | 140 |
| 7672470 | **8755-40** | 16 | 40 | 36 | 140 |
| 7672550 | **8755-45** | 16 | 45 | 36 | 180 |

## 8756

### END FITTING INBUS® 16 Z

- For accessing bolts in cramped and hard-to-reach locations, easy to change
- Forged
- Chrome-vanadium steel, chrome-plated
- With eject-pin for unlocking
- INBUS® = registered trademark of Acument GmbH & Co. OHG, 56567 Neuwied, Germany

| Code | No. | Ø | mm | Depth gauge | |
|---|---|---|---|---|---|
| 7773740 | **8756-03** | 16 | 3 | 32 | 100 |
| 7773820 | **8756-04** | 16 | 4 | 32 | 100 |
| 7773900 | **8756-05** | 16 | 5 | 32 | 100 |
| 7774040 | **8756-06** | 16 | 6 | 32 | 100 |
| 7774120 | **8756-08** | 16 | 8 | 36 | 110 |

## 8754

### RATCHET HEAD 16 Z

- For accessing bolts in cramped and hard-to-reach locations, easy to change
- Forged
- Chrome-vanadium steel, matt chrome-plated
- With eject pin for unlocking
- Max. continuous load of coupler according to DIN EN ISO 6789:2003 and/or maximum support load
- 8754-01 3/8" = 135 N·m
- 8754-02 1/2" = 340 N·m

8754-01

8754-02

| Code | No. | Ø | Type | ■" | ■ | Depth gauge | |
|---|---|---|---|---|---|---|---|
| 7711980 | **8754-01** | 16 | | 3/8 | 10.0 | 32 | 170 |
| 7712010 | **8754-02** | 16 | | 1/2 | 12.5 | 32 | 270 |

## 8790 - 8793

### FIXED SQUARE HEAD 16 Z

- For accessing bolts in cramped and hard-to-reach locations, easy to change
- Forged
- Chrome-vanadium steel, matt chrome-plated
- With eject pin for unlocking
- Max. continuous load of coupler according to DIN EN ISO 6789:2003 and/or maximum support load
- 8790-00 3/8" = 135 N·m
- 8793-00 1/2" = 340 N·m

| Code | No. | Ø | Type | ■" | ■ | Depth gauge | |
|---|---|---|---|---|---|---|---|
| 7709490 | **8790-00** | 16 | | 3/8 | 10.0 | 32 | 350 |
| 7709570 | **8793-00** | 16 | | 1/2 | 12.5 | 32 | 380 |

Quantities in packs may vary.

# END FITTINGS 22 Z

## 8795

### OPEN END FITTING 22 Z

- For accessing bolts in cramped and hard-to-reach locations, easy to change
- Forged
- Chrome-vanadium steel, chrome-plated
- With eject-pin for unlocking

| Code | No. | Ø | mm | mm | mm | Depth gauge | |
|---|---|---|---|---|---|---|---|
| 7707010 | **8795-22** | 22 | 22 | 11 | 52.0 | 56 | 330 |
| 7707280 | **8795-24** | 22 | 24 | 11 | 52.0 | 56 | 320 |
| 7707360 | **8795-27** | 22 | 27 | 12 | 64.0 | 56 | 380 |
| 7707440 | **8795-30** | 22 | 30 | 12 | 64.0 | 56 | 370 |
| 7707520 | **8795-32** | 22 | 32 | 12 | 75.5 | 56 | 450 |
| 7677430 | **8795-34** | 22 | 34 | 12 | 75.5 | 56 | 430 |
| 7707600 | **8795-36** | 22 | 36 | 12 | 75.5 | 56 | 430 |
| 7707790 | **8795-41** | 22 | 41 | 12 | 94.0 | 56 | 580 |
| 7707870 | **8795-46** | 22 | 46 | 12 | 94.0 | 56 | 530 |

| Code | No. | Ø | AF | mm | mm | Depth gauge | |
|---|---|---|---|---|---|---|---|
| 1532650 | **8795-1.7/16AF** | 22 | 1.7/16 | 12.0 | 75.5 | 56 | 425 |
| 1532669 | **8795-1.1/2AF** | 22 | 1.1/2 | 12.0 | 75.5 | 56 | 429 |

## 8796

### RING END FITTING 22 Z

- For accessing bolts in cramped and hard-to-reach locations, easy to change
- Forged
- Chrome-vanadium steel, chrome-plated
- With eject-pin for unlocking

| Code | No. | Ø | mm | mm | mm | Depth gauge | |
|---|---|---|---|---|---|---|---|
| 7707950 | **8796-22** | 22 | 22 | 15 | 38.0 | 56 | 350 |
| 7708090 | **8796-24** | 22 | 24 | 15 | 38.0 | 56 | 330 |
| 7708170 | **8796-27** | 22 | 27 | 17 | 46.5 | 56 | 370 |
| 7708250 | **8796-30** | 22 | 30 | 17 | 46.5 | 56 | 350 |
| 7708330 | **8796-32** | 22 | 32 | 20 | 55.0 | 56 | 420 |
| 7677510 | **8796-34** | 22 | 34 | 20 | 55.0 | 56 | 420 |
| 7708410 | **8796-36** | 22 | 36 | 20 | 55.0 | 56 | 390 |
| 7708680 | **8796-41** | 22 | 41 | 22 | 72.0 | 56 | 560 |
| 7708760 | **8796-46** | 22 | 46 | 22 | 72.0 | 56 | 520 |

| Code | No. | Ø | AF | mm | mm | Depth gauge | |
|---|---|---|---|---|---|---|---|
| 1242962 | **8796-1AF** | 22 | 1 | 17 | 46.5 | 56 | 400 |
| 1532677 | **8796-1.1/8AF** | 22 | 1.1/8 | 17 | 46.5 | 56 | 400 |
| 1532685 | **8796-1.3/16AF** | 22 | 1.3/16 | 17 | 46.5 | 56 | 470 |
| 1532693 | **8796-1.1/4AF** | 22 | 1.1/4 | 20 | 55.0 | 56 | 550 |
| 1532707 | **8796-1.5/16AF** | 22 | 1.5/16 | 20 | 55.0 | 56 | 460 |
| 1532715 | **8796-1.7/16AF** | 22 | 1.7/16 | 20 | 55.0 | 56 | 430 |

## 8797

### FLARED END FITTING 22 Z

- For accessing bolts in cramped and hard-to-reach locations, easy to change
- Forged
- Chrome-vanadium steel, chrome-plated
- With eject-pin for unlocking

| Code | No. | Ø | AF | mm | mm | max. N·m | Depth gauge | Opening width | |
|---|---|---|---|---|---|---|---|---|---|
| 1532723 | **8797-1.1/8AF** | 22 | 1.1/8 | 17 | 46.5 | 166 | 56 | 22 | 370 |
| 1532731 | **8797-1.3/16AF** | 22 | 1.3/16 | 17 | 46.5 | 145 | 56 | 22 | 360 |
| 1532758 | **8797-1.1/4AF** | 22 | 1.1/4 | 20 | 55.0 | 396 | 56 | 22 | 440 |
| 1532766 | **8797-1.5/16AF** | 22 | 1.5/16 | 20 | 55.0 | 367 | 56 | 25 | 430 |
| 1532774 | **8797-1.7/16AF** | 22 | 1.7/16 | 20 | 55.0 | 271 | 56 | 26 | 390 |

## 8794

### FIXED SQUARE HEAD / RATCHET HEAD 22 Z

- For accessing bolts in cramped and hard-to-reach locations, easy to change
- Forged
- Chrome-vanadium steel, matt chrome-plated
- With eject-pin for unlocking
- Max. continuous load of coupler according to DIN EN ISO 6789:2003 and/or maximum support load
- 8794-00 3/4" = 850 N·m
- 8794-03 3/4" = 850 N·m

8794-00

8794-03

| Code | No. | Ø | Type | " | | Depth gauge | |
|---|---|---|---|---|---|---|---|
| 7708840 | **8794-00** | 22 | | 3/4 | 20 | 56 | 610 |
| 1427318 | **8794-03** | 22 | | 3/4 | 20 | 56 | 950 |

Quantities in packs may vary.

# END FITTINGS 28 Z

## 8799

### RING END FITTING 28 Z

- For accessing bolts in cramped and hard-to-reach locations, easy to change
- Chrome-vanadium steel, chrome-plated
- With catch retention

| Code | No. | Ø | mm | mm | mm | Depth gauge | |
|---|---|---|---|---|---|---|---|
| 1760963 | **8799-27** | 28 | 27 | 16.0 | 50.0 | 75 | 1500 |
| 1760971 | **8799-30** | 28 | 30 | 17.0 | 50.0 | 75 | 1500 |
| 1760874 | **8799-32** | 28 | 32 | 17.0 | 54.0 | 75 | 1550 |
| 1760858 | **8799-34** | 28 | 34 | 17.0 | 57.0 | 75 | 1550 |
| 1565494 | **8799-36** | 28 | 36 | 19.5 | 60.0 | 75 | 1600 |
| 1565508 | **8799-41** | 28 | 41 | 20.5 | 66.0 | 75 | 1800 |
| 1565516 | **8799-46** | 28 | 46 | 22.5 | 75.0 | 75 | 2100 |
| 1565524 | **8799-50** | 28 | 50 | 23.5 | 80.0 | 75 | 2200 |
| 1565532 | **8799-55** | 28 | 55 | 25.0 | 87.5 | 75 | 2400 |
| 1565540 | **8799-60** | 28 | 60 | 26.0 | 93.5 | 75 | 2500 |
| 1565559 | **8799-65** | 28 | 65 | 29.0 | 101.0 | 75 | 2900 |
| 1565567 | **8799-70** | 28 | 70 | 32.5 | 109.5 | 75 | 2000 |
| 1565575 | **8799-75** | 28 | 75 | 34.0 | 116.5 | 100 | 4500 |
| 1565583 | **8799-80** | 28 | 80 | 35.0 | 123.0 | 100 | 4800 |
| 1565591 | **8799-85** | 28 | 85 | 37.0 | 131.0 | 100 | 5200 |
| 1565605 | **8799-90** | 28 | 90 | 41.5 | 152.0 | 100 | 6700 |
| 1565621 | **8799-95** | 28 | 95 | 41.5 | 152.0 | 100 | 6400 |
| 1565648 | **8799-100** | 28 | 100 | 41.5 | 152.0 | 100 | 6200 |

## 8798

### OPEN END FITTING 28 Z

- For accessing bolts in cramped and hard-to-reach locations, easy to change
- Chrome-vanadium steel, chrome-plated
- With catch retention

| Code | No. | Ø | mm | mm | mm | Depth gauge | |
|---|---|---|---|---|---|---|---|
| 1760831 | **8798-32** | 28 | 32 | 17.0 | 68.8 | 75 | 1500 |
| 1760823 | **8798-34** | 28 | 34 | 17.0 | 73.1 | 75 | 1800 |
| 1565346 | **8798-36** | 28 | 36 | 18.0 | 77.5 | 75 | 1900 |
| 1565354 | **8798-41** | 28 | 41 | 19.5 | 89.0 | 75 | 1900 |
| 1565362 | **8798-46** | 28 | 46 | 20.0 | 99.0 | 75 | 1900 |
| 1565370 | **8798-50** | 28 | 50 | 21.5 | 108.0 | 75 | 1900 |
| 1565389 | **8798-55** | 28 | 55 | 24.5 | 118.5 | 75 | 2100 |
| 1565397 | **8798-60** | 28 | 60 | 24.5 | 129.5 | 75 | 2100 |
| 1565400 | **8798-65** | 28 | 65 | 28.0 | 140.5 | 75 | 2400 |
| 1565419 | **8798-70** | 28 | 70 | 30.0 | 151.0 | 75 | 2900 |
| 1565427 | **8798-75** | 28 | 75 | 31.5 | 163.0 | 100 | 4000 |
| 1565435 | **8798-80** | 28 | 80 | 34.5 | 174.0 | 100 | 4400 |
| 1565443 | **8798-85** | 28 | 85 | 34.5 | 174.0 | 100 | 4300 |
| 1565451 | **8798-90** | 28 | 90 | 39.0 | 195.0 | 100 | 5400 |
| 1565478 | **8798-95** | 28 | 95 | 39.0 | 195.0 | 100 | 5100 |
| 1565486 | **8798-100** | 28 | 100 | 47.0 | 227.0 | 100 | 7600 |

## 8794

### RATCHET HEAD 28 Z

- For accessing bolts in cramped and hard-to-reach locations, easy to change
- Chrome-vanadium steel, matt chrome-plated
- With catch retention
- Max. continuous load of coupler according to DIN EN ISO 6789:2003 and/or maximum support load
- 8794-05 3/4" = 1000 N·m

| Code | No. | Ø | Type | ■" | ■ | Depth gauge | |
|---|---|---|---|---|---|---|---|
| 1566032 | **8794-05** | 28 | ● | 3/4 | 20 | 75 | 1800 |

DREMOMETER Z 270

32 • D 32 225 226

Quantities in packs may vary.

# END FITTINGS 9X12 SE

## 7112

### RECTANGULAR OPEN END FITTING 9x12

- For accessing bolts in cramped and hard-to-reach locations, easy to change
- Forged
- Chrome-vanadium steel, chrome-plated
- With eject-pin for unlocking

9x12

| Code | No. | □ mm | ⬡ mm | mm | ⌀ mm | Depth gauge | g |
|---|---|---|---|---|---|---|---|
| 7688390 | **7112-07** | 9 x 12 | 7 | 5.0 | 22.0 | 17.5 | 35 |
| 7688550 | **7112-08** | 9 x 12 | 8 | 5.0 | 22.0 | 17.5 | 35 |
| 7679050 | **7112-09** | 9 x 12 | 9 | 5.5 | 26.0 | 17.5 | 35 |
| 7688630 | **7112-10** | 9 x 12 | 10 | 5.5 | 26.0 | 17.5 | 40 |
| 7688980 | **7112-11** | 9 x 12 | 11 | 5.5 | 26.0 | 17.5 | 30 |
| 7679560 | **7112-12** | 9 x 12 | 12 | 7.0 | 30.0 | 17.5 | 35 |
| 7689010 | **7112-13** | 9 x 12 | 13 | 7.0 | 30.0 | 17.5 | 35 |
| 7689360 | **7112-14** | 9 x 12 | 14 | 8.0 | 35.0 | 17.5 | 40 |
| 7689440 | **7112-15** | 9 x 12 | 15 | 8.0 | 35.0 | 17.5 | 40 |
| 7679990 | **7112-16** | 9 x 12 | 16 | 8.5 | 38.0 | 20.0 | 45 |
| 7689600 | **7112-17** | 9 x 12 | 17 | 8.5 | 38.0 | 20.0 | 50 |
| 7684560 | **7112-18** | 9 x 12 | 18 | 9.0 | 42.0 | 20.0 | 60 |
| 7689790 | **7112-19** | 9 x 12 | 19 | 9.0 | 42.0 | 20.0 | 60 |

## 7212

### RECTANGULAR RING END FITTING 9x12

- For accessing bolts in cramped and hard-to-reach locations, easy to change
- Forged
- Chrome-vanadium steel, chrome-plated
- With eject-pin for unlocking

9x12

| Code | No. | □ mm | ⬡ mm | mm | ⌀ mm | Depth gauge | g |
|---|---|---|---|---|---|---|---|
| 7691340 | **7212-07** | 9 x 12 | 7 | 8.0 | 13.0 | 17.5 | 30 |
| 7691420 | **7212-08** | 9 x 12 | 8 | 8.0 | 14.2 | 17.5 | 30 |
| 7691690 | **7212-10** | 9 x 12 | 10 | 9.0 | 17.2 | 17.5 | 30 |
| 7691770 | **7212-11** | 9 x 12 | 11 | 9.0 | 18.5 | 17.5 | 30 |
| 7677940 | **7212-12** | 9 x 12 | 12 | 12.0 | 20.0 | 17.5 | 35 |
| 7691930 | **7212-13** | 9 x 12 | 13 | 12.0 | 21.5 | 17.5 | 35 |
| 7692230 | **7212-14** | 9 x 12 | 14 | 12.0 | 23.0 | 17.5 | 40 |
| 7692580 | **7212-15** | 9 x 12 | 15 | 12.0 | 24.2 | 17.5 | 40 |
| 7678080 | **7212-16** | 9 x 12 | 16 | 13.0 | 25.7 | 17.5 | 40 |
| 7692740 | **7212-17** | 9 x 12 | 17 | 13.0 | 27.0 | 17.5 | 40 |
| 7678160 | **7212-18** | 9 x 12 | 18 | 13.0 | 28.5 | 17.5 | 40 |
| 7692820 | **7212-19** | 9 x 12 | 19 | 13.0 | 30.3 | 17.5 | 40 |
| 7678240 | **7212-21** | 9 x 12 | 21 | 15.0 | 33.0 | 17.5 | 50 |
| 7693040 | **7212-22** | 9 x 12 | 22 | 15.0 | 34.5 | 17.5 | 50 |

## 7312

### RECTANGULAR FLARED END FITTING 9x12

- For accessing bolts in cramped and hard-to-reach locations, easy to change
- Forged
- Chrome-vanadium steel, chrome-plated
- With eject-pin for unlocking

9x12

| Code | No. | □ mm | ⬡ mm | mm | ⌀ mm | Depth gauge | Opening width | g |
|---|---|---|---|---|---|---|---|---|
| 7685290 | **7312-10** | 9 x 12 | 10 | 12.0 | 22.0 | 17.5 | 7.0 | 40 |
| 7685370 | **7312-11** | 9 x 12 | 11 | 12.0 | 22.5 | 17.5 | 8.5 | 40 |
| 7699590 | **7312-12** | 9 x 12 | 12 | 12.0 | 23.7 | 17.5 | 9.0 | 40 |
| 7679210 | **7312-13** | 9 x 12 | 13 | 12.0 | 25.2 | 17.5 | 10.0 | 40 |
| 7679480 | **7312-14** | 9 x 12 | 14 | 12.0 | 27.0 | 17.5 | 11.2 | 50 |
| 7685880 | **7312-17** | 9 x 12 | 17 | 13.0 | 31.5 | 17.5 | 14.0 | 65 |
| 7679640 | **7312-18** | 9 x 12 | 18 | 15.0 | 33.0 | 17.5 | 14.5 | 65 |
| 7686260 | **7312-19** | 9 x 12 | 19 | 15.0 | 34.5 | 17.5 | 15.0 | 65 |
| 7679720 | **7312-22** | 9 x 12 | 22 | 15.0 | 39.0 | 20.0 | 17.0 | 65 |

## 7412

### RECTANGULAR REVERSIBLE RATCHET HEAD 9x12

- For accessing bolts in cramped and hard-to-reach locations, easy to change
- Forged
- Chrome-vanadium steel, matt chrome-plated
- With eject-pin for unlocking
- Fine-toothed
- Return angle 5°
- Max. continuous load of coupler according to DIN EN ISO 6789:2003 and/or maximum support load
- 7412-00 1/4" = 30 N·m
- 7412-01 3/8" = 135 N·m
- 7412-02 1/2" = 150 N·m

9x12

1/4"

3/8"

1/2"

| Code | No. | □ mm | ∠ ° | ■ " | ■ | mm | ⌀ mm | Depth gauge | g |
|---|---|---|---|---|---|---|---|---|---|
| 7672710 | **7412-00** | 9 x 12 | 5 | 1/4 | 6.3 | 14.0 | 22 | 17.5 | 60 |
| 7686500 | **7412-01** | 9 x 12 | 5 | 3/8 | 10.0 | 24.0 | 33 | 17.5 | 140 |
| 7687230 | **7412-02** | 9 x 12 | 5 | 1/2 | 12.5 | 28.3 | 33 | 17.5 | 150 |

## 7612

### RECTANGULAR FIXED SQUARE HEAD 9x12

- For accessing bolts in cramped and hard-to-reach locations, easy to change
- Forged
- Chrome-vanadium steel, matt chrome-plated
- With eject-pin for unlocking
- Max. continuous load of coupler according to DIN EN ISO 6789:2003 and/or maximum support load
- 7612-00 1/4" = 30 N·m
- 7612-01 3/8" = 135 N·m
- 7612-02 1/2" = 150 N·m

9x12

1/4"

3/8"

1/2"

| Code | No. | □ mm | ■ " | ■ | mm | ⌀ mm | Depth gauge | g |
|---|---|---|---|---|---|---|---|---|
| 7672630 | **7612-00** | 9 x 12 | 1/4 | 6.3 | 14.0 | 20.0 | 17.5 | 70 |
| 7679800 | **7612-01** | 9 x 12 | 3/8 | 10.0 | 14.0 | 22.0 | 17.5 | 70 |
| 7687900 | **7612-02** | 9 x 12 | 1/2 | 12.5 | 14.0 | 22.0 | 17.5 | 80 |

## 7812

### RECTANGULAR BIT HOLDER 9x12

- For accessing bolts in cramped and hard-to-reach locations, easy to change
- Forged
- Chrome-vanadium steel, chrome-plated
- With eject-pin for unlocking

9x12

5/16"

1/4"

| Code | No. | □ mm | ⬢ " | ⬢ | mm | ⌀ mm | Depth gauge | g |
|---|---|---|---|---|---|---|---|---|
| 7697970 | **7812-00** | 9 x 12 | 5/16 | 8.0 | 12.5 | 16.0 | 17.5 | 40 |
| 2101645 | **7812-10** | 9 x 12 | 1/4 | 6.3 | | | | 40 |

## 7912

### RECTANGULAR WELD-ON FITTING 9x12

- For accessing bolts in cramped and hard-to-reach locations, easy to change
- Bear the depth gauges in mind

9x12

| Code | No. | □ mm | ↔ mm ↔ | mm | ⌀ mm | Depth gauge | g |
|---|---|---|---|---|---|---|---|
| 7698190 | **7912-00** | 9 x 12 | 14 | 14 | 8 | 8 | 30 |



Quantities in packs may vary.

# END FITTINGS 14X18 SE

## 7118

### RECTANGULAR OPEN END FITTING 14x18

- For accessing bolts in cramped and hard-to-reach locations, easy to change
- Forged
- Chrome-vanadium steel, chrome-plated
- With eject-pin for unlocking

14x18

| Code | No. | □ mm | ○ mm | mm | ○ mm | Depth gauge | |
|---|---|---|---|---|---|---|---|
| 7689870 | **7118-13** | 14 x 18 | 13 | 7.0 | 30.0 | 25.0 | 120 |
| 7690020 | **7118-14** | 14 x 18 | 14 | 7.0 | 32.0 | 25.0 | 120 |
| 7690100 | **7118-15** | 14 x 18 | 15 | 7.0 | 34.0 | 25.0 | 120 |
| 7685610 | **7118-16** | 14 x 18 | 16 | 9.0 | 35.5 | 25.0 | 125 |
| 7690370 | **7118-17** | 14 x 18 | 17 | 9.0 | 37.0 | 25.0 | 130 |
| 7686180 | **7118-18** | 14 x 18 | 18 | 9.0 | 39.0 | 25.0 | 130 |
| 7690450 | **7118-19** | 14 x 18 | 19 | 9.0 | 41.0 | 25.0 | 130 |
| 7686420 | **7118-21** | 14 x 18 | 21 | 11.0 | 45.0 | 25.0 | 155 |
| 7690610 | **7118-22** | 14 x 18 | 22 | 11.0 | 47.0 | 25.0 | 150 |
| 7690880 | **7118-24** | 14 x 18 | 24 | 11.0 | 51.0 | 25.0 | 170 |
| 7690960 | **7118-27** | 14 x 18 | 27 | 13.0 | 58.5 | 32.5 | 185 |
| 2212285 | **7118-29** | 14 x 18 | 29 | 13.0 | 63.0 | 32.5 | 220 |
| 7691260 | **7118-30** | 14 x 18 | 30 | 13.0 | 63.0 | 32.5 | 220 |
| 7687740 | **7118-32** | 14 x 18 | 32 | 13.0 | 67.5 | 32.5 | 220 |
| 1963708 | **7118-34** | 14 x 18 | 34 | 15.0 | 74.0 | 33.5 | 255 |
| 1963716 | **7118-36** | 14 x 18 | 36 | 15.0 | 78.0 | 36.0 | 257 |
| 1963724 | **7118-41** | 14 x 18 | 41 | 15.0 | 82.0 | 36.0 | 261 |

## 7218

### RECTANGULAR RING END FITTING 14x18

- For accessing bolts in cramped and hard-to-reach locations, easy to change
- Forged
- Chrome-vanadium steel, chrome-plated
- With eject-pin for unlocking

14x18

| Code | No. | □ mm | ○ mm | mm | ○ mm | Depth gauge | |
|---|---|---|---|---|---|---|---|
| 7693120 | **7218-13** | 14 x 18 | 13 | 11.0 | 21.5 | 25.0 | 120 |
| 7693390 | **7218-14** | 14 x 18 | 14 | 11.0 | 23.0 | 25.0 | 120 |
| 7693470 | **7218-15** | 14 x 18 | 15 | 11.0 | 24.2 | 25.0 | 115 |
| 7678320 | **7218-16** | 14 x 18 | 16 | 12.0 | 25.7 | 25.0 | 125 |
| 7693630 | **7218-17** | 14 x 18 | 17 | 12.0 | 27.2 | 25.0 | 125 |
| 7678830 | **7218-18** | 14 x 18 | 18 | 12.0 | 28.5 | 25.0 | 125 |
| 7693710 | **7218-19** | 14 x 18 | 19 | 12.0 | 30.5 | 25.0 | 125 |
| 7678910 | **7218-21** | 14 x 18 | 21 | 15.0 | 33.0 | 25.0 | 140 |
| 7693980 | **7218-22** | 14 x 18 | 22 | 15.0 | 34.5 | 25.0 | 140 |
| 7694280 | **7218-24** | 14 x 18 | 24 | 15.0 | 37.5 | 25.0 | 140 |
| 7694440 | **7218-27** | 14 x 18 | 27 | 17.5 | 41.5 | 31.0 | 150 |
| 7694790 | **7218-30** | 14 x 18 | 30 | 17.5 | 45.0 | 31.0 | 160 |
| 7695920 | **7218-32** | 14 x 18 | 32 | 17.5 | 47.5 | 31.0 | 165 |
| 7679130 | **7218-34** | 14 x 18 | 34 | 19.0 | 50.5 | 31.0 | 195 |
| 7696220 | **7218-36** | 14 x 18 | 36 | 19.0 | 53.0 | 31.0 | 195 |
| 7696300 | **7218-41** | 14 x 18 | 41 | 19.0 | 59.0 | 31.0 | 225 |

## 7418

### RECTANGULAR REVERSIBLE RATCHET HEAD 14x18

- For accessing bolts in cramped and hard-to-reach locations, easy to change
- Forged
- Chrome-vanadium steel, matt chrome-plated
- With eject-pin for unlocking
- Fine-toothed
- Return angle 7°
- Max. continuous load of coupler according to DIN EN ISO 6789:2003 and/or maximum support load
- 7418-02 1/2" = 340 N·m
- 7418-04 3/4" = 400 N·m

14x18

1/2"

3/4"

| Code | No. | □ mm | ■ " | ■ | ° | mm | ○ mm | Depth gauge | |
|---|---|---|---|---|---|---|---|---|---|
| 7687580 | **7418-02** | 14 x 18 | 1/2 | 12.5 | 7,2 | 26.2 | 43.0 | 25.0 | 350 |
| 7687660 | **7418-04** | 14 x 18 | 3/4 | 20.0 | 7,2 | 30.7 | 50.0 | 33.0 | 780 |

## 7618

### RECTANGULAR FIXED SQUARE HEAD 14x18

- For accessing bolts in cramped and hard-to-reach locations, easy to change
- Forged
- Chrome-vanadium steel, matt chrome-plated
- With eject pin for unlocking
- Max. continuous load of coupler according to DIN EN ISO 6789:2003 and/or maximum support load
- 7618-02 1/2" = 340 N·m
- 7618-04 3/4" = 400 N·m

14x18

1/2"

3/4"

| Code | No. | □ mm | ■ " | ■ | mm | ○ mm | Depth gauge | |
|---|---|---|---|---|---|---|---|---|
| 7688040 | **7618-02** | 14 x 18 | 1/2 | 12.5 | 18.0 | 30.0 | 25.0 | 200 |
| 7688200 | **7618-04** | 14 x 18 | 3/4 | 20.0 | 25.0 | 40.0 | 25.0 | 390 |

## 7818

### RECTANGULAR BIT HOLDER 14x18

- For accessing bolts in cramped and hard-to-reach locations, easy to change
- Forged
- Chrome-vanadium steel, chrome-plated
- With eject-pin for unlocking

14x18

5/16"

| Code | No. | □ mm | ⬢ " | ⬢ | mm | ○ mm | Depth gauge | |
|---|---|---|---|---|---|---|---|---|
| 7698000 | **7818-00** | 14 x 18 | 5/16 | 8.0 | 12.5 | 16.0 | 25.0 | 100 |

## 7918

### RECTANGULAR WELD-ON FITTING 14x18

- For accessing bolts in cramped and hard-to-reach locations, easy to change
- Bear the depth gauges in mind

14x18

| Code | No. | □ mm | ↔ mm ↔ | mm | ○ mm | Depth gauge | |
|---|---|---|---|---|---|---|---|
| 7698430 | **7918-00** | 14 x 18 | 25 | 21.5 | 11.0 | 12.0 | 100 |

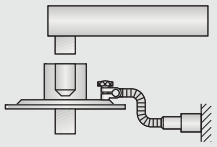
DREMOMETER SE • DREMASTER DMSE

271
279

Quantities in packs may vary.

## Torque angle indicator 8200

- When using torque angle indicator no. 8200, please note: The maximum output of the torque wrenches must not be passed. Please ensure that the maximum load capacity of the square drive including the values achieved by angle-regulated tightening is not exceeded:
- 1/2" max. approx. 390 N·m
- 3/4" max. approx. 1330 N·m



## 8573-00 BC

264 – 265

## 8200

### TORQUE ANGLE INDICATOR

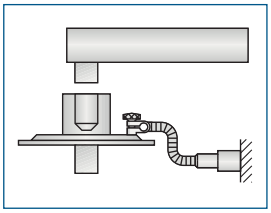
**Use:**
- Additional angle-regulated tightening for controlled torque and angle activation

**Features:**
- Torque angle indicator with 1/2" or 3/4" square drive
- For additional precise angle tightening (0 - 360°)
- 1/2" square drive with ball locking device or 3/4" square drive with pin locking device
- No. 8200-01/-02 models with sliding magnetic and gripping arm
- No. 8200-11 only with magnetic arm - simple design
- To operate with a suitable torque wrench
- The maximum output of the torque wrench must not be passed

**Scope of delivery:**
- Torque angle indicator
- Delivered in a strong plastic case (no. 8200-01/-02), model no. 8200-11 in sturdy hard cardboard packaging

8200-11

8200-02



8200-01

| Code | No. | ■" | □" | Ø mm | ∠° | |
|---|---|---|---|---|---|---|
| 1195980 | **8200-01** | 1/2 | 1/2 | 80 | 0-360 | 330 |
| 7718480 | **8200-11** | 1/2 | 1/2 | 82 | 0-360 | 330 |
| 7716510 | **8200-02** | 3/4 | 3/4 | 120 | 0-360 | 530 |

## 8100 - 8116

### TORQUE LIMIT UNIT 3/8"

**Use:**
- Torque limiting for controlled screw tightening

**Features:**
- 8116 - Sparking-plug socket with built-in torque limit unit
- 0774 - Adaptor 3/8" female square for ratchets with fixed head
- 8100 - Torque limiting adaptor for torque control with sparking-plug sockets. Fits with 3/8" female square drives
- All models of the torque limiting adaptors are available with a factory pre-set torque value in the range of 8 to 25 N·m

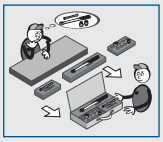
**Scope of delivery:**
- Torque limiting adaptor
- Single packed in poly-bag

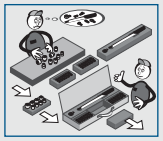
| Code | No. | External ■ / Internal □ | Description | N·m | ⟷mm⟷ | |
|---|---|---|---|---|---|---|
| 7717830 | **8116-18** | 3/8" ■ / 16 ○ | Spark plug with built-in torque control | 18 | 83 | 200 |
| 7717910 | **8100-18** | 3/8" ■ / 3/8" □ | Adaptor 3/8" for spark plug sockets | 18 | 50 | 150 |
| 7717670 | **774-00** | 3/8" □ / 3/8" □ | Adaptor | | 25 | 30 |

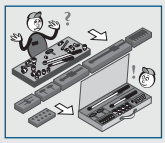


Quantities in packs may vary.

## Module Systems Flexibility with flair







- The module system adapts itself exactly to your wishes and requirements. At last, you can assemble your sets completely individually. Exactly and only using the tools you actually need. For every need, our system provides you with the perfect solution. Whether you chose a standard or an individual solution, your DREMASTER/TORCOFIX torque wrenches with or without accessories, are always stored and transported professionally by virtue of the modular system design.
- Your set is flexibly alterable and extendible at all times. Just replace or add modules. The modules themselves are delivered with dummy plugs. Simply remove the plugs from the nest-holes you wish to load with your tools or accessory units. The remaining nest-holes remain closed - that's what we call neat.
- You tell us which tools you would like to combine into a set and we will then take care of the rest and you will get your desired set without delay. Finished and ready!

# EMPTY STANDARD PACKAGING

### PLASTIC CASSETTES EMPTY FOR DREMOMETER MINI + AM

**Use:**
- Standard packaging for sets of the torque wrench series DREMOMETER MINI and AM
- Robust and solid, best for storage and transport

**Features:**
- Solid, black plastic cassette
- For torque wrench series DREMOMETER MINI and AM
- With foam rubber inlay and nest-holes for the accessories

**Scope of delivery:**
- Plastic cassettes with foam inlay only
- Delivery in sturdy cardboard packaging

| Code | No. | Description | L | W | H | |
|---|---|---|---|---|---|---|
| 1986805 | **753-88** | Plastic cassette + foam inlay for DREMO MINI | 225 | 125 | 37 | 296 |
| 7620910 | **8554-99** | Plastic cassette + foam insert for DREMO AM | 275 | 150 | 42 | 310 |

### SHEET METAL CASE EMPTY FOR DREMOMETER A-F

**Use:**
- Standard packaging for sets of the torque wrench series DREMOMETER A-F
- Robust and solid, best for storage and transport

**Features:**
- Solid and robust sheet metal case
- With integrated metal-flight and nest-holes for the accessories
- Hinges, locks and hand grip made of steel
- Paint finish: stove enamelled blue

**Scope of delivery:**
- Sheet metal case only
- Delivery in sturdy cardboard packaging

| Code | No. | Description | L | W | H | |
|---|---|---|---|---|---|---|
| 7621050 | **8560-90** | Sheet metal case for DREMO A | 370 | 115 | 50 | 1200 |
| 7621130 | **8561-90** | Sheet metal case for DREMO B | 485 | 115 | 52 | 1698 |
| 7621210 | **8562-90** | Sheet metal case for DREMO BC/C | 630 | 115 | 52 | 1950 |
| 7621800 | **8570-90** | Sheet metal case for DREMO CD | 745 | 165 | 70 | 3224 |
| 7621480 | **8563-90** | Sheet metal case for DREMO D/DS | 830 | 165 | 73 | 3713 |
| 7622100 | **8571-90** | Sheet metal case for DREMO DR/DX | 830 | 165 | 73 | 3656 |
| 7621560 | **8564-90** | Sheet metal case for DREMO E / EK | 945 | 270 | 100 | 10300 |
| 1742876 | **8572-90** | Sheet metal case for DREMO F | 1075 | 190 | 105 | 6400 |

920 • 922

541

923

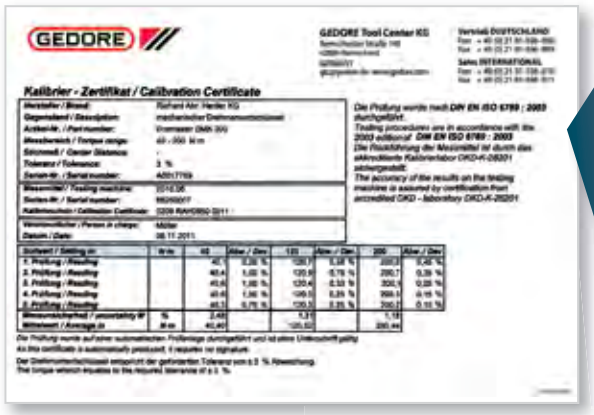
541

Quantities in packs may vary.

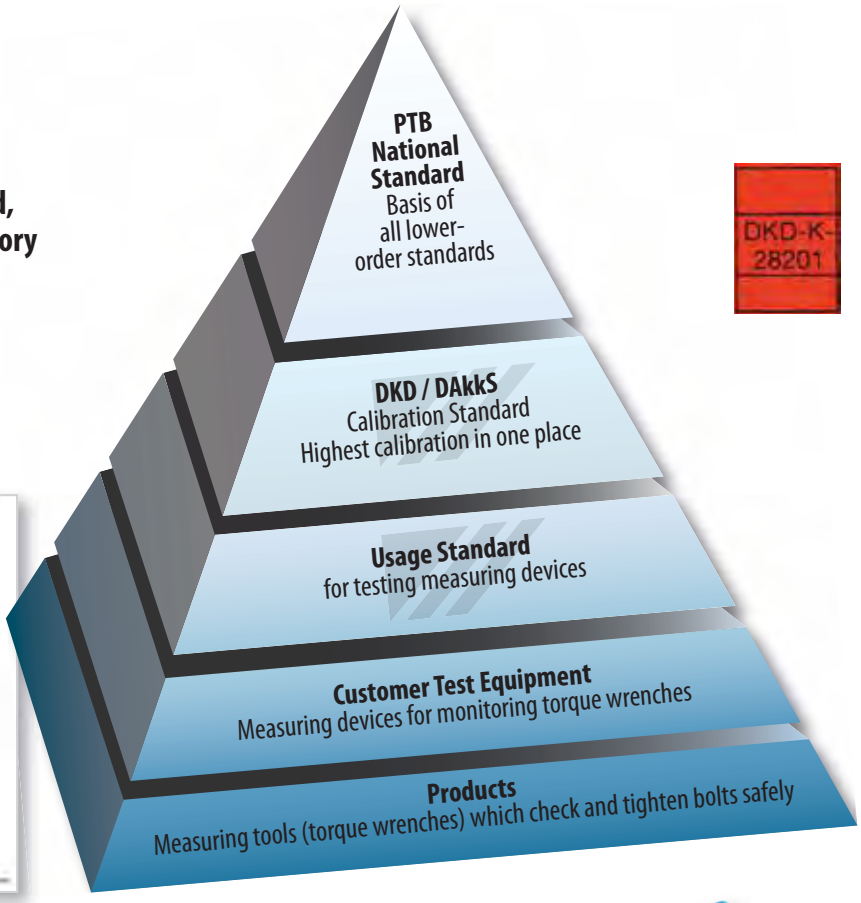
# Certified precision
## Traceable safety

**DKD calibration in our own accredited, independent DKD calibration laboratory**

**In-house calibration according to DIN EN ISO 6789:2003**


GEDORE

Kalibrier - Zertifikat / Calibration Certificate



## DKD calibration
## Scope of services offered by DKD Laboratory

| Type | Measuring range | Measuring process | Minimum measurement inaccuracy indicated |
|---|---|---|---|
| Electr. torque wrench | 0,2 N·m - 3.000 N·m | DAkkS - DKD - R 3 - 7:2003 | 0,2 % |
| Calibration equipment torque wrench (test devices) | 0,2 N·m - 3.000 N·m | DAkkS - DKD - R 3 - 8:2003 | 0,2 % |
| Hand-operated torque wrench | 0,2 N·m - 1.000 N·m | DIN EN ISO 6789:2003 | 1 % |

## Factory calibrations

| Type | Measuring range | Measuring process | Minimum measurement inaccuracy indicated |
|---|---|---|---|
| Electr. torque wrench | 0,2 N·m - 1.000 N·m | based on DKD 3-7 | 1 % |
| Calibration equipment torque wrench (test devices) | 0,2 N·m - 3.000 N·m | based on DKD 3-8 | 0,5 % |
| Hand-operated torque wrench | 0,2 N·m - 1.000 N·m | DIN EN ISO 6789:2003 | 1 % |
| Electr. torque/rotary angle wrench | 5 N·m - 300 N·m | BV-STO edition 07/2010 (for measuring angles) | 0,5% 5° |

## Our service - qualified and customised

Our reasonably-priced factory calibration service fulfills the requirements according to DIN EN ISO 6789. Our proprietary accredited DKD calibration laboratory creates certificates in accordance with the applicable standards and requirements as per DKD 3-7 and DKD 3-8 as well as DIN EN ISO 6789:2003.

Our repair service will repair your GEDORE torque wrenches within 5-7 working days.

## Regular calibration, adjustment and certification Why is this so important?

Only then can we guarantee the precision and reliability of our torque tools over the long term. We attach a great deal of importance to this as your safety is something which is close to our heart.
Because we offer you the safety you require for everyday "controlled tightening".

GEDORE - competent control of the highest level

## Please note that the torque wrench is an item of measuring equipment.

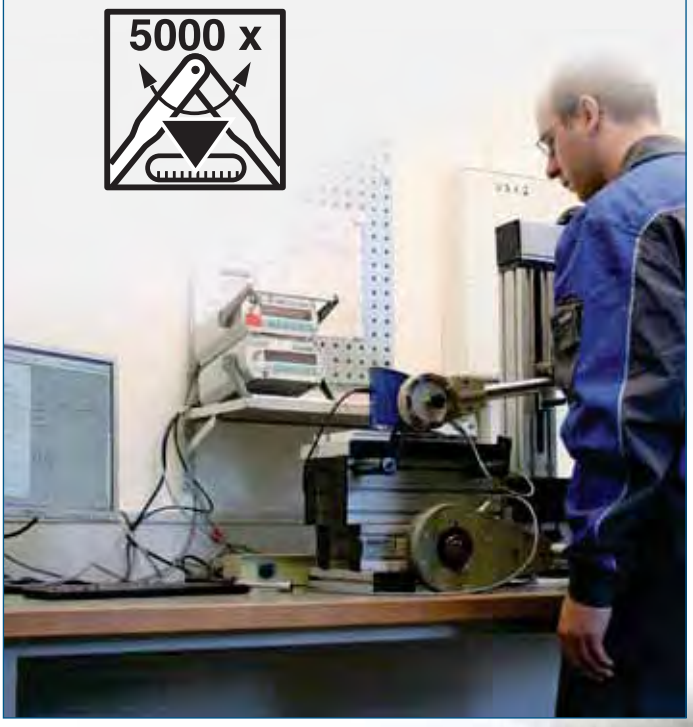
### We recommend:

Calibration once a year (DIN EN ISO 6789:2003) or after 5000 load cycles (DIN EN ISO 6789:2003)

### Your advantage:

Torque wrench offering measurement accuracy
Free* calibration service at Richard Abraham Herder KG in Solingen

*Only applies for mechanical items supplied by us (RAHSOL/GEDORE)
Full service package / services only apply for Germany. Please enquire in our subsidiaries about the possibilities for your respective country.




DKD CALIBRATION 318

FACTORY CALIBRATION 319

## Torque technology - for exact and safe screwed connections

The use of regularly calibrated torque tools, quality bolts and the "right torque" are absolute prerequisites for safe screwed connections. It should go without saying that this involves the careful and correct selection and application of your torque tools. After all, bolts which are tightened based on a hunch represent a safety risk with potentially serious consequences. If the pre-tension force is too low, the screwed connection can loosen and if it is too high, there is a danger of breaking.

Torque technology is indispensable wherever exactly controlled screw tightening is required. And this involves more screwed connections that you'd think! Every day, our GEDORE tools prove their value in all types of industrial manufacturing, maintenance and repair areas as well as in the area of research and development.

In each of these areas, they offer user maximum safety. Whether standard products or special designs: the outstanding manufacturing quality and extensive service offered by GEDORE ensure continuous reliability, even under extreme conditions.

## GEDORE company standards (Richard Abr. Herder KG)

- In-house certification according to DIN EN ISO 9001:2000 (initial certification: 1996).
- Own DKD calibration laboratory for torque measurements (scope of accreditation to DKD: tests in accordance with DAkkS-DKD-R 3-7:2003; DAkkS-DKD-R 3-8:2003; DIN EN ISO 6789:2003) with DKD-K-28201 registration number.
- National co-operation partner to the German Calibration Service (DKD) since accreditation (DIN EN ISO / IEC 17025) and authorisation by PTB in 2000
- Mutual international recognition of calibration services among the following countries (EAL): e.g. Germany (DKD), Great Britain (UKAS), Austria (ÖKD), Switzerland (SCS), Australia (NATA), Belgium (BKO), Denmark (DANAK), Finland (FINAS), France (COFRAC), Italy (PRORE)...
- Official, regular examination of all test and measuring equipment in the DKD laboratory by the Physikalisch-Technische Bundesanstalt in Braunschweig (PTB) and Schatz AG
- Regular internal testing of all test and measuring equipment
- Production of all torque tools in accordance with international standards, primarily in accordance with the DIN EN ISO 6789 standards.
- All electronic torque wrenches or test equipment are developed and manufactured in accordance with the applicable CE Guidelines (EMC).
- Our torque screwdrivers and some torque wrench ranges are safe as regards electrostatic (EPA/ESD).

## Recalibration of torque tools - why?

The availability of a once-off calibrated torque wrench is simply not enough in order to guarantee its precision over the long term. Accordingly, just like you have your car serviced regularly, in their capacity as precision measuring equipment, torque tools also require regular servicing.

Therefore, examine your torque tools at least every 5000 load cycles on a traceable calibrated test device. Annual inspection suffices where tools are only used sporadically. Where tools are used more intensively or screwed connections are involved which have safety relevance, we recommend maintaining inspections intervals of 3 to 6 months. Calibration should only be performed by authorised specialist personnel, an accredited DKD calibration laboratory or by the actual manufacturer.

Depending on requirements, such maintenance can involve DKD calibration or factory calibration traceable to national standards.

### Tip

Avail of the competent and swift factory calibration service offered by GEDORE for its torque tools or opt for the DKD calibration service (all makes). You torque tools will be returned within a few working days. And you can continue to use your tools displaying a new level of precision and certified safety without the risk of long downtimes.

Have you got an "intractable" bolt problem? Talk to your torque experts on the phone or in person.
Information is available from our service hotline. Ask about our competent calibration partners all over the world - and near you.

**Service hotline: +49 (0)1804 37 36 68**

## GEDORE products - traceable to national standards

Traceability is the ultimate cut-off criterion for any calibration. Measuring results must be related to the national standard by means of a continuous chain of comparative measurements. Evidence can be provided in a direct comparison with the national standard or via several calibration steps by means of an indirect comparison with other standards associated with the national standard.

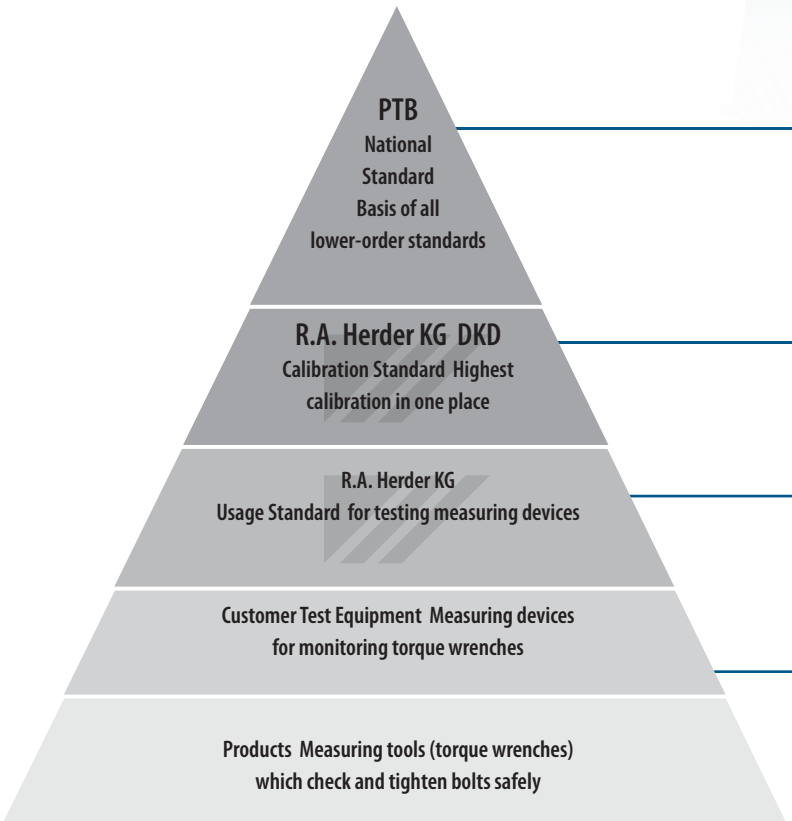
GEDORE torque tools are produced, adjusted, traceably calibrated and certified observing maximum quality demands. They are designed and manufactured in such a way that they comply with or even exceed the requirements of the applicable DIN EN ISO standards, whereby our stringent test and measurement equipment guidelines represent a quality mark of high product quality.

Each new torque wrench, torque screwdriver and test device includes a GEDORE factory test certificate in accordance with the respectively applicable standards. And it goes without saying that our factory test certificates are traceable to national standards. Serial numbers on the product and on the certificate serve towards unambiguous product identification. On request, we can calibrated and certify your torque tools in our own DKD calibration laboratory and in accordance with DAkkS guidelines. Your tool is then traceable to national standards.

### Tip

Only rely on measurement results achieved using traceable calibrated measuring equipment. Only by association with national standards and therefore the international reference system are test results comparable and quality-based world-wide. Traceable test equipment management has long been specified for certified companies (DIN EN ISO 9000 ff.). The calibration hierarchy is depicted in pyramid form and demonstrates all of the levels of traceability currently in place. The fewer the steps from the test object to the national standard, the more reliable the measurement result. DKD calibration - directly traceable - guarantees a very accurate calibration result of the highest level.

## Calibration hierarchy: From nuts and bolts to national standards




### Torque measurement

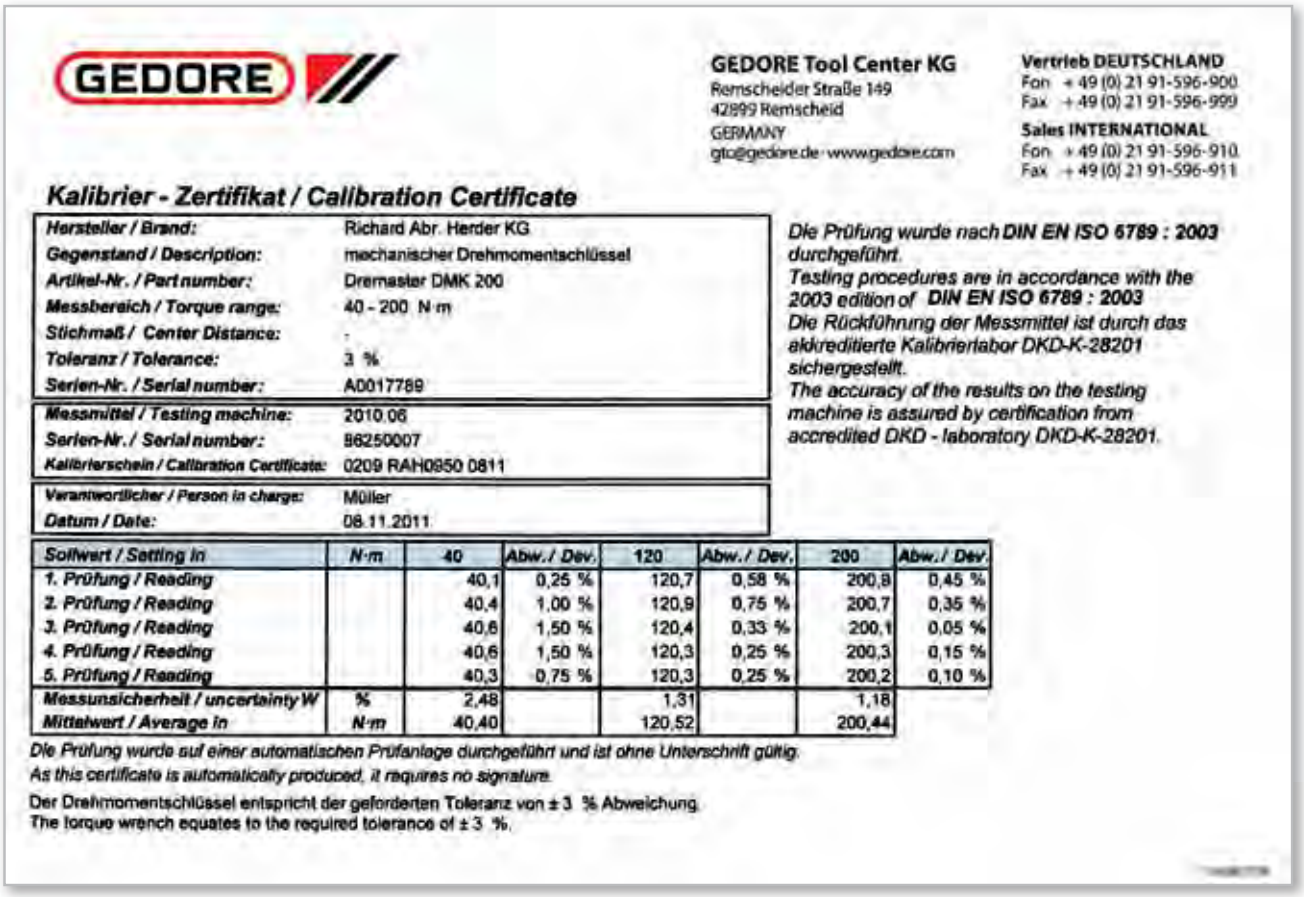
**National standard / Primary standard:**
Basis for specifying all subsequent standards of the corresponding size, by official decision. Developed and maintained in Germany by PTB, Braunschweig.

**DKD calibration standard / Reference standard:**
A standard representing the highest level of accuracy at a certain place (company, laboratory).

**Working standard / Factory standard:**
A standard which is calibrated in connection with a reference standard and routinely used to calibrate or examine measuring equipment.

**Test equipment**
Measuring equipment routinely used for calibrating or examining measuring tools (torque wrenches).

# Factory test certificates for adjustable and pre-set torque wrenches



GEDORE

**GEDORE Tool Center KG**
Remscheider Straße 149
42899 Remscheid
GERMANY
gtc@gedore.de · www.gedore.com

**Vertrieb DEUTSCHLAND**
Fon +49 (0) 21 91-596-900
Fax +49 (0) 21 91-596-999
**Sales INTERNATIONAL**
Fon +49 (0) 21 91-596-910
Fax +49 (0) 21 91-596-911

**Kalibrier - Zertifikat / Calibration Certificate**

| | |
|---|---|
| Hersteller / Brand: | Richard Abr. Herder KG |
| Gegenstand / Description: | mechanischer Drehmomentschlüssel |
| Artikel-Nr. / Part number: | Dremaster DMK 200 |
| Messbereich / Torque range: | 40 - 200 N·m |
| Stichmaß / Center Distance: | - |
| Toleranz / Tolerance: | 3 % |
| Serien-Nr. / Serial number: | A0017789 |
| Messmittel / Testing machine: | 2010.06 |
| Serien-Nr. / Serial number: | 86250007 |
| Kalibrierschein / Calibration Certificate: | 0209 RAH0950 0811 |
| Verantwortlicher / Person in charge: | Müller |
| Datum / Date: | 08.11.2011 |

Die Prüfung wurde nach DIN EN ISO 6789 : 2003 durchgeführt.
Testing procedures are in accordance with the 2003 edition of DIN EN ISO 6789 : 2003
Die Rückführung der Messmittel ist durch das akkreditierte Kalibrierlabor DKD-K-28201 sichergestellt.
The accuracy of the results on the testing machine is assured by certification from accredited DKD - laboratory DKD-K-28201.

| Sollwert / Setting in | N·m | 40 | Abw. / Dev. | 120 | Abw. / Dev. | 200 | Abw. / Dev. |
|---|---|---|---|---|---|---|---|
| 1. Prüfung / Reading | | 40,1 | 0,25 % | 120,7 | 0,58 % | 200,9 | 0,45 % |
| 2. Prüfung / Reading | | 40,4 | 1,00 % | 120,9 | 0,75 % | 200,7 | 0,35 % |
| 3. Prüfung / Reading | | 40,6 | 1,50 % | 120,4 | 0,33 % | 200,1 | 0,05 % |
| 4. Prüfung / Reading | | 40,6 | 1,50 % | 120,3 | 0,25 % | 200,3 | 0,15 % |
| 5. Prüfung / Reading | | 40,3 | 0,75 % | 120,3 | 0,25 % | 200,2 | 0,10 % |
| Messunsicherheit / uncertainty W | % | 2,48 | | 1,31 | | 1,18 | |
| Mittelwert / Average in | N·m | 40,40 | | 120,52 | | 200,44 | |

Die Prüfung wurde auf einer automatischen Prüfanlage durchgeführt und ist ohne Unterschrift gültig.
As this certificate is automatically produced, it requires no signature.
Der Drehmomentschlüssel entspricht der geforderten Toleranz von ± 3 % Abweichung.
The torque wrench equates to the required tolerance of ± 3 %.

- Factory test certificates for GEDORE torque tools - with scale (Richard Abr. Herder KG factory calibration)
- The test is performed at 20, 60 and 100% of the maximum measurement range of the torque tools to be tested. 5 measurements each are made at these 3 test points. The measurement results (actual values) are compared with the requisite values (target values) and examined for tolerance accuracy. If the measurement results are within the tolerance, a test certificate is automatically generated. If the test values are outside the tolerance, the tool is fine-adjusted and the test repeated.
- Factory test certificates for torque tools - without scale (Richard Abr. Herder KG factory calibration)
- Supplied pre-set to a fixed torque value in the factory: Adjustment to the torque requested by the customer. The test certificate confirms the recurrent accuracy of this fixed value over 5 measurements.
- Supplied without pre-setting - the customer adjusts the tool to the requisite torque value: The test method is the same as for torque wrenches with scale (see above). Here too, the customer receives a test certificate with 5 measurements each performed on the 3 test points (20, 60 and 100% of the maximum measurement range).

## Note

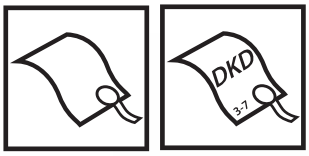
At Richard Abr. Herder KG, all GEDORE torque tools are subjected to a 100% quality check. We guarantee the tolerance accuracy of our tools in accordance with the applicable DIN standards.

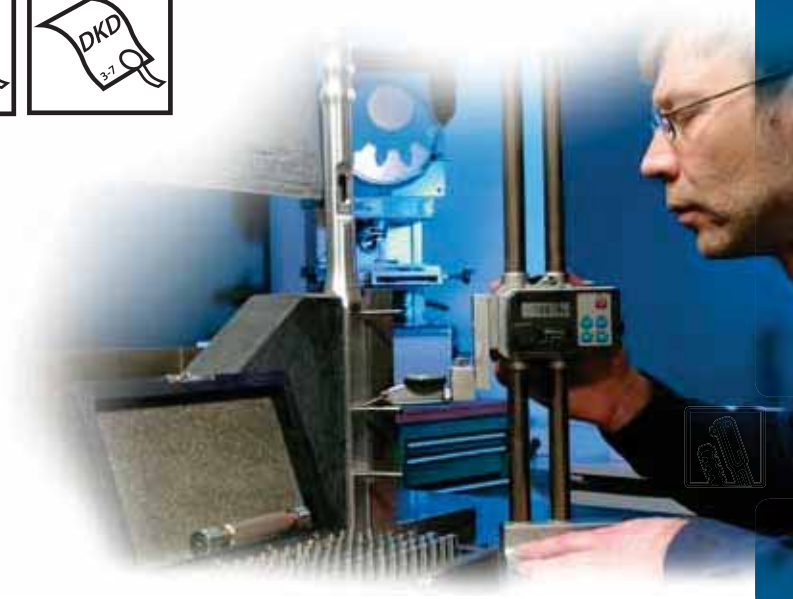
## Note

On request, all of our torque wrenches and test equipment can also be calibrated and certified in line with all DAkkS guidelines in our own test laboratory. Ask us about prices for DKD certification.

## Differences in the contents of test certificates

The test certificate is a document certifying the accuracy of a torque tool at a certain time. There are differences in terms of form and content between factory test certificates or DKD calibration certificates depending on the product.
All test certificates and calibration certificates have the following in common: They include exact details on the product name, product item number, working and/or measurement range, serial number, test equipment used, calibration result and the standard according to which tests were carried out. What's more, evidence of traceability as well as the tester's name and the date must also be indicated. This data ensures unambiguous product identification.
One key difference between factory certificates and DKD calibration certificates concerns indication of the calibration result. The factory certificate does not take consideration of any measurement inaccuracies by test equipment at individual hierarchy steps. The calibration result of the DKD calibration certificate on the other hand includes both the measuring inaccuracy of the test item and test equipment.



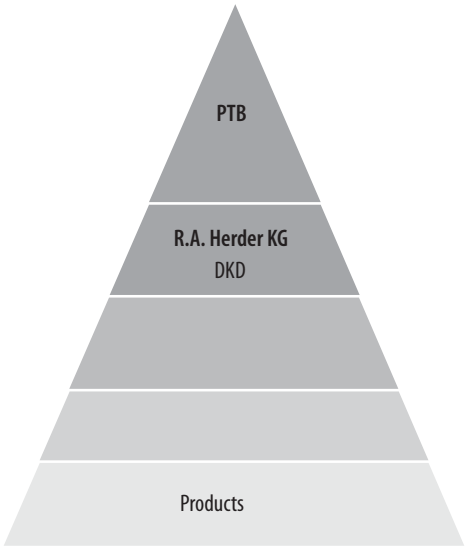
## Contents of the DIN EN ISO 6789 standard

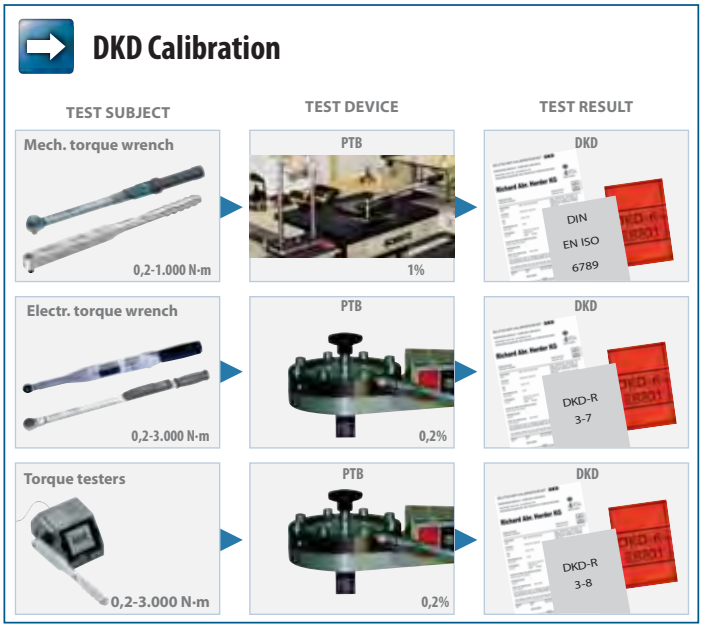
The majority of GEDORE torque tools are produced conformant to the requirements of the applicable DIN EN ISO 6789 standard or higher. This standard includes the following key quality and tolerance specifications as well as classifications:

- Torque tools are divided into type classes with the corresponding demands on accuracy (e.g. class A: actuating torque wrench +/- 4% or class D: dial-indicating screwdriver +/- 6%).
- Specification of the tolerance working area of a torque tool (20% to 100% of the respective maximum scale or tightening value).
- Allocation of the square drive as regards nominal size and maximum torque value
- Exact specifications on the test process and test environment (e.g. temperature +18 °C - 28 °C and max. 1% measuring inaccuracy)
- Details governing measuring inaccuracy of test equipment (max. +/- 1% tolerance of the value shown)
- Specifications concerning scale and product marking

### Tested quality

# DKD calibration - 100 % documented safety




- **Direct traceability to the national standard**
- **DKD calibrations to DKD Guidelines: DAkkS-DKD-R 3-7:2003; DAkkS-DKD-R 3-8:2003 and DIN EN ISO 6789:2003**
- **Minimum measurement inaccuracies**
- **DKD calibration of our own products and those of other manufacturers**
- **Air-conditioned laboratory controls under the most stringent conditions**
- **DKD calibration certificate and DKD calibration stamp**

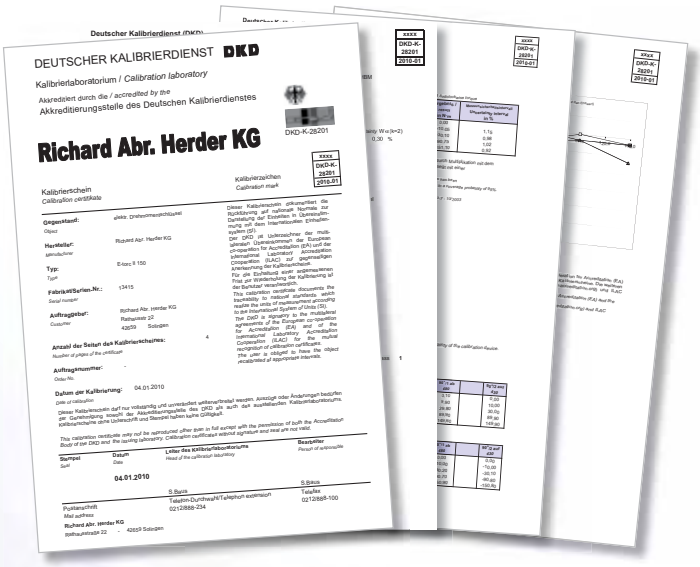
**Example:**
A torque wrench is calibrated in accordance with DIN EN ISO 6789:2003. Calibration is performed on test equipment approved by DKD (DAkkS).
Depending on the design and type, the torque wrench is calibrated at +/- 4% or +/- 6%.
In addition to measurement deviations, measurement inaccuracy is also documented in the DKD calibration certificate.
The torque wrench can be used in accordance with the applicable DIN EN ISO standards.

**DKD calibration equipment**
We calibrate your test equipment or torque wrenches on DKD-calibrated reference wrenches or test equipment. DKD calibrations of test equipment are performed regularly by PTB and/or Schatz. This fact ensures that the maximum possible accuracies and minimum possible measurement inaccuracies are provided. Before each calibration process, a preliminary test is performed in our DKD laboratory on each item of calibration equipment and on each reference wrench.

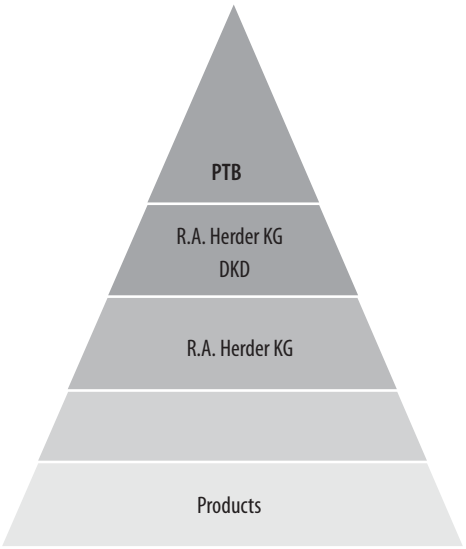
**International recognition**
The DKD calibration certificate and therefore the measurement results listed are recognised in many other countries as official evidence of traceability. This is based on multilateral treaties.

## DKD calibration certificate

The DKD calibration certificate documents the calibration result - the DKD calibration mark on the test item identifies the DKD laboratory performing calibration. Please note our registration number: DKD-K-28201. During the test process, the Richard Abr. Herder KG calibration laboratory is obliged to comply with the contractual criteria of the DAkkS (formerly DKD).
Apart from the standard test certificate contents, the DKD calibration certificate also takes consideration of the measurement inaccuracies of the test equipment used. The documented calibration result includes the measuring inaccuracies of both the test item and the test equipment.
DKD calibration therefore represents maximum safety for controlled tightening. We advise using it for larger test items or test equipment subject to continuous use.



# We give you the security you need



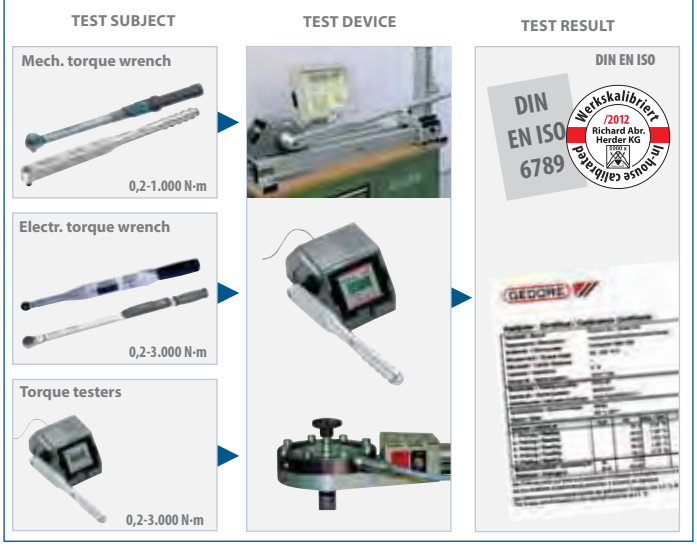

## Factory calibration - solid reliability!

- Indirect traceability to the national standard
- Factory calibration according to the standard DIN EN ISO 6789:2003
- Factory calibration if necessary with adjustments and repairs - for GEDORE products only
- Factory test certificate and calibration stamp

## Factory test certificate according to DIN EN ISO 6789:2003

- It contains information about the test item, measurement results, the test equipment used and the classification of the test item according to DIN EN ISO 6789:2003 (e.g. Type II Class A).
- The calibration is carried out on test equipment, which comply with the DIN EN ISO 6789:2003.
- The calibration result of the factory certificate does not take consideration of any measurement inaccuracies by test equipment at individual hierarchy steps.
- The documented measuring inaccuracies refers only to the test item.

## Factory calibration




## Note

Calibration always represents a snapshot! Within the framework of calibration, deviations in measurements and measurement inaccuracies are recorded on a certain date and documented accordingly in the calibration certificate. Using these calibration results, a statement can be made as regards tolerance accuracy since the previous calibration. No statement can however be made as regards future performance.

If you have any queries, simply call our service hotline:
+49 (0) 1804 37 36 68.

## Note

The generation of a factory test certificate in accordance with GEDORE criteria as well as adjustment and repair is exclusively possible for torque wrenches and test equipment manufactured by us.

Factory and DKD calibrations involve right calibration. Left calibration also available on request.

Depending on the requirements or customer requests, we calibrate in accordance with DAkkS guidelines or GEDORE criteria

GEDORE
Made in Germany

More detailed information on guarantee extension is on Page 335

**Your advantage:**

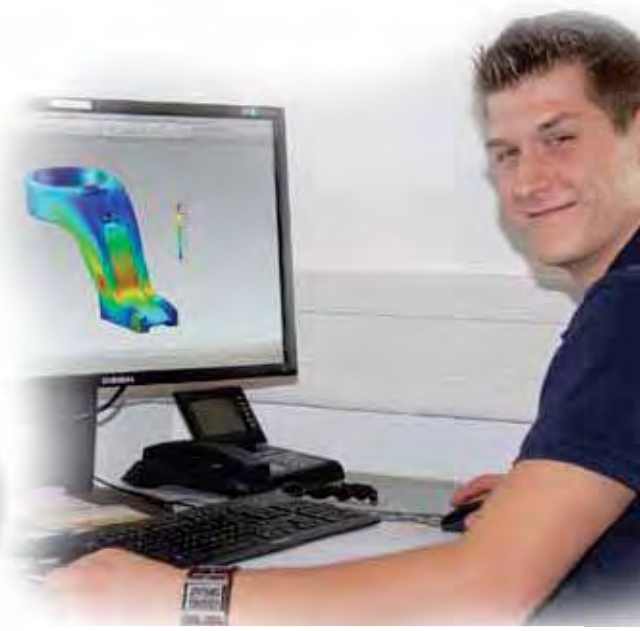
- The slender, lighter structure of the appliances ensures convenient and safe working - even where conditions are particularly cramped.
- Repetition-accurate and precise results - supported by individual factory test certificates - ensure a maximum degree of job safety.
- High degree of resilience and long life of the appliances attributable to a low-backlash planet gear with Ceramic-Teflon® coating.
- A 30% + lighter steel housing thanks to the use of high-performance aluminium.
- Each torque multiplier is examined as to its torque range at the factory and provided with an individual factory test certificate.

## Production steps of a gear body

1 Raw material
2 Turning
3 Indenting
4 Milling
5 Hardening

## In-house development and 3D simulation

- Use of high-tech design and analysis techniques (3D-CAD/CAM/FEM)
- By means of stress analysis techniques (Finite Element Method = FEM) the appliances are tested under extreme stresses and continually improved upon.
- Requirement: Light, compact appliances which nevertheless - when subject to tough use - are still extremely sturdy.
- Both tried-and-tested standard solutions and specific tailored solutions are developed.



MADE IN GERMANY

## Unusual manufacturing depth of well over 90 %

- Practically all components from the initial idea to the finished product are in-house manufactured.
- Use of maximum high-grade materials (chrome-vanadium steel and high-performance aluminium) with batch retracability from finished component to the raw material.
- Production at high-tech machining centres.
- One of the sophisticated production processes involves a patent-filed process which ensures a unique and unmistakable product quality.
- The perfected final result comes from maximum quality demands placed, unrelenting development and the lengthy manufacturing expertise of our employees.
- GEDORE torque multiplier: A guarantee for your safety in "every day high-torque bolting and screw tightening work"

## Patent-filed: Shuttle impacts

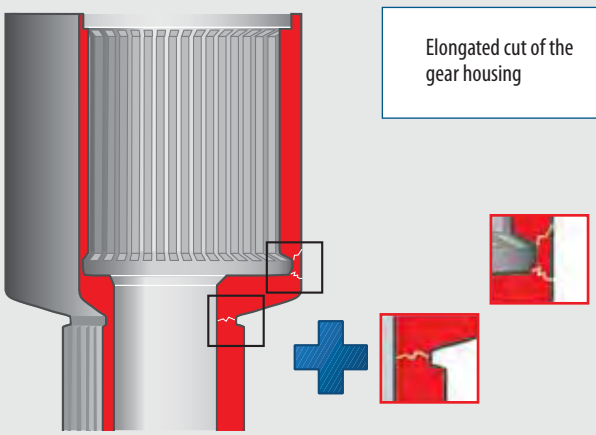
- A patent-filed impact operation producing no grooves or notches at all.
- Manufacturing advantage: a lighter and more stable gear housing than with the usual type of machining.
- Your advantage: more safety in the routine of screw/bolt tightening and greater convenience

**Customary operation**

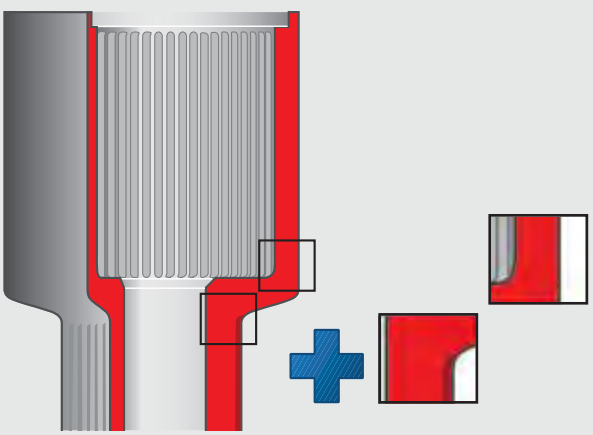
- With the usual rolling impact operation, the cutting tool - at the serrated face runout - requires a design-necessitated "clearance cut" to act as a notch.
- Cracks in the material may form within it given stresses.
- The notching needs to be countered by a thicker plate thickness in the gear.

**Patent-filed process: Shuttle impacts**

- Optimisation of the movement sequence in this process is such that the cutting tool emerges curve-like from the material in a precisely defined geometrical form.
- This does away with the need for any clearance cut in both the external and internal serrated faces.
- The notching does not need to be compensated by the use of additional materials.
- The gear housing is lighter and at the same time more stable.

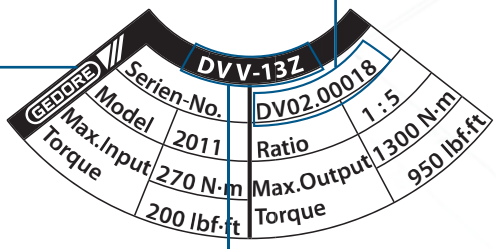


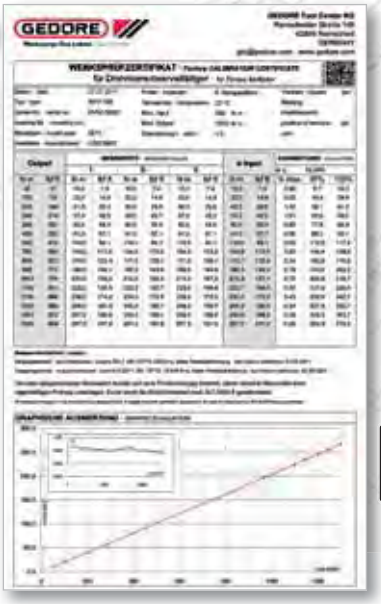
Elongated cut of the gear housing



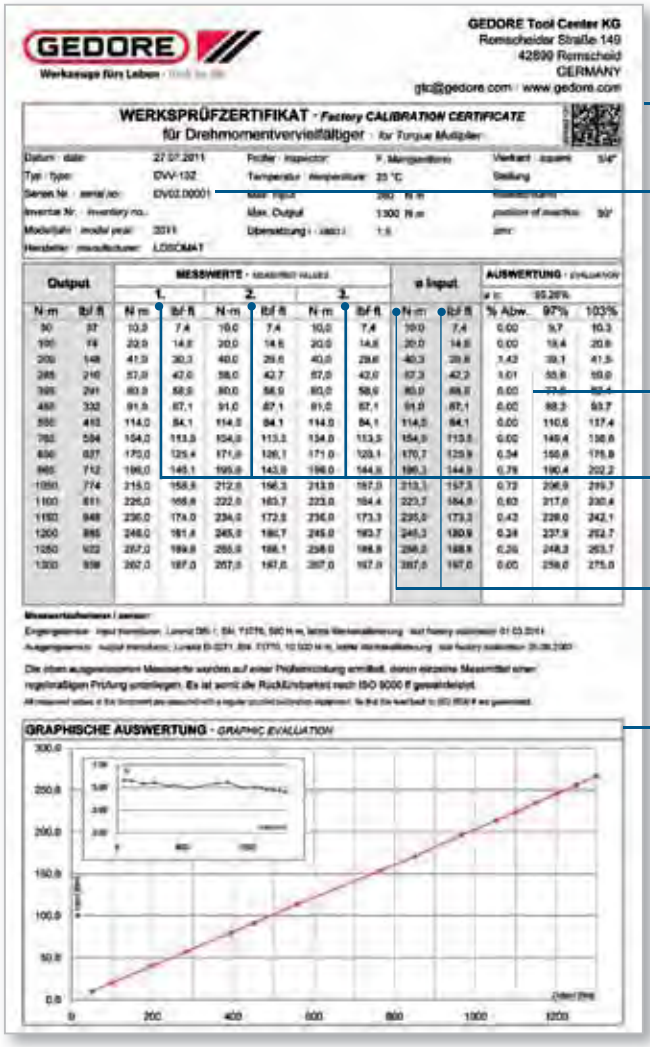
## Quality products require a quality management system

- A company certificated on the basis of DIN EN ISO 9001:2008
- Traceability of all product components and materials (chrome-vanadium steel and high-performance aluminium)
- Once assembled each appliance is given an individual, captive serial number.
- Controlled safety: Each torque multiplier is examined as to its torque range at the factory and given an individual factory test certificate.



| INPUT N·m | INPUT lbf·ft | OUTPUT N·m | OUTPUT lbf·ft |
|---|---|---|---|
| 10.9 | 8.7 | 50 | 40 |
| 21.1 | 14.7 | 100 | 70 |
| 41.7 | 31.2 | 200 | 150 |
| 58.8 | 41.3 | 285 | 200 |
| 80.6 | 61.1 | 395 | 300 |
| 91.9 | 71.6 | 450 | 350 |
| 115.0 | 82.0 | 560 | 400 |
| 156.3 | 112.2 | 765 | 550 |
| 174.2 | 122.7 | 850 | 600 |
| 198.4 | 143.8 | 965 | 700 |
| 216.8 | 154.5 | 1050 | 750 |
| 227.4 | 165.2 | 1100 | 800 |
| 237.9 | 175.7 | 1150 | 850 |
| 248.0 | 185.9 | 1200 | 900 |
| 258.2 | 190.1 | 1250 | 920 |
| 268.9 | 196.5 | 1300 | 950 |




## The first torque multiplier with factory test certificate ex-works

1. Available in two languages (German and English). Other languages on request
2. Individual factory test certificate for each torque multiplier (except Model DVV-540RS) with individual serial number for article identification purposes
3. Transparency and safety resulting from deviation indication and consideration given to the efficiency
4. Three measuring rows per torque level
5. Standardized indication of the torque in N·m and lbf·ft
6. Graphical evaluation

### Option

On request and at an extra charge, we also calibrate the DREMOPLUS torque multiplier together with the torque wrench used (e.g. DREMOMETER, DREMASTER, TORCOTRONIC, E-TORC) - given that GEDORE makes are involved - in order to minimize the overall tolerance.

## Selection criteria

**1. Torque**
- Select your torque multiplier on the basis of the maximum output torque.

**2. Loading factor and frequency (load spectrum)**
- It would be wrong to constantly operate the appliance at its maximum capacity - just as it would be for any machine or any car.
- This also holds good for the choice of the torque multiplier.
- Permanently operating a torque multiplier for screw-tightening applications at maximum torque may impact negatively on its service life.

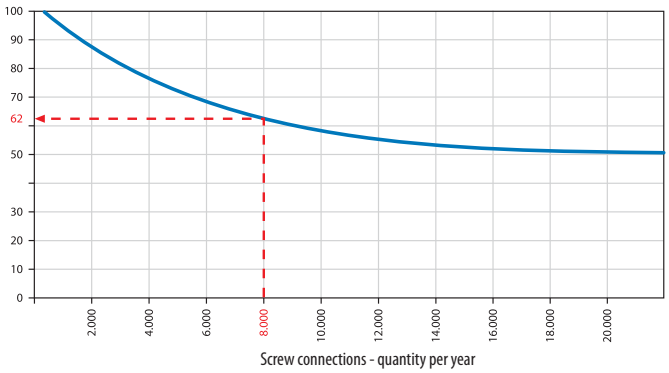
**3. Supporting situation**
- Various supporting situations may be a determining factor in the selection of the torque multiplier.

**Support at a raised position:**
- The L-form reaction arm would be suitable should you want to attach the reaction arm to a point above the screwing-tightening level.
- A warning here in that the inputted bending forces result in a reduction of the maximum permitted torque!

**Support at the level of the screw:**
- Our recommendation - should you want to attach the reaction arm at the screw-tightening level - is either for a Z-form reaction arm or the straight L-form with adjustable reaction square.

**4. Anti-wind-up ratchet**
- A minimum 180° torque wrench field of movement should be on hand. As such, the recommendation is for an appliance complete with an anti-wind-up ratchet. In this way, pre-tension in the appliance is maintained and does not need to be re-created with each lift.

## Application case:




8,000 screws a year are to be tightened at 4000 N·m.
The following calculation needs to be carried out on the basis of the diagram to find the right appliance:

$$\frac{\text{Torque x 100\%}}{\text{Loading}} = \frac{\text{4000 N·m x 100\%}}{\text{62\%}}$$

Choose an appliance with a max. 6452 N·m torque.
The DVV-60ZRS would be ideally suitable here.

- Plan for a sufficient reserve in unloosening the screw connection.
- The torque needed to unloosen a screw connection can be many times the tightening torque.

## What makes for a good torque multiplier?

- Light yet with the appliance remaining sturdy.
- The torque and repeatability accuracy is at +/-3 %. Only in this way is dependable screw tightening work assured with reproducible accuracy.
- Both the torque settings and individual appliance components can be traced back.
- A factory test certificate ensures traceability of operations on the basis of ISO 9000. An individual factory test certificate is prepared for each and every torque multiplier and contains comprehensive information on readings, deviations, torque sensors and environmental influences.
- Particularly when unloosening seized screw connections, minimised impacts on the tooth flanks appear in a low backlash planet gear. The greater the precision with which the components fit together, the more stable the overall structure and the longer the service life. This precision can only be assured by a high in-house manufacturing proportion and consistent quality checks.
- An overload safety mechanism should be integrated at torques upwards of 2000 N·m. No damage occurs to the gear should it be overloaded.

## Tip

- Raise the level of your safety in the your daily work:
- Choose a qualitatively good torque multiplier and adjust it precisely to the screw tightening situation involved.
- Do you require a competent form of consultation? Just turn to us - We would be glad to tender any advice.

| Series / Type | Accuracy | Drive | Output drive | Ratio | Reaction arm | Anti-wind-up ratchet | Overload safety mechanism: Sun gear | Overload safety mechanism: Shearing square | Overload safety mechanism: Slipper **non-destructive** | Ceramic-Teflon® coating | Range N·m tested and certificated |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | + / - | ▢ | ■ | ⚙ | | | | | | | |
| **Mechanical torque multiplier** | | | | | | | | | | | |
| DVV-13Z | 3% | 1/2" | 3/4" | 1:5 | Z | | ● | | | | 250 - 1.300 N·m |
| DVI-20L | 3% | 3/4" | 1" | 1:4 | L | | | ● | | | 500 - 2.000 N·m |
| DVI-20Z | 3% | 3/4" | 1" | 1:4 | Z | | | ● | | | 500 - 2.000 N·m |
| DVI-28L | 3% | 3/4" | 1" | 1:5,5 | L | | | ● | | | 500 - 2.800 N·m |
| DVI-28Z | 3% | 3/4" | 1" | 1:5,5 | Z | | | ● | | | 500 - 2.800 N·m |
| DVV-40Z | 3% | 1/2" | 1" | 1:16 | Z | | | | ● | ● | 500 - 4.000 N·m |
| DVV-40ZRS | 3% | 1/2" | 1" | 1:16 | Z | ● | | | ● | ● | 500 - 4.000 N·m |
| DVV-60ZRS | 3% | 3/4" | 1.1/2" | 1:18 | Z | ● | | | ● | ● | 700 - 6.000 N·m |
| DVV-80ZRS | 3% | 3/4" | 1.1/2" | 1:22 | Z | ● | | | ● | ● | 750 - 8.000 N·m |
| DVV-100ZRS | 3% | 3/4" | 1.1/2" | 1:28,5 | Z | ● | | | ● | ● | 1.000 - 10.000 N·m |
| DVV-130ZRS | 3% | 3/4" | 1.1/2" | 1:39 | Z | ● | | | ● | ● | 1.200 - 13.000 N·m |
| DVV-540RS | 3% | 3/4" | 2.1/2" | 1:175 | | ● | | | ● | ● | 7.000 - 54.000 N·m |

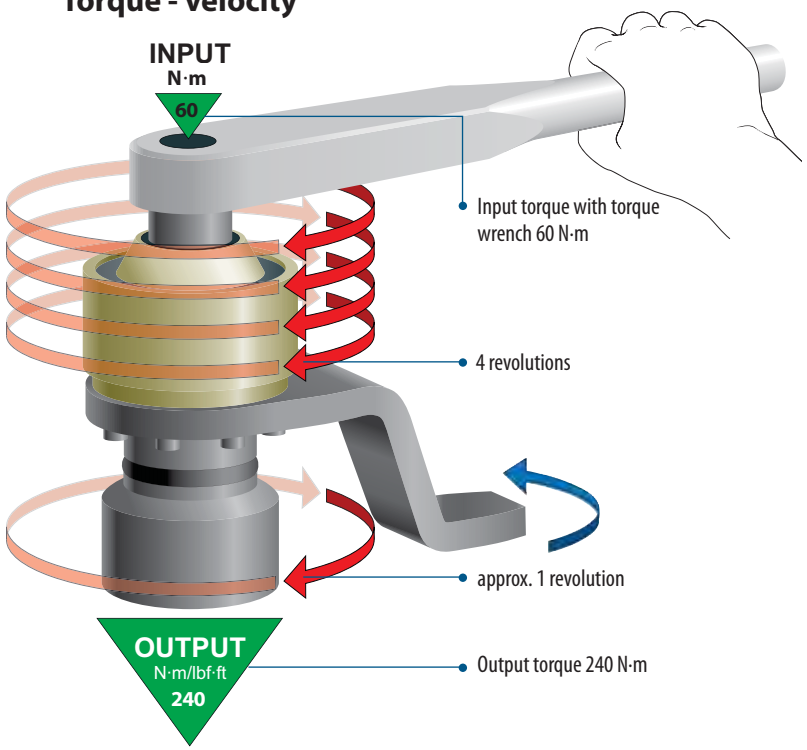
## Service-telephone

- Between 8.00 a.m. and 4.30 p.m., our customer service operators will answer all your questions about products, including technical enquiries, fast and efficiently.
- Hotline: +49 (0) 2191 596 700

## Info

- You cannot find the right appliance in this selection for your particular use?
- Do get in touch with us - Special torque multiplier sizes and special-purpose reaction arms on request.

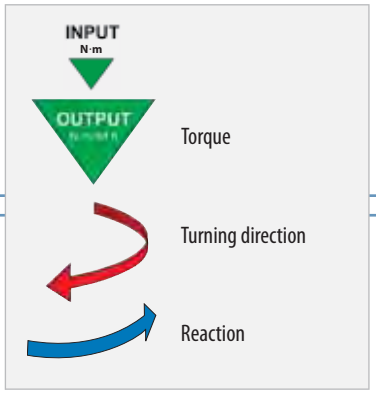
## Working principle
## Torque - velocity




The chart representation elucidates the principle of torque multiplication.
Let us assume a 60 N·m input torque and a 240 N·m output torque.
At a 1:4 ratio, 4 revolutions are needed at the input for 1 revolution with a 240 N·m torque to be obtained at the output.
This is substantiated in terms of the physical formula:

Power = torque x revolution

With gear efficiency deducted, the output power is to be considered as a constant equal to the input power.
Thus multiplication of the torque can only be obtained from an increased number of revolutions at the input.




## Working principle
## Force and reaction

When working with a torque multiplier, torsion wind-up is built up in the gear when the screw is tightened.
This stress must be reduced.
A reaction absorbed by reaction arm and abutment is produced.

**L-form reaction arm with adjustable reaction square:**
The reaction acts on the adjacent impact socket.

**Reaction arm in Z-form:**
The reaction acts on the adjacent screw connection

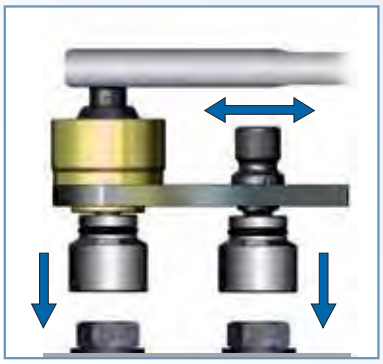
**L-form reaction arm without adjustable reaction square:**
The reaction acts on the wall.
Is possible, but the tilting moment which arises causes the max. permitted torque to drop by 20%.

## Choosing the right reaction arm
## Reaction arm Z-form

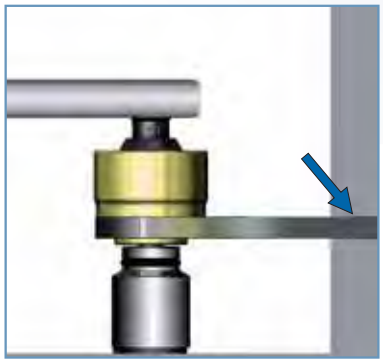
- A flexible offset reaction arm which has proved itself as the standard solution.
- Supporting situations are, for instance, adjoining screws, walls, machine parts and other stable abutments.
- This reaction arm can be ideally used where conditions are quite cramped.

## Choosing the right reaction arm
## Reaction arm L-form

- This straight reaction arm with adjustable reaction square is admirably suited for flange screw connections.
- The L-form reaction arm has in terms of support a larger radius than the Z-Form.



- The L-form is also ideal for those points above the screw-tightening level. However, the resulting tilting moment causes the max. permitted torque to drop by 20%.



Special reaction arms can be obtained on request including technical advice.
Just turn to us - We would be glad to tender any advice.
Any problems you have represent our assignments!

## Choosing the right torque assembly tool for screws and nuts

- It is vital that use is made of a torque wrench complete with ratchet function (integrated or separate) for torque multipliers without anti-wind-up ratchet.
- For models with an anti-wind-up ratchet, we recommend the use of torque tools complete with ratchet function (integrated or separate) - for ease of working.

# DREMOPLUS ALU Family 1: DVV-40Z, DVV-40ZRS - DVV-540RS

1/2" or 3/4" input square

Overload safety mechanism: Non-destructive overload safety mechanism - "Slipper" - filed as a patent. Triggers overload at 10% and again clicks into place. Clockwise and anti-clockwise

Convenient: Integrated "RS" anti-wind-up ratchet for safe working. Bidirectional

Lightweight and slim: High-performance aluminium housing is 30% lighter than a steel one.

Flexible: With detachable Z-form reaction arm, can be optionally retrofitted with L-form reaction arm and adjustable reaction square

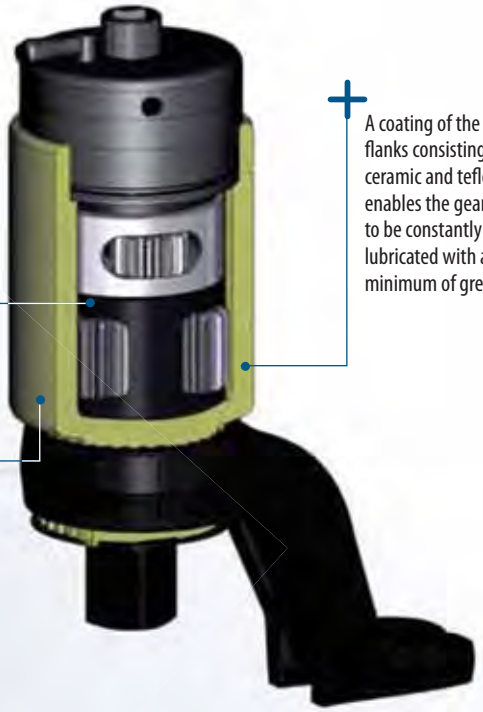
A Z-form forged reaction arm of chrome-vanadium steel absorbs any countering force that arises. Optional: L-form reaction arm on request

A 1", 1.1/2" or 2.1/2" output square with drill hole for impact sockets with safety pin and ring

100 % quality check
Safe: Delivery including factory test certificate

Easy to operate: The most common INPUT/OUTPUT torques on the torque multiplier

## Advantages
## DVV-40Z, DVV-40ZRS - DVV-540RS

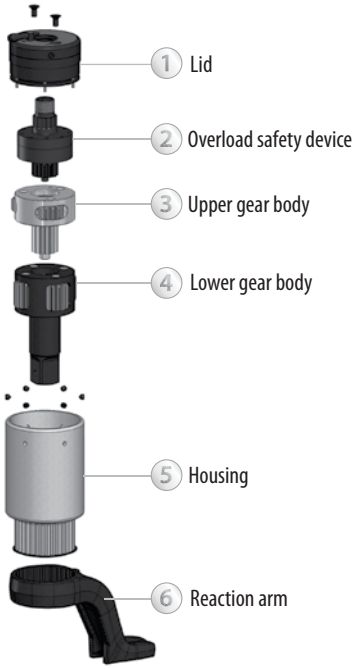


A coating of the tooth flanks consisting of ceramic and teflon enables the gear to be constantly lubricated with a minimum of grease.

Low backlash, 2-stage planet gear for a long service life

Stable, shuttle-impacted gear housing

## Construction
## DVV-40ZRS - DVV-540RS



## DVV-40Z + DVV-40ZRS

### TORQUE MULTIPLIER DREMOPLUS ALU 4000 N·m / 2930 lbf·ft

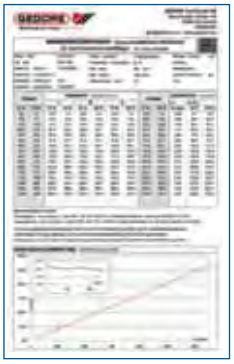
**Particularly suitable for:**
- Machinery and plant engineering
- Cable cars, lifts and masts
- Heavy industry, construction sites
- Bridge construction
- Shipbuilding, aircraft and railway construction
- Refineries, plastics industry
- Power plants of all kinds

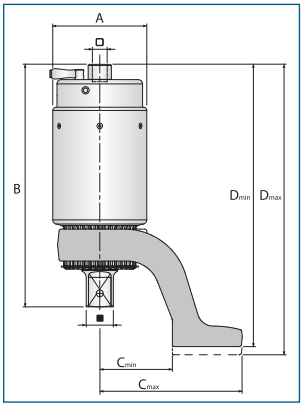
**Features:**
- Mechanical hand torque multiplier for controlled screw tightening and unloosening screw connections
- With a two-stage planet gear
- High-performance aluminium housing
- Torque multiplication ratio: 1:16, effective
- DVV-40ZRS model with anti-wind-up ratchet (RS)
- With non-destructive "Slipper" overload safety mechanism for gear protection - clockwise and anticlockwise
- Z-form, offset reaction arm depending on model made of chrome-vanadium steel
- Can be optionally retrofitted with L-form straight reaction arm - with adjustable reaction arm - of lightweight metal
- Guaranteed accuracy: Better than +/- 3 % tolerance
- For operation in combination with a torque wrench
- 2 models for a maximum load at around a max. 4000 N·m
- Output square with drill hole for impact sockets with safety pin and ring

**Scope of delivery:**
- Torque Multiplier DREMOPLUS ALU
- With Z-form offset reaction arm
- Delivery in sturdy shipping case with foam insert
- Factory test certificate and setting table
- Detailed technical information is available on request

DVV-40Z

DVV-40ZRS






| Code | No. | max. N·m-Output | max. lbf·ft-Output | •:■ | □" C | ■" D | A | B | $C_{min}$ | $C_{max}$ | $D_{min}$ | $D_{max}$ | | max. N·m-Input | max. lbf·ft-Input |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2653087 | **DVV-40Z** | 4000 | 2930 | 1:16 | 1/2 | 1 | 88 | 212 | 68 | 133 | 250 | 256 | 5.4 | 300 | 220 |
| 2653109 | **DVV-40ZRS** | 4000 | 2930 | 1:16 | 1/2 | 1 | 88 | 227 | 68 | 133 | 264 | 270 | 5.9 | 310 | 230 |

## Optional accessories

| Code | No. | Description | |
|---|---|---|---|
| 2653176 | **RZ-DVV40** | Reaction arm Z-form offset for DVV40 | 1500 |
| 2653184 | **RL-DVV40** | Reaction arm L-form straight for DVV40, 1" | 1700 |

921

541

Quantities in packs may vary.

## DVV-60ZRS - DVV-130ZRS

### TORQUE MULTIPLIER DREMOPLUS ALU 6000-13000 N·m / 4400-9530 lbf·ft

**Particularly suitable for:**

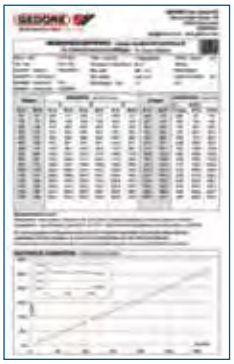
- Machinery and plant engineering
- Cable cars, lifts and masts
- Heavy industry, construction sites
- Bridge construction
- Shipbuilding, aircraft and railway construction
- Refineries, plastics industry
- Power plants of all kinds

**Features:**

- Mechanical hand torque multiplier for controlled screw tightening and unloosening screw connections
- With a two-stage planet gear
- High-performance aluminium housing
- Torque multiplication ratio: 1:18, 1:22, 1:28,5, 1:39, effective
- All models with anti-wind-up ratchet (RS)
- With non-destructive "Slipper" overload safety mechanism for gear protection - clockwise and anticlockwise
- Z-form, offset reaction arm depending on model made of chrome-vanadium steel
- Can be optionally retrofitted with L-form straight reaction arm - with adjustable reaction arm - of lightweight metal
- Guaranteed accuracy: Better than +/- 3 % tolerance
- For operation in combination with a torque wrench
- 4 models for maximum load in the range between max. 6000 N·m and max. 13000 N·m
- Output square with drill hole for impact sockets with safety pin and ring

**Scope of delivery:**

- Torque Multiplier DREMOPLUS ALU
- With Z-form offset reaction arm
- Delivery in sturdy shipping case with foam insert
- Factory test certificate and setting table
- Detailed technical information is available on request

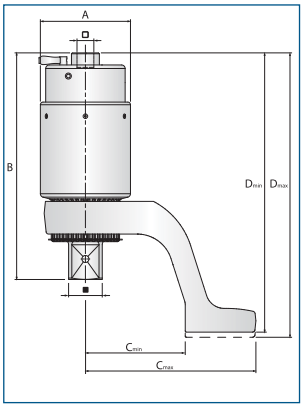


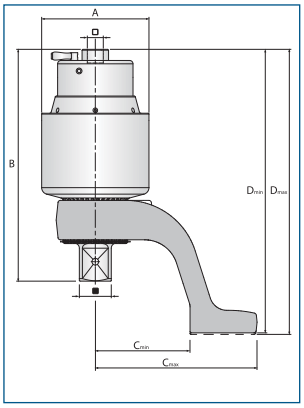
DVV-60ZRS

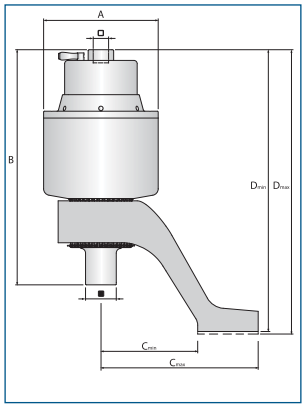
DVV-80ZRS

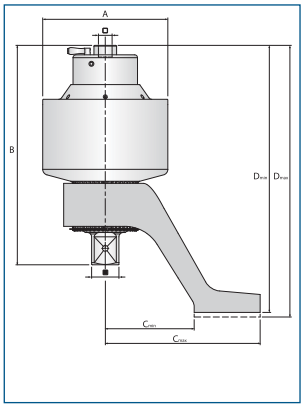
DVV-100ZRS

DVV-130ZRS




| Code | No. | max. N·m-Output | max. lbf·ft-Output | | □" C | ■" D | A | B | $C_{min}$ | $C_{max}$ | $D_{min}$ | $D_{max}$ | kg | max. N·m-Input | max. lbf·ft-Input |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2653117 | **DVV-60ZRS** | 6000 | 4400 | 1:18 | 3/4 | 1.1/2 | 102 | 257 | 110 | 190 | 316 | 324 | 10.4 | 400 | 300 |
| 2653125 | **DVV-80ZRS** | 8000 | 5870 | 1:22 | 3/4 | 1.1/2 | 128 | 277 | 110 | 190 | 338 | 342 | 13.3 | 420 | 310 |
| 2653133 | **DVV-100ZRS** | 10000 | 7330 | 1:28,5 | 3/4 | 1.1/2 | 138 | 292 | 120 | 207 | 350 | 356 | 13.7 | 410 | 305 |
| 2653141 | **DVV-130ZRS** | 13000 | 9530 | 1:39 | 3/4 | 1.1/2 | 175 | 306 | (124) | (214) | (372) | (379) | 20.7 | 380 | 280 |

## Optional accessories

| Code | No. | Description | kg |
|---|---|---|---|
| 2653192 | **RZ-DVV60** | Reaction arm Z-form offset for DVV60 | 3900 |
| 2653206 | **RZ-DVV80** | Reaction arm Z-form offset for DVV80 | 4300 |
| 2654091 | **RL-DVV60-80** | Reaction arm L-form straight for DVV60-80, 1.1/2" | 4000 |
| 2653222 | **RZ-DVV100** | Reaction arm Z-form offset for DVV100 | 3000 |
| 2653230 | **RZ-DVV130** | Reaction arm Z-form offset for DVV130 | 3900 |

Quantities in packs may vary.

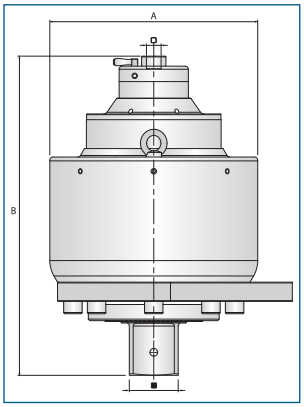
## DVV-540RS

### TORQUE MULTIPLIER DREMOPLUS ALU 54000 N·m / 40330 lbf·ft

**Particularly suitable for:**
- Heavy industry
- Oil industry
- Petrochemicals

**Features:**
- Mechanical hand torque multiplier for controlled screw tightening and unloosening screw connections
- With a three-stage planet gear
- High-performance aluminium housing
- Chrome-vanadium steel reaction arm
- Multiplication at the ratio of 1:175, effective
- With anti-wind-up ratchet (RS)
- With non-destructive "Slipper" overload safety mechanism for gear protection - clockwise and anticlockwise
- With fixture for welding on a reaction arm (optional)
- Guaranteed accuracy: Better than +/- 3 % tolerance
- For operation in combination with a torque wrench
- 1 model for a maximum load of around a max. 54000 N·m
- Output square with drill hole for impact sockets with safety pin and ring

**Scope of delivery:**
- Torque Multiplier DREMOPLUS ALU
- Delivery in a sturdy crate on pallet
- Setting table
- Detailed technical information is available on request



| Code | No. | max. N·m-Output | max. lbf·ft-Output | | □" C | ■" D | A | B | | max. N·m-Input | max. lbf·ft-Input |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2653168 | **DVV-540RS** | 54000 | 40330 | 1:175 | 3/4 | 2.1/2 | 270 | 415 | 64.4 | 380 | 280 |

## 8563-10 • 754

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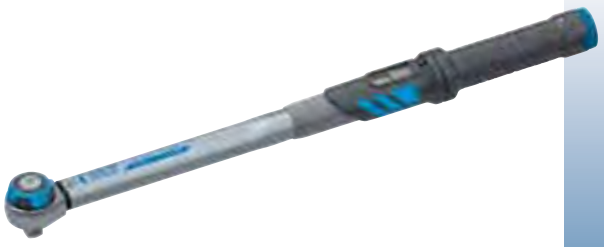
268

- Special reaction arms can be obtained on request including technical advice.
- Just turn to us - We would be glad to tender any advice.
- Any problems you have represent our assignments!

## DMK 3/4" DREMASTER

276



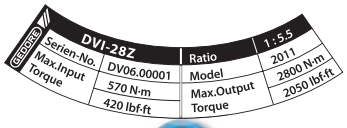
## K 37 • K 64

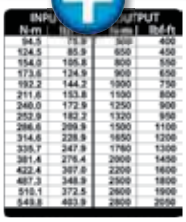
242
243

Quantities in packs may vary.

## DREMOPLUS ALU Family 2: DVI-20L/Z and DVI-28L/Z

100 % quality check
Safe: Delivery including factory test certificate





Easy to operate: The most common INPUT/OUTPUT torques on the torque multiplier

3/4" input square

Low backlash, single-stage planet gear for a long service life

Output square 3/4" and 1" with drill hole for impact sockets with safety pin and ring

Lightweight: High-performance aluminium housing is 30 % lighter than a steel one.

A Z-form forged reaction arm of chrome-vanadium steel absorbs any countering force that arises.

Overload safety mechanism achieved from a classic shearing square

### DVI-20Z and DVI-28Z

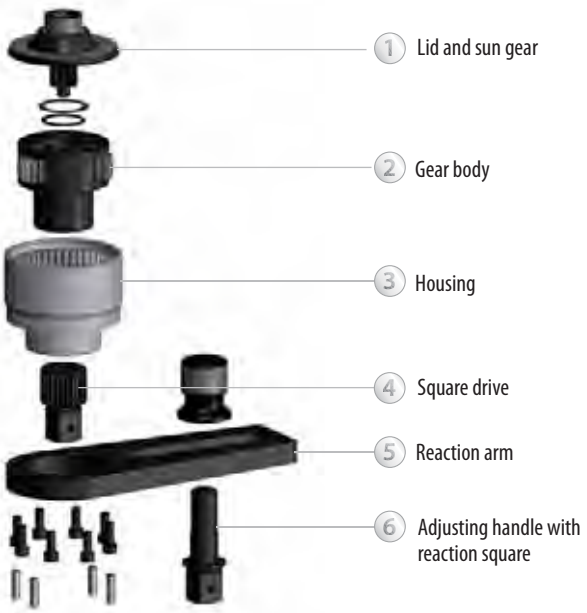
Reaction arm Z-form offset
fix integrated

### DVI-20L and DVI-28L

Reaction arm L-form with adjustable reaction square drive
fix integrated

### Construction DVI-Z

### Construction DVI-L






Quantities in packs may vary.

## DVI-20L/Z + DVI-28L/Z

### TORQUE MULTIPLIER DREMOPLUS ALU 2000-2800 N·m / 1500-2050 lbf·ft

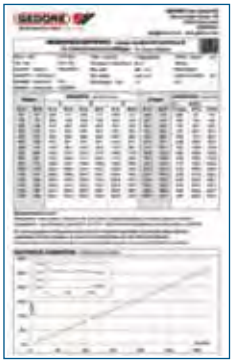
**Particularly suitable for:**
- Industry, construction sites, car and truck garages, agricultural technology, construction machinery
- Bridge, aircraft and railway construction, shipbuilding, refineries
- Machinery and plant engineering, maintenance

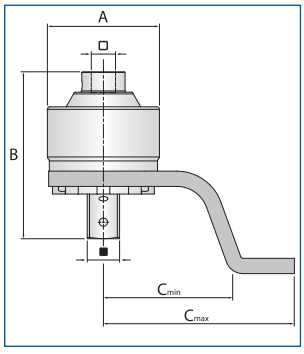
**Features:**
- Mechanical hand torque multiplier for controlled screw tightening and unloosening screw connections
- With a single-stage planet gear
- High-performance aluminium housing
- Multiplication at the ratio of 1:4, 1:5,5, effective
- Guaranteed accuracy: Better than +/- 3 % tolerance
- For operation in combination with a torque wrench
- 2 models for maximum load in the range between max. 2000 N·m and 2800 N·m
- Z model: with Z-form, offset reaction arm of chrome-vanadium steel
- L model: with L-form straight reaction arm - with adjustable reaction square - of lightweight metal
- Output square with drill hole for impact sockets with safety pin and ring

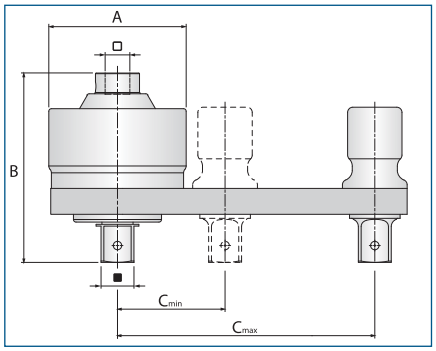
**Scope of delivery:**
- Torque Multiplier DREMOPLUS ALU
- With firmly integrated reaction arm of an L- or Z-form depending on model
- Delivery in sturdy shipping case with foam insert
- Factory test certificate and setting table
- Detailed technical information is available on request

DVI-28Z

DVI-28L






| Code | No. | max. N·m-Output | max. lbf·ft-Output | ⇔ | □" C | ■" D | A | B | $C_{min}$ | $C_{max}$ | | max. N·m-Input | max. lbf·ft-Input |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2653249 | **DVI-20L** | 2000 | 1500 | 1:4 | 3/4 | 1 | 88 | 131 | 78 | 106 | 2.5 | 580 | 430 |
| 2653257 | **DVI-28L** | 2800 | 2050 | 1:5,5 | 3/4 | 1 | 106 | 146 | 93 | 199 | 3.4 | 550 | 410 |
| 2653265 | **DVI-20Z** | 2000 | 1500 | 1:4 | 3/4 | 1 | 88 | 131 | 102 | 150 | 2.9 | 580 | 430 |
| 2653273 | **DVI-28Z** | 2800 | 2050 | 1:5,5 | 3/4 | 1 | 106 | 146 | 100 | 150 | 3.9 | 550 | 410 |

## Optional accessories

| Code | No. | Description | |
|---|---|---|---|
| 2653281 | **RZ-DVI20** | Reaction arm Z-form offset for DVI20 | 1100 |
| 2653303 | **RL-DVI20** | Reaction arm L-form straight for DVI20, 1" | 1200 |
| 2653346 | **E-VKT-DVI20** | Spare square 1" for DVI20 | 300 |
| 2653311 | **RZ-DVI28** | Reaction arm Z-form offset for DVI28 | 1500 |
| 2653338 | **RL-DVI28** | Reaction arm L-form straight for DVI28, 1" | 1700 |
| 2670526 | **E-VKR-DVI28** | Spare square 1" incl. ring for DVI28 | 500 |

K 21

241

Quantities in packs may vary.

# DREMOPLUS ALU Family 3: DVV-13Z

1/2" input square

Low backlash, single-stage planet gear for a long service life

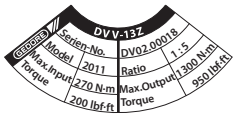
3/4"output square with drill hole for impact sockets with safety pin and ring

Lightweight: High-performance aluminium housing is 30 % lighter than a steel one.

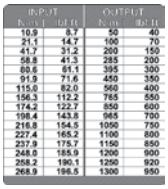
Flexible: With detachable Z-form reaction arm; can be optionally retrofitted with long reaction arm incorporating an adjustable reaction square (L-form) of lightweight metal

Forged reaction arm absorbs any counter force arising.

## Construction DVV-13Z




100 % quality check
Safe: Delivery including factory test certificate



Easy to operate: The most common INPUT/OUTPUT torques on the torque multiplier

## DVV-13Z

### TORQUE MULTIPLIER DREMOPLUS ALU 1300 N·m / 950 lbf·ft

**Particularly suitable for:**

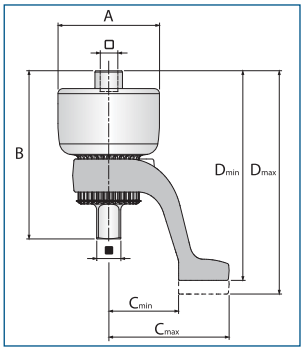
- Industry, construction sites, car and truck garages, agricultural technology
- Bridge, aircraft and railway construction, shipbuilding, refineries
- Machinery and plant engineering, maintenance

**Features:**

- Mechanical hand torque multiplier for controlled screw tightening and unloosening screw connections
- With a single-stage planet gear
- High-performance aluminium housing
- With Z-form offset reaction arm of chrome-vanadium steel
- Can be optionally retrofitted with L-form straight reaction arm - with adjustable reaction arm - of lightweight metal
- Multiplication at the ratio of 1:5, effective
- Guaranteed accuracy: Better than +/- 3 % tolerance
- For operation in combination with a torque wrench
- 1 model for a maximum load of around a max. 1300 N·m
- Also available as set (No. DVV-13ZG) with three different impact sockets - sizes 27, 30, 32 mm
- Output square with drill hole for impact sockets with safety pin and ring

**Scope of delivery:**

- Torque Multiplier DREMOPLUS ALU
- With Z-form offset reaction arm
- Delivery in sturdy shipping case with foam insert
- Factory test certificate and setting table
- Detailed technical information is available on request




3/4"

± 3 %

| Code | No. | max. N·m-Output | max. lbf·ft-Output | •:● | □" | ■" | A | B | $C_{min}$ | $C_{max}$ | $D_{min}$ | $D_{max}$ | | max. N·m-Input | max. lbf·ft-Input |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2653370 | **DVV-13Z** | 1300 | 950 | 1:5 | 1/2 | 3/4 | 80 | 133 | 56 | 95 | 165 | 173 | 1.9 | 270 | 200 |

| Code | No. | Contents | max. N·m-Output | max. lbf·ft-Output | •:● | □" | ■" | A | B | $C_{min}$ | $C_{max}$ | $D_{min}$ | $D_{max}$ | | max. N·m-Input | max. lbf·ft-Input |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2653389 | **DVV-13ZG** | **DVV-13Z**<br>**K 32** 27<br>**K 32** 30 **K 32** 32 | 1300 | 950 | 1:5 | 1/2 | 3/4 | 80 | 133 | 56 | 95 | 165 | 173 | 3.0 | 270 | 200 |

## Optional accessories

| Code | No. | Description | |
|---|---|---|---|
| 2653400 | **RL-DVV13** | Reaction arm L-form straight for DVV-13Z, 3/4" | 700 |
| 2653397 | **RZ-DVV13** | Reaction arm Z-form offset for DVV-13Z | 600 |
| 2684233 | **E-S-DVV13** | Sun gear for DVV-13Z | 90 |



Quantities in packs may vary.

# SERVICE PLUS -
# the GEDORE maintenance offensive!
# 3 years

- Your safety is a top priority with us in the matter of technically demanding products involving the action of high forces
- The GEDORE trademark is synonymous with maximum quality demands which our guarantee extension affords proof of.
- A 3-year guarantee holds good on all the latest generation GEDORE torque multipliers!
- The GEDORE guarantee starts on the date of purchase and equipment registration undertaken at the same time.

## The GEDORE maintenance service - one promoting service life and safety

- Regular maintenance can considerably lengthen the service life of your GEDORE torque multiplier and also contribute to your safety.
- A rewarding service step that we provide for you every year free of charge.
- Maintenance involves our qualified personnel examining the individual components, testing their functional precision and verifying the factory certificate.
- The price of any repairs needed when maintenance is undertaken depends on actual outlay.
- In such an instance, we would willingly draft an estimate for you.
- We will. of course, continue to support you should you have any questions on and problems with the former DREMOPLUS models - **just get in touch with us !**
- Should a guarantee case arise - then either hand in the appliance to your dealer - who will concern himself with what is then to follow - or send it directly for repairs to the Lösomat manufacturer or the nearest GEDORE agency.

## Service-telephone

- Between 8.00 a.m. and 4.30 p.m., our customer service operators will answer all your questions about products, including technical enquiries, fast and efficiently.
- Hotline: +49 (0) 2191 596 700

10
8
6
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2,5
2
GEDORE

**for extra power + the perfect drive**


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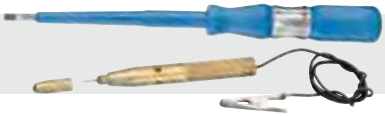
VOLTAGE TESTER 353



VARIOUS 353

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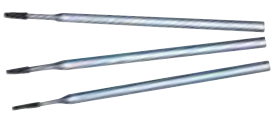


# DREMO PLUS 3C

## designed for extra strength and durability!

### Features

Advantages

The soft component in the rear part of the handle. It permits the full force of the hand to be employed in turning the screwdriver and prevents early tiredness when the tool is used continually.

Seized screws are loosened by gently knocking on the striking cap. The striking cap transfers the impact energy to the blade by means of a special damping system so that it is easy on the hands and prevents bounce.

The robust core is in the inside of the handle. It absorbs the force from the outer components and transfers it safely to the shaft.

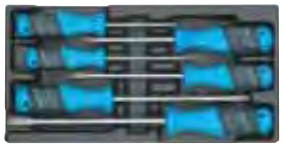
The hard component in the front part of the handle has been designed to make fast turning with low resistance much easier. The hexagonal geometry of the non-slip protection also ensures a safe position of the screwdriver on sloping surfaces. The non-slip protection prevents the hand from a sudden slipping off down onto the workpiece, and thus avoids painful bruises.

In the case of stubborn screws, the forged-on hexagon bolster permits an increase in the torque with the use of an adjustable spanner. Only screwdrivers 2154SK, 2160SK and 2154.

The blade in chrome vanadium steel is fully hardened over the whole length and thus fulfills all the requirements for safe working.

**Good torque transfer, irrespective of hand size**

- Head marking for specifically and rapidly accessing the right screwdriver
- Colour code of the drive type



108

560

548

# 3C-SCREWDRIVER

## 2150

### 3C-SCREWDRIVER for slotted head screws

- Acc. to DIN ISO 2380-2, blade tip acc. to DIN ISO 2380-1 Form A
- Blade in vanadium plus steel, chrome-plated
- 3-component handle with hanging hole

| Code | No. | mm | mm | Ø | | | | |
|---|---|---|---|---|---|---|---|---|
| 6679270 | **2150 3** | 0.5 | 3.0 | 3 | 80 | 160 | 30 | 10 |
| 6679350 | **2150 4** | 0.8 | 4.0 | 4 | 100 | 190 | 52 | 10 |
| 6679430 | **2150 5,5** | 1.0 | 5.5 | 5 | 125 | 225 | 79 | 10 |
| 6679510 | **2150 6,5** | 1.2 | 6.5 | 6 | 150 | 260 | 110 | 10 |
| 6679780 | **2150 8** | 1.2 | 8.0 | 7 | 175 | 295 | 150 | 10 |
| 6679860 | **2150 10** | 1.6 | 10.0 | 8 | 200 | 320 | 183 | 10 |
| 6679940 | **2150 12** | 2.0 | 12.0 | 9 | 250 | 370 | 237 | 10 |
| 1828673 | **2150 14** | 2.5 | 14.0 | 11 | 250 | 370 | 309 | 10 |

## 2150

### 3C-SCREWDRIVER for slotted head screws, special lengths

- With parallel blade, apart from length 300/400
- Blade tip acc. to DIN ISO 2380-1 Form B
- Blade in vanadium plus steel
- 3-component handle with hanging hole
- * not standardised

| Code | No. | * | mm | mm | Ø | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 6680010 | **2150 3-100** | | 0.5 | 3.0 | 3,0 | 100 | 180 | 32 | 10 |
| 6680280 | **2150 3-150** | * | 0.5 | 3.0 | 3,0 | 150 | 230 | 35 | 10 |
| 6680360 | **2150 4-150** | * | 0.8 | 4.0 | 4,0 | 150 | 240 | 60 | 10 |
| 6680440 | **2150 5,5-100** | | 1.0 | 5.5 | 5,5 | 100 | 200 | 77 | 10 |
| 6680520 | **2150 5,5-150** | | 1.0 | 5.5 | 5,5 | 150 | 250 | 90 | 10 |
| 6680600 | **2150 5,5-250** | * | 1.0 | 5.5 | 5,5 | 250 | 350 | 111 | 10 |
| 6680790 | **2150 6,5-100** | | 1.2 | 6.5 | 6,5 | 100 | 210 | 108 | 10 |
| 6680870 | **2150 6,5-200** | * | 1.2 | 6.5 | 6,5 | 200 | 310 | 134 | 10 |
| 1646478 | **2150 6,5-300** | * | 1.2 | 6.5 | 6,0 | 300 | 410 | 14 | 10 |
| 1646486 | **2150 6,5-400** | * | 1.2 | 6.5 | 6,0 | 400 | 510 | 16 | 10 |
| 6680950 | **2150 8-125** | | 1.2 | 8.0 | 8,0 | 125 | 245 | 152 | 10 |
| 6681090 | **2150 8-225** | * | 1.2 | 8.0 | 8,0 | 225 | 345 | 194 | 10 |
| 1646494 | **2150 8-300** | * | 1.2 | 8.0 | 8,0 | 300 | 420 | 21 | 10 |
| 1646508 | **2150 8-400** | * | 1.2 | 8.0 | 8,0 | 400 | 520 | 25 | 10 |
| 6681170 | **2150 10-150** | | 1.6 | 10.0 | 10,0 | 150 | 270 | 210 | 10 |
| 6681840 | **2150 10-250** | * | 1.6 | 10.0 | 10,0 | 250 | 370 | 273 | 10 |

## 2153

### SCREWDRIVER for slotted head screws, stubby

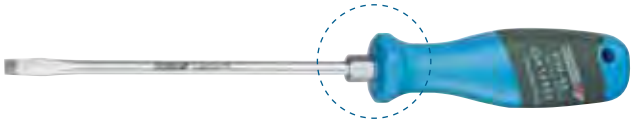
- Acc. to DIN ISO 2380-2A, blade tip acc. to DIN ISO 2380-1 Form B
- Blade in vanadium plus steel, chrome-plated
- 1-component handle, blue, with hanging hole

| Code | No. | mm | mm | Ø | | | | |
|---|---|---|---|---|---|---|---|---|
| 1531174 | **2153 4** | 0.8 | 4.0 | 4,0 | 25 | 75 | 31 | 10 |
| 1482432 | **2153 5,5** | 1.0 | 5.5 | 5,5 | 25 | 75 | 36 | 10 |
| 1531182 | **2153 6,5** | 1.2 | 6.5 | 6,5 | 25 | 75 | 39 | 10 |
| 1531190 | **2153 8** | 1.2 | 8.0 | 8,0 | 25 | 75 | 44 | 10 |

## 2154

### 3C-SCREWDRIVER for slotted head screws

- Blade with hexagon bolster
- Acc. to DIN ISO 2380-2, blade tip acc. to DIN ISO 2380-1 Form A
- Blade in vanadium plus steel, chrome-plated
- 3-component handle with hanging hole
- * not standardised



| Code | No. | * | mm | mm | Ø | | | mm | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1828681 | **2154 3,5** | | 0.6 | 3.5 | 4 | 75 | 180 | 8 | 66 | 10 |
| 6682490 | **2154 4,5** | * | 0.8 | 4.5 | 5 | 100 | 200 | 8 | 73 | 10 |
| 6682570 | **2154 5,5** | | 1.0 | 5.5 | 5 | 100 | 200 | 8 | 75 | 10 |
| 6682650 | **2154 6,5** | | 1.2 | 6.5 | 6 | 125 | 235 | 10 | 109 | 10 |
| 6682730 | **2154 8** | | 1.2 | 8.0 | 7 | 150 | 270 | 13 | 152 | 10 |
| 6682810 | **2154 10** | | 1.6 | 10.0 | 8 | 175 | 295 | 13 | 180 | 10 |
| 6683030 | **2154 12** | | 2.0 | 12.0 | 9 | 200 | 320 | 16 | 227 | 10 |
| 1531158 | **2154 14** | | 2.5 | 14.0 | 11 | 250 | 370 | 16 | 332 | 10 |

## 2170

### 3C-SCREWDRIVER for slotted head screws, insulated blade

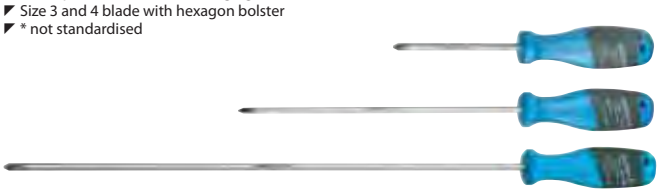
- Acc. to DIN ISO 2380-2, blade tip acc. to DIN ISO 2380-1 Form B
- Blade in vanadium plus steel, chrome-plated
- 3-component handle with hanging hole

| Code | No. | mm | mm | Ø | | | | |
|---|---|---|---|---|---|---|---|---|
| 6678700 | **2170 2,5** | 0.4 | 2.5 | 2,5 | 75 | 155 | 28 | 10 |
| 6678890 | **2170 3** | 0.5 | 3.0 | 3,0 | 75 | 155 | 30 | 10 |
| 6678970 | **2170 4** | 0.8 | 4.0 | 4,0 | 100 | 190 | 53 | 10 |
| 6679000 | **2170 5,5** | 1.0 | 5.5 | 5,5 | 125 | 225 | 88 | 10 |
| 6679190 | **2170 6,5** | 1.2 | 6.5 | 6,5 | 150 | 260 | 123 | 10 |

## 2160 PH

### 3C-SCREWDRIVER for cross-slotted head screws PH

- Acc. to DIN ISO 8764, tip acc. to DIN ISO 8764-1 PH
- Blade in vanadium plus steel, chrome-plated
- 3-component handle with hanging hole
- Size 3 and 4 blade with hexagon bolster
- * not standardised



| Code | No. | * | PH | M | Ø | | | mm | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6683110 | **2160 PH 0** | | 0 | M1,6 - M2 | 3,0 | 60 | 140 | | 293 | 10 |
| 6683380 | **2160 PH 1** | | 1 | M2 - M3 | 4,5 | 80 | 180 | | 66 | 10 |
| 6683700 | **2160 PH 1-200** | | 1 | M2 - M3 | 4,5 | 200 | 300 | | 152 | 10 |
| 6683460 | **2160 PH 2** | | 2 | M3,5 - M5 | 6,0 | 100 | 210 | | 101 | 10 |
| 6683890 | **2160 PH 2-200** | | 2 | M3,5 - M5 | 6,0 | 200 | 310 | | 146 | 10 |
| 1646516 | **2160 PH 2-300** | * | 2 | M3,5 - M5 | 6,0 | 300 | 410 | | 14 | 10 |
| 1646524 | **2160 PH 2-400** | * | 2 | M3,5 - M5 | 6,0 | 400 | 510 | | 158 | 10 |
| 6683540 | **2160 PH 3** | | 3 | M5,5 - M7 | 8,0 | 150 | 270 | 13 | 172 | 10 |
| 6683620 | **2160 PH 4** | | 4 | M8 - M10 | 10,0 | 200 | 320 | 16 | 254 | 10 |

## 2161 PH

### SCREWDRIVER for cross-slotted head screws PH, stubby

- Acc. to DIN ISO 8764, tip acc. to DIN ISO 8764-1 PH
- Blade in vanadium plus steel, chrome-plated
- 1-component handle, blue, with hanging hole

| Code | No. | PH | M | Ø | | | | |
|---|---|---|---|---|---|---|---|---|
| 1482440 | **2161 PH 1** | 1 | M2 - M3 | 4,5 | 25 | 75 | 33 | 10 |
| 1531204 | **2161 PH 2** | 2 | M3,5 - M5 | 6,0 | 25 | 75 | 36 | 10 |

Quantities in packs may vary.

## 2160 PZ

### 3C-SCREWDRIVER for cross-slotted head screws PZ

- Acc. to DIN ISO 8764, tip acc. to DIN ISO 8764-1 PZ
- Blade in vanadium plus steel, chrome-plated
- 3-component handle with hanging hole
- Size 3 and 4 blade with hexagon bolster

| Code | No. | PZ | M | Ø | | | mm | | |
|---|---|---|---|---|---|---|---|---|---|
| 6683970 | **2160 PZ 0** | 0 | M1,6 - M2 | 3,0 | 60 | 140 | | 29 | 10 |
| 6684000 | **2160 PZ 1** | 1 | M2 - M3 | 4,5 | 80 | 180 | | 65 | 10 |
| 6684190 | **2160 PZ 2** | 2 | M3,5 - M5 | 6,0 | 100 | 210 | | 101 | 10 |
| 6684270 | **2160 PZ 3** | 3 | M5,5 - M7 | 8,0 | 150 | 270 | 13 | 169 | 10 |
| 6684350 | **2160 PZ 4** | 4 | M8 - M10 | 10,0 | 200 | 320 | 16 | 253 | 10 |

## 2161 PZ

### SCREWDRIVER for cross-slotted head screws PZ, stubby

- Acc. to DIN ISO 8764, tip acc. to DIN ISO 8764-1 PZ
- Blade in vanadium plus steel, chrome-plated
- 1-component handle, blue, with hanging hole

| Code | No. | PZ | M | Ø | | | | |
|---|---|---|---|---|---|---|---|---|
| 1550608 | **2161 PZ 1** | 1 | M2 - M3 | 4,5 | 25 | 75 | 32 | 10 |
| 1550616 | **2161 PZ 2** | 2 | M3,5 - M5 | 6,0 | 25 | 75 | 37 | 10 |

## 2163 BTX

### 3C-SCREWDRIVER for recessed TORX® head screws

- Blade in vanadium plus steel, chrome-plated
- 3-component handle with hanging hole
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | | M | mm | Ø | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1828703 | **2163 BTX T3** | T3 | M1,2 - M1,4 | 1.13 | 3,0 | 60 | 140 | 28 | 10 |
| 1828711 | **2163 BTX T4** | T4 | M1,4 | 1.29 | 3,0 | 60 | 140 | 27 | 10 |
| 1616471 | **2163 BTX T5** | T5 | M1,8 | 1.42 | 3,0 | 60 | 140 | 28 | 10 |
| 6685400 | **2163 BTX T6** | T6 | M2 | 1.69 | 3,0 | 60 | 140 | 29 | 10 |
| 6685590 | **2163 BTX T7** | T7 | M2,5 | 1.99 | 3,0 | 60 | 140 | 29 | 10 |
| 6685670 | **2163 BTX T8** | T8 | M2,5 | 2.31 | 3,0 | 60 | 140 | 29 | 10 |
| 6685750 | **2163 BTX T9** | T9 | M3 | 2.50 | 3,0 | 60 | 140 | 29 | 10 |
| 6685830 | **2163 BTX T10** | T10 | M3 - M3,5 | 2.74 | 3,0 | 80 | 160 | 30 | 10 |
| 6685910 | **2163 BTX T15** | T15 | M3,5 - M4 | 3.27 | 3,5 | 80 | 170 | 45 | 10 |
| 6686050 | **2163 BTX T20** | T20 | M4 - M5 | 3.86 | 4,0 | 100 | 190 | 51 | 10 |
| 6686130 | **2163 BTX T25** | T25 | M4,5 - M5 | 4.43 | 4,5 | 100 | 200 | 68 | 10 |
| 6686210 | **2163 BTX T27** | T27 | M4,5 - M6 | 4.99 | 5,5 | 115 | 215 | 84 | 10 |
| 6686480 | **2163 BTX T30** | T30 | M6 - M7 | 5.52 | 6,0 | 115 | 225 | 105 | 10 |
| 6686560 | **2163 BTX T40** | T40 | M7 - M8 | 6.65 | 7,0 | 130 | 240 | 126 | 10 |
| 6686640 | **2163 BTX T45** | T45 | M8 - M10 | 7.82 | 8,0 | 130 | 250 | 156 | 10 |
| 6686720 | **2163 BTX T50** | T50 | M10 | 8.83 | 9,0 | 150 | 270 | 186 | 10 |

## 2163 TXB

### 3C-SCREWDRIVER for recessed TORX® head screws with pilot

- Blade in vanadium plus steel, chrome-plated
- 3-component handle with hanging hole
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | | M | mm | Ø | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1828738 | **2163 TXB T6** | T6 | M2 | 1.69 | 3,0 | 60 | 140 | 29 | 10 |
| 6677570 | **2163 TXB T7** | T7 | M2,5 | 1.99 | 3,0 | 60 | 140 | 25 | 10 |
| 6677650 | **2163 TXB T8** | T8 | M2,5 | 2.31 | 3,0 | 60 | 140 | 29 | 10 |
| 6677730 | **2163 TXB T9** | T9 | M3 | 2.50 | 3,0 | 60 | 140 | 29 | 10 |
| 6677810 | **2163 TXB T10** | T10 | M3 - M3,5 | 2.74 | 3,0 | 80 | 160 | 30 | 10 |
| 6678030 | **2163 TXB T15** | T15 | M3,5 - M4 | 3.27 | 3,5 | 80 | 170 | 45 | 10 |
| 6678110 | **2163 TXB T20** | T20 | M4 - M5 | 3.86 | 4,0 | 100 | 190 | 51 | 10 |
| 6678380 | **2163 TXB T25** | T25 | M4,5 - M5 | 4.43 | 4,5 | 100 | 200 | 68 | 10 |
| 6678460 | **2163 TXB T27** | T27 | M4,5 - M6 | 4.99 | 5,5 | 115 | 215 | 84 | 10 |
| 6678540 | **2163 TXB T30** | T30 | M6 - M7 | 5.52 | 6,0 | 115 | 225 | 105 | 10 |
| 6678620 | **2163 TXB T40** | T40 | M7 - M8 | 6.65 | 7,0 | 130 | 240 | 125 | 10 |

## 2163 BK

### 3C-SCREWDRIVER for in-hex screws, with ball end

- Blade in vanadium plus steel, chrome-plated
- 3-component handle with hanging hole

| Code | No. | mm | Ø | | | | |
|---|---|---|---|---|---|---|---|
| 1828746 | **2163 BK 2** | 2 | 3 | 75 | 155 | 31 | 10 |
| 6684430 | **2163 BK 3** | 3 | 4 | 75 | 155 | 36 | 10 |
| 6684510 | **2163 BK 4** | 4 | 5 | 100 | 190 | 59 | 10 |
| 6684780 | **2163 BK 5** | 5 | 6 | 100 | 200 | 86 | 10 |
| 6684860 | **2163 BK 6** | 6 | 7 | 125 | 235 | 121 | 10 |
| 6684940 | **2163 BK 8** | 8 | 10 | 150 | 270 | 210 | 10 |
| 6685080 | **2163 BK 10** | 10 | 12 | 150 | 270 | 265 | 10 |
| 6685160 | **2163 BK 12** | 12 | 14 | 160 | 280 | 349 | 10 |

# 3C-SCREWDRIVER SETS

## 2150-2160 PH

### 3C-SCREWDRIVER SET 6 pieces / 10 pieces

- Practical set composition in environmentally-friendly cardboard box
- For slotted and cross-slotted head screws PH
- Blades in vanadium plus steel, chrome-plated
- 3-component handle with hanging hole

2150-2160 PH-010

2150-2160 PH-06

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1482319 | **2150-2160 PH-06** | **2150** 4 5,5 6,5 8<br>**2160 PH** 1 2 | 660 | 1 |
| 1482343 | **2150-2160 PH-010** | **2150** 3 4 5,5 6,5 8<br>**2153** 5,5<br>**2160 PH** 1 2<br>**2161 PH** 1<br>**4615** 3,5 | 825 | 1 |



Quantities in packs may vary.

## 2154-2160 PH-07

### 3C-SCREWDRIVER SET 7 pieces

- Practical set composition in environmentally-friendly cardboard box
- For slotted and cross-slotted head screws PH
- Blade with hexagon bolster
- Blade in vanadium plus steel, chrome-plated
- 3-component handle with hanging hole

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1731149 | **2154-2160 PH-07** | ⊖ **2154** 4,5 5,5 6,5 8<br>⊕ **2160 PH** 1 2<br>⊖ **4615** 3 | 715 | 1 |

## 2150-2160 PZ-06

### 3C-SCREWDRIVER SET 6 pieces

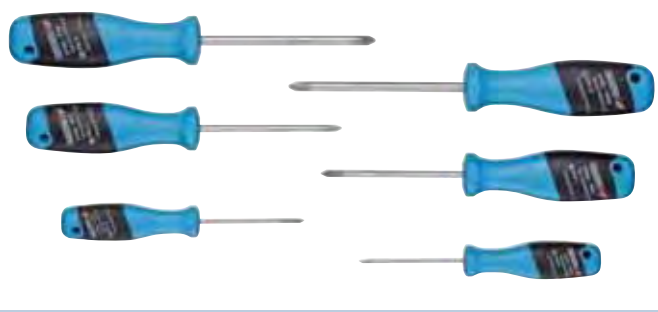
- Practical set composition in environmentally-friendly cardboard box
- For slotted and cross-slotted head screws PZ
- Blades in vanadium plus steel, chrome-plated
- 3-component handle with hanging hole

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1482300 | **2150-2160 PZ-06** | ⊖ **2150** 4 5,5 6,5 8<br>⊕ **2160 PZ** 1 2 | 670 | 1 |

## 2160 PHZ-06

### 3C-SCREWDRIVER SET 6 pieces

- Practical set composition in environmentally-friendly cardboard box
- For cross-slotted head screws PH and PZ
- Blade in vanadium plus steel, chrome-plated
- 3-component handle with hanging hole

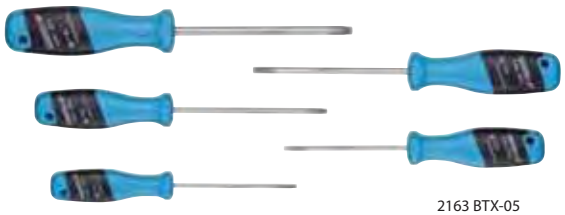


| Code | No. | Contents | | |
|---|---|---|---|---|
| 2003589 | **2160 PHZ-06** | ⊕ **2160 PH** 0 1 2<br>⊕ **2160 PZ** 0 1 2 | 344 | 1 |

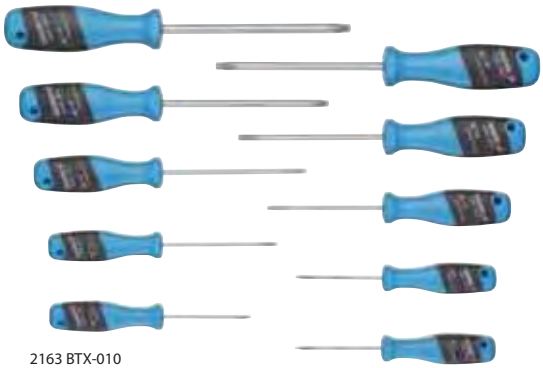
## 2163 BTX

### 3C-SCREWDRIVER SET 5 pieces / 10 pieces

- Practical set composition in environmentally-friendly cardboard box
- For recessed TORX® head screws
- Blade in vanadium plus steel, chrome-plated
- 3-component handle with hanging hole
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



2163 BTX-05



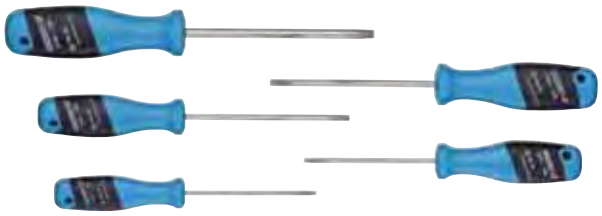
2163 BTX-010

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1482327 | **2163 BTX-05** | ✱ **2163 BTX** T10 T15 T20 T25 T30 | 435 | 1 |
| 1482335 | **2163 BTX-010** | ✱ **2163 BTX** T7 T8 T9 T10 T15 T20 T25 T27 T30 T40 | 740 | 1 |

## 2163 TXB-05

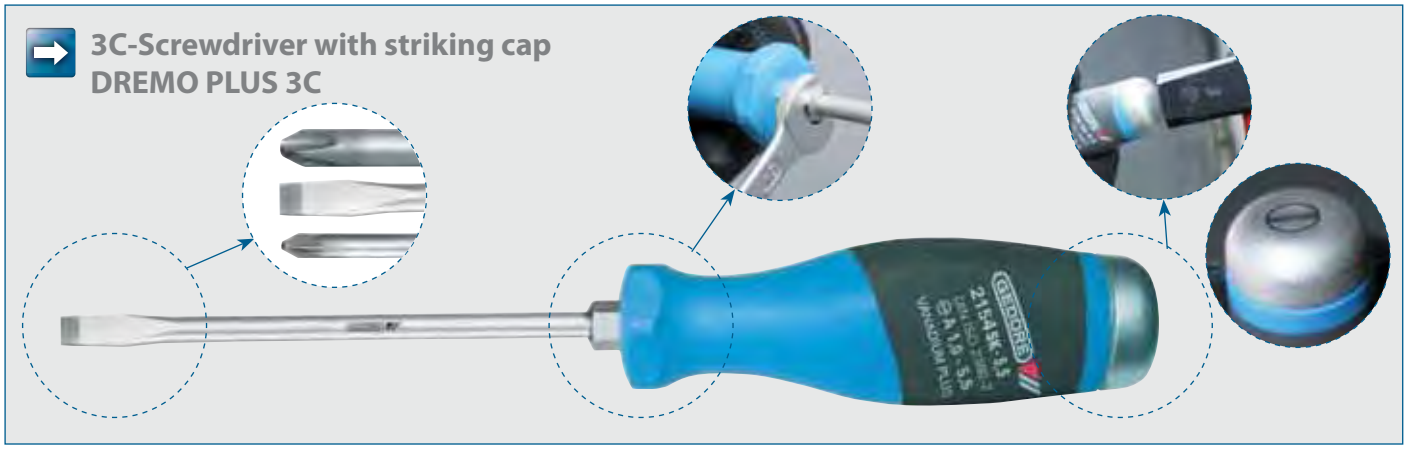
### 3C-SCREWDRIVER SET 5 pieces

- Practical set composition in environmentally-friendly cardboard box
- For recessed TORX® head screws with pilot
- Blade in vanadium plus steel, chrome-plated
- 3-component handle with hanging hole
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



| Code | No. | Contents | | |
|---|---|---|---|---|
| 1616617 | **2163 TXB-05** | ✱ **2163 TXB** T10 T15 T20 T25 T30 | 440 | 1 |

Quantities in packs may vary.




## 3C-SCREWDRIVER WITH STRIKING CAP

### 2154SK

**3C-SCREWDRIVER WITH STRIKING CAP for slotted head screws**

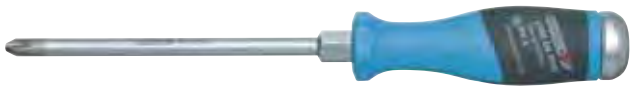
- Acc. to DIN ISO 2380-2, blade tip acc. to DIN ISO 2380-1 Form A
- Blade with hexagon bolster
- Blade in vanadium plus steel, chrome-plated
- 3-component handle

| Code | No. | | | Ø | | | mm | | |
|---|---|---|---|---|---|---|---|---|---|
| 1845209 | **2154SK 3,5** | 0.6 | 3.5 | 4 | 75 | 180 | 8 | 86 | 1 |
| 1845217 | **2154SK 4,5** | 0.8 | 4.5 | 5 | 90 | 195 | 8 | 90 | 1 |
| 1845225 | **2154SK 5,5** | 1.0 | 5.5 | 5 | 100 | 205 | 8 | 92 | 1 |
| 1845233 | **2154SK 6,5** | 1.2 | 6.5 | 6 | 125 | 245 | 10 | 154 | 1 |
| 1845241 | **2154SK 8** | 1.2 | 8.0 | 7 | 150 | 270 | 13 | 178 | 1 |
| 1845268 | **2154SK 10** | 1.6 | 10.0 | 8 | 175 | 295 | 13 | 214 | 1 |
| 1845276 | **2154SK 12** | 2.0 | 12.0 | 9 | 200 | 320 | 16 | 260 | 1 |
| 1845284 | **2154SK 14** | 2.5 | 14.0 | 11 | 200 | 320 | 16 | 324 | 1 |

### 2160SK PH

**3C-SCREWDRIVER WITH STRIKING CAP for cross-slotted head screws PH**

- Acc. to DIN ISO 8764, tip acc. to DIN ISO 8764-1 PH
- Blade with hexagon bolster
- Blade in vanadium plus steel, chrome-plated
- 3-component handle



| Code | No. | PH | M | Ø | | | mm | | |
|---|---|---|---|---|---|---|---|---|---|
| 1845292 | **2160SK PH 1** | 1 | M2 - M3 | 4 | 80 | 185 | 8 | 86 | 1 |
| 1845306 | **2160SK PH 2** | 2 | M3,5 - M5 | 6 | 120 | 220 | 10 | 148 | 1 |
| 1845314 | **2160SK PH 3** | 3 | M5,5 - M7 | 8 | 150 | 270 | 13 | 204 | 1 |
| 1845322 | **2160SK PH 4** | 4 | M8 - M10 | 10 | 200 | 320 | 16 | 292 | 1 |

### 2160SK PZ

**3C-SCREWDRIVER WITH STRIKING CAP for cross-slotted head screws PZ**

- Acc. to DIN ISO 8764, tip acc. to DIN ISO 8764-1 PZ
- Blade with hexagon bolster
- Blade in vanadium plus steel, chrome-plated
- 3-component handle

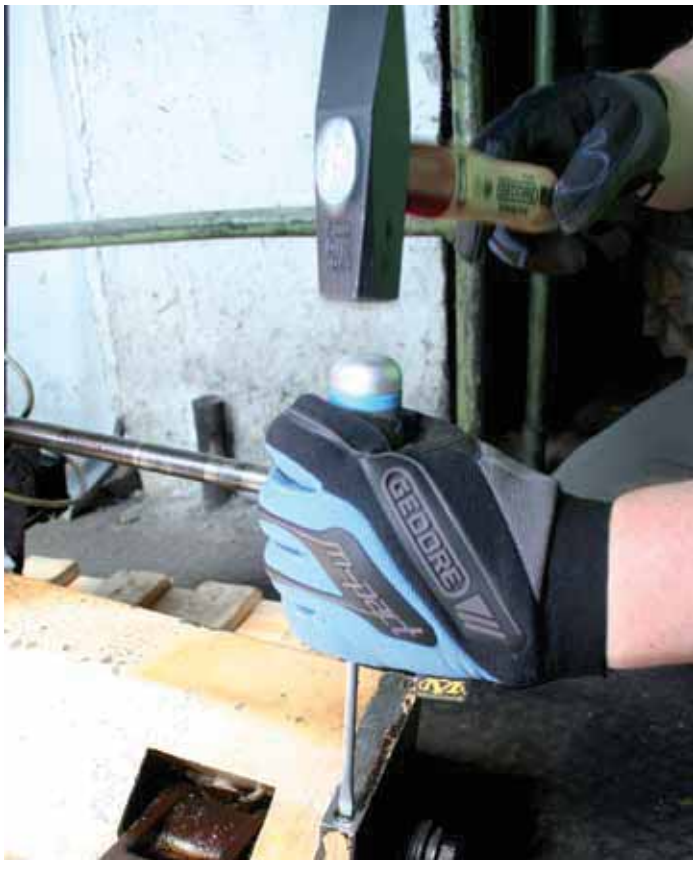
| Code | No. | PZ | M | Ø | | | mm | | |
|---|---|---|---|---|---|---|---|---|---|
| 1845330 | **2160SK PZ 1** | 1 | M2 - M3 | 4 | 80 | 185 | 8 | 86 | 1 |
| 1845349 | **2160SK PZ 2** | 2 | M3,5 - M5 | 6 | 120 | 220 | 10 | 148 | 1 |
| 1845357 | **2160SK PZ 3** | 3 | M5,5 - M7 | 8 | 150 | 270 | 13 | 206 | 1 |
| 1845365 | **2160SK PZ 4** | 4 | M8 - M10 | 10 | 200 | 320 | 16 | 292 | 1 |

### SK 2154 PH-06

**3C-SCREWDRIVER SET WITH STRIKING CAP 6 pieces**

- Practical set composition in environmentally-friendly cardboard box
- For firmly seated slotted and cross-slotted head screws PH
- Blade with hexagon bolster
- Blade in vanadium plus steel, chrome-plated
- 3-component handle

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1878743 | **SK 2154 PH-06** | **2154SK** 4,5 5,5 6,5 8<br>**2160SK PH** 1 2 | 880 | 1 |





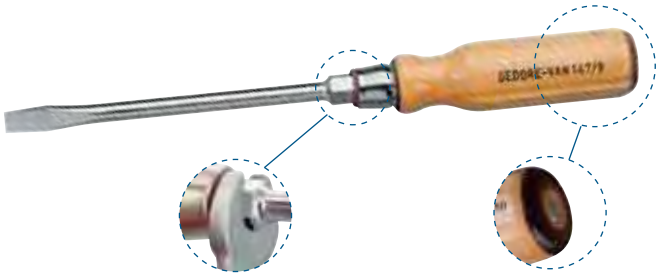
Quantities in packs may vary.

# SCREWDRIVER WITH WOODEN HANDLE

## 147

### SCREWDRIVER for slotted head screws

- Similar to DIN ISO 2380-2 Row B+C, blade tip acc. to DIN ISO 2380-1 Form A
- Blade tanged right through the handle, chrome-plated
- GEDORE vanadium steel 50CrV4
- Hardwood handle, clear varnished with leather cap
- Hexagon bolster for higher transmission of force

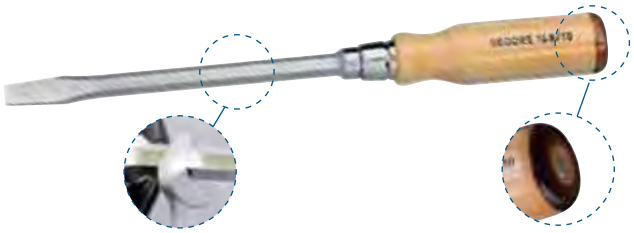


| Code | No. | mm | mm | | | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6413830 | **147 3,5** | 3.5 | 0.6 | 75 | 170 | 6 | 55 | 5 |
| 6413910 | **147 4,5** | 4.5 | 0.8 | 90 | 185 | 6 | 59 | 5 |
| 6414050 | **147 5,5** | 5.5 | 1.0 | 100 | 200 | 8 | 73 | 10 |
| 6414130 | **147 7** | 7.0 | 1.2 | 125 | 235 | 10 | 112 | 10 |
| 6414210 | **147 9** | 9.0 | 1.4 | 150 | 270 | 12 | 166 | 10 |
| 6414480 | **147 10** | 10.0 | 1.6 | 175 | 300 | 12 | 192 | 5 |
| 6414560 | **147 12** | 12.0 | 2.0 | 200 | 330 | 13 | 250 | 5 |

## 148

### SCREWDRIVER for slotted head screws

- Similar to DIN ISO 2380-2 Row B+C, blade tip acc. to DIN ISO 2380-1 Form A
- Hexagon blade with forged bolster for higher transmission of force
- Blade tanged right through the handle, chrome-plated
- GEDORE vanadium steel 50CrV4
- Hardwood handle, clear varnished with leather cap



| Code | No. | mm | mm | | | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6415020 | **148 5,5** | 5.5 | 0.8 | 100 | 200 | 6 | 83 | 5 |
| 6415100 | **148 7** | 7.0 | 1.0 | 125 | 230 | 7 | 123 | 5 |
| 6415290 | **148 8** | 8.0 | 1.2 | 150 | 270 | 8 | 174 | 5 |
| 6415370 | **148 10** | 10.0 | 1.6 | 175 | 300 | 8 | 233 | 5 |
| 6415450 | **148 12** | 12.0 | 2.0 | 200 | 330 | 12 | 381 | 5 |
| 6415530 | **148 14** | 14.0 | 2.5 | 250 | 390 | 12 | 478 | 5 |

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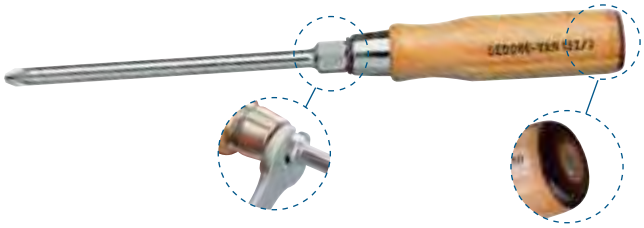
## 162

### SCREWDRIVER for cross-slotted head screws PH

- Similar to DIN ISO 8764-2, tip acc. to DIN ISO 8764-1 PH
- Blade tanged right through the handle, chrome-plated
- GEDORE vanadium steel 50CrV4
- Hardwood handle, clear varnished with leather cap
- Hexagon bolster for higher transmission of force



| Code | No. | PH | M | | | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6429400 | **162 1** | 1 | M 2 - M 3 | 80 | 180 | 6 | 58 | 5 |
| 6429590 | **162 2** | 2 | M 3,5 - M 5 | 100 | 210 | 10 | 96 | 5 |
| 6429670 | **162 3** | 3 | M 6 | 150 | 275 | 12 | 172 | 5 |
| 6429750 | **162 4** | 4 | M 8 - M 10 | 200 | 340 | 17 | 325 | 5 |

## 147-04

### SCREWDRIVER SET 4 pieces

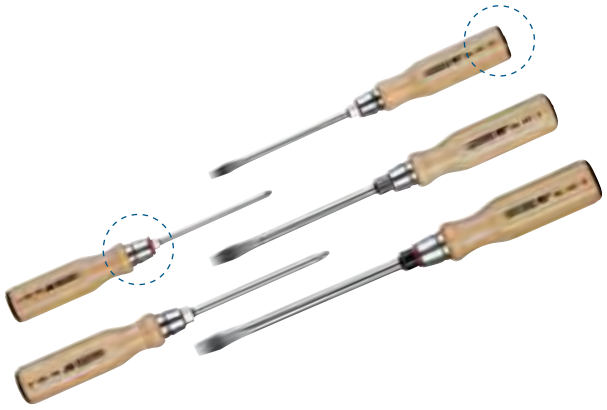
- Work-orientated assortment packed in environmentally-friendly cardboard box
- Blade tanged right through the handle, chrome-plated
- GEDORE vanadium steel 50CrV4
- Hardwood handle, clear varnished with leather cap
- Hexagon bolster for higher transmission of force

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6422820 | **147-04** | **147** 5,5 7 9 10 | 585 | 1 |

## 147-162-05

### SCREWDRIVER SET 5 pieces

- Work-orientated assortment packed in environmentally-friendly cardboard box
- Blade tanged right through the handle, chrome-plated
- GEDORE vanadium steel 50CrV4
- Hardwood handle, clear varnished with leather cap
- Hexagon bolster for higher transmission of force



| Code | No. | Contents | | |
|---|---|---|---|---|
| 6423120 | **147-162-05** | **147** 5,5 7 9<br>**162** 1 2 | 535 | 1 |

Quantities in packs may vary.

# ELECTRONIC SCREWDRIVER

## 171 IS

### ELECTRONIC SCREWDRIVER for slotted head screws

- Blade in high-alloy chrome-vanadium-molybdenum steel, chrome-plated
- Tip additionally coated for highest precision and corrosion protection
- 2-component-handle in ergonomic design
- Pivoting end cap with micro anti-slip surface
- Colour coding of the drive type

| Code | No. | | | | Ø | | |
|---|---|---|---|---|---|---|---|
| 1845004 | **171 IS 1,2** | 1.2 | 60 | 155 | 2,5 | 17 | 5 |
| 6436450 | **171 IS 1,5** | 1.5 | 60 | 155 | 2,5 | 14 | 5 |
| 1845012 | **171 IS 1,8** | 1.8 | 60 | 155 | 2,5 | 17 | 5 |
| 6438660 | **171 IS 2** | 2.0 | 60 | 155 | 2,5 | 17 | 5 |
| 1845020 | **171 IS 2,5** | 2.5 | 75 | 170 | 2,5 | 20 | 5 |
| 1845039 | **171 IS 3** | 3.0 | 100 | 195 | 3,0 | 23 | 5 |

## 165 PH

### ELECTRONIC SCREWDRIVER for cross-slotted head screws PH

- Blade in high-alloy chrome-vanadium-molybdenum steel, chrome-plated
- Tip additionally coated for highest precision and corrosion protection
- 2-component-handle in ergonomic design
- Pivoting end cap with micro anti-slip surface
- Colour coding of the drive type

| Code | No. | PH | | | | Ø | | |
|---|---|---|---|---|---|---|---|---|
| 1845047 | **165 PH 000** | 000 | | 60 | 155 | 2,5 | 18 | 5 |
| 6442770 | **165 PH 00** | 00 | | 60 | 155 | 2,5 | 16 | 5 |
| 6442930 | **165 PH 0** | 0 | M1,6 - M2 | 60 | 155 | 3,0 | 18 | 5 |
| 1845055 | **165 PH 1** | 1 | M2-M3 | 80 | 175 | 4,5 | 31 | 5 |

## 165 TX

### ELECTRONIC SCREWDRIVER for recessed TORX® head screws

- Blade in high-alloy chrome-vanadium-molybdenum steel, chrome-plated
- Tip additionally coated for highest precision and corrosion protection
- 2-component-handle in ergonomic design
- Pivoting end cap with micro anti-slip surface
- Colour coding of the drive type
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | | | mm | | | Ø | | |
|---|---|---|---|---|---|---|---|---|---|
| 1845098 | **165 TX T3** | T3 | M1,2 - M1,4 | 1.13 | 60 | 155 | 2,5 | 16 | 5 |
| 1845101 | **165 TX T4** | T4 | M1,4 | 1.29 | 60 | 155 | 2,5 | 16 | 5 |
| 1845128 | **165 TX T5** | T5 | M1,8 | 1.42 | 60 | 155 | 2,5 | 17 | 5 |
| 1845136 | **165 TX T6** | T6 | M2 | 1.69 | 60 | 155 | 3,0 | 19 | 5 |
| 1845144 | **165 TX T7** | T7 | M2,5 | 1.99 | 60 | 155 | 3,0 | 19 | 5 |
| 1845152 | **165 TX T8** | T8 | M2,5 | 2.31 | 60 | 155 | 3,0 | 19 | 5 |
| 1845160 | **165 TX T9** | T9 | M3 | 2.50 | 60 | 155 | 3,0 | 19 | 5 |
| 1845179 | **165 TX T10** | T10 | M3 - M3,5 | 2.74 | 60 | 155 | 3,0 | 20 | 5 |
| 1845187 | **165 TX T15** | T15 | M3,5 - M4 | 3.27 | 60 | 155 | 3,5 | 23 | 5 |
| 1845195 | **165 TX T20** | T20 | M4 - M5 | 3.86 | 80 | 175 | 4,0 | 29 | 5 |

## 164 IN

### ELECTRONIC SCREWDRIVER for in-hex screws

- Blade in high-alloy chrome-vanadium-molybdenum steel, chrome-plated
- Tip additionally coated for highest precision and corrosion protection
- 2-component-handle in ergonomic design
- Pivoting end cap with micro anti-slip surface
- Colour coding of the drive type

| Code | No. | mm | | | Ø | | |
|---|---|---|---|---|---|---|---|
| 1845063 | **164 IN 0,7** | 0.7 | 60 | 155 | 2,5 | 18 | 5 |
| 1845071 | **164 IN 0,9** | 0.9 | 60 | 155 | 2,5 | 18 | 5 |
| 6443150 | **164 IN 1,3** | 1.3 | 60 | 155 | 2,5 | 17 | 5 |
| 6443230 | **164 IN 1,5** | 1.5 | 60 | 155 | 2,5 | 17 | 5 |
| 6443310 | **164 IN 2** | 2.0 | 60 | 155 | 2,5 | 19 | 5 |
| 6443580 | **164 IN 2,5** | 2.5 | 60 | 155 | 3,0 | 16 | 5 |
| 6443740 | **164 IN 3** | 3.0 | 60 | 155 | 3,5 | 22 | 5 |

## 165-171-06

### ELECTRONIC SCREWDRIVER SET 6 pieces

- For slotted head and cruciform head screws PH
- Blade in high-alloy chrome-vanadium-molybdenum steel, chrome-plated
- Tip additionally coated for highest precision and corrosion protection
- 2-component-handle in ergonomic design
- Pivoting end cap with micro anti-slip surface
- Colour coding of the drive type
- In plastic case
- With "Check-Tool-System": 2-colour foam insert to check that the set is complete

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1902849 | **165-171-06** | ⊕ **165 PH** 000 00 0<br>⊖ **171 IS** 1,2 1,8 2,5 | 385 | 1 |

## 165 TX-06

### ELECTRONIC SCREWDRIVER SET 6 pieces

- For recessed TORX® head screws
- Blade in high-alloy chrome-vanadium-molybdenum steel, chrome-plated
- Tip additionally coated for highest precision and corrosion protection
- 2-component-handle in ergonomic design
- Pivoting end cap with micro anti-slip surface
- Colour coding of the drive type
- In plastic case
- With "Check-Tool-System": 2-colour foam insert to check that the set is complete
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1902857 | **165 TX-06** | ✱ **165 TX** T5 T6 T7 T8 T9 T10 | 415 | 1 |



Quantities in packs may vary.

## 1021

### ELECTRONIC SCREWDRIVER SET 7 pieces

- In plastic case
- Dimensions: 275 x 150 x 42 mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6601830 | **1021** | ⊖ **171 IS** 1,2 1,5 2<br>⊕ **165 PH** 00 0<br>**8305**-2<br>**8306**-5 | 624 | 1 |

# HEXAGON ALLEN KEYS

## 42 T

### HEXAGON ALLEN KEY WITH T-HANDLE for in-hex screws

- Blue handle with hanging hole
- GEDORE vanadium steel 61CrSiV5, chromated

mm

| Code | No. | mm | $L_1$ | $L_2$ | | |
|---|---|---|---|---|---|---|
| 1531360 | **42 T 2** | 2.0 | 162.5 | 130 | 29 | 10 |
| 6354130 | **42 T 2,5** | 2.5 | 192.5 | 160 | 36 | 10 |
| 6353670 | **42 T 3** | 3.0 | 222.5 | 190 | 40 | 10 |
| 6353750 | **42 T 4** | 4.0 | 249.0 | 210 | 73 | 10 |
| 6353830 | **42 T 5** | 5.0 | 279.0 | 240 | 93 | 10 |
| 6353910 | **42 T 6** | 6.0 | 309.0 | 270 | 124 | 10 |
| 6366730 | **42 T 7** | 7.0 | 329.0 | 290 | 157 | 10 |
| 6354050 | **42 T 8** | 8.0 | 349.0 | 310 | 198 | 10 |
| 6354210 | **42 T 10** | 10.0 | 369.0 | 330 | 295 | 10 |

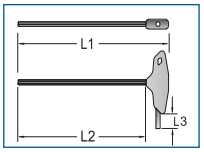
"AF

| Code | No. | "AF | $L_1$ | $L_2$ | | |
|---|---|---|---|---|---|---|
| 1996010 | **42 T 1/8AF** | 1/8 | 229 | 190 | 40 | 1 |
| 1996029 | **42 T 5/32AF** | 5/32 | 249 | 210 | 68 | 1 |
| 1996037 | **42 T 3/16AF** | 3/16 | 279 | 240 | 88 | 1 |
| 1996045 | **42 T 1/4AF** | 1/4 | 309 | 270 | 120 | 1 |
| 1996053 | **42 T 5/16AF** | 5/16 | 349 | 310 | 190 | 1 |
| 1996061 | **42 T 3/8AF** | 3/8 | 369 | 330 | 230 | 1 |

## DT 42

### HEXAGON ALLEN KEY WITH T-HANDLE for in-hex screws

- Blue handle with hanging hole
- With 2 hexagons, same size each end




mm

| Code | No. | mm | $L_1$ | $L_2$ | $L_3$ | | |
|---|---|---|---|---|---|---|---|
| 1476408 | **DT 42 2** | 2.0 | 107.0 | 87 | 12.0 | 12 | 10 |
| 1476424 | **DT 42 2,5** | 2.5 | 127.0 | 107 | 12.0 | 15 | 10 |
| 1476432 | **DT 42 3** | 3.0 | 147.0 | 127 | 12.0 | 19 | 10 |
| 1476440 | **DT 42 4** | 4.0 | 173.5 | 141 | 15.5 | 49 | 10 |
| 1476459 | **DT 42 5** | 5.0 | 193.5 | 161 | 17.5 | 68 | 10 |
| 1476467 | **DT 42 6** | 6.0 | 213.5 | 181 | 20.5 | 91 | 10 |
| 1476475 | **DT 42 7** | 7.0 | 231.0 | 192 | 28.0 | 142 | 10 |
| 1476483 | **DT 42 8** | 8.0 | 246.0 | 207 | 28.0 | 175 | 10 |
| 1476491 | **DT 42 10** | 10.0 | 261.0 | 222 | 28.0 | 257 | 10 |

## DTT 42

### HEXAGON ALLEN KEY for in-hex screws

- With 3 hexagons, same size each end
- T-handle fixed

mm

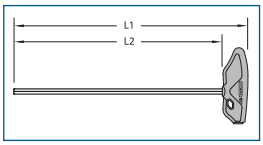
| Code | No. | mm | $L_1$ | $L_2$ | Ø | | |
|---|---|---|---|---|---|---|---|
| 1669540 | **DTT 42 3** | 3 | 150 | 75 | 5.0 | 42 | 1 |
| 1669559 | **DTT 42 4** | 4 | 180 | 90 | 6.0 | 64 | 1 |
| 1669567 | **DTT 42 5** | 5 | 180 | 90 | 7.0 | 92 | 1 |
| 1669575 | **DTT 42 6** | 6 | 210 | 105 | 8.0 | 134 | 1 |
| 1669583 | **DTT 42 8** | 8 | 250 | 125 | 9.5 | 224 | 1 |
| 1669591 | **DTT 42 10** | 10 | 300 | 150 | 12.0 | 418 | 1 |

Quantities in packs may vary.

## 2142 T

### HEXAGON ALLEN KEY WITH 2C-T-HANDLE for in-hex screws

- With hanging hole
- GEDORE vanadium steel 61CrSiV5, chromated




mm

| Code | No. | mm | $L_1$ | $L_2$ | |
|---|---|---|---|---|---|
| 2647257 | **2142 T 2** | 2.0 | 157 | 130 | 1 |
| 2647265 | **2142 T 2,5** | 2.5 | 187 | 160 | 1 |
| 2647273 | **2142 T 3** | 3.0 | 217 | 190 | 1 |
| 2647281 | **2142 T 4** | 4.0 | 248 | 210 | 1 |
| 2647303 | **2142 T 5** | 5.0 | 278 | 240 | 1 |
| 2647311 | **2142 T 6** | 6.0 | 308 | 270 | 1 |
| 2681439 | **2142 T 7** | 7,0 | 328 | 290 | 1 |
| 2647338 | **2142 T 8** | 8.0 | 348 | 310 | 1 |
| 2647346 | **2142 T 10** | 10.0 | 368 | 330 | 1 |

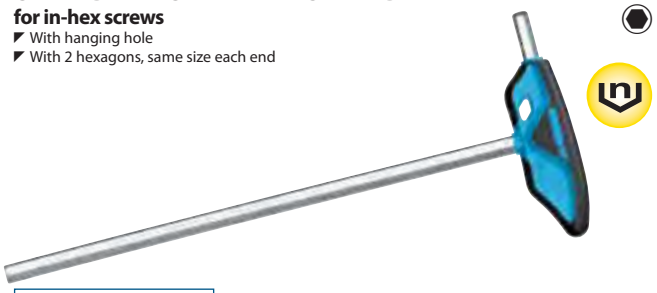
"AF

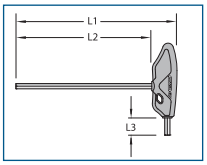
| Code | No. | "AF | $L_1$ | $L_2$ | |
|---|---|---|---|---|---|
| 2647354 | **2142 T 1/8AF** | 1/8 | 217 | 190 | 1 |
| 2647362 | **2142 T 5/32AF** | 5/32 | 248 | 210 | 1 |
| 2647370 | **2142 T 3/16AF** | 3/16 | 278 | 240 | 1 |
| 2647389 | **2142 T 1/4AF** | 1/4 | 308 | 270 | 1 |
| 2647397 | **2142 T 5/16AF** | 5/16 | 348 | 310 | 1 |
| 2647400 | **2142 T 3/8AF** | 3/8 | 368 | 330 | 1 |

## DT 2142

### CRANKED WRENCH KEY WITH 2C-T-HANDLE for in-hex screws

- With hanging hole
- With 2 hexagons, same size each end

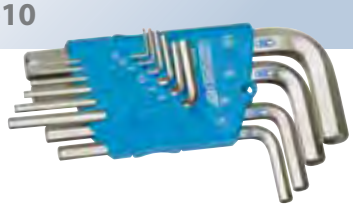





mm

| Code | No. | mm | $L_1$ | $L_2$ | $L_3$ | |
|---|---|---|---|---|---|---|
| 2488914 | **DT 2142 2** | 2.0 | 112 | 85 | 12 | 1 |
| 2498596 | **DT 2142 2,5** | 2.5 | 132 | 105 | 12 | 1 |
| 2498618 | **DT 2142 3** | 3.0 | 152 | 125 | 12 | 1 |
| 2498626 | **DT 2142 4** | 4.0 | 178 | 140 | 16 | 1 |
| 2502631 | **DT 2142 5** | 5.0 | 198 | 160 | 18 | 1 |
| 2502658 | **DT 2142 6** | 6.0 | 218 | 180 | 21 | 1 |
| 2505487 | **DT 2142 7** | 7.0 | 228 | 190 | 24 | 1 |
| 2507447 | **DT 2142 8** | 8.0 | 243 | 205 | 26 | 1 |
| 2507471 | **DT 2142 10** | 10.0 | 258 | 220 | 28 | 1 |

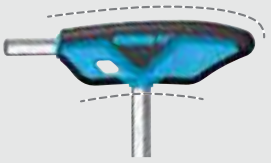
NC H 42-10



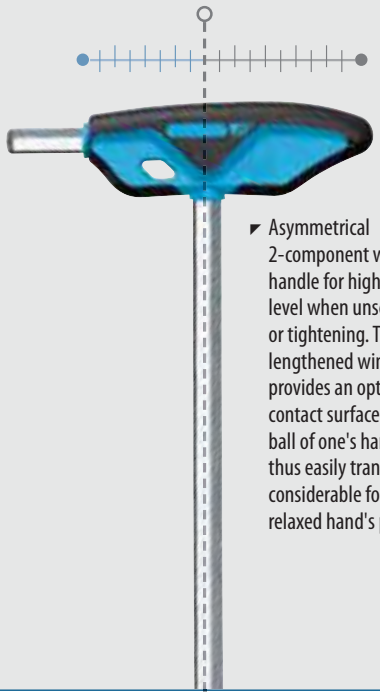
548

## 2C-T-Handle

- Hard component made of fibre-glass reinforced plastic with special-purpose glass fibres. The benefits of short glass fibres (rigidity and firmness) are combined with that of long glass fibres (impact strength).



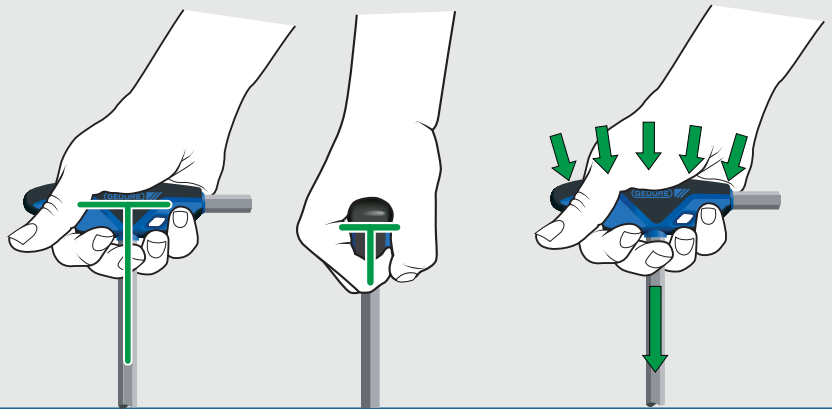
- Soft component made of thermoplastic elastomer
- The concave form ensures exact hand centering and stops any blade tilting.
- With hanging hole



- Asymmetrical 2-component wing handle for high torque level when unscrewing or tightening. The lengthened wing provides an optimum contact surface for the ball of one's hand. It thus easily transfers considerable forces in a relaxed hand's position.

- With T-shaped cross-section: broad at the top and slender below. In this way one's hand takes on a firm grip leading to vigorous working over an extended period without any fatigue.

- Soft zones where sensitive hand zones grip e.g. finger tips. Hard zones where robust hand zones grip.

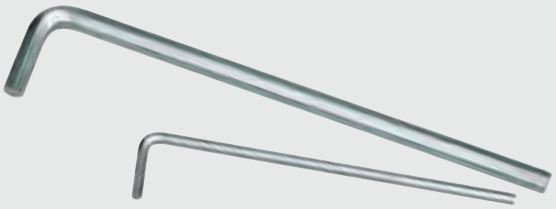




Quantities in packs may vary.

## Hexagon Allen Keys

- From GEDORE vanadium steel 61CrSiV5
- Self-designed/built machines from GEDORE's Special Machinery Construction section take up that precision-based manufacturing
- In a similar manner as with hot forging, the fibre course of the steel is not interrupted and thus retains its full strength, toughness and flexibility
- Professional tempering ensures a long service life
- Chamfered nose ends facilitate insertion into the screw head



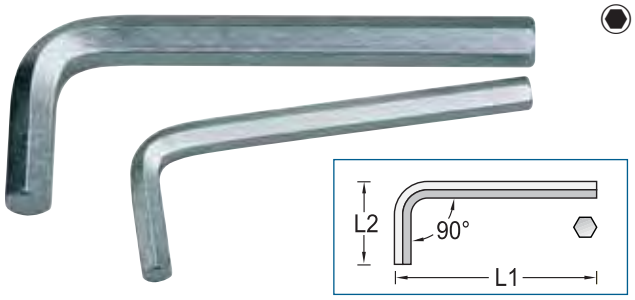
42

### HEXAGON ALLEN KEY for in-hex screws

- Acc. to DIN ISO 2936
- GEDORE vanadium steel 61CrSiV5, zinc-plated up to size 12 mm, chrome-plated up from size 14 mm

mm

| Code | No. | * | mm | $L_1$ | $L_2$ | | |
|---|---|---|---|---|---|---|---|
| 6342200 | **42 0,7** | | 0.7 | 33.0 | 7.0 | 1 | 10 |
| 6342390 | **42 0,9** | | 0.9 | 33.0 | 11.0 | 1 | 10 |
| 6342470 | **42 1,3** | | 1.3 | 41.0 | 13.0 | 1 | 10 |
| 6340260 | **42 1,5** | | 1.5 | 46.5 | 15.5 | 1 | 10 |
| 6340340 | **42 2 (5/64AF)** | | 2.0 | 52.0 | 18.0 | 2 | 10 |
| 6340420 | **42 2,5** | | 2.5 | 58.5 | 20.5 | 4 | 10 |
| 6340500 | **42 3** | | 3.0 | 66.0 | 23.0 | 6 | 10 |
| 6340690 | **42 4** | | 4.0 | 74.0 | 29.0 | 11 | 10 |
| 6340770 | **42 5** | | 5.0 | 85.0 | 33.0 | 19 | 10 |
| 6344840 | **42 7/32AF (5,5MM)** | | 5.56 | 82.0 | 32.0 | 22 | 10 |
| 6340850 | **42 6** | | 6.0 | 96.0 | 38.0 | 31 | 10 |
| 6340930 | **42 7** | * | 7.0 | 102.0 | 41.0 | 44 | 10 |
| 6341070 | **42 8** | | 8.0 | 108.0 | 44.0 | 61 | 10 |
| 6341150 | **42 9** | * | 9.0 | 114.0 | 47.0 | 81 | 10 |
| 6341230 | **42 10** | | 10.0 | 122.0 | 50.0 | 106 | 10 |
| 6341310 | **42 12** | | 12.0 | 137.0 | 57.0 | 169 | 10 |
| 6341580 | **42 14** | | 14.0 | 154.0 | 70.0 | 266 | 10 |
| 6341660 | **42 17** | | 17.0 | 177.0 | 80.0 | 430 | 10 |
| 6341740 | **42 19** | | 19.0 | 199.0 | 89.0 | 602 | 10 |
| 6341820 | **42 22** | | 22.0 | 222.0 | 102.0 | 907 | 10 |
| 6341900 | **42 24** | | 24.0 | 248.0 | 114.0 | 1211 | 5 |
| 6342550 | **42 27** | | 27.0 | 277.0 | 127.0 | 1711 | 5 |
| 6342630 | **42 30** | | 30.0 | 315.0 | 142.0 | 2423 | 1 |
| 6342710 | **42 32** | | 32.0 | 347.0 | 157.0 | 3010 | 1 |




### HEXAGON ALLEN KEY for in-hex screws

- GEDORE vanadium steel 61CrSiV5, zinc-plated up to size 1/2", chrome-plated up from size 9/16"

"AF

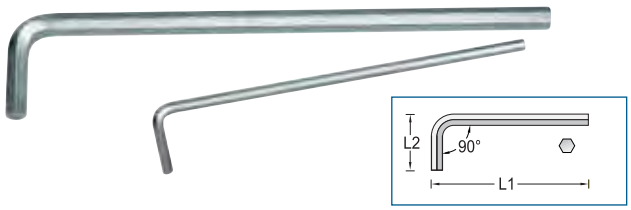
| Code | No. | "AF | $L_1$ | $L_2$ | | |
|---|---|---|---|---|---|---|
| 6342120 | **42 3/64AF** | 3/64 | 41.0 | 13.0 | 2 | 10 |
| 6342040 | **42 1/16AF** | 1/16 | 46.5 | 15.5 | 2 | 10 |
| 6344330 | **42 3/32AF** | 3/32 | 56.5 | 20.5 | 4 | 10 |
| 6340340 | **42 2 (5/64AF)** | | 52.0 | 18.0 | 2 | 10 |
| 6344410 | **42 1/8AF** | 1/8 | 60.0 | 23.0 | 6 | 10 |
| 6344680 | **42 5/32AF** | 5/32 | 67.0 | 26.0 | 10 | 10 |
| 6344760 | **42 3/16AF** | 3/16 | 73.0 | 30.0 | 15 | 10 |
| 6344840 | **42 7/32AF (5,5MM)** | 7/32 | 82.0 | 32.0 | 22 | 10 |
| 6344920 | **42 1/4AF** | 1/4 | 92.0 | 36.5 | 35 | 10 |
| 6345060 | **42 5/16AF** | 5/16 | 102.0 | 43.0 | 59 | 10 |
| 6345140 | **42 3/8AF** | 3/8 | 115.0 | 49.0 | 94 | 10 |
| 6345220 | **42 1/2AF** | 1/2 | 142.0 | 61.0 | 205 | 10 |
| 6345300 | **42 9/16AF** | 9/16 | 154.0 | 66.0 | 274 | 10 |
| 6345490 | **42 5/8AF** | 5/8 | 168.0 | 76.0 | 376 | 5 |
| 6345570 | **42 3/4AF** | 3/4 | 199.0 | 89.0 | 309 | 5 |

Quantities in packs may vary.

## 42 EL

### HEXAGON ALLEN KEY for in-hex screws, extra long

- Acc. to DIN ISO 2936
- GEDORE vanadium steel 61CrSiV5, zinc-plated




mm

| Code | No. | mm | $L_1$ | $L_2$ | | |
|---|---|---|---|---|---|---|
| 6350810 | **42 EL 2 (5/64AF)** | 2.0 | 102.0 | 18.0 | 4 | 10 |
| 6351030 | **42 EL 2,5** | 2.5 | 114.5 | 20.5 | 7 | 10 |
| 6351110 | **42 EL 3** | 3.0 | 129.0 | 23.0 | 10 | 10 |
| 6351380 | **42 EL 4** | 4.0 | 144.0 | 29.0 | 19 | 10 |
| 6351460 | **42 EL 5** | 5.0 | 165.0 | 33.0 | 33 | 10 |
| 1543342 | **42 EL 7/32AF (5,5MM)** | 5.56 | 186.0 | 38.0 | 47 | 10 |
| 6351540 | **42 EL 6** | 6.0 | 186.0 | 38.0 | 54 | 10 |
| 6351620 | **42 EL 8** | 8.0 | 208.0 | 44.0 | 104 | 10 |
| 6351700 | **42 EL 10** | 10.0 | 234.0 | 50.0 | 184 | 10 |
| 6351890 | **42 EL 12** | 12.0 | 262.0 | 57.0 | 293 | 10 |
| 6351970 | **42 EL 14** | 14.0 | 294.0 | 70.0 | 453 | 10 |

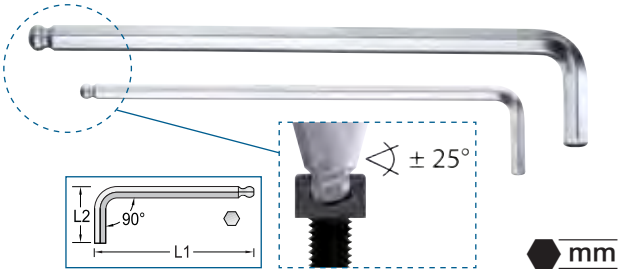
"AF

| Code | No. | "AF | $L_1$ | $L_2$ | | |
|---|---|---|---|---|---|---|
| 6350810 | **42 EL 2 (5/64AF)** | 5/64 | 102.0 | 18.0 | 4 | 10 |
| 1543377 | **42 EL 3/32AF** | 3/32 | 114.5 | 20.5 | 6 | 10 |
| 1543318 | **42 EL 1/8AF** | 1/8 | 129.0 | 23.0 | 11 | 10 |
| 1543326 | **42 EL 5/32AF** | 5/32 | 144.0 | 29.0 | 19 | 10 |
| 1543334 | **42 EL 3/16AF** | 3/16 | 165.0 | 33.0 | 30 | 10 |
| 1543342 | **42 EL 7/32AF (5,5MM)** | 7/32 | 186.0 | 38.0 | 47 | 10 |
| 1543369 | **42 EL 1/4AF** | 1/4 | 197.0 | 41.0 | 65 | 10 |
| 1543350 | **42 EL 5/16AF** | 5/16 | 208.0 | 44.0 | 103 | 10 |
| 1543385 | **42 EL 3/8AF** | 3/8 | 234.0 | 50.0 | 167 | 10 |
| 1543393 | **42 EL 1/2AF** | 1/2 | 277.0 | 63.0 | 355 | 10 |
| 1543407 | **42 EL 9/16AF** | 9/16 | 294.0 | 70.0 | 475 | 10 |

## 42 KEL

### HEXAGON ALLEN KEY for in-hex screws, extra long, with ball end

- GEDORE vanadium steel 59CrV4, chrome-plated



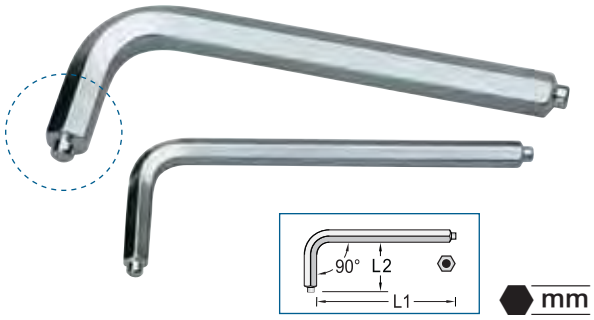

mm

| Code | No. | mm | $L_1$ | $L_2$ | | |
|---|---|---|---|---|---|---|
| 1563556 | **42 KEL 1,5** | 1.5 | 91.5 | 15.5 | 3 | 10 |
| 6370090 | **42 KEL 2** | 2.0 | 102.0 | 18.0 | 4 | 10 |
| 6370170 | **42 KEL 2,5** | 2.5 | 114.5 | 20.5 | 6 | 10 |
| 6370250 | **42 KEL 3** | 3.0 | 129.0 | 23.0 | 10 | 10 |
| 6370330 | **42 KEL 4** | 4.0 | 144.0 | 29.0 | 19 | 10 |
| 6370410 | **42 KEL 5** | 5.0 | 165.0 | 33.0 | 33 | 10 |
| 6370680 | **42 KEL 6** | 6.0 | 186.0 | 38.0 | 53 | 10 |
| 1729241 | **42 KEL 7** | 7.0 | 197.0 | 41.0 | 76 | 10 |
| 6370760 | **42 KEL 8** | 8.0 | 208.0 | 44.0 | 103 | 10 |
| 6370840 | **42 KEL 10** | 10.0 | 234.0 | 50.0 | 179 | 10 |
| 6370920 | **42 KEL 12** | 12.0 | 262.0 | 57.0 | 287 | 10 |

## 42 Z

### HEXAGON ALLEN KEY with pilot, for in-hex screws

- Acc. to DIN 6911
- Chrome-vanadium steel, zinc-plated
- * not standardised




mm

| Code | No. | * | mm | $L_1$ | $L_2$ | | |
|---|---|---|---|---|---|---|---|
| 6342980 | **42 Z 3** | | 3 | 63 | 20 | 6 | 5 |
| 6343010 | **42 Z 4** | | 4 | 70 | 25 | 10 | 5 |
| 6343280 | **42 Z 5** | | 5 | 80 | 28 | 19 | 5 |
| 6343360 | **42 Z 6** | | 6 | 90 | 32 | 31 | 5 |
| 6343440 | **42 Z 7** | * | 7 | 95 | 34 | 42 | 5 |
| 6343520 | **42 Z 8** | | 8 | 100 | 36 | 58 | 5 |
| 6343600 | **42 Z 10** | | 10 | 112 | 40 | 100 | 5 |
| 6343790 | **42 Z 12** | | 12 | 125 | 45 | 162 | 5 |
| 6343870 | **42 Z 14** | | 14 | 140 | 56 | 254 | 5 |
| 6343950 | **42 Z 17** | | 17 | 160 | 63 | 418 | 10 |
| 6344090 | **42 Z 19** | | 19 | 180 | 70 | 584 | 10 |

## 42

### HEXAGON ALLEN KEY SET for in-hex screws

- In blue PVC wallet
- GEDORE vanadium steel 61CrSiV5, zinc-plated

mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6347510 | **42-07** | 2 2,5 3 4 5 6 8 | 144 | 1 |
| 6349050 | **42-70** | 2,5 3 4 5 6 8 10 | 254 | 1 |
| 6347780 | **42-08** | 3 4 5 6 8 10 12 14 | 716 | 1 |
| 6347860 | **42-09** | 2 2,5 3 4 5 6 7 8 10 | 297 | 1 |

"AF

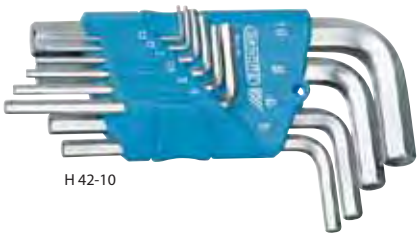
| Code | No. | Contents | | |
|---|---|---|---|---|
| 6348750 | **42-07 A** | 5/64 3/32 1/8 5/32 3/16 7/32 1/4" | 103 | 1 |
| 6348830 | **42-08 A** | 1/8 5/32 3/16 1/4 5/16 3/8 1/2 9/16" | 731 | 1 |
| 6348910 | **42-09 A** | 5/64 3/32 1/8 5/32 3/16 7/32 1/4 5/16 3/8" | 257 | 1 |

Quantities in packs may vary.

## H 42 - H 42 KEL

### HEXAGON ALLEN KEY SET for in-hex screws

- In blue plastic holder (LPDE)
- GEDORE vanadium steel 61CrSiV5, zinc-plated
- Execution KEL with ball end
- GEDORE vanadium steel 59CrV4, chromated



H 42-10

H 42 EL-88

H 42 KEL-88

mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1505408 | **H 42-10** | **42** 1,3 1,5 2 2,5 3 4 5 6 8 10 | 259 | 1 |
| 1505416 | **H 42 EL-88** | **42 EL** 2 2,5 3 4 5 6 8 10 | 425 | 1 |
| 1523988 | **H 42 KEL-88** | **42 KEL** 2 2,5 3 4 5 6 8 10 | 415 | 1 |

"AF

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1505424 | **H 42-88 A** | **42** 5/64 3/32 1/8 5/32 3/16 7/32 1/4 5/16" | 172 | 1 |
| 1543555 | **H 42 EL-88 A** | **42 EL** 5/64 3/32 1/8 5/32 3/16 7/32 1/4 5/16" | 300 | 1 |

## PH 42-88

### HEXAGON ALLEN KEY SET for in-hex screws

- In blue plastic holder
- GEDORE vanadium steel 61CrSiV5, zinc-plated

mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6352000 | **PH 42-88** | **42** 2 2,5 3 4 5 6 8 10 | 245 | 1 |

## S 42

### HEXAGON ALLEN KEY SET for in-hex screws

- On key ring with quick release
- GEDORE vanadium steel 61CrSiV5, zinc-plated

mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6347430 | **S 42-07** | 2 2,5 3 4 5 6 8 | 162 | 1 |

"AF

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6348160 | **S 42-09 A** | 5/64 3/32 1/8 5/32 3/16 7/32 1/4 5/16 3/8" | 273 | 1 |

## SCL 42

### HEXAGON ALLEN KEY SET for in-hex screws

- In robust metal clip
- Execution K with ball end
- GEDORE vanadium steel 61CrSiV5, zinc-plated

mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6347350 | **SCL 42-70** | 2,5 3 4 5 6 8 10 | 360 | 1 |
| 6371140 | **SCL 42 K-70** | 2,5 3 4 5 6 8 10 | 361 | 1 |

"AF

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6354800 | **SCL 42-90 A** | 5/64 3/32 7/64 1/8 9/64 5/32 3/16 7/32 1/4" | 260 | 1 |

NC SCL 43 TX-80

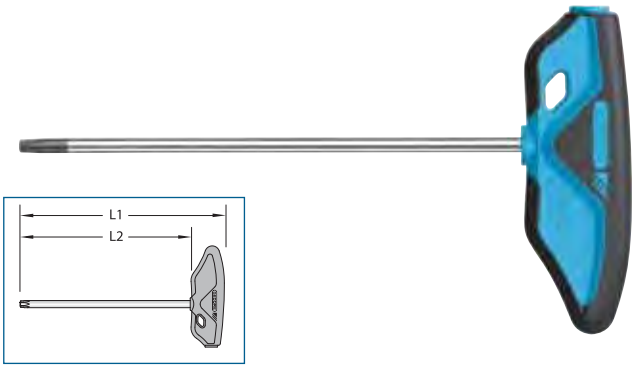
548

Quantities in packs may vary.

## 2142 TX

### WRENCH KEY WITH 2C-T-HANDLE for recessed TORX® screws

- With hanging hole
- Chrome-vanadium steel, blade chrome-plated, tip gun-metal finish
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

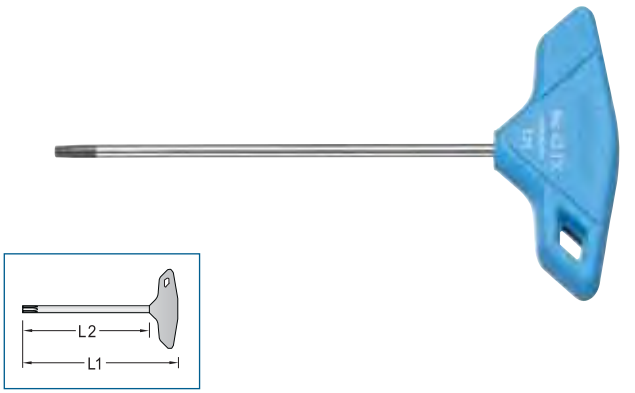



| Code | No. | | | mm | $L_1$ | $L_2$ | |
|---|---|---|---|---|---|---|---|
| 2509393 | **2142 TX T5** | T5 | M1,8 | 1.42 | 112 | 85 | 1 |
| 2511622 | **2142 TX T6** | T6 | M2 | 1.70 | 112 | 85 | 1 |
| 2511657 | **2142 TX T7** | T7 | M2,5 | 1.99 | 112 | 85 | 1 |
| 2513072 | **2142 TX T8** | T8 | M2,5 | 2.31 | 112 | 85 | 1 |
| 2513102 | **2142 TX T9** | T9 | M3 | 2.50 | 132 | 105 | 1 |
| 2513749 | **2142 TX T10** | T10 | M3 - M3,5 | 2.74 | 132 | 105 | 1 |
| 2516934 | **2142 TX T15** | T15 | M3,5 - M4 | 3.27 | 152 | 125 | 1 |
| 2519062 | **2142 TX T20** | T20 | M4 - M5 | 3.86 | 167 | 140 | 1 |
| 2519186 | **2142 TX T25** | T25 | M4,5 - M5 | 4.43 | 178 | 140 | 1 |
| 2521571 | **2142 TX T27** | T27 | M4,5 - M6 | 4.99 | 198 | 160 | 1 |
| 2521598 | **2142 TX T30** | T30 | M6 - M7 | 5.52 | 198 | 160 | 1 |
| 2521601 | **2142 TX T40** | T40 | M7 - M8 | 6.65 | 218 | 180 | 1 |
| 2521636 | **2142 TX T45** | T45 | M8 - M10 | 7.82 | 228 | 190 | 1 |
| 2521644 | **2142 TX T50** | T50 | M10 | 8.83 | 243 | 205 | 1 |

## 42 TX

### WRENCH KEY WITH T-HANDLE for recessed TORX® screws

- Blue handle with hanging hole
- Chrome-vanadium steel, blade chrome-plated, tip gun-metal finish
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

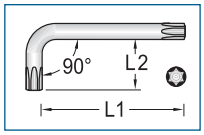



| Code | No. | | | mm | $L_1$ | $L_2$ | | |
|---|---|---|---|---|---|---|---|---|
| 1531328 | **42 TX T5** | T5 | M1,8 | 1.42 | 107.0 | 87 | 18 | 10 |
| 1531336 | **42 TX T6** | T6 | M2 | 1.70 | 107.0 | 87 | 18 | 10 |
| 1531344 | **42 TX T7** | T7 | M2,5 | 1.99 | 107.0 | 87 | 18 | 10 |
| 1531352 | **42 TX T8** | T8 | M2,5 | 2.31 | 119.5 | 87 | 33 | 10 |
| 6361180 | **42 TX T9** | T9 | M3 | 2.50 | 139.5 | 107 | 38 | 10 |
| 6362070 | **42 TX T10** | T10 | M3 - M3,5 | 2.74 | 139.5 | 107 | 41 | 10 |
| 6362820 | **42 TX T15** | T15 | M3,5 - M4 | 3.27 | 159.5 | 127 | 42 | 10 |
| 6362900 | **42 TX T20** | T20 | M4 - M5 | 3.86 | 173.5 | 141 | 43 | 10 |
| 6365330 | **42 TX T25** | T25 | M4,5 - M5 | 4.43 | 180.0 | 141 | 64 | 10 |
| 6365410 | **42 TX T27** | T27 | M4,5 - M6 | 4.99 | 200.0 | 161 | 84 | 10 |
| 6365680 | **42 TX T30** | T30 | M6 - M7 | 5.52 | 200.0 | 161 | 90 | 10 |
| 6365760 | **42 TX T40** | T40 | M7 - M8 | 6.65 | 220.0 | 181 | 115 | 5 |
| 6365840 | **42 TX T45** | T45 | M8 - M10 | 7.82 | 231.0 | 192 | 139 | 5 |
| 6365920 | **42 TX T50** | T50 | M10 | 8.83 | 246.0 | 207 | 181 | 5 |

## 43 TX

### CRANKED WRENCH KEY for recessed TORX® screws

- Chrome-vanadium steel 50CrV4, gun-metal finish
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

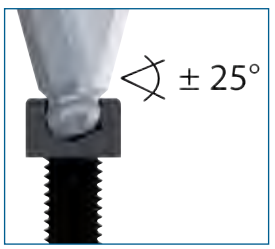



| Code | No. | | | mm | $L_1$ | $L_2$ | | |
|---|---|---|---|---|---|---|---|---|
| 6363550 | **43 TX T6** | T6 | M2 | 1.69 | 42 | 16 | 3 | 5 |
| 6363630 | **43 TX T7** | T7 | M2,5 | 1.99 | 48 | 16 | 3 | 5 |
| 6363710 | **43 TX T8** | T8 | M2,5 | 2.31 | 48 | 16 | 4 | 5 |
| 6363980 | **43 TX T9** | T9 | M3 | 2.50 | 48 | 16 | 4 | 5 |
| 6364010 | **43 TX T10** | T10 | M3 - M3,5 | 2.74 | 51 | 17 | 5 | 5 |
| 6364280 | **43 TX T15** | T15 | M3,5 - M4 | 3.27 | 54 | 18 | 6 | 5 |
| 6364360 | **43 TX T20** | T20 | M4 - M5 | 3.86 | 57 | 19 | 8 | 5 |
| 6364440 | **43 TX T25** | T25 | M4,5 - M5 | 4.43 | 60 | 20 | 10 | 5 |
| 6364520 | **43 TX T27** | T27 | M4,5 - M6 | 4.99 | 64 | 21 | 16 | 5 |
| 6364600 | **43 TX T30** | T30 | M6 - M7 | 5.52 | 70 | 24 | 22 | 5 |
| 6364790 | **43 TX T40** | T40 | M7 - M8 | 6.65 | 76 | 26 | 31 | 5 |
| 6364870 | **43 TX T45** | T45 | M8 - M10 | 7.82 | 83 | 29 | 46 | 5 |
| 6364950 | **43 TX T50** | T50 | M10 | 8.83 | 95 | 32 | 60 | 5 |
| 6365090 | **43 TX T55** | T55 | M12 | 11.22 | 108 | 35 | 122 | 10 |
| 6365170 | **43 TX T60** | T60 | M14 | 13.25 | 120 | 38 | 187 | 10 |

## 43 KTX

### CRANKED WRENCH KEY for recessed TORX® screws, with ball end

- Working angle approx. 25°
- Chrome-vanadium steel, gun-metal finish
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



| Code | No. | | | mm | $L_1$ | $L_2$ | | |
|---|---|---|---|---|---|---|---|---|
| 6367110 | **43 KTX T10** | T10 | M3 - M3,5 | 2.74 | 73 | 17 | 6 | 5 |
| 6367380 | **43 KTX T15** | T15 | M3,5 - M4 | 3.27 | 83 | 17 | 9 | 5 |
| 6367460 | **43 KTX T20** | T20 | M4 - M5 | 3.86 | 94 | 18 | 12 | 5 |
| 6367540 | **43 KTX T25** | T25 | M4,5 - M5 | 4.43 | 96 | 18 | 15 | 5 |
| 6367620 | **43 KTX T27** | T27 | M4,5 - M6 | 4.99 | 106 | 20 | 24 | 5 |
| 6367700 | **43 KTX T30** | T30 | M6 - M7 | 5.52 | 119 | 24 | 33 | 5 |
| 6367890 | **43 KTX T40** | T40 | M7 - M8 | 6.65 | 132 | 26 | 49 | 5 |



Quantities in packs may vary.

## 43 TX-09

### CRANKED WRENCH KEY SET for recessed TORX® screws

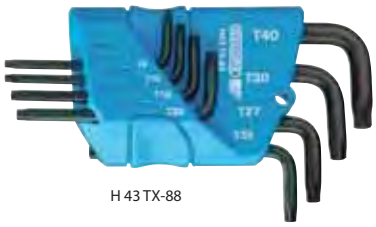
- In blue PVC wallet
- Chrome-vanadium steel 50CrV4, gun-metal finish
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6360960 | **43 TX-09** | T7 T8 T9 T10 T15 T20 T25 T30 T40 | 115 | 1 |

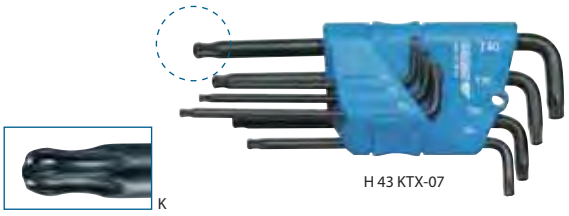
## H 43 TX - H 43 KTX

### CRANKED WRENCH KEY SET for recessed TORX® screws

- In blue LDPE holder
- Execution KTX with ball end
- Chrome-vanadium steel 50CrV4, gun-metal finish
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA




H 43 TX-88




H 43 KTX-07



K

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1531417 | **H 43 TX-09** | **43 TX** T7 T8 T9 T10 T15 T20 T25 T30 T40 | 120 | 1 |
| 1531425 | **H 43 TX-88** | **43 TX** T9 T10 T15 T20 T25 T27 T30 T40 | 129 | 1 |
| 1531433 | **H 43 TX-08** | **43 TX** T10 T15 T20 T25 T27 T30 T40 T45 | 168 | 1 |
| 1531441 | **H 43 KTX-07** | **43 KTX** T10 T15 T20 T25 T27 T30 T40 | 169 | 1 |

## SCL 43 TX-80

### CRANKED WRENCH KEY SET for recessed TORX® screws

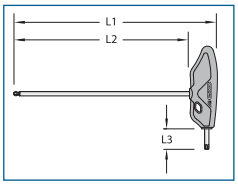
- In robust metal clip
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

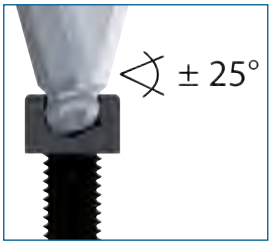
| Code | No. | Contents | | |
|---|---|---|---|---|
| 6346460 | **SCL 43 TX-80** | T9 T10 T15 T20 T25 T27 T30 T40 | 286 | 1 |

## DT 2143 KTX

### CRANKED WRENCH KEY WITH 2C-T-HANDLE for recessed TORX® screws

- Working angle approx. 25°
- With hanging hole
- Chrome-vanadium steel, blades chrome-plated, tip phosphated
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



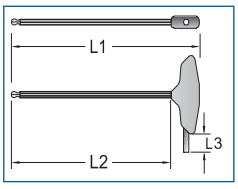



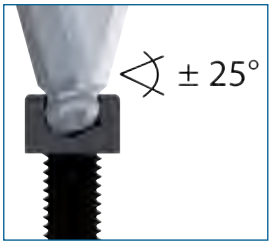
| Code | No. | | | mm | $L_1$ | $L_2$ | $L_3$ | |
|---|---|---|---|---|---|---|---|---|
| 2647486 | **DT 2143 KTX T10** | T10 | M3 - M3,5 | 2.74 | 157 | 130 | 12 | 1 |
| 2647494 | **DT 2143 KTX T15** | T15 | M3,5 - M4 | 3.27 | 177 | 150 | 14 | 1 |
| 2647508 | **DT 2143 KTX T20** | T20 | M4 - M5 | 3.86 | 197 | 170 | 16 | 1 |
| 2647516 | **DT 2143 KTX T25** | T25 | M4,5 - M5 | 4.43 | 228 | 190 | 19 | 1 |
| 2647524 | **DT 2143 KTX T27** | T27 | M4,5 - M6 | 4.99 | 248 | 210 | 22 | 1 |
| 2647532 | **DT 2143 KTX T30** | T30 | M6 - M7 | 5.52 | 278 | 240 | 25 | 1 |
| 2647540 | **DT 2143 KTX T40** | T40 | M7 - M8 | 6.65 | 308 | 270 | 28 | 1 |

## DT 43 KTX

### CRANKED WRENCH KEY WITH T-HANDLE for recessed TORX® screws

- Working angle approx. 25°
- Blue handle with hanging hole
- Chrome-vanadium steel, blades chrome-plated, tip phosphated
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



| Code | No. | | | mm | $L_1$ | $L_2$ | $L_3$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 1505521 | **DT 43 KTX T10** | T10 | M3 - M3,5 | 2.74 | 150.0 | 130 | 12.0 | 24 | 10 |
| 1505548 | **DT 43 KTX T15** | T15 | M3,5 - M4 | 3.27 | 170.0 | 150 | 12.0 | 27 | 10 |
| 1505556 | **DT 43 KTX T20** | T20 | M4 - M5 | 3.86 | 202.5 | 170 | 15.5 | 58 | 10 |
| 1505564 | **DT 43 KTX T25** | T25 | M4,5 - M5 | 4.43 | 222.5 | 190 | 17.5 | 67 | 10 |
| 1505572 | **DT 43 KTX T27** | T27 | M4,5 - M6 | 4.99 | 242.5 | 210 | 20.0 | 94 | 10 |
| 1505580 | **DT 43 KTX T30** | T30 | M6 - M7 | 5.52 | 279.0 | 240 | 28.0 | 126 | 10 |
| 1505599 | **DT 43 KTX T40** | T40 | M7 - M8 | 6.65 | 309.0 | 270 | 28.0 | 171 | 10 |

Quantities in packs may vary.

## 708

### TORX® GAUGE

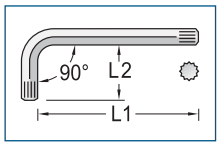
- Easy identification of TORX® sizes, internal E4-E16, external T10-T60
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1394428 | **708** | E4 - E16 T10 - T60 | 22 | 1 |

## 42 X

### CRANKED ALLEN SOCKET SCREWDRIVER for multi-point screws XZN

- Acc. to DIN 65253, tips acc. to DIN 2325
- GEDORE vanadium steel 50CrV4, chromated




| Code | No. | M | $L_1$ | $L_2$ | | |
|---|---|---|---|---|---|---|
| 1531212 | **42 X 4** | M 4 | 63 | 20 | 9 | 5 |
| 6350060 | **42 X 5** | M 5 | 75 | 30 | 15 | 5 |
| 6350140 | **42 X 6** | M 6 | 86 | 34 | 25 | 5 |
| 6350220 | **42 X 8** | M 8 | 98 | 40 | 43 | 5 |
| 6350300 | **42 X 10** | M 10 | 110 | 46 | 85 | 5 |
| 6350490 | **42 X 12** | M 12 | 124 | 52 | 124 | 5 |
| 6350570 | **42 X 14** | M 14 | 139 | 59 | 191 | 5 |
| 6350650 | **42 X 16** | M 16 | 156 | 72 | 308 | 5 |
| 6350730 | **42 X 18** | M 18 | 178 | 81 | 333 | 10 |

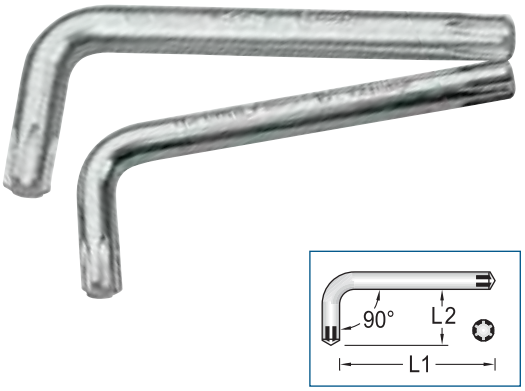
## VDE 42

560

## 43

### CRANKED WRENCH KEY for multi-spline screws RIBE®

- GEDORE vanadium steel 50CrV4, chromated
- RIBE® = reg. trademark of Richard Bergner GmbH & Co. KG, Schwabach, Germany






| Code | No. | M | $L_1$ | $L_2$ | | |
|---|---|---|---|---|---|---|
| 6352270 | **43 5** | M 5 | 71 | 25 | 16 | 5 |
| 6352350 | **43 6** | M 6 | 80 | 28 | 25 | 5 |
| 6352430 | **43 8** | M 8 | 90 | 32 | 49 | 5 |
| 6352510 | **43 10** | M 10 | 100 | 36 | 84 | 5 |
| 6352780 | **43 12** | M 12 | 112 | 40 | 135 | 5 |
| 6352860 | **43 14** | M 14 | 125 | 45 | 203 | 5 |

## 173

### CRANKED SCREWDRIVER for slotted head screws

- Acc. to DIN 5200, blade tips acc. to DIN ISO 2380-2
- Chrome-vanadium steel, matt nickel-plated

| Code | No. | mm | mm | mm | | |
|---|---|---|---|---|---|---|
| 6437180 | **173 3,5** | 3.5 | 0.6 | 90 | 10 | 5 |
| 6437850 | **173 4** | 4.0 | 0.8 | 100 | 13 | 10 |
| 6436100 | **173 5,5** | 5.5 | 1.0 | 125 | 25 | 10 |
| 6436370 | **173 8** | 8.0 | 1.2 | 150 | 50 | 10 |
| 6437930 | **173 10** | 10.0 | 1.6 | 175 | 87 | 5 |
| 6436530 | **173 12** | 12.0 | 2.0 | 200 | 127 | 5 |

## 174

### CRANKED SCREWDRIVER for cross-slotted head screws PH

- Acc. to DIN 5208, tips acc. to DIN ISO 8764-1 PH
- Chrome-vanadium steel, matt nickel-plated

| Code | No. | PH | M | mm | | |
|---|---|---|---|---|---|---|
| 6436880 | **174 1** | 1-2 | M2 - M5 | 100 | 29 | 10 |
| 6436960 | **174 3** | 3-4 | M6 - M10 | 200 | 121 | 5 |



Quantities in packs may vary.

## VOLTAGE TESTER

### 4610

**CAR LIGHT TESTER**

- For testing 6-24 Volt
- Compact brass model
- With cable and alligator crimp

| Code | No. | | | |
|---|---|---|---|---|
| 6698570 | **4610** | 125 | 69 | 10 |

### 4611

**VOLTAGE TESTER**

- For 6-24 Volt
- With cable and alligator crimp

| Code | No. | | | | | |
|---|---|---|---|---|---|---|
| 6698650 | **4611** | 3 | 55 | 115 | 26 | 10 |

### 4615

**VOLTAGE TESTER**

- For 220-250 Volt AC
- Blade nickel-plated, fully insulated blade conforming to DIN VDE 0680-6
- Handle and insulation in GEDORE blue
- 4615 3 with metal clip and grey cap

4615 3

4615 3,5

| Code | No. | | | | | | |
|---|---|---|---|---|---|---|---|
| 6699110 | **4615 3** | 0.5 | 3.0 | 60 | 140 | 22 | 10 |
| 6699380 | **4615 3,5** | 0.6 | 3.5 | 90 | 180 | 37 | 10 |

## VARIOUS

### 149

**MAGNETIZER AND DEMAGNETIZER**

- Magnetizes or demagnetises screwdrivers, tweezers and similar tools made from steel
- Blue housing, made from high-quality plastic, unbreakable, cadmium-free

| Code | No. | L | H | W | | |
|---|---|---|---|---|---|---|
| 6416500 | **149** | 52 | 26 | 50 | 88 | 1 |

### 156 S

**SQUARE BLADED AWL**

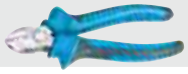
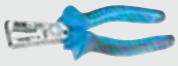
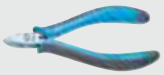
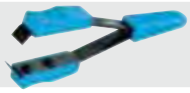
- Blue handle with hanging hole
- Blade bright nickel-plated

| Code | No. | | | | |
|---|---|---|---|---|---|
| 6424520 | **156 S** | 100 | 200 | 84 | 10 |

Quantities in packs may vary.

CRIMP
0.5-2.5
0.3±0.05

## Take a firm grip + strong and firm


| | | |
|---|---|---|
| SERVICE / FEATURES | | 356 – 360 |
| COMBINATION PLIERS | | 361 – 363 |
| SIDE CUTTERS / END CUTTING NIPPERS |  | 364 – 366 |
| FLAT NOSE / ROUND NOSE PLIERS | | 367 – 369 |
| MECHANICS PLIERS | | 370 |
| BOWDEN CABLE CUTTER / CABLE SHEARS | | 371 |
| WIRE-STRIPPING PLIERS |  | 372 |
| ELECTRONIC PLIERS |  | 373 – 379 |
| ACCESSORIES |  | 380 |
| STRIPPING TOOLS | | 380 – 382 |
| CRIMPING PLIERS | | 382 – 387 |
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| PIPE WRENCHES / SPECIAL PLIERS | | 397 |
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# GEDORE pliers

## GEDORE pliers: Everything handled securely

- Use of the best-possible steels, most up-to-date machinery and environmentally-friendly production processes
- Our tool specialists vouch for exactness in processing and continuous refinements
- Unique manufacturing processes and special tool treatment bring about the best in results
- Stringent quality checks after each production step ensure a constantly high level
- Professional service up to the development of special customised tools

## The complete range: form and function perfection

- Extremely wide selection in sizes, finish and grip designs for specialists and non-specialists alike
- Model JC = chrome-plated, 2-component handle protectors
- Model TL = black with blue dipped handle protector
- Available individually or in practical sets, in the module or in assortments

- On request also available with SB pack (plastic hanging clip, Euro perforation for self-service display wallboard)

## Precision, dimensioned accuracy and exactness of fitting

- High-grade industrial quality for the toughest forms of continuous use and safety in everyday work
- High bending stiffness thanks to GEDORE special hardened and tempered steel. GEDORE pliers do not fracture or splinter when overloaded but deform under incorrect use, therefore posing a lower risk of injury to the user
- GEDORE pliers rest comfortably in the hand (M/XL/XXL) - the most important requirement, in fact, for non-taxing and safe working

## Intelligently designed or the MIN-MAX principle

- Benefits in practical application from optimum utilization made of the laws of leverage.
- Maximum power transfer of the pliers with a minimum effort required
- For the pliers this means: optimum transfer of power - very high cutting performance
- For those using the pliers this means: precise, fatigue-free and ergonomic working
- The specially developed "power pliers" stands up well particularly in hard continuous operations (higher clamping forces with up to 35 % less effort exerted)

# Manufacturing process for 8250 Combination Pliers

1 Blank cropped to size from C50 hardened and tempered steel.

2 Hot forged in the double forging die. The excess burr is removed under an eccentric press.

3 The blanks are "normalised" to obtain an even finer-grain, more uniform structure with optimum strength. After descaling, the blanks are calibrated for the following work steps.

4 The head is machined in a CNC-controlled machining centre. The rivet hole is drilled and counter-bored. The joint clearance and the outer contour are milled. The geometry of the joint area and the coarse and fine toothing are broached.

5 The joint faces are precision milled. The pliers head takes on its final form.

6 The moving and fixed pliers legs are riveted together. A smooth-moving joint with no play is the essential requirement for safe one-handed operation.

7 In a chamber hardening kiln, the pliers are hardened in a protective gas atmosphere, quenched in oil and finally annealed. The design of the hardening kiln ensures that the process gases are uniformly distributed, which has a positive effect on the desired material properties.

8 The cutting edges of GEDORE pliers are once again induction hardened. The additional hardness that this achieves ensures a good cutting performance and a long life between sharpening.

**VDE pliers are subjected to an individual test in accordance with DIN EN 60900 / IEC 60900:2004. GEDORE Austria has been a certified manufacturing plant for VDE protective insulated pliers since 2003.**

9 The pliers head is ground to achieve a flush geometry.

10 The surface is cleaned by sand blasting. The removal of scale and grease is necessary for the follow-on electroplating process.

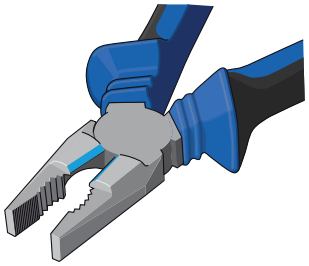
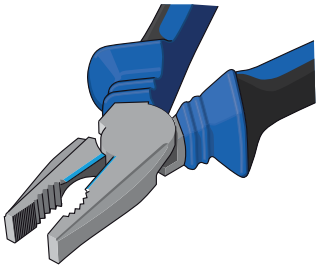
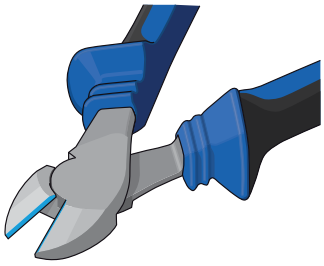
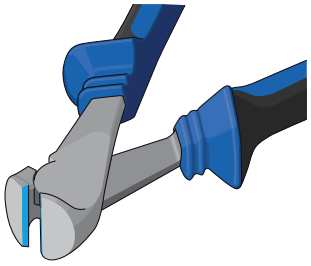
11 Nickel-plated and matt-chrome-plated to prevent dazzle. The electrolytically deposited nickel coating provides the corrosion protection. The electroplated chrome improves the look and gives the pliers a perfect finish.

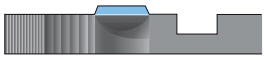
12 TL pliers are painted black by a robot, using water soluble paint.

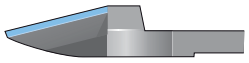
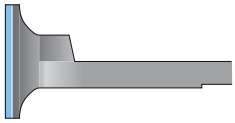
13 The 2-component handles are pressed on and bonded.

14 The plastic coating on the handles is built up by multiple dipping in liquid immersion compound.

## Position of the cutting edges as per DIN ISO 5742



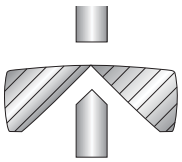
Cutting edge - convex
For flush cutting.

Cutting edge - inner
Flush cutting not possible.

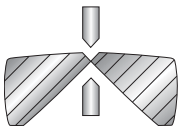
Side cutters
For effort-saving cutting a number of times. For flush cutting.

End cutting nippers
For effort-saving cutting a number of times. E.g. meadow wire fencing. For flush cutting. For flush cutting.

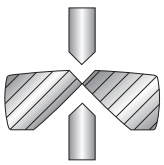
## Cutting forms as per DIN ISO 5742



**Cutting without cutting bevel (without chamfer)**
For flush cutting of plastics.



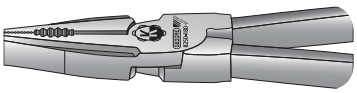
**Cutting with a slight cutting bevel (small degree of chamfer)**
Especially for the electronics field.



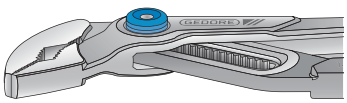
**Cutting with cutting bevel (with chamfer)**
Especially for steel wire, piano wire and springs.
The large chamfer ensures a long service life of the cutting edge.

## Joint types

**lap joint**

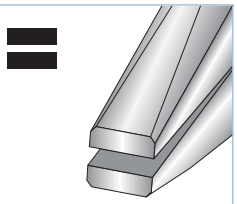


**inserted joint**

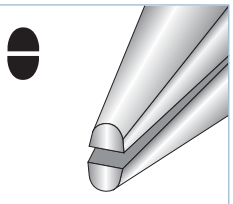


**safety-box joint**

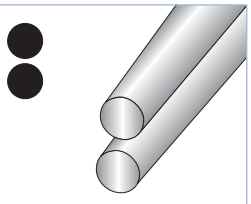
## Basic jaw forms



flat jaws



flat/round jaws

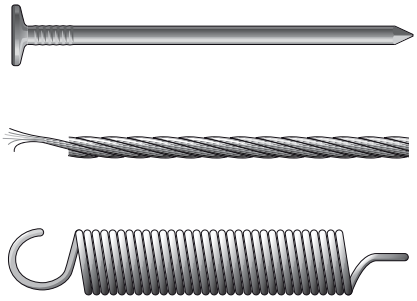


round jaws

## Care note

An occasional drop of oil on the joint will ensure that your pliers have a long life.

## Wire categories to DIN ISO 5744



| Material examples | Wire hardness | Tensile strength N/mm² |
|---|---|---|
| Nail, wire nail, bronze wire | soft | approx. 600 |
| Wire rope fibre, steel wire | medium-hard | approx. 1600 |
| Spring-steel wire | hard/Piano wire | approx. 2300 |

## Technical Features

# POWER PLIERS

+ Trapezoidal finger protection stops hands slipping, ensuring maximum safety.

+ Optimum application of force transmitted from ergonomically formed grip sleeves.

+ Hot-forged, special hardened and tempered steel.

+ Extremely strong cutting performance resulting from supplementary GEDORE induction hardening, suitable for heavy continuous use.

+ 2-component handles for comfort grip, eliminating fatigue over prolonged periods of use.

GEPRÜFTE QUALITÄT AUSTRIA GÜTEZEICHEN 50.099 APPROVED QUALITY

GARANTIE

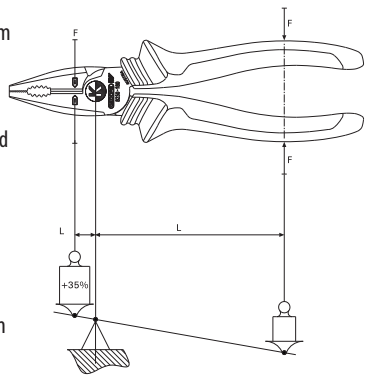
## Force equation

$\Sigma$ **M** (rivet) = 0 = **F**(hand) x L(hand) = **F**(cutting edges) x **L**(optimum cutting edge distance)

The eccentric pivot point ensures that the hand torque (force x path) applied over the rivet (fulcrum) is effectively and positively translated into cutting force.

$$F(\text{cutting edges}) = \frac{F(\text{hand}) \times L(\text{hand})}{L(\text{optimum cutting edge distance})}$$

The greatly improved effective length of this design achieves increased cutting force. Optimised lever ratios bring a 35 % reduction in the effort required.




## Working principle POWER PLIERS

"K" identifies the GEDORE Power Pliers range, offering increased cutting and gripping force with up to 35 % less effort.
Power pliers: The effort required in using them is

# The great pliers range

## ES Tool Modules

102 – 104

## CT Tool Modules

107 – 108

## Plier assortments

402 – 407

## VDE Insulated Safety Tools

561 - 566

## On application

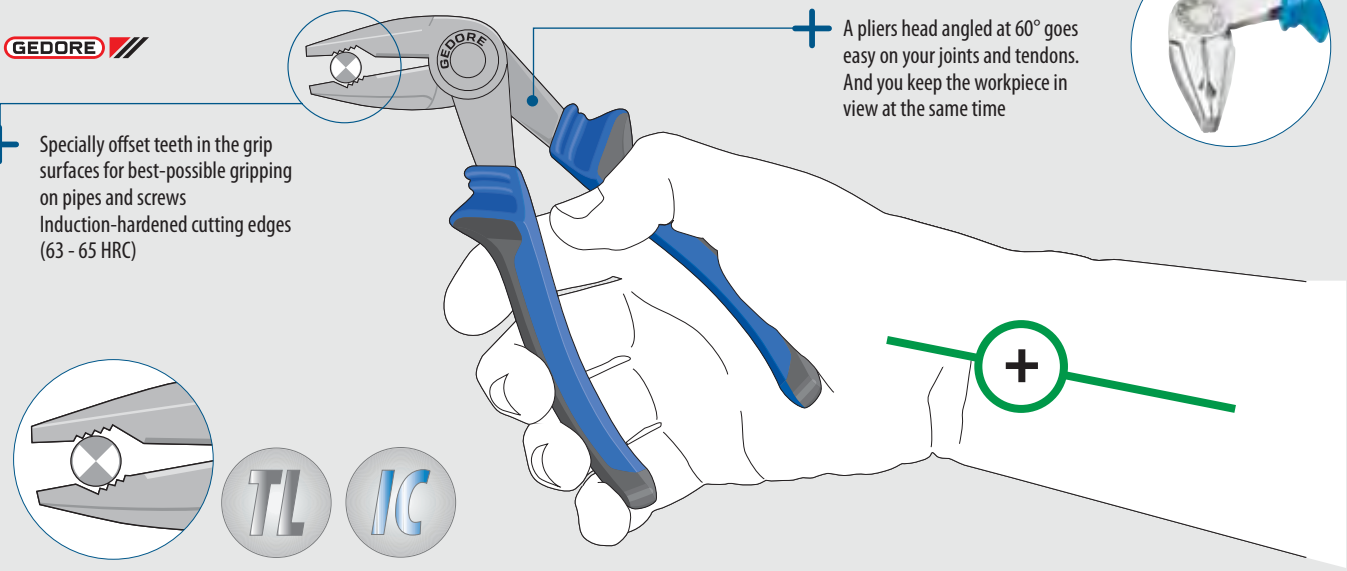
## Pliers

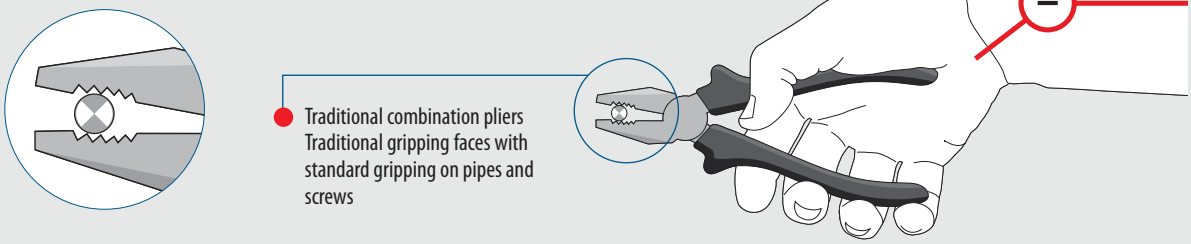
- Wear protective goggles when working with pliers! Ejected bits of wire and circlips not correctly positioned in the tip of the pliers pose a risk to your eyes!
- Check on the jaws for wear and tear! Worn jaws result in slipping and thus in accidents.
- The joint of the pliers is not to have any noticeable play! Exceptions are the sliding joints.
- When cutting wire, choose pliers that match the wire diameter and wire hardness!
- Never use pliers as hammers!
- Only insulated and tested pliers are to be used when working on electrical equipment!
- Grip wrenches are only for briefly fixing workpieces!



Quantities in packs may vary.

## 8248 Angled combination pliers

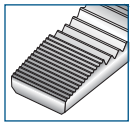


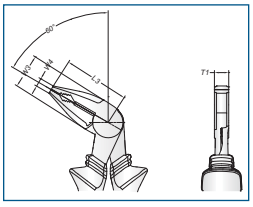




### 8248

**ANGLED COMBINATION PLIERS**

- For the toughest of demands
- Combination pliers with a 60° angled pliers head
- Optimum utilisation of the power in one's hands
- No forced positioning of the hand
- Fatigue-free working over a long period made possible
- High-grade GEDORE special hardened and tempered steel for high cutting performance and a long service life
- Induction-hardened precision cutting edges, hardness 63 - 65 HRC
- For all wires including piano wire, 1.6 mm
- Hot-drop forged
- JC = chrome-plated, 2-component handle protectors
- TL = clear varnished, with blue dipped non-slip handles





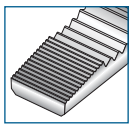
| Code | No. | L | $L_3$ | $W_3$ | $W_4$ | $T_1$ | | |
|---|---|---|---|---|---|---|---|---|
| 2276585 | **8248-160 JC** | 165 | 46 | 24 | 6 | 10 | 245 | 1 |
| 2276763 | **8248-160 TL** | 165 | 46 | 24 | 6 | 10 | 220 | 5 |

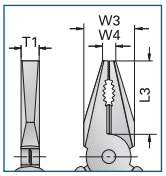
Quantities in packs may vary.

## 8200

### SMALL COMBINATION PLIERS

- Practical small combination pliers especially for confined spaces or as car-boot tool
- For flat and round material
- For medium-hard wire, 1.6 mm
- Similar to DIN ISO 5746
- GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- JCP = chrome-plated, with 2-component handle protectors



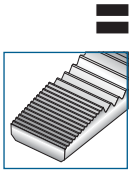


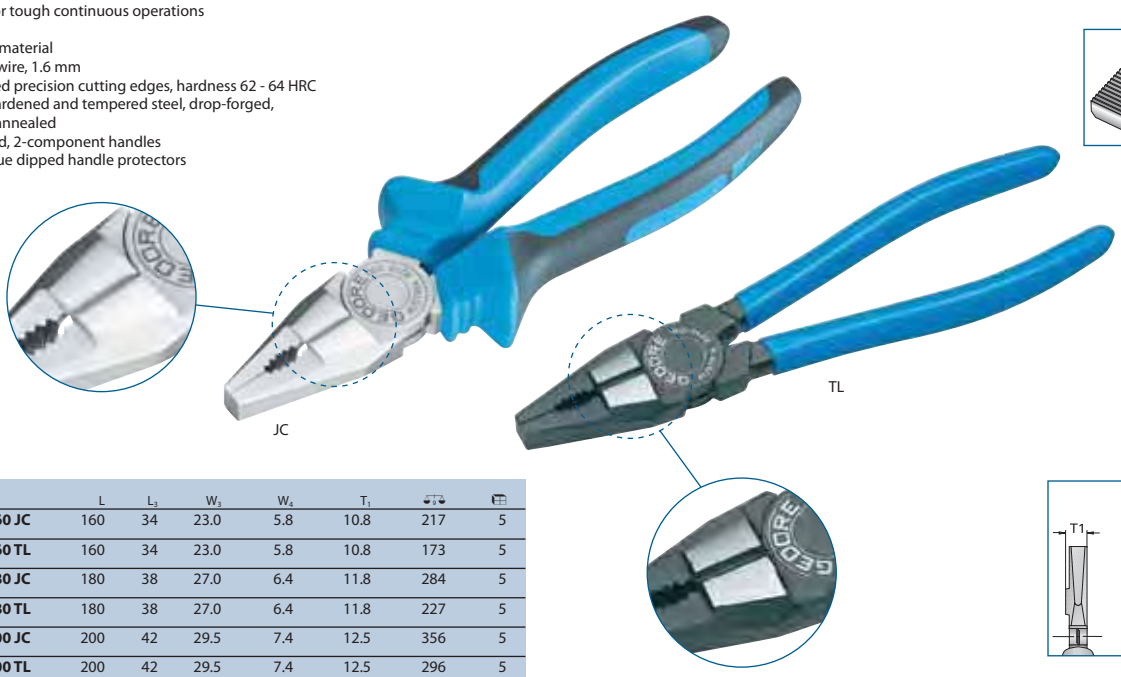

| Code | No. | L | $L_3$ | $W_3$ | $W_4$ | $T_1$ | | |
|---|---|---|---|---|---|---|---|---|
| 6730480 | **8200-125 JCP** | 125 | 25 | 16 | 3.2 | 7.6 | 117 | 1 |

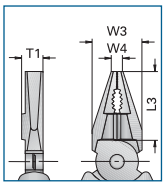
## 8210

### COMBINATION PLIERS German pattern

- Acc. to DIN ISO 5746
- Reinforced type, for tough continuous operations
- Lay-on cutter box
- For flat and round material
- For medium-hard wire, 1.6 mm
- Induction-hardened precision cutting edges, hardness 62 - 64 HRC
- GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- JC = chrome-plated, 2-component handles
- TL = black, with blue dipped handle protectors





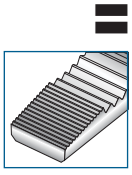



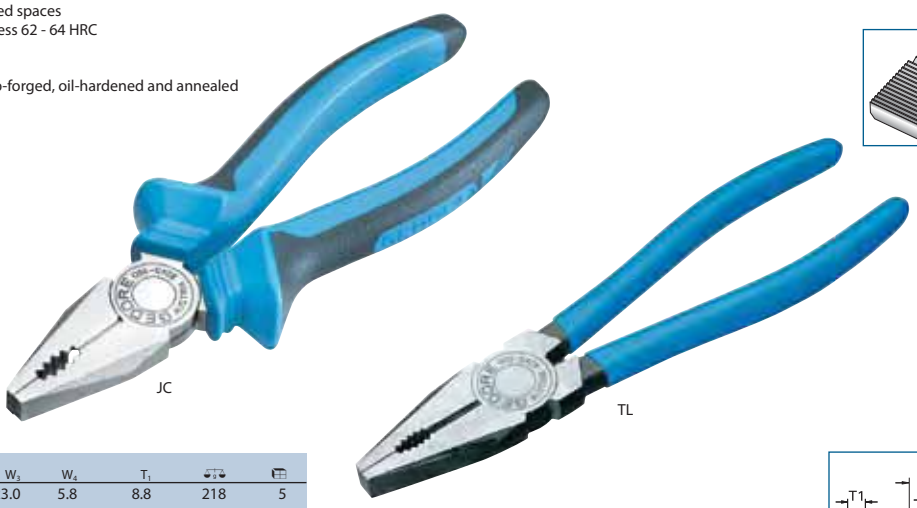

| Code | No. | L | $L_3$ | $W_3$ | $W_4$ | $T_1$ | | |
|---|---|---|---|---|---|---|---|---|
| 6731100 | **8210-160 JC** | 160 | 34 | 23.0 | 5.8 | 10.8 | 217 | 5 |
| 6711340 | **8210-160 TL** | 160 | 34 | 23.0 | 5.8 | 10.8 | 173 | 5 |
| 6731530 | **8210-180 JC** | 180 | 38 | 27.0 | 6.4 | 11.8 | 284 | 5 |
| 6711420 | **8210-180 TL** | 180 | 38 | 27.0 | 6.4 | 11.8 | 227 | 5 |
| 6732180 | **8210-200 JC** | 200 | 42 | 29.5 | 7.4 | 12.5 | 356 | 5 |
| 6711850 | **8210-200 TL** | 200 | 42 | 29.5 | 7.4 | 12.5 | 296 | 5 |

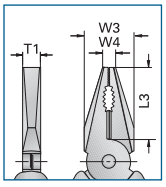
## 8245

### COMBINATION PLIERS Euro pattern

- Acc. to DIN ISO 5746
- Universal model with slimline head, ideal for confined spaces
- Induction-hardened precision cutting edges, hardness 62 - 64 HRC
- For flat and round material
- For medium-hard wire, 1.6 mm
- GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- JC = chrome-plated, 2-component handles
- TL = black, with blue dipped handle protectors





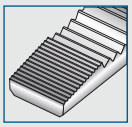

| Code | No. | L | $L_3$ | $W_3$ | $W_4$ | $T_1$ | | |
|---|---|---|---|---|---|---|---|---|
| 6733070 | **8245-160 JC** | 160 | 34 | 23.0 | 5.8 | 8.8 | 218 | 5 |
| 6730050 | **8245-160 TL** | 160 | 34 | 23.0 | 5.8 | 8.8 | 174 | 5 |
| 6733150 | **8245-180 JC** | 180 | 38 | 27.0 | 6.4 | 9.8 | 280 | 5 |
| 6730210 | **8245-180 TL** | 180 | 38 | 27.0 | 6.4 | 9.8 | 230 | 5 |
| 6733230 | **8245-200 JC** | 200 | 42 | 29.5 | 7.4 | 10.5 | 363 | 5 |
| 6730720 | **8245-200 TL** | 200 | 42 | 29.5 | 7.4 | 10.5 | 297 | 5 |



Quantities in packs may vary.

## 8250 Power combination pliers

Maximum cutting performance yet with a low level of effort expended thanks to an optimum interaction of cutting geometry, eccentric rivet bearing and ergonomic handle design.



**1500 ES** 102 – 104

**S 8003 JC** 402

**1500 CT** 107 – 108

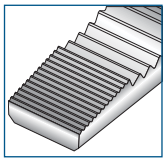
### 8250

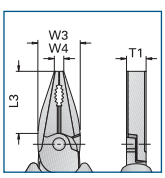
### POWER COMBINATION PLIERS

- Acc. to DIN ISO 5746
- For heavy continuous use
- Good lever action for easy cutting
- Induction-hardened precision cutting edges, hardness 62 - 64 HRC
- For flat and round material
- To cut all wire types including piano wire, 1.6 mm
- GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- JC = chrome-plated, 2-component handles
- TL = black, with blue dipped handle protectors

JC

TL



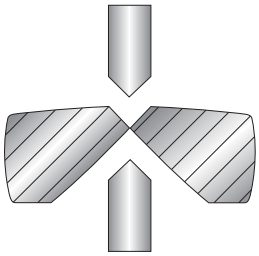



| Code | No. | L | $L_3$ | $W_3$ | $W_4$ | $T_1$ | | |
|---|---|---|---|---|---|---|---|---|
| 1429566 | **8250-160 JC** | 160 | 35.0 | 22.8 | 5.8 | 10.4 | 225 | 5 |
| 1429574 | **8250-160 TL** | 160 | 35.0 | 22.8 | 5.8 | 10.4 | 180 | 5 |
| 6707070 | **8250-180 JC** | 180 | 38.5 | 25.6 | 6.5 | 11.0 | 282 | 5 |
| 6707660 | **8250-180 TL** | 180 | 38.5 | 25.6 | 6.5 | 11.0 | 227 | 5 |
| 6707310 | **8250-200 JC** | 200 | 39.5 | 27.0 | 6.5 | 12.4 | 360 | 5 |
| 6707740 | **8250-200 TL** | 200 | 39.5 | 27.0 | 6.5 | 12.4 | 288 | 5 |
| 6708040 | **8250-225 TL** | 225 | 42.2 | 27.7 | 6.5 | 13.0 | 351 | 1 |

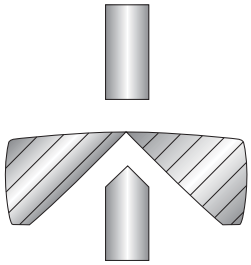
Quantities in packs may vary.

## Cutting edge with and without bevel

- Cutting represents chip-free severing
- The most important criterion when cutting is the cutting pressure. It is determined by two factors: the material to be cut and the force to be applied.
- A high cutting pressure is needed for hard materials, such as wire, so as to sever the molecular connection.
- Cutting edges without bevel cut burr-free and are only suitable for soft materials (plastics). Deburring of the cutting edge is no longer required.
- With hard materials their service life is not long enough for economic deployment. Hard material would be crushed and thus compacted. As a result, the material density rises and the cutting pressure has to be raised time and time again until the cutter is completely blunt.
- For a long service life, the cutter is provided with a bevel (also used to be called chamfer) for hard materials. This stops any crushing of the hard material.



Cutter with bevel

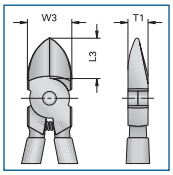


Cutter without bevel

### 8313

**SIDE CUTTER for plastic**

- Without cutting edge bevel, for flush cutting of plastic parts
- Black, cutting faces flat-ground, with compression spring for automatic opening
- With blue dipped handle protectors (TL)

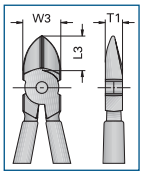



| Code | No. | L | $L_3$ | $W_3$ | $T_1$ | | |
|---|---|---|---|---|---|---|---|
| 6745910 | **8313-125 TL** | 125 | 16.0 | 17.0 | 8.5 | 116 | 1 |
| 6746050 | **8313-140 TL** | 140 | 18.5 | 18.5 | 9.5 | 131 | 1 |
| 6746130 | **8313-160 TL** | 160 | 19.0 | 22.0 | 10.0 | 184 | 1 |

### 8314

**SIDE CUTTER Swedish pattern**

- Acc. to DIN ISO 5749
- With slender head - ideal for confined spaces
- Induction-hardened precision cutting edges, hardness 63 - 65 HRC
- For medium-hard wire, 1.6 mm
- GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- JC = chrome-plated, 2-component handles
- TL = black, with blue dipped handle protectors

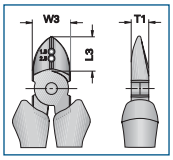



| Code | No. | L | $L_3$ | $W_3$ | $T_1$ | Ø | | |
|---|---|---|---|---|---|---|---|---|
| 6742300 | **8314-125 JC** | 125 | 16.0 | 17.0 | 8.5 | 1,6 | 146 | 5 |
| 6740870 | **8314-125 TL** | 125 | 16.0 | 17.0 | 8.5 | 1,6 | 107 | 5 |
| 6742730 | **8314-140 JC** | 140 | 18.5 | 18.5 | 9.5 | 1,6 | 176 | 5 |
| 6740950 | **8314-140 TL** | 140 | 18.5 | 18.5 | 9.5 | 1,6 | 129 | 5 |
| 6743380 | **8314-160 JC** | 160 | 19.0 | 22.0 | 10.0 | 1,6 | 230 | 5 |
| 6741090 | **8314-160 TL** | 160 | 19.0 | 22.0 | 10.0 | 1,6 | 173 | 5 |

### 8315

**ELECTRICIANS' SIDE CUTTER**

- Double-function electricians' side cutters: for cutting and stripping wire
- Stripping notches for single and multi-strand wire, 1.5 mm² and 2.5 mm² conductor cross-section
- Induction-hardened precision cutting edges, hardness 61 - 63 HRC
- GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- JC = chrome-plated, 2-component handles



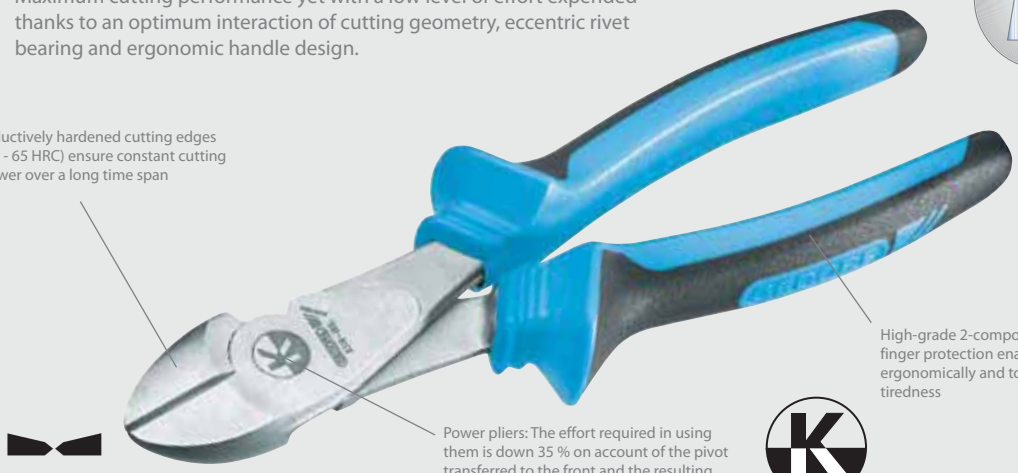

| Code | No. | L | $L_3$ | $W_3$ | $T_1$ | mm² | | |
|---|---|---|---|---|---|---|---|---|
| 1396722 | **8315-160 JC** | 160 | 19 | 22 | 10 | 1,5 / 2,5 | 235 | 1 |



Quantities in packs may vary.

## 8316 Power side cutter

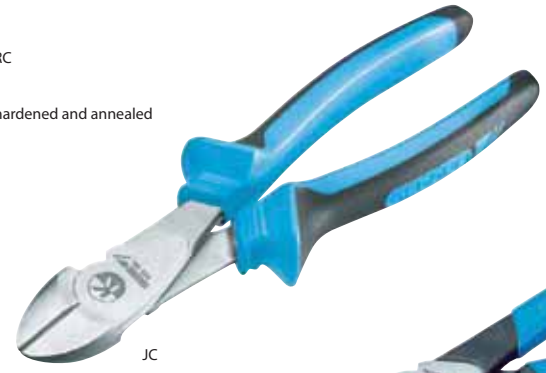
Maximum cutting performance yet with a low level of effort expended thanks to an optimum interaction of cutting geometry, eccentric rivet bearing and ergonomic handle design.



## 8316

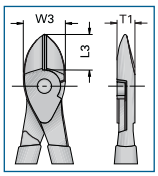
### POWER SIDE CUTTER American pattern

- Acc. to DIN ISO 5749
- Good lever action for easy cutting
- Induction-hardened precision cutting edges, hardness 63 - 65 HRC
- For hard wire/piano wire - values see table
- Max. cutting capacity Ø 1.4 - 2.0 mm
- GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- JC = chrome-plated, 2-component handles
- TL = black, with blue dipped handle protectors


JC

TL

| Code | No. | L | $L_3$ | $W_3$ | $T_1$ | Ø | | |
|---|---|---|---|---|---|---|---|---|
| 6744190 | **8316-140 JC** | 140 | 17.0 | 22.0 | 9.5 | 1,4 | 175 | 5 |
| 6711930 | **8316-140 TL** | 140 | 17.0 | 22.0 | 9.5 | 1,4 | 146 | 5 |
| 6744510 | **8316-160 JC** | 160 | 19.0 | 24.5 | 10.0 | 1,6 | 236 | 5 |
| 6712070 | **8316-160 TL** | 160 | 19.0 | 24.5 | 10.0 | 1,6 | 195 | 5 |
| 1439588 | **8316-180 JC** | 180 | 22.6 | 26.0 | 11.0 | 1,8 | 265 | 5 |
| 1439596 | **8316-180 TL** | 180 | 22.6 | 26.0 | 11.0 | 1,8 | 225 | 5 |
| 6745080 | **8316-200 JC** | 200 | 22.0 | 28.0 | 11.0 | 2,0 | 340 | 5 |
| 6712150 | **8316-200 TL** | 200 | 22.0 | 28.0 | 11.0 | 2,0 | 270 | 5 |




## 8318

### LEVER-ACTION SIDE CUTTER

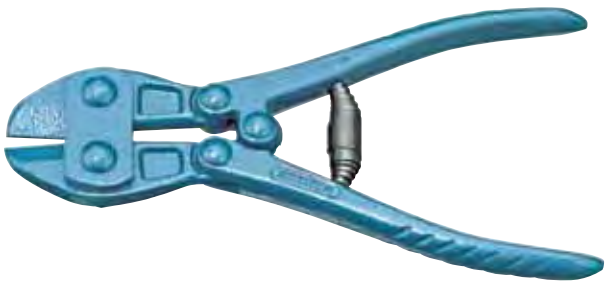
- For hard wire/piano wire 1.6 mm
- Double-jointed for maximum cutting performance
- Head and joint made from special steel, head gun-metal finished
- Handles chrome-plated and PVC coated

| Code | No. | Ø | mm | inch | | |
|---|---|---|---|---|---|---|
| 6745590 | **8318-160 TL** | 1,6 | 160 | 6.1/2 | 213 | 1 |

## 8330

### LEVER-ACTION SIDE CUTTER

- Acc. to DIN ISO 5749
- For hard wire/piano wire 2.5 mm
- Double-lever mechanism for maximum cutting performance
- C65 tool steel, fully forged
- Blue hammer-enamel finish
- * not standardised



| Code | No. | * | Ø | mm | inch | | |
|---|---|---|---|---|---|---|---|
| 6747370 | **8330-180** | * | 2,5 | 180 | 7 | 410 | 1 |
| 6747450 | **8330-225** | | 2,5 | 225 | 8.3/4 | 540 | 1 |

Quantities in packs may vary.

## 8370

### LEVER-ACTION END CUTTING NIPPER

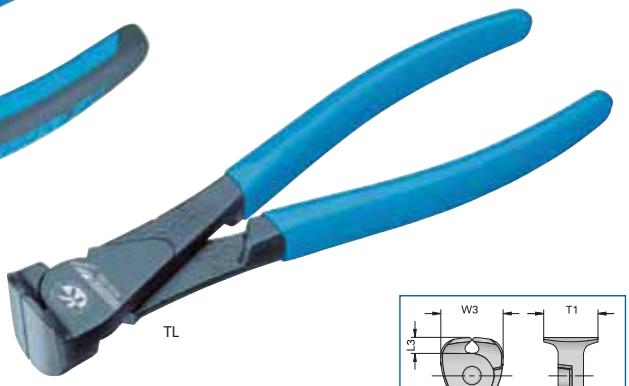
- Acc. to DIN ISO 5748
- For hard wire/piano wire - values see table
- Double-lever mechanism for maximum cutting performance
- C65 tool steel, fully forged
- Blue hammer-enamel finish
- * not standardised

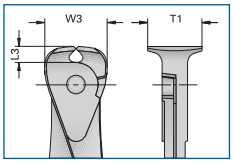
| Code | No. | * | Ø | mm | inch | | |
|---|---|---|---|---|---|---|---|
| 6750830 | **8370-180** | | 2 | 180 | 7 | 460 | 1 |
| 6751050 | **8370-210** | | 2 | 210 | 8.1/2 | 610 | 1 |
| 6751210 | **8370-235** | * | 2,5 | 235 | 9.1/4 | 755 | 1 |

## 8367

### END NIPPER POWER

- Acc. to DIN ISO 5748
- Good lever action for easy cutting
- Induction-hardened precision cutting edges, hardness 63 - 65 HRC
- For hard wire/piano wire 1.6 mm
- GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- JC = chrome-plated, 2-component handles with secure-grip hand protection
- TL = black, with blue dipped handle protectors



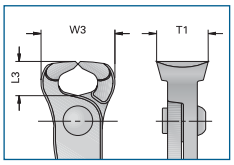




| Code | No. | L | $L_3$ | $W_3$ | $T_1$ | Ø | | |
|---|---|---|---|---|---|---|---|---|
| 6749150 | **8367-160 JC** | 160 | 6.9 | 27 | 23.5 | 1,6 | 254 | 5 |
| 6712230 | **8367-160 TL** | 160 | 6.9 | 27 | 23.5 | 1,6 | 242 | 5 |

## 8380

### TOWER PINCER

- Heavy-duty wire braid and mesh-cutting pincers
- Acc. to DIN ISO 9242, Form A
- Induction-hardened precision cutting edges, hardness 61 - 63 HRC
- For medium-hard wire, 1.6 mm
- Heads ground, black with blue dipped handle protectors (TL)
- Geometrically optimised head and handle areas for ergonomic use
- In high-quality tool steel

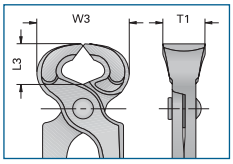



| Code | No. | L | $L_3$ | $W_3$ | $T_1$ | | |
|---|---|---|---|---|---|---|---|
| 6752020 | **8380-225 TL** | 225 | 16 | 31 | 22 | 358 | 1 |
| 6752100 | **8380-250 TL** | 250 | 16 | 35 | 25 | 423 | 1 |
| 6752290 | **8380-280 TL** | 280 | 16 | 35 | 25 | 541 | 1 |

## 8381

### PINCER

- Standard heavy-duty pincers
- Acc. to DIN ISO 9243, Form A
- Induction-hardened precision cutting edges, hardness 61 - 63 HRC
- Heads ground, black with blue dipped handle protectors (TL)
- In high-quality tool steel




| Code | No. | L | $L_3$ | $W_3$ | $T_1$ | | |
|---|---|---|---|---|---|---|---|
| 6752370 | **8381-160 TL** | 160 | 21.0 | 48 | 20 | 258 | 1 |
| 6751800 | **8381-180 TL** | 180 | 21.0 | 50 | 23 | 362 | 1 |
| 6751990 | **8381-200 TL** | 200 | 23.5 | 55 | 26 | 442 | 1 |
| 6752450 | **8381-225 TL** | 225 | 23.5 | 55 | 25 | 514 | 1 |
| 6752530 | **8381-250 TL** | 250 | 23.5 | 58 | 27 | 586 | 1 |



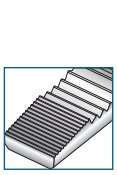
Quantities in packs may vary.

# FLAT NOSE / ROUND NOSE PLIERS

## 8110

### FLAT NOSE PLIERS without cutting edge, serrated

- Acc. to DIN ISO 5745
- Short jaws, serrated gripping faces
- For holding and bending
- GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- JC = chrome-plated, 2-component handles
- TL = black, with blue dipped handle protectors



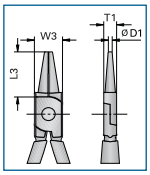



| Code | No. | L | $L_3$ | $W_3$ | $W_4$ | $T_1$ | | |
|---|---|---|---|---|---|---|---|---|
| 6711690 | **8110-140 JC** | 140 | 28.5 | 16.5 | 3.6 | 8.5 | 154 | 1 |
| 6711500 | **8110-140 TL** | 140 | 28.5 | 16.5 | 3.6 | 8.5 | 118 | 1 |

## 8112

### ROUND NOSE PLIERS serrated

- Similar to DIN ISO 5745
- Short jaws, serrated gripping faces
- For gripping and bending
- GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- JC = chrome-plated, 2-component handles
- TL = black, with blue dipped handle protectors

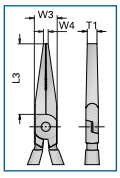



| Code | No. | L | $L_3$ | $W_3$ | $D_1$ | $T_1$ | | |
|---|---|---|---|---|---|---|---|---|
| 6713390 | **8112-140 JC** | 140 | 29.0 | 17.0 | 2.5 | 8.5 | 146 | 1 |
| 6713200 | **8112-140 TL** | 140 | 28.5 | 16.5 | 2.5 | 8.5 | 110 | 1 |

## 8120

### FLAT NOSE PLIERS without cutting edge, serrated

- Acc. to DIN ISO 5745
- Long jaws, serrated gripping faces
- For holding and bending
- GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- JC = chrome-plated, 2-component handles
- TL = black, with blue dipped handle protectors

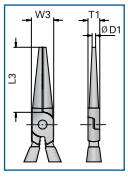



| Code | No. | L | $L_3$ | $W_3$ | $W_4$ | $T_1$ | | |
|---|---|---|---|---|---|---|---|---|
| 6715170 | **8120-160 JC** | 160 | 51 | 16.5 | 3.4 | 9 | 170 | 5 |
| 6710370 | **8120-160 TL** | 160 | 51 | 16.5 | 3.4 | 9 | 133 | 5 |

## 8122

### ROUND NOSE PLIERS serrated

- Acc. to DIN ISO 5745
- Long jaws, serrated gripping faces
- For gripping and bending
- GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- JC = chrome-plated, 2-component handles
- TL = black, with blue dipped handle protectors



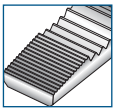

| Code | No. | L | $L_3$ | $W_3$ | $D_1$ | $T_1$ | | |
|---|---|---|---|---|---|---|---|---|
| 6716490 | **8122-140 JC** | 140 | 40 | 15.5 | 2.3 | 8.2 | 130 | 1 |
| 6710450 | **8122-140 TL** | 140 | 40 | 15.5 | 2.3 | 8.2 | 110 | 1 |
| 6716810 | **8122-160 JC** | 160 | 48 | 16.5 | 2.5 | 8.7 | 150 | 5 |
| 6710530 | **8122-160 TL** | 160 | 48 | 16.5 | 2.5 | 8.7 | 114 | 5 |

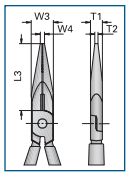
Quantities in packs may vary.

## 8132

### TELEPHONE PLIERS with cutting edge, serrated, straight pattern

- Acc. to DIN ISO 5745
- Long, flat-round jaws, straight gripping faces, serrated
- For holding, gripping, bending and cutting
- Induction-hardened precision cutting edges, hardness 61 - 63 HRC
- GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- JC = chrome-plated, 2-component handles
- TL = black, with blue dipped handle protectors



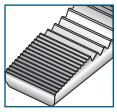


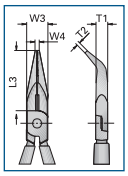
| Code | No. | L | $L_3$ | $W_3$ | $W_4$ | $T_1$ | $T_2$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 6718860 | **8132-140 JC** | 140 | 42.0 | 15.0 | 2.5 | 7.8 | 2.0 | 125 | 5 |
| 6710610 | **8132-140 TL** | 140 | 42.0 | 15.0 | 2.5 | 7.8 | 2.0 | 104 | 5 |
| 6719240 | **8132-160 JC** | 160 | 50.0 | 16.5 | 3.2 | 9.0 | 2.5 | 166 | 5 |
| 6710880 | **8132-160 TL** | 160 | 50.0 | 16.5 | 3.2 | 9.0 | 2.5 | 129 | 5 |
| 6719670 | **8132-200 JC** | 200 | 75.7 | 18.5 | 3.7 | 9.5 | 2.8 | 225 | 5 |
| 6710960 | **8132-200 TL** | 200 | 75.7 | 18.5 | 3.7 | 9.5 | 2.8 | 186 | 5 |

## 8132 AB

### BENT NOSE TELEPHONE PLIERS with cutting edge, serrated, angled pattern

- Similar to DIN ISO 5745
- Long, flat-round jaws, angled gripping surfaces, serrated
- 45 ° angled tips make gripping round the corner possible
- Induction-hardened precision cutting edges, hardness 61 - 63 HRC
- GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- JC = chrome-plated, 2-component handles
- TL = black, with blue dipped handle protectors





| Code | No. | L | $L_3$ | $W_3$ | $W_4$ | $T_1$ | $T_2$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 6720920 | **8132 AB-160 JC** | 160 | 46.0 | 16.5 | 3.2 | 9.0 | 2.5 | 163 | 5 |
| 6711180 | **8132 AB-160 TL** | 160 | 46.0 | 16.5 | 3.2 | 9.0 | 2.5 | 125 | 5 |
| 6721300 | **8132 AB-200 JC** | 200 | 70.5 | 18.5 | 3.7 | 9.5 | 2.8 | 225 | 5 |
| 6711260 | **8132 AB-200 TL** | 200 | 70.5 | 18.5 | 3.7 | 9.5 | 2.8 | 190 | 5 |


**1500 ES** 102 – 104

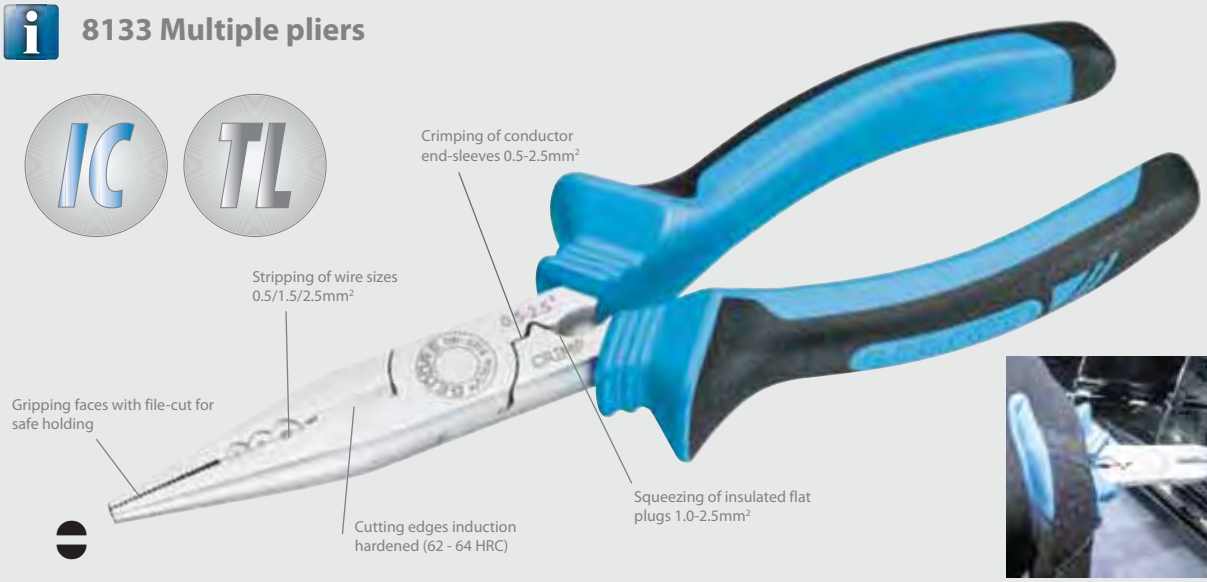
**S 8003 JC** 402

**1500 CT** 107 – 108




Quantities in packs may vary.

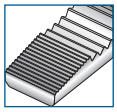
## 8133 Multiple pliers



## 8133

### MULTIPLE PLIERS with cutting edge, serrated, straight pattern

- Multifunctional pliers for the mechanical and electronic fields
- Holding, cutting, insulation-stripping, crimping, squeezing
- Flat-round jaws, straight gripping faces, serrated
- Induction-hardened precision cutting edges, hardness 62 - 64 HRC
- For medium-hard wire 1.6 mm
- GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- JC = chrome-plated, 2-component handles
- TL = clear varnished, with blue dipped handle protectors

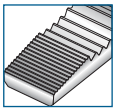


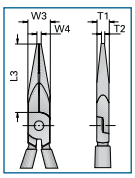
| Code | No. | | mm | | |
|---|---|---|---|---|---|
| 6722110 | **8133-180 JC** | | 180 | 180 | 5 |
| 1997394 | **8133-180 TL** | | 180 | 160 | 5 |
| 2676079 | **8133-200 JC** | | 200 | 200 | 5 |
| 2676087 | **8133-200 TL** | | 200 | 180 | 5 |

## 8135

### TELEPHONE PLIERS without cutting edge, serrated, straight pattern

- Acc. to DIN ISO 5745, straight pattern
- Flat-round tapered jaws, cross-hatched gripping surfaces and fine-tipped nose
- Also suitable as needle nose soldering pliers
- GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- JC = chrome-plated, 2-component handles
- TL = black, with blue dipped handle protectors





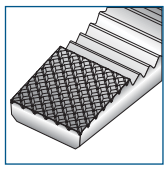

| Code | No. | L | $L_3$ | $W_3$ | $W_4$ | $T_1$ | $T_2$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 6722380 | **8135-140 JC** | 140 | 42 | 15.0 | 2.5 | 7.8 | 2.0 | 131 | 1 |
| 6722460 | **8135-140 TL** | 140 | 42 | 15.0 | 2.5 | 7.8 | 2.0 | 108 | 1 |
| 6722540 | **8135-160 JC** | 160 | 50 | 16.5 | 3.2 | 9.0 | 2.5 | 166 | 1 |
| 6722620 | **8135-160 TL** | 160 | 50 | 16.5 | 3.2 | 9.0 | 2.5 | 142 | 1 |

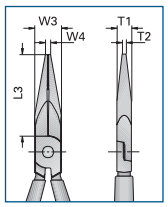
Quantities in packs may vary.

## 8136

### MECHANICS PLIERS without wire cutter, straight pattern

- Acc. to DIN ISO 5745
- Flat-round tapered jaws, cross-hatched gripping surfaces
- For holding, gripping and bending
- Fine-tipped nose, for safe work in confined spaces
- GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- JC = chrome-plated, 2-component handles
- TL = black, with blue dipped handle protectors



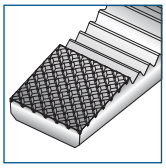


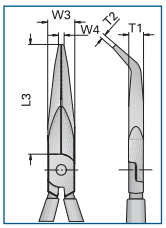

| Code | No. | L | $L_3$ | $W_3$ | $W_4$ | $T_1$ | $T_2$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 6722700 | **8136-200 JC** | 200 | 75.7 | 18.5 | 3.7 | 9.5 | 2.8 | 241 | 1 |
| 6722890 | **8136-200 TL** | 200 | 75.7 | 18.5 | 3.7 | 9.5 | 2.8 | 201 | 1 |

## 8136 AB

### MECHANICS PLIERS without wire cutter, angled pattern

- Similar to DIN ISO 5745
- Flat-round tapered jaws, cross-hatched gripping surfaces
- 45° angled tips make gripping round the corner possible
- Fine-tipped nose, for safe work in confined spaces
- GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- JC = chrome-plated, 2-component handles
- TL = black, with blue dipped handle protectors






| Code | No. | L | $L_3$ | $W_3$ | $W_4$ | $T_1$ | $T_2$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 6722970 | **8136 AB-200 JC** | 200 | 70 | 18.5 | 3.7 | 9.5 | 2.8 | 239 | 1 |
| 6723000 | **8136 AB-200 TL** | 200 | 70 | 18.5 | 3.7 | 9.5 | 2.8 | 201 | 1 |

ON APPLICATION

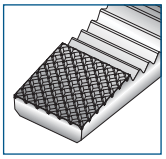
8385

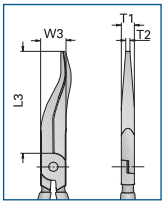
397

## 8137

### MECHANICS PLIERS without wire cutter, offset pattern

- Flat-round tapered jaws, cross-hatched gripping surfaces
- Fine-tipped nose
- Gently-curved jaws enable holding and gripping to be done in inaccessible places
- GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- JC = chrome-plated, 2-component handles



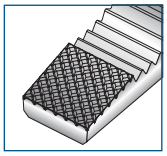


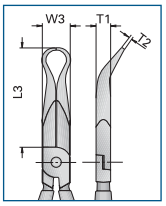

| Code | No. | L | $L_3$ | $W_3$ | $T_1$ | $T_2$ | | |
|---|---|---|---|---|---|---|---|---|
| 6723190 | **8137-200 JC** | 200 | 74 | 18.5 | 9.5 | 2.8 | 231 | 1 |

## 8138

### MECHANICS PLIERS without wire cutter, 30° angled

- 30 ° angled flat-round tapered, hooked jaws, cross-hatched gripping surfaces 30 °, fine-tipped nose
- For safe gripping, positioning and loosening of round, oval and angular parts
- Ideal for spark plug connectors and all kinds of hoses (e.g. radiator hoses)
- GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- JC = chrome-plated, 2-component handles





| Code | No. | L | $L_3$ | $W_3$ | $T_1$ | $T_2$ | | |
|---|---|---|---|---|---|---|---|---|
| 6723350 | **8138-200 JC** | 200 | 68 | 18.5 | 9.5 | 2.8 | 234 | 1 |



Quantities in packs may vary.

# CABLE CUTTER

## 8317 Bowden cable cutter

### 8317

**BOWDEN CABLE CUTTER**

- Crimping of bowden-cable sleeves and end-sleeves 1.5 mm and 2 mm
- For cutting wire rope up to 2 mm diameter and bowden-cable sleeves up to 5 mm diameter as well as for medium-hard wire
- With opening spring, transport lock and width adjustment
- Induction-hardened cutting edges
- Innovative GEDORE cutting form produces a precision cut
- Low overall weight
- DBGM (= German Utility Patent)

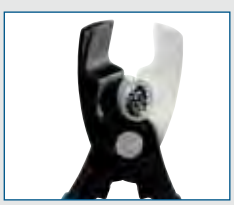
| Code | No. | mm | | |
|---|---|---|---|---|
| 2011638 | **8317-160 JC** | 170 | 150 | 1 |

# CABLE SHEARS

- The different cutting-edge geometry is ideal for plastic-coatings or copper and aluminium strands.

**First cut/coat cut:**
- Even with larger cable diameters the single-hand operation is retained.

**Second cut / dividing wires:**
- For larger cable diameters the change into the second cut enables the final separation of the strands in single-hand operation.



### 8094

**CABLE SHEARS**

- For cutting multi-strand copper and aluminium cables up to Ø 20 mm
- When using first and final cuts, the diameter increases to Ø 25 mm
- The handle width remains within the range of ergonomic single-hand operation
- First cut: Use the front blade to cut the cable sheath
- Final cut: Place the cable in the back blade and separate the wire(s)
- Cutting edges additionally inductively hardened
- Precision ground for optimum action, new cutting-edge geometry
- Adjustable screw joint with finger protection
- Not suitable for steel wire or hard-drawn copper wire
- Special hardened and tempered steel, forged, gun-metal finish, with dipped handle grips

| Code | No. | Ø | mm² | mm | inch | | |
|---|---|---|---|---|---|---|---|
| 6724910 | **8094** | 20 | 70 | 200 | 8.1/2 | 329 | 1 |

**www.gedore.com**

Quantities in packs may vary.

## 8093

### CABLE SHEARS

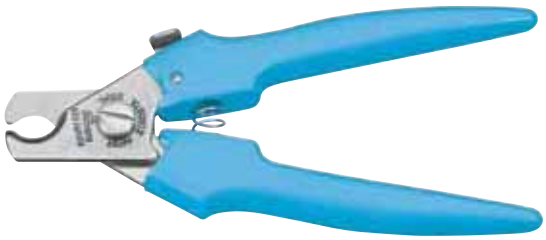
- For cutting multi-strand copper and aluminium cables up to Ø 27 mm
- Not suitable for wire ropes and steel wire
- New cutting-edge geometry for a clean, smooth cut
- Optimum lever action requires less effort
- Compact design, low weight
- Cutter head made from forged special tool steel
- High-strength tubular aluminium handles, powder-enamelled, with rubber grips

| Code | No. | Ø | mm² | mm | inch | | |
|---|---|---|---|---|---|---|---|
| 6724830 | **8093** | 27 | 150 | 505 | 20 | 1056 | 1 |

## 8095

### CABLE SHEARS

- Shear's head in stainless steel, opens automatically
- With impact-resistant plastic handles
- With practical closure
- For wire up to 10 mm²



| Code | No. | mm² | mm | inch | | |
|---|---|---|---|---|---|---|
| 6707820 | **8095-160** | 10 | 160 | 6.1/2 | 134 | 1 |

# STRIPPING PLIERS

## 8097

### STRIPPING PLIERS automatic

- With V-shaped cutting knife
- For stripping single-strand conductors 0.2 - 6.0 mm²
- Adjustable stripping length
- With wire cutter up to 2 mm

| Code | No. | mm | inch | mm² | | |
|---|---|---|---|---|---|---|
| 6702940 | **8097** | 200 | 8 | 0,2-6 | 193 | 1 |

## 8099

### STRIPPING PLIERS STRIP-FIX

- Self-adjusting, for wires 0.5 - 5.0 mm²
- V-shaped cutting jaws for stripping the plastic insulation of single and multi-strand conductors
- GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- JCP = chrome-plated, with 2-component handle protectors

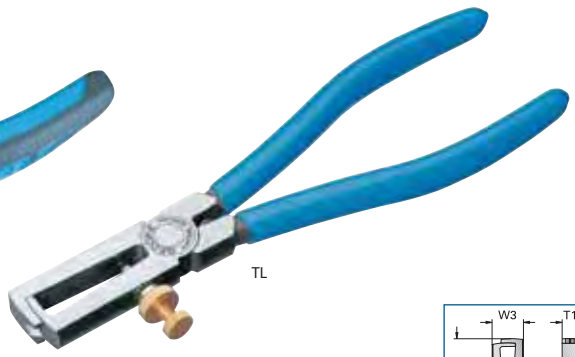
| Code | No. | mm | inch | mm² | | |
|---|---|---|---|---|---|---|
| 6709520 | **8099-160 JCP** | 160 | 6.1/2 | 0,5-5 | 217 | 1 |

## 8098

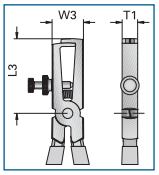
### STRIPPING PLIERS

- Opens automatically, with spring and adjusting screw
- V-shaped cutting jaws for stripping the plastic insulation of single and multi-strand conductors
- Adjuster and counter screws for easy setting to the desired wire or flex diameter
- For 0.8 - 6.0 mm wires²
- GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- JC = chrome-plated, 2-component handles with secure-grip hand protection
- TL = clear varnished, with blue dipped handle protectors

JC



TL




| Code | No. | L | $L_3$ | $W_3$ | $T_1$ | mm² | | |
|---|---|---|---|---|---|---|---|---|
| 6708630 | **8098-160 JC** | 160 | 43.5 | 18.5 | 8.5 | 0,8-6 | 198 | 5 |
| 6710020 | **8098-160 TL** | 160 | 43.5 | 18.5 | 8.5 | 0,8-6 | 153 | 5 |

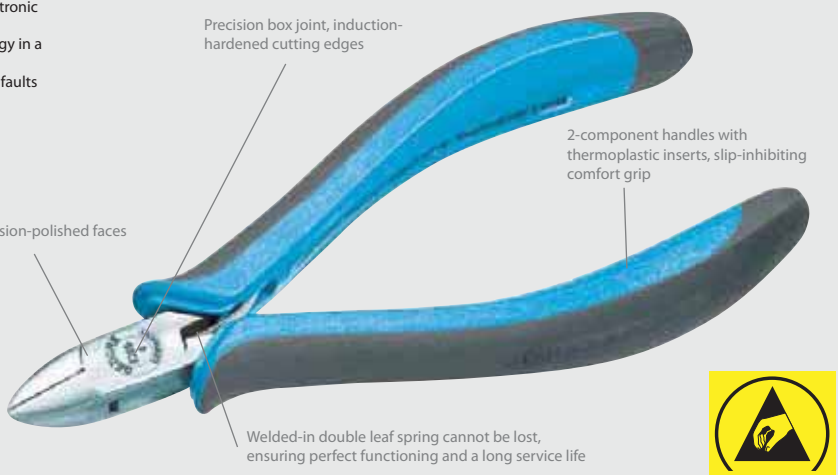


Quantities in packs may vary.

# ELECTRONIC PLIERS

## Electronic Pliers

- For bending, straightening and assembly work in the electronic and precision mechanical sector
- GEDORE ESD-electronic-pliers dissipate electrostatic energy in a slow, controlled manner
- Surfaces: Ground-steel - no flaking chrome parts to cause faults in electronic circuitry




**ESD = electrostatic discharge protection**

## Attention! Safety Note!

Due to the conductivity of the ESD 2-component handles, these tools must not be brought into contact with live conductors passing a voltage sufficient to cause an electric shock.

## Care regulation

- For safety reasons ESD pliers are not coated with chrome.
- The surface of the pliers is of polished steel and therefore is at the mercy of corrosion.
- As such, the surfaces of these pliers must be cleaned with a cloth at least 1x a day either during or after the work.
- We would recommend our 8305 MT microfibre cloth

# ELECTRONIC PLIERS SET

## S 8305 ESD

**ELECTRONIC PLIERS SET 6 pieces**

- In artificial leather wallet
- Dimensions: L 230 x W 165 x H 55 mm
- With microbfibre cloth 8305 MT

8305 MT

| Code | No. | Contents | STK |
|---|---|---|---|
| 1955551 | **S 8305 ESD** | **8305**-9<br>**8306**-1<br>**8306**-6<br>**8307**-2<br>**8307**-3<br>**8308**-1<br>**8305 MT** | 680 |
| 1969536 | **8305 MT** | | 12 |

Quantities in packs may vary.

# ELECTRONIC SIDE CUTTERS

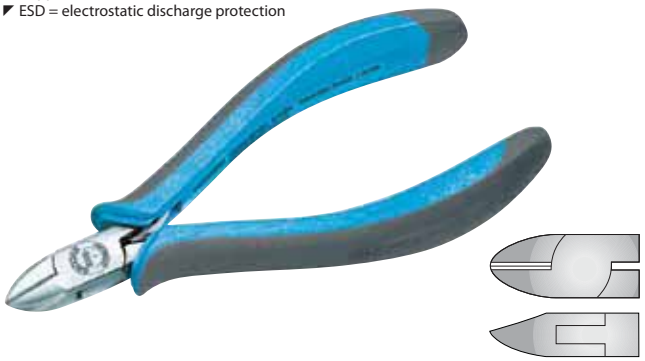
- Induction-hardened precision cutting edges, 61-63 HRC

**BL [JL] = Jaw length**
**SL [CL] = Cutting edge length**

## 8306-1

### ELECTRONIC SIDE CUTTER

- Oval head, with bevel
- Induction-hardened precision cutting edges, 61 - 63 HRC
- Cutting values:
  Hard wire: 0.4 mm/AWG 26
  Soft steel: 1.0 mm/AWG 18
  Copper wire: 1.5 mm/AWG 15
- ESD = electrostatic discharge protection

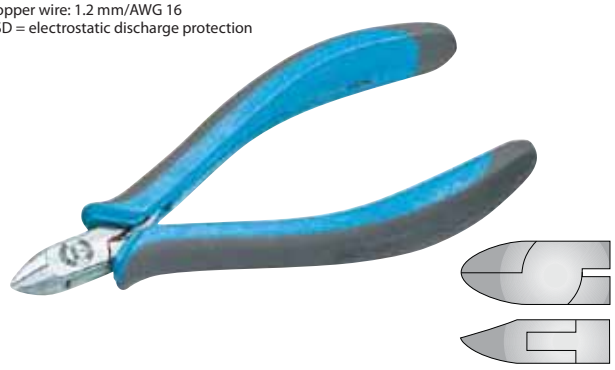


| Code | No. | CL | mm | | |
|---|---|---|---|---|---|
| 6726450 | **8306-1** | 12 | 125 | 80 | 1 |

## 8306-2

### MINIATURE ELECTRONIC SIDE CUTTER

- Short, oval head, with fine bevel
- Induction-hardened precision cutting edges, 61 - 63 HRC
- Cutting values:
  Soft steel: 0.6 mm/AWG 22
  Copper wire: 1.2 mm/AWG 16
- ESD = electrostatic discharge protection

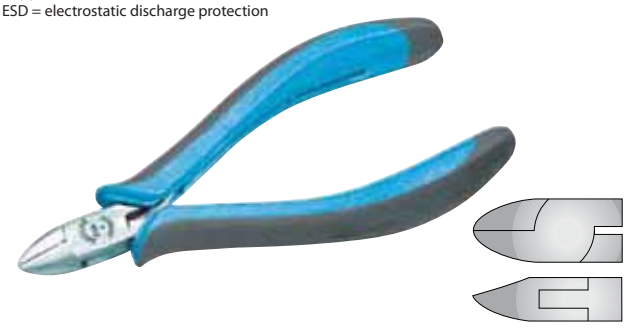


| Code | No. | CL | mm | | |
|---|---|---|---|---|---|
| 6726530 | **8306-2** | 9 | 120 | 71 | 1 |

## 8306-4

### ELECTRONIC SIDE CUTTER

- Oval head, with fine bevel
- Induction-hardened precision cutting edges, 61 - 63 HRC
- Cutting values:
  Soft steel: 1.0 mm/AWG 18
  Copper wire: 1.5 mm/AWG 15
- ESD = electrostatic discharge protection

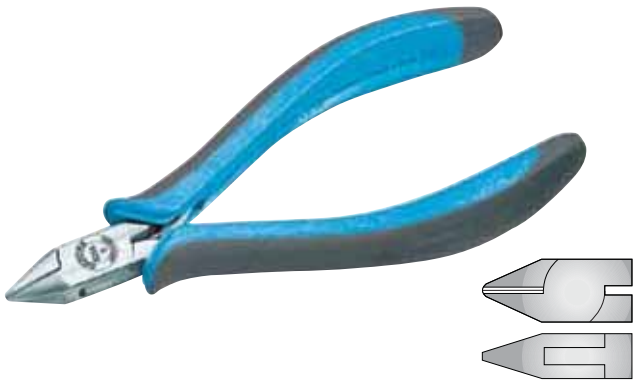


| Code | No. | CL | mm | | |
|---|---|---|---|---|---|
| 6727180 | **8306-4** | 14 | 125 | 81 | 1 |

## 8306-5

### MINIATURE ELECTRONIC SIDE CUTTER

- Pointed head, with fine bevel
- Induction-hardened precision cutting edges, 61 - 63 HRC
- Cutting values:
  Hard wire: 0.4 mm/AWG 26
  Soft steel: 1.0 mm/AWG 18
  Copper wire: 1.2 mm/AWG 16
- ESD = electrostatic discharge protection



| Code | No. | CL | mm | | |
|---|---|---|---|---|---|
| 6727340 | **8306-5** | 12 | 125 | 79 | 1 |

## 8306-6

### MINIATURE ELECTRONIC SIDE CUTTER

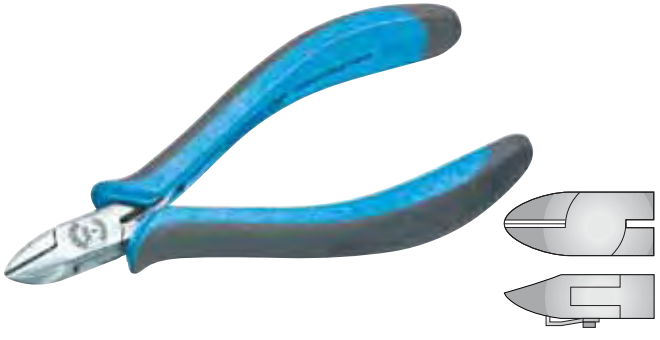
- Short, head pointed and flattened (relief-milled), with fine bevel
- Induction-hardened precision cutting edges, 61 - 63 HRC
- Cutting values:
  Soft steel: 0.6 mm/AWG 22
  Copper wire: 1.0 mm/AWG 18
- ESD = electrostatic discharge protection

| Code | No. | CL | mm | | |
|---|---|---|---|---|---|
| 6727500 | **8306-6** | 10 | 120 | 72 | 1 |

## 8306-8

### MINIATURE ELECTRONIC SIDE CUTTER

- With wire gripper
- Oval head, with bevel
- Induction-hardened precision cutting edges, 61 - 63 HRC
- Cutting values:
  Hard wire: 0.4 mm/AWG 26
  Soft steel: 1.0 mm/AWG 18
  Copper wire: 1.5 mm/AWG 15
- ESD = electrostatic discharge protection



| Code | No. | CL | mm | | |
|---|---|---|---|---|---|
| 6727930 | **8306-8** | 13 | 125 | 76 | 1 |



Quantities in packs may vary.

## ELECTRONIC SIDE CUTTER CARBIDE

- Tungsten-carbide cutting edges induction-hardened, 84-86 HRA

### 8306-7

**ELECTRONIC SIDE CUTTER CARBIDE**

- Oval head, with bevel
- Tungsten-carbide cutting edges for an extremely long service life
- Hardness 84 - 86 HRA
- Cutting values:
  Piano wire: 0.6 mm/AWG 22
  Hard steel: 1.0 mm/AWG 18
  Nickel wire: 1.2 mm/AWG 16
- ESD = electrostatic discharge protection

| Code | No. | CL | mm | | |
|---|---|---|---|---|---|
| 6727770 | **8306-7** | 11 | 125 | 76 | 1 |

### 8306-9

**ELECTRONIC SIDE CUTTER CARBIDE**

- Tungsten-carbide cutting edges for an extremely long service life
- Hardness 84 - 86 HRA
- Pointed, slim head for work in confined spaces
- Without bevel
- Cutting values:
  Piano wire: 0.3 mm
  Hard steel: 0.5 mm
  Nickel wire: 0.6 mm
- Especially for cutting SMD components
- With opening spring
- ESD = electrostatic discharge protection

| Code | No. | CL | mm | | |
|---|---|---|---|---|---|
| 1743414 | **8306-9** | 11 | 125 | 76 | 1 |

### 8306-10

**ELECTRONIC SIDE CUTTER CARBIDE**

- Oval head, with special bevel, especially suitable for cutting glass fibre and Kevlar®
- Tungsten-carbide cutting edges for an extremely long service life
- Hardness 84 - 86 HRA
- With opening spring
- ESD = electrostatic discharge protection
- Kevlar® is a registered trademark of the company DuPont

| Code | No. | CL | mm | | |
|---|---|---|---|---|---|
| 1743422 | **8306-10** | 11 | 125 | 77 | 1 |

## ELECTRONIC DIAGONAL CUTTERS AND END NIPPERS

### 8308-1

**ELECTRONIC MINI DIAGONAL CUTTER**

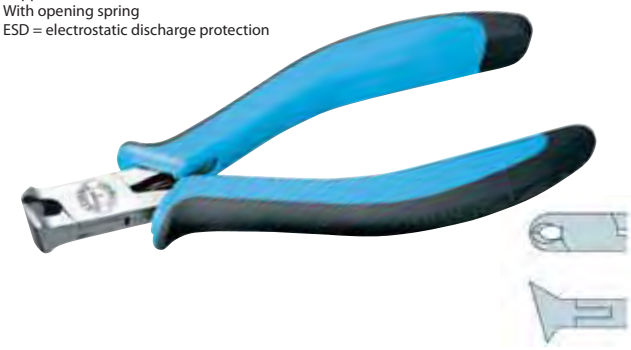
- Pointed head, cutting edges angled 55 °, with fine bevel
- For working in confined spaces
- Induction-hardened precision cutting edges, hardness 61 - 63 HRC
- Cutting values:
  Hard steel: 0.4 mm/AWG 26
  Soft steel: 1.0 mm/AWG 18
  Copper wire: 1.2 mm/AWG 16
- With opening spring
- ESD = electrostatic discharge protection

| Code | No. | CL | mm | | |
|---|---|---|---|---|---|
| 1743600 | **8308-1** | 12 | 125 | 76 | 1 |

### 8308-3

**ELECTRONIC DIAGONAL CUTTER**

- Wide head and long cutting faces, with fine bevel
- Cutting edges angled 55 °
- Head ground to a point on one side
- For working in confined spaces
- Induction-hardened precision cutting edges, hardness 61 - 63 HRC
- Cutting values:
  Hard steel: 0.4 mm/AWG 26
  Soft steel: 1.0 mm/AWG 18
  Copper wire: 1.5 mm/AWG 15
- With opening spring
- ESD = electrostatic discharge protection



| Code | No. | CL | mm | | |
|---|---|---|---|---|---|
| 1743627 | **8308-3** | 15 | 135 | 94 | 1 |

### 8308-4

**ELECTRONIC END CUTTING NIPPERS**

- Wide head and long cutting faces, with fine bevel
- High cutting performance
- Induction-hardened precision cutting edges, hardness 61 - 63 HRC
- Cutting values:
  Hard steel: 0.4 mm/AWG 26
  Soft steel: 1.0 mm/AWG 18
  Copper wire: 1.5 mm/AWG 15
- With opening spring
- ESD = electrostatic discharge protection

| Code | No. | CL | mm | | |
|---|---|---|---|---|---|
| 1743635 | **8308-4** | 15 | 135 | 98 | 1 |

Quantities in packs may vary.

# NEEDLE NOSE ELECTRONIC PLIERS

## 8305-2

### NEEDLE NOSE ELECTRONIC PLIERS

- Extra long, half-round jaws, with file-cut surface
- ESD = electrostatic discharge protection

| Code | No. | JL | mm | | |
|---|---|---|---|---|---|
| 6725480 | **8305-2** | 39 | 165 | 111 | 1 |

## 8307-4

### NEEDLE NOSE ELECTRONIC PLIERS

- Slim, narrow, flat-round tapered jaws
- Smooth-ground gripping faces
- With opening spring
- ESD = electrostatic discharge protection

| Code | No. | JL | mm | | |
|---|---|---|---|---|---|
| 1743562 | **8307-4** | 31 | 145 | 74 | 1 |

## 8305-4

### NEEDLE NOSE ELECTRONIC PLIERS

- Long, half-round jaws, with file-cut surface
- Extra fine needle nose: 1 x 1.5 mm
- ESD = electrostatic discharge protection

| Code | No. | JL | mm | | |
|---|---|---|---|---|---|
| 6725560 | **8305-4** | 23 | 135 | 79 | 1 |

## 8305-6

### FINE NEEDLE NOSE ELECTRONIC PLIERS

- Extra slim jaws and fine point
- Without file-cut
- ESD = electrostatic discharge protection

| Code | No. | JL | mm | | |
|---|---|---|---|---|---|
| 6725720 | **8305-6** | 40 | 160 | 101 | 1 |

# NEEDLE NOSE ELECTRONIC PLIERS 45° ANGLED

## 8307-3

### NEEDLE NOSE ELECTRONIC PLIERS

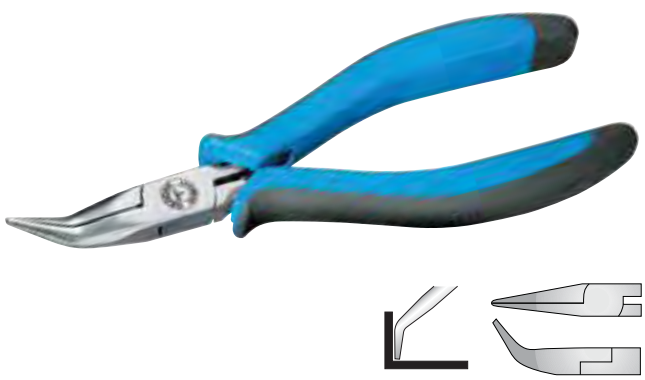
- Slim, narrow, flat-round tapered jaws, angled 45 °
- Gripping faces with fine file cut
- With opening spring
- ESD = electrostatic discharge protection

| Code | No. | JL | mm | | |
|---|---|---|---|---|---|
| 1743554 | **8307-3** | 22 | 140 | 81 | 1 |

## 8307-7

### LONG NOSE ELECTRONIC PLIERS

- Extra long, flat-round tapered jaws, angled 45 °
- For bending and straightening jobs
- Smooth-ground gripping faces
- With opening spring
- ESD = electrostatic discharge protection



| Code | No. | JL | mm | | |
|---|---|---|---|---|---|
| 1743597 | **8307-7** | 35 | 165 | 113 | 1 |



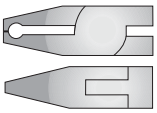
Quantities in packs may vary.

# SPECIAL ELECTRONIC PLIERS

## 8305-5

### ELECTRONIC END CUTTING NIPPERS

- Long, slim head
- Induction-hardened precision cutting edges, with fine bevel
- Cutting values:
  Soft steel: 0.6 mm/AWG 22
  Copper wire: 0.8 mm/AWG 20
- ESD = electrostatic discharge protection

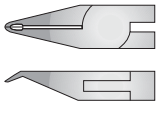


| Code | No. | CL | mm | | |
|---|---|---|---|---|---|
| 6725640 | **8305-5** | 2 | 130 | 75 | 1 |

## 8305-7

### ELECTRONIC DIAGONAL CUTTER

- 30 ° angle cutting edges, with fine bevel
- With slim head for confined spaces
- Cutting values:
  Soft steel: 0.6 mm/AWG 22
  Copper wire: 0.8 mm/AWG 20
- ESD = electrostatic discharge protection

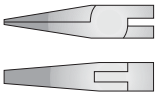


| Code | No. | CL | mm | | |
|---|---|---|---|---|---|
| 6725990 | **8305-7** | 6 | 135 | 73 | 1 |

## 8305-9

### FLAT NOSE ELECTRONIC PLIERS

- Straight pattern
- Without file-cut
- ESD = electrostatic discharge protection

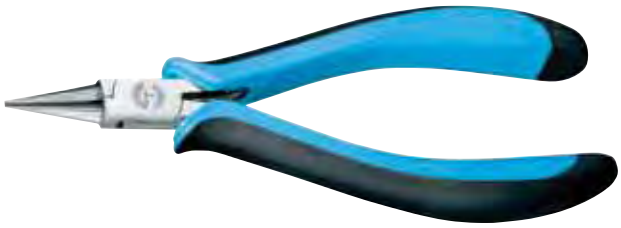


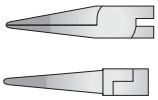
| Code | No. | JL | mm | | |
|---|---|---|---|---|---|
| 6726370 | **8305-9** | 23 | 135 | 73 | 1 |

## 8308-6

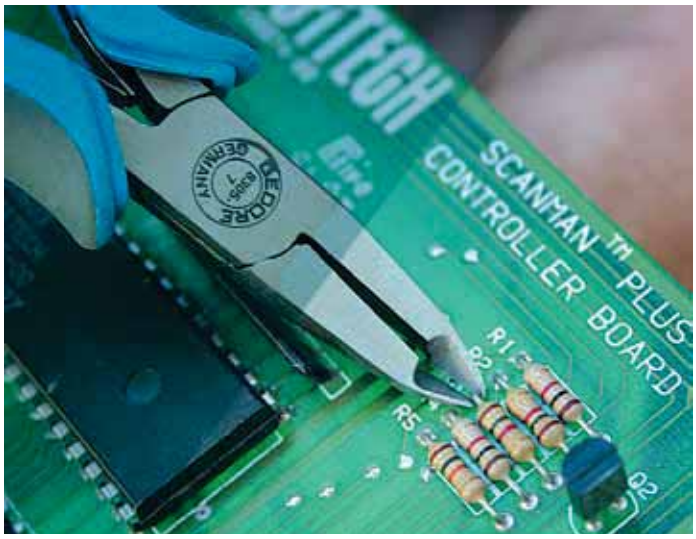
### ROUND NOSE ELECTRONIC PLIERS

- Oval head, with bevel and opening spring
- For delicate work in the electronic sector, suitable for Kevlar®
- Long service life
- Tips tapering to Ø 1 mm, without file-cut
- ESD = electrostatic discharge protection
- Kevlar® is a registered trademark of the company DuPont

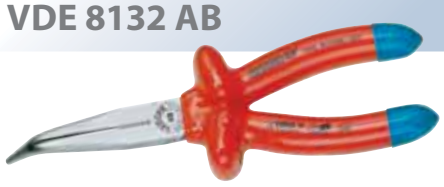




| Code | No. | JL | mm | | |
|---|---|---|---|---|---|
| 1743651 | **8308-6** | 20 | 135 | 78 | 1 |




VDE 8132 AB



565

Quantities in packs may vary.

# MINIATURE ELECTRONIC PLIERS

- Made from high-performance hardened and tempered steel, handles hardened and tempered
- Induction-rehardened cutting edges, 59-61 HRC, faces phosphated
- With opening spring
- 2-component handles with secure-grip hand protection

## 8350-2

### MINIATURE ELECTRONIC SIDE CUTTER

- Sharp, narrow needle-point head
- Cutting edges angled 21°, without bevel
- Cutting values:
  Copper wire: max. 0.8 mm / AWG 20

| Code | No. | CL | mm | | |
|---|---|---|---|---|---|
| 1828967 | **8350-2** | 8 | 138 | 73 | 5 |

## 8350-3

### MINIATURE ELECTRONIC SIDE CUTTER

- Sharp, narrow needle-point head
- With wire-grip clamp
- Cutting edges angled 21 °, without bevel
- Cutting values:
  Copper wire: max. 1.0 mm / AWG 18

| Code | No. | CL | mm | | |
|---|---|---|---|---|---|
| 1828975 | **8350-3** | 8 | 138 | 82 | 5 |

## 8350-5

### MINIATURE ELECTRONIC DIAGONAL END CUTTING NIPPERS

- Wide, needle-point head
- Cutting edges angled 48 °, without bevel
- Cutting values:
  Copper wire: max. 1.3 mm / AWG 16

| Code | No. | CL | mm | | |
|---|---|---|---|---|---|
| 1828991 | **8350-5** | 8 | 136 | 85 | 5 |

## 8350-6

### MINIATURE ELECTRONIC SIDE CUTTER

- Wide, needle-point head
- Cutting edges angled 21 °, without bevel
- Cutting values:
  Copper wire: max. 1.3 mm / AWG 16
  Medium-hard wire: max. 1.0 mm / AWG 18

| Code | No. | CL | mm | | |
|---|---|---|---|---|---|
| 1829009 | **8350-6** | 8 | 138 | 94 | 5 |

## 8350-7

### MINIATURE ELECTRONIC SIDE CUTTER

- Wide, needle-point head
- Cutting edges angled 21 °, without bevel
- Cutting values:
  Copper wire: max. 1.3 mm / AWG 16

| Code | No. | CL | mm | | |
|---|---|---|---|---|---|
| 1829017 | **8350-7** | 8 | 138 | 86 | 5 |

## 8350-8

### MINIATURE ELECTRONIC SIDE CUTTER Power Line

- Tungsten-carbide technology for heavy continuous use
- Fabric insert for increased strength
- Wide, needle-point head
- Cutting edges angled 21°, small bevel
- Cutting values:
  Copper wire: max. 2.0 mm / AWG 12
  Medium-hard wire: max. 1.6 mm / AWG 14

| Code | No. | CL | mm | | |
|---|---|---|---|---|---|
| 1829025 | **8350-8** | 12 | 140 | 110 | 5 |



Quantities in packs may vary.

## 8350-9

### MINIATURE ELECTRONIC SIDE CUTTER

- Wide, needle-point head
- With wire-grip spring
- Cutting edges angled 21 °, without bevel
- Cutting values:
  Copper wire: max. 1.3 mm / AWG 16
  Medium-hard wire: max. 1.0 mm / AWG 18

| Code | No. | CL | mm | | |
|---|---|---|---|---|---|
| 1829033 | **8350-9** | 10 | 138 | 94 | 5 |

## 8352-2

### MINIATURE ELECTRONIC FLAT NOSE PLIERS

- Long, narrow, smooth jaws

| Code | No. | JL | mm | | |
|---|---|---|---|---|---|
| 1829076 | **8352-2** | 32 | 158 | 94 | 5 |

## 8351-1

### MINIATURE ELECTRONIC SIDE CUTTER Power Line

- Tungsten-carbide technology for heavy continuous use
- Cutting edges angled 21°, slight bevel, hardness 62 HRC
- Cutting values:
  Copper wire: max. 2.0 mm / AWG 12
  Medium-hard wire: max. 1.6 mm / AWG 14
  Piano wire: max. 0.6 mm / AWG 22

| Code | No. | CL | mm | | |
|---|---|---|---|---|---|
| 1829041 | **8351-1** | 8 | 137 | 109 | 5 |

## 8352-3

### MINIATURE ELECTRONIC NEEDLE NOSE PLIERS

- Long, narrow, serrated jaws
- Cutting edges angled 45 °

| Code | No. | JL | mm | | |
|---|---|---|---|---|---|
| 1829084 | **8352-3** | 35 | 152 | 92 | 5 |

## 8352-1

### MINIATURE ELECTRONIC NEEDLE NOSE PLIERS

- Short, narrow, smooth jaws
- Surface phosphated

| Code | No. | JL | mm | | |
|---|---|---|---|---|---|
| 1829068 | **8352-1** | 20 | 145 | 90 | 5 |

## 8353-1

### MINIATURE ELECTRONIC WIRE STRIPPING PLIERS

- Multipurpose tool for cutting, stripping and terminal crimping

| Code | No. | JL | mm | mm² | AWG | | |
|---|---|---|---|---|---|---|---|
| 1829092 | **8353-1** | 40 | 175 | 0,25-08 | 30-20 | 126 | 5 |


**8353-2** 380

**8353-3** 380

**VDE 4522** 571

Quantities in packs may vary.

# ACCESSORIES

## 8353-2

### INSULATING VARNISH STRIPPER

- For removing insulating varnish
- Plastic handles
- Strips wires 0.6 mm² / AWG 22

| Code | No. | mm | mm² | AWG | | |
|---|---|---|---|---|---|---|
| 1828924 | **8353-2** | 125 | 0,6 | 22 | 47 | 1 |

## 8353-3

### WIRE STRIPPING KNIFE

- For cable sizes 4-16 mm

| Code | No. | Ø | mm | | |
|---|---|---|---|---|---|
| 1828932 | **8353-3** | 4-16 | 140 | 87 | 1 |

## 8354-1

### DE-SOLDER TOOL

- With suction action for removing solder residues when de-soldering electronic components

| Code | No. | mm | | |
|---|---|---|---|---|
| 1828940 | **8354-1** | 220 | 96 | 1 |

## 4528

### UNIVERSAL CABLE KNIFE

- For stripping round cables, 8 - 28 mm
- Hooked blade for separating cable strips and flat cables
- The cutting depth of the pivoting internal knife is adjustable
- 1 spare blade stored in handle

| Code | No. | | | | |
|---|---|---|---|---|---|
| 6698300 | **4528** | 50 | 170 | 80 | 5 |

## 4629

### INSULATING TAPE

| Code | No. | L m | mm | | |
|---|---|---|---|---|---|
| 6699540 | **4629** | 10 | 15 | 32 | 1 |

# STRIPPING TOOLS

## 137 ISOCUT

- Rotating precision blade
- Model that has proved itself in practice in the world of industry
- Screw for setting the cutting depth
- Toggle-lever locking for assured and guaranteed uniform cutting
- Suitable for various cable diameters

## 137 ISOCUT

### STRIPPING PLIERS for power lines

- Pliers for stripping one or several insulation layers of buried cables and/ or high voltage current lines up 42 mm in diameter
- The rotating quality knife makes elongated cuts possible
- The cables can be stripped over long sections using the elongated cut
- Blade length: 43 mm
- Cutting depth: 14 mm

| Code | No. | | |
|---|---|---|---|
| 1148826 | **137 ISOCUT** | 840 | 1 |

## 8147

### HEAVY-DUTY CABLE STRIPPING TOOL

- Professional wire stripping tool with 2 cable hooks
- Compact and user-friendly, even in the most difficult conditions
- For cables (up to 40 mm Ø) with any kind of insulation
- Blade can be locked in one of three positions (circular, straight or spiral cuts)
- Cable capacity: 4.5 - 40 mm Ø
- Insulation thickness: up to 4.5 mm
- Dimensions:
  with small cable hook: 150 x 42 x 30.5 mm
  with large cable hook: 167 x 52 x 30.5 mm
- E-8147 = Spare blade

| Code | No. | Ø | | |
|---|---|---|---|---|
| 1830856 | **8147** | 4,5-40 | 196 | 1 |
| 1884719 | **E-8147** | | 2 | 1 |

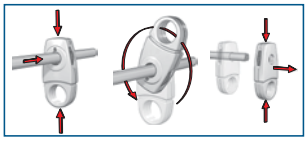


Quantities in packs may vary.

## 8148

### PRECISION STRIPPING TOOL for data cables

- User-friendly, easy to handle, all-round cut
- Precision adjustment of cutting depth (adjuster wheel with 9 positions)
- Replaceable blade
- Safe, rounded, pocket design
- Stripping capacity: 2.5 - 11 mm
- Insulation thickness: up to 1.0 mm
- Dimensions: 90.5 x 39.5 x 19 mm
- E-8148 = Spare blade

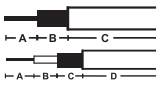


| Code | No. | Ø | | |
|---|---|---|---|---|
| 1830864 | **8148** | 2,5-11 | 43 | 1 |
| 1884727 | **E-8148** | | 2 | 1 |

## 8149

### STRIPPING TOOL for coaxial cables

- Individual blade adjustment guarantees a high level of stripping precision, all-round cut
- Supports a range of module inserts for two or three-step wire stripping, as well as V-blocks for different sizes
- User-friendly, ergonomic mechanism ensures a firm grip and easy operation
- Stripping capacity: 2.5 - 7.6 mm
- For 2-step stripping



| Code | No. | Execution | B | C | | |
|---|---|---|---|---|---|---|
| 1830872 | **8149-2** | 2 steps | 6.8 | | 82 | 1 |
| 1830880 | **8149-3** | 3 steps | 6.0 | 6.0 | 40 | 1 |

## 8146 Wire stripper

**Advantages:**

- Flexible: easy-change insert modules give this tool a wide stripping range
- Precision stripping: exact adjustment facility ensures accurate stripping - without any damage to the conductor
- Ergonomic and user-friendly: the soft main grip, easy-action operating lever, optimised span, angled head and low weight guarantee comfortable, user-friendly operation
- Reliable: tested through more than 150,000 stripping processes

## 8146

### STRIPPING PLIERS with exchangeable module inserts, self-adjusting

- Self-adjusting cutting and stripping tool (No. 8146) for modern electrical installations and equipment circuitry (90 % of all wires can be stripped without any adjustment of the tool)
- The use of easily exchangeable module inserts allows accurate stripping of a wide range of insulation materials, including PVC and PTFE, with just one tool
- Flat blade included in delivery
- Dimensions: 191 x 123 x 20 mm

**Stripping capacity:**

- 8146-1 with flat blade: 0.02-10 mm² / AWG 34-8 (for PVC insulation)
- 8146-2 with round blade: 4-16 mm² / AWG 10-5
- 8146-3 with V blade: PTFE 0.1-4 mm² / AWG 28-12 (for all types of insulation)

**Cutting values:**

- Flexible wires up to 10 mm² / AWG 8
- Rigid wires up to 1.5 mm² / AWG 16

| Code | No. | Description | mm² | AWG | | |
|---|---|---|---|---|---|---|
| 1830805 | **8146** | Stripping pliers incl. module insert 8146-1 | 0,02-10 | 34-8 | 180 | 1 |
| 1830813 | **8146-1** | Module insert with flat blade | 0,02-10 | 34-8 | 15 | 1 |
| 1830821 | **8146-2** | Module insert with round blade | 4-16 | 10-5 | 16 | 1 |
| 1830848 | **8146-3** | Module insert with V-blade | 0,1-4 | 28-12 | 16 | 1 |

Quantities in packs may vary.

## 8139

### CABLE END-SLEEVE PLIERS

- For the simple pressing of conductor end-sleeves as per DIN 46228
- With a V-block for stripping and cutting soft wire (not included on model No. 8139-2-220)
- In heat-treated steel as per DIN
- TL = enamelled black, with blue dipped handle protectors

| Code | No. | mm² | mm | inch | | |
|---|---|---|---|---|---|---|
| 6723510 | **8139-155 TL** | 0,25-2,5 | 155 | 6 | 186 | 1 |
| 6723780 | **8139-220 TL** | 0,5-16 | 220 | 8.1/2 | 314 | 1 |
| 6723860 | **8139-2-220 TL** | 10-35 | 220 | 8.1/2 | 316 | 1 |

## 8152 - 8153

### CRIMP WRENCH for big terminals

- Ratchet mechanism developed for uniform, reliable crimping of non-insulated crimp lug terminals to conductors and to secure completed crimping cycles and positive locking
- Assymetrical press inserts for optimal termination
- The press inserts mark the connector, to allow the correct use of the tool to be checked
- Long handles enable double-handed use and effortless crimping

| Code | No. | mm² | AWG | mm | | |
|---|---|---|---|---|---|---|
| 2010313 | **8152** | 4-25 | 12-3 | 300 | 650 | 1 |
| 2010321 | **8153** | 10-75 | 7-2/0 | 500 | 2800 | 1 |

# PRECISION CRIMP WRENCHES

- Well balanced tool design for easy handling
- Ergonomic handles for fatigue-free crimping
- Ratchet mechanism to secure completed crimping cycles

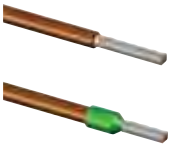
1 Place plug into the appropriate crimping nest and lightly press in!

2 Insert the stripped wire into the socket and press in.

3 The pliers open on their own once the correct crimping pressure is obtained.

## 8141

### PRECISION CRIMPING WRENCH for conductor end-sleeves

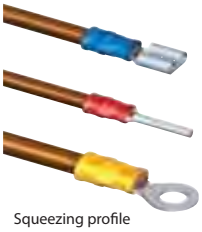


Squeezing profile

| Code | No. | mm² | mm | inch | | |
|---|---|---|---|---|---|---|
| 1830759 | **8141** | 0,5-6 | 197 | 7,75 | 423 | 1 |

## 8142

### PRECISION CRIMP WRENCH for insulated terminals



Squeezing profile

| Code | No. | mm² | mm | inch | | |
|---|---|---|---|---|---|---|
| 1830767 | **8142** | 0,5-6 | 255 | 10,04 | 626 | 1 |

## 8143 - 8144

### PRECISION CRIMP WRENCH for non-insulated terminals

Squeezing profile

| Code | No. | mm² | mm | inch | | |
|---|---|---|---|---|---|---|
| 1830775 | **8143** | 0,35-2,5 | 212 | 8,35 | 536 | 1 |
| 1830783 | **8144** | 4-10 | 255 | 10,04 | 614 | 1 |

## 8145

### PRECISION CRIMP WRENCH for flat plugs

Squeezing profile

| Code | No. | mm² | mm | inch | | |
|---|---|---|---|---|---|---|
| 1830791 | **8145** | 0,5-6 | 255 | 10,04 | 628 | 1 |



Quantities in packs may vary.

## 8101, 8102, 8103

- For cutting, wire stripping, and crimping when working with insulated contacts with an open or closed crimping zone
- Integrated dead-point locking ensures complete crimping to the required profile
- Cutter for cables with a conductor cross-section up to 10.0 mm²
- Perfectly formed crimping area for all standard connector types. With correct use, pull-out values to EN 352/2 are easily archived

### 8101

**CRIMPING SELF-GRIP WRENCH**

- For red, blue and yellow insulated connectors, such as cable terminals, pin cable terminals, flat plugs, flat sockets, round plugs, round sockets, push connectors and parallel connectors
- With integrated three-stage positioner
- Step 1. Crimp the conductor in the profile intended for the colour (Conductor crimp = red, blue, or yellow)
- Step 2. Crimp the insulation in the next following profile (Insulation crimp = blue or yellow)
- The integrated three-stage positioner ensures the longitudinal positioning of the contact i n the crimping section used
- The three-stage adjustment ist designed especially for the contacts, and shown as drawings on the positioner
- Cutting values:
  1: 0,5-1,0 mm² / 20-16 AWG
  2: 1,5-2,5 mm²/ 16-14 AWG
  3: 4,0-6,0 mm² / 12-10 AWG

| Code | No. | mm² | AWG | mm | inch | | |
|---|---|---|---|---|---|---|---|
| 6723940 | **8101** | 0,5-6 | 20-10 | 215 | 8 | 556 | 1 |

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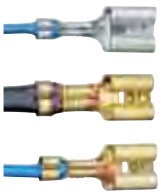
### 8102

**CRIMPING SELF-GRIP WRENCH**

- For non-insulated contacts with open crimping sleeves, such as flat plugs F 2.8 and F 6.3
- Lead and insulation crimp are carried out in one operation

**Section types/ Connector type:**

- Flat plug F 6.3
- 1: 0,5-1,0 mm² / 20-16 AWG
- 2: 1,5-2,5 mm² / 16-14 AWG
- 3: 4,0-6,0 mm² / 12-10 AWG
- Flat plug F 2.8
- 4: 0,5-1,0 mm² / 20-16 AWG

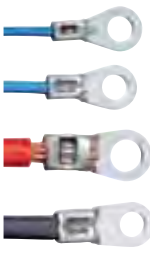


| Code | No. | mm² | AWG | mm | inch | | |
|---|---|---|---|---|---|---|---|
| 6724080 | **8102** | 0,5-6 | 20-10 | 215 | 8 | 572 | 1 |

### 8103

**CRIMPING SELF-GRIP WRENCH**

- For non-insulated contacts with closed crimping sleeves, such as eye lugs, pin terminals, butt and parallel connectors and miniature ring terminals
- Cutting values:
  1: 0.5-1.0 mm² / 20-16 AWG
  2: 1.5-2.5 mm² / 16-14 AWG
  3: 4.0-6.0 mm² / 12-10 AWG
  4: 10 mm² / 8 AWG



| Code | No. | mm² | AWG | mm | inch | | |
|---|---|---|---|---|---|---|---|
| 6724160 | **8103** | 0,5-10 | 20-8 | 215 | 8 | 536 | 1 |

Quantities in packs may vary.

# CRIMP WRENCH MODULAR

**Advantages:**
- Reliable: parallel action ensures precision crimping
- Easy to handle: components kept in view throughout the crimping process, easily accessible release function allows quick change of insert modules without the use of additional tools
- Comfortable: lightweight, plastic-sheathed tool frame for comfort grip - even at low temperatures
- Practical: insert modules, easy to change and clearly labelled, supplied in pairs on an pin in a storage box to prevent loss (storage boxes interconnect - like in a jigsaw puzzle)
- Versatile and economical: just one tool base frame can be used with all the various insert modules to carry out a wide range of crimping processes, including heavy plug and socket connectors, coaxial connectors, optic fibres and RJ45 plugs.

## Changing of the crimping inserts

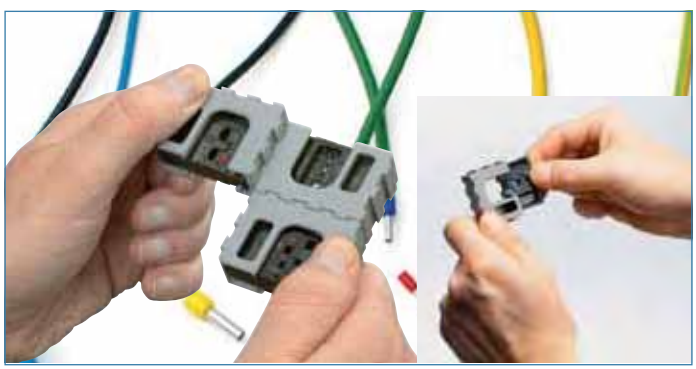
- By pressing the release of the crimping insert you can easily remove the crimping insert.
- Remove the crimping insert and put in the required crimping insert while pressing down the release.

## 8140

### MODULAR CRIMP WRENCH

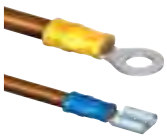
- Professional ratchet crimping pliers for most types of mechanical, electrical and electronic connectors
- Just one tool base frame (No. 8140) can be used with all insert modules
- Dimensions: L 234 x H 64 x W 24 mm
- Module inserts changeable without tools

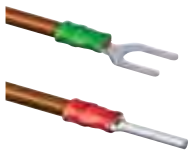
| Code | No. | mm | g | |
|---|---|---|---|---|
| 1830546 | **8140** | 234 | 557 | 1 |

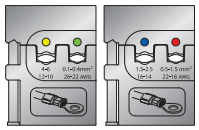


## 8140-01/-02

### MODULE INSERT for insulated terminals



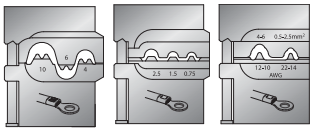




| Code | No. | mm² | AWG | g | |
|---|---|---|---|---|---|
| 1830554 | **8140-01** | 0,1-0,4 + 4-6 | 26-22 + 12-10 | 75 | 1 |
| 1830562 | **8140-02** | 0,5-1,5 + 1,5-2,5 | 22-16 + 16-14 | 68 | 1 |

## 8140-03/-04/-05

### MODULE INSERT for non-insulated terminals



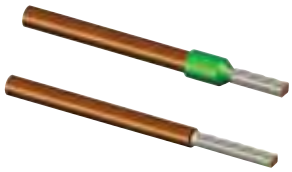
| Code | No. | mm² | AWG | g | |
|---|---|---|---|---|---|
| 1830570 | **8140-03** | 4-6-10 | 12-10-8 | 56 | 1 |
| 1830589 | **8140-04** | 0,75-1,5-2,5 | | 76 | 1 |
| 1830597 | **8140-05** | 0,5-2,5 + 4-6 | 22-14 + 12-10 | 56 | 1 |

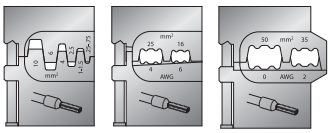


Quantities in packs may vary.

## 8140-06/-07/-08

### MODULE INSERT for conductor end-sleeves

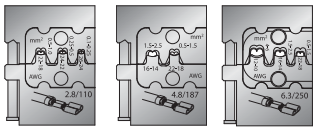




| Code | No. | mm² | AWG | | |
|---|---|---|---|---|---|
| 1830600 | **8140-06** | 0,25-10 | | 56 | 1 |
| 1830619 | **8140-07** | 16-25 | 6-4 | 56 | 1 |
| 1830627 | **8140-08** | 35-50 | 2-0 | 56 | 1 |

## 8140-09/-10/-11

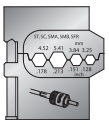
### MODULE INSERT for flat plugs



| Code | No. | Connector type | mm² | AWG | | |
|---|---|---|---|---|---|---|
| 1830635 | **8140-09** | 2,8 | 0,1-1 | 26-18 | 72 | 1 |
| 1830643 | **8140-10** | 4,8 | 0,5-2,5 | 22-14 | 56 | 1 |
| 1830651 | **8140-11** | 6,3 | 0,5-6 | 22-10 | 80 | 1 |

## 8140-12

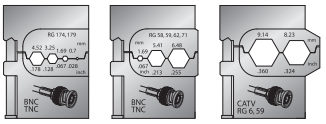
### MODULE INSERT for optical waveguides



| Code | No. | Ø | | | | | |
|---|---|---|---|---|---|---|---|
| 1830678 | **8140-12** | 4,52 .178 | 5,41 .213 | 3,84 .151 | 3,25 mm .128 in | 56 | 1 |

## 8140-13/-14/-15

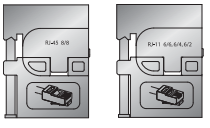
### MODULE INSERT for coax cables



| Code | No. | Connector type | Ø | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1830686 | **8140-13** | RG 174, RG 179 | 4,52 .178 | 3,25 .128 | 1,69 .067 | 0,7 mm .028 in | 56 | 1 |
| 1830694 | **8140-14** | RG 58, RG 59, RG 62, RG 71 | 1,69 .067 | 5,41 .213 | 6,48 mm .255 in | | 56 | 1 |
| 1830708 | **8140-15** | RG 6, RG 59 | 9,14 - 8,23 mm .360 - .324 in | | | | 56 | 1 |

## 8140-16/-17

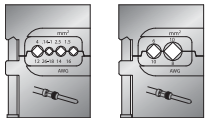
### MODULE INSERT for modular plugs



| Code | No. | Connector type | | |
|---|---|---|---|---|
| 1830716 | **8140-16** | RJ-45, 8P/8C | 50 | 1 |
| 1830724 | **8140-17** | RJ-11, 6P/6C - 6P/4C - 6P/2C | 48 | 1 |

## 8140-18/-19

### MODULE INSERT for heavy connectors

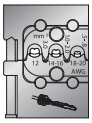


| Code | No. | mm² | AWG | | |
|---|---|---|---|---|---|
| 1830732 | **8140-18** | 0,14-4 | 26-12 | 56 | 1 |
| 1830740 | **8140-19** | 6-10 | 10-8 | 56 | 1 |

## 8140-20

### MODULE INSERT for lamellar contacts

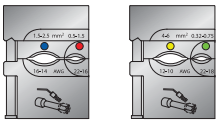
◤ With seals 0.5 - 3.0 mm²



| Code | No. | mm² | AWG | | |
|---|---|---|---|---|---|
| 1963384 | **8140-20** | 0,5-3,0 | 20-12 | 56 | 1 |

## 8140-21/-22

### MODULE INSERT for Dura Seal contacts

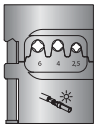


| Code | No. | mm² | AWG | | |
|---|---|---|---|---|---|
| 1963392 | **8140-21** | 0,5 - 1,5 / 1,5 - 2,5 | 22 - 16 / 16 - 14 | 80 | 1 |
| 1963406 | **8140-22** | 0,32 - 0,75 / 4 - 6 | 22 - 18 / 12 - 10 | 80 | 1 |

## 8140-23

### MODULE INSERT for Solarlok®

◤ Suitable for Tyco Solarlok®: 2.5 - 4 - 6 mm²

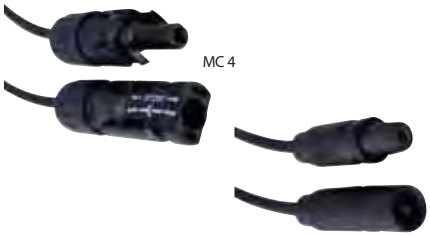


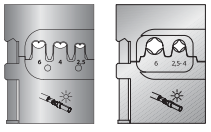
| Code | No. | | |
|---|---|---|---|
| 2078082 | **8140-23** | 86 | 1 |

## 8140-24/-25

### MODULE INSERT for Multi Contact

◤ Suitable for Multi Contact MC 3 / MC 4: 2.5 - 4 - 6 mm²



| Code | No. | Connector type | | |
|---|---|---|---|---|
| 2078090 | **8140-24** | MC 3 | 56 | 1 |
| 2078104 | **8140-25** | MC 4 | 700 | 1 |

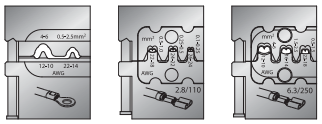
Quantities in packs may vary.

# CRIMP WRENCH SETS

## S 8140 A

### CRIMPING PLIERS SET AUTOMOTIVE 4 pieces

- Practical set made up for specific requirements in automotive engineering
- Ideal for high-standard crimping
- Can be individually upgraded by purchasing additional module inserts
- Module inserts changeable without tools
- In practical blister packaging

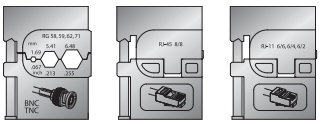


| Code | No. | Contents | | |
|---|---|---|---|---|
| 1830910 | **S 8140 A** | **8140**<br>**8140**-09 -05 -11 | 754 | 1 |

## S 8140 D

### CRIMPING PLIERS SET DATA COM 4 pieces

- Practical set made up for specific requirements in data-communications installations
- Ideal for high-standard crimping
- Can be individually upgraded by purchasing additional module inserts
- Module inserts changeable without tools
- In practical blister packaging

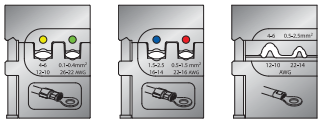


| Code | No. | Contents | | |
|---|---|---|---|---|
| 1830937 | **S 8140 D** | **8140**<br>**8140**-14 -16 -17 | 711 | 1 |

## S 8140 E

### CRIMPING PLIERS SET ELECTRONIC 4 pieces

- Practical set made up for specific requirements for electricians
- Ideal for high-standard crimping
- Can be individually upgraded by purchasing additional module inserts
- Module inserts changeable without tools
- In practical blister packaging

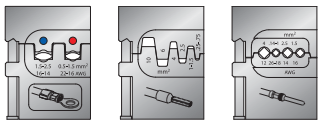


| Code | No. | Contents | | |
|---|---|---|---|---|
| 1830899 | **S 8140 E** | **8140**<br>**8140**-01 -02 -05 | 760 | 1 |

## S 8140 J

### CRIMPING PLIERS SET INDUSTRIAL 4 pieces

- Practical set made up for specific requirements in industrial maintenance
- Ideal for high-standard crimping
- Can be individually upgraded by purchasing additional module inserts
- Module inserts changeable without tools
- In practical blister packaging

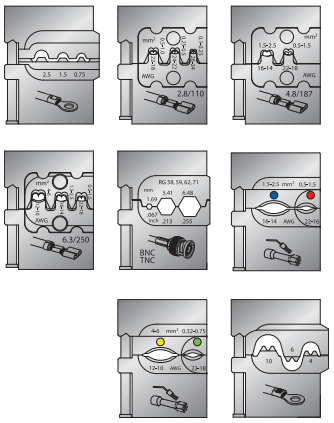


| Code | No. | Contents | | |
|---|---|---|---|---|
| 1830929 | **S 8140 J** | **8140**<br>**8140**-02 -06 -18 | 752 | 1 |

## S 8140 PA

### CRIMPING PLIERS SET PROFESSIONAL AUTOMOTIVE 9 pieces in plastic case

- Practical set made up for specific requirements in automotive engineering
- Ideal for high-standard crimping
- Can be individually upgraded by purchasing additional module inserts
- Module inserts changeable without tools
- In practical plastic case

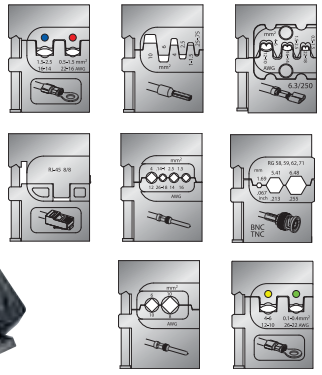


| Code | No. | Contents | | |
|---|---|---|---|---|
| 1954121 | **S 8140 PA** | **8140**<br>**8140**-03 -04 -09 -10 -11 -14 -21 -22 | 2150 | 1 |

## S 8140 PE

### CRIMPING PLIERS SET PROFESSIONAL ELECTRONIC 9 pieces in plastic case

- Practical set made up for specific requirements for electricians
- Ideal for high-standard crimping
- Can be individually upgraded by purchasing additional module inserts
- Module inserts changeable without tools
- In practical plastic case



| Code | No. | Contents | | |
|---|---|---|---|---|
| 1954148 | **S 8140 PE** | **8140**<br>**8140**-01 -02 -06 -11 -14 -16 -18 -19 | 2150 | 1 |



Quantities in packs may vary.

## RZB1-18CR

### PLIERS SET 2 pieces + accessories

- In rugged plastic case

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1895249 | **RZB1-18CR** | **8141**<br>**8146**<br>**End-sleeves**<br>0.50 0.75 1.00 1.50<br>2.50 4.00 6.00 | 1480 | 1 |

## S 8140 PN

### CRIMPING PLIERS SET PROFESSIONAL in plastic case

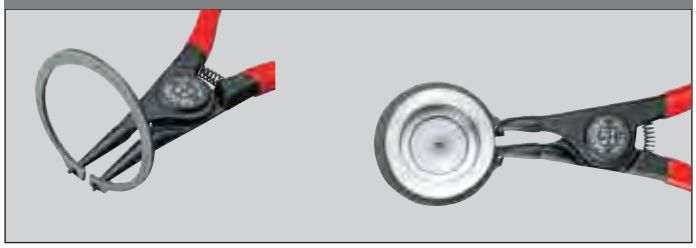
- Without module inserts for individual composition
- In practical plastic case

| Code | No. | | |
|---|---|---|---|
| 1963279 | **S 8140 PN** | 1589 | 1 |

| Code | | | | 1954121 | 1954148 | 1830910 | 1830899 | 1830929 | 1830937 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | No. | Ø mm² / AWG | | S 8140 PA | S 8140 PE | S 8140 A | S 8140 E | S 8140 J | S 8140 D | |
| 1830546 | 8140 | | | ● | ● | ● | ● | ● | ● | |
| 1830554 | 8140-01 | 0,1-0,4 + 4-6 / 26-22 + 12-10 | | | ● | | ● | | | |
| 1830562 | 8140-02 | 0,5-1,5 + 1,5-2,5 / 22-16 + 16-14 | | | ● | | ● | ● | | |
| 1830570 | 8140-03 | 4-6-10- | | ● | | | | | | |
| 1830589 | 8140-04 | 0,75-1,5-2,5 | | ● | | | | | | |
| 1830597 | 8140-05 | 0,5-2,5 + 4-6 / 22-14 + 12-10 | | | | ● | ● | | | |
| 1830600 | 8140-06 | 0,25-10 | | | ● | | | ● | | |
| 1830635 | 8140-09 | 0,1-1 / 26-18 | | ● | | ● | | | | |
| 1830643 | 8140-10 | 0,5-2,5 / 22-14 | | ● | | | | | | |
| 1830651 | 8140-11 | 0,5-6 / 22-10 | | ● | ● | ● | | | | |
| 1830694 | 8140-14 | 1,69 5,41 6,48 / 0,067 0,213 0,255 | | ● | ● | | | | ● | |
| 1830716 | 8140-16 | RJ-45 8/8 | | | ● | | | | ● | |
| 1830724 | 8140-17 | RJ-11 6/6 6/4 6/2 | | | | | | | ● | |
| 1830732 | 8140-18 | 0,14-4 / 26-12 | | | ● | | | ● | | |
| 1830740 | 8140-19 | 6-10 / 10-8 | | | ● | | | | | |
| 1963392 | 8140-21 | 0,5-2,5 | | ● | | | | | | |
| 1963406 | 8140-22 | 0,32-6,0 | | ● | | | | | | |

Quantities in packs may vary.

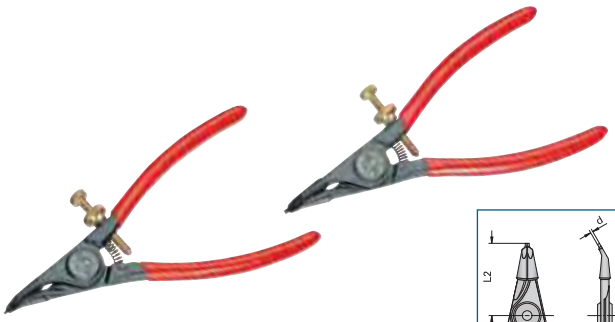
# CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS (SHAFTS)

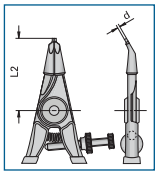


## 8000 A 0G - A 2G

### CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS

- For shafts without groove
- For retaining rings Seeger as well as Benzing
- Similar to DIN 5254 Form A
- A 0G - A 1G = tips angled 30 °
- A 2G = straight tips
- With opening spring and adjusting screw to limit opening
- High degree of assembly reliability, the limit opening rules out any over-tensioning of the smallest of retaining rings
- Forged GEDORE chrome-vanadium special hardened and tempered steel
- Precision machined, oil hardened and annealed
- Black, with red dipped handles



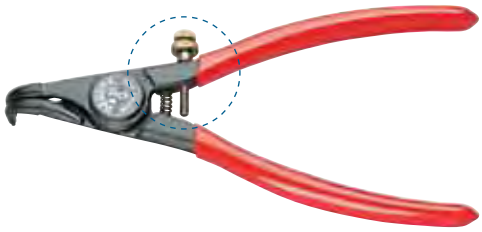


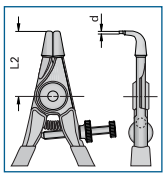

| Code | No. | for Seeger circlips ● mm | for Benzing clamping circlips ● mm | L | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|
| 6700140 | **8000 A 0G** | 1,5-3,5 | 1,5-3,5 | 140 | 40 | 0.7 | 99 | 5 |
| 6700220 | **8000 A 1G** | 4,0-9,0 | 3,0-11,0 | 140 | 40 | 1.1 | 98 | 5 |
| 6700300 | **8000 A 2G** | 10,0-15,0 | 12,0-16,0 | 182 | 57 | 1.8 | 189 | 5 |

## 8000 A 01G - A 21G

### CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS

- For shafts without groove
- For retaining rings Seeger as well as Benzing
- Similar to DIN 5254 Form B
- 90 ° angled tips
- With opening spring and adjusting screw to limit opening
- High degree of assembly reliability, the limit opening rules out any over-tensioning of the smallest of retaining rings
- Forged GEDORE chrome-vanadium special hardened and tempered steel
- Precision machined, oil hardened and annealed
- Black, with red dipped handles



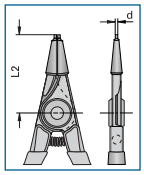



| Code | No. | for Seeger circlips ● mm | for Benzing clamping circlips ● mm | L | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|
| 6700650 | **8000 A 01G** | 1,5-3,5 | 1,5-3,5 | 134 | 33 | 0.7 | 100 | 5 |
| 6700730 | **8000 A 11G** | 4,0-9,0 | 3,0-11,0 | 134 | 33 | 1.1 | 99 | 5 |
| 6700810 | **8000 A 21G** | 10,0-15,0 | 12,0-16,0 | 170 | 45 | 1.8 | 184 | 5 |

## 8000 A 0 - A 4

### CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS Form A

- For retaining rings as per DIN 471, DIN 983
- DIN 5254 Form A
- Straight tips
- With opening spring
- With clamping protection
- Forged GEDORE chrome-vanadium special hardened and tempered steel
- Precision machined, oil hardened and annealed
- Black, with red dipped handles

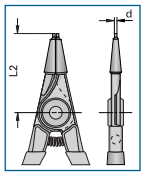



| Code | No. | ● mm | ● inch | L | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|
| 6701380 | **8000 A 0** | 3-10 | 5/32-3/8 | 141 | 40.0 | 0.9 | 96 | 5 |
| 6701460 | **8000 A 1** | 10-25 | 3/8-1 | 141 | 40.0 | 1.3 | 98 | 5 |
| 6701540 | **8000 A 2** | 19-60 | 3/4-2.3/8 | 182 | 54.0 | 1.8 | 186 | 5 |
| 6701620 | **8000 A 3** | 40-100 | 1.5/8-4 | 230 | 69.0 | 2.3 | 310 | 1 |
| 6701700 | **8000 A 4** | 85-140 | 3.3/8-5.1/2 | 320 | 85.5 | 3.2 | 555 | 1 |

## 8010 A 0 - A 4

### CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS Form A

- For retaining rings as per DIN 471, DIN 983
- DIN 5254 Form A
- Straight tips
- With opening spring
- With clamping protection
- Forged GEDORE chrome-vanadium special hardened and tempered steel
- Precision machined, oil hardened and annealed
- Chrome-plated, with red dipped handles

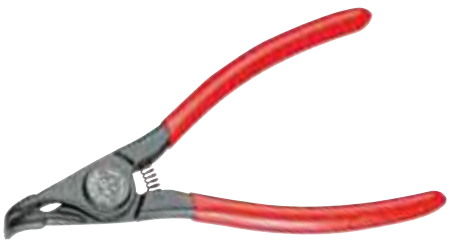


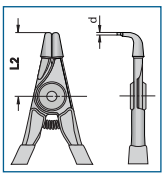

| Code | No. | ● mm | ● inch | L | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|
| 6704800 | **8010 A 0** | 3-10 | 5/32-3/8 | 141 | 40.0 | 0.9 | 97 | 5 |
| 6704990 | **8010 A 1** | 10-25 | 3/8-1 | 141 | 40.0 | 1.3 | 96 | 5 |
| 6705020 | **8010 A 2** | 19-60 | 3/4-2.3/8 | 182 | 54.0 | 1.8 | 182 | 5 |
| 6705100 | **8010 A 3** | 40-100 | 1.5/8-4 | 230 | 69.0 | 2.3 | 312 | 1 |
| 6705290 | **8010 A 4** | 85-140 | 3.3/8-5.1/2 | 320 | 85.5 | 3.2 | 562 | 1 |

## 8000 A 01 - A 41

### CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS Form B

- For retaining rings as per DIN 471, DIN 983
- DIN 5254 Form B
- 90° angled tips
- With opening spring
- With clamping protection
- Forged GEDORE chrome-vanadium special hardened and tempered steel
- Precision machined, oil hardened and annealed
- Black, with red dipped handles






| Code | No. | ● mm | ● inch | L | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|
| 6702270 | **8000 A 01** | 3-10 | 5/32-3/8 | 130 | 29 | 0.9 | 97 | 5 |
| 6702350 | **8000 A 11** | 10-25 | 3/8-1 | 130 | 29 | 1.3 | 97 | 5 |
| 6702430 | **8000 A 21** | 19-60 | 3/4-2.3/8 | 170 | 43 | 1.8 | 182 | 5 |
| 6702510 | **8000 A 31** | 40-100 | 1.5/8-4 | 210 | 53 | 2.3 | 317 | 1 |
| 6702780 | **8000 A 41** | 85-140 | 3.3/8-5.1/2 | 305 | 64 | 3.2 | 563 | 1 |

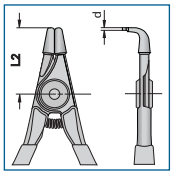


Quantities in packs may vary.

## 8010 A 01 - A 41

### CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS Form B

- For retaining rings as per DIN 471, DIN 983
- DIN 5254 Form B
- 90 ° angled tips
- With opening spring
- With clamping protection
- Forged GEDORE chrome-vanadium special hardened and tempered steel
- Precision machined, oil hardened and annealed
- Chrome-plated, with red dipped handles

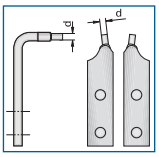



| Code | No. | ● mm | ● inch | L | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|
| 6705960 | **8010 A 01** | 3-10 | 5/32-3/8 | 130 | 29 | 0.9 | 96 | 5 |
| 6706180 | **8010 A 11** | 10-25 | 3/8-1 | 130 | 29 | 1.3 | 97 | 5 |
| 6706260 | **8010 A 21** | 19-60 | 3/4-2.3/8 | 170 | 43 | 1.8 | 186 | 5 |
| 6706340 | **8010 A 31** | 40-100 | 1.5/8-4 | 210 | 53 | 2.3 | 328 | 1 |
| 6706930 | **8010 A 41** | 85-140 | 3.3/8-5.1/2 | 305 | 64 | 3.2 | 568 | 1 |

## 8000 A 4 - A 6

### CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS

- Straight tips
- Black, tips and lock lever zinc-plated
- The toothed bracket stops the pliers legs from straddling beyond the permitted working area
- This ensures safe working even in hidden fitting positions
- Locking pin can be replaced
- Non-crush type release-lever with handle recesses, red dip-insulated
- Forged GEDORE chrome-vanadium special hardened and tempered steel
- Precision machined, oil hardened and annealed
- E-8000 A = pair of spare tips




| Code | No. | ● mm | ● inch | d | ↔ mm ↔ | | |
|---|---|---|---|---|---|---|---|
| 2011778 | **8000 A 4 EL** | 85-140 | 3.3/8-5.1/2 | 3.2 | 550 | 1921 | 1 |
| 6701890 | **8000 A 5** | 122-300 | 4.13/16-11.7/8 | 3.5 | 550 | 1921 | 1 |
| 6701970 | **8000 A 6** | 252-400 | 9.15/16-15.13/16 | 4.5 | 586 | 1922 | 1 |
| 2011670 | **E-8000 A 4 EL** | | | 3.2 | | 72 | 1 |
| 5701840 | **E-8000 A 5** | | | 3.5 | | 72 | 1 |
| 5701920 | **E-8000 A 6** | | | 4.5 | | 112 | 1 |

## 8000 A 02 - A 42

### CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS

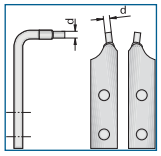
- Similar to DIN 5254 Form B
- 45 ° angled tips
- With opening spring
- With clamping protection
- Forged GEDORE chrome-vanadium special hardened and tempered steel
- Precision machined, oil hardened and annealed
- Chrome-plated, with red dipped handles

| Code | No. | ● mm | ● inch | L | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|
| 2015021 | **8000 A 02** | 3-10 | 5/32-3/8 | 139 | 38.0 | 0.9 | 97 | 5 |
| 2015048 | **8000 A 12** | 10-25 | 3/8-1 | 139 | 38.0 | 1.3 | 97 | 5 |
| 2015056 | **8000 A 22** | 19-60 | 3/4-2.3/8 | 179 | 51.0 | 1.8 | 182 | 5 |
| 2015064 | **8000 A 32** | 40-100 | 1.5/8-4 | 226 | 65.0 | 2.3 | 317 | 1 |
| 2015072 | **8000 A 42** | 85-140 | 3.3/8-5.1/2 | 315 | 80.5 | 3.2 | 568 | 1 |

## 8000 A 41 - A 61

### CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS

- 90 ° angled tips
- Tips and lock lever zinc-plated
- Lever handle-end red dip-insulated
- Finger protection
- Reinforced safety arms
- Forged GEDORE chrome-vanadium special hardened and tempered steel
- Precision machined, oil hardened and annealed
- E-8000 A = pair of spare tips




| Code | No. | ● mm | ● inch | d | ↔ mm ↔ | | |
|---|---|---|---|---|---|---|---|
| 2011786 | **8000 A 41 EL** | 85-140 | 3.3/8-5.1/2 | 3.2 | 560 | 1898 | 1 |
| 6702860 | **8000 A 51** | 122-300 | 4.13/16-11.7/8 | 3.5 | 560 | 1898 | 1 |
| 6718430 | **8000 A 61** | 252-400 | 9.15/16-15.13/16 | 4.5 | 585 | 1953 | 1 |
| 2011697 | **E-8000 A 41 EL** | | | 3.2 | | 72 | 1 |
| 5702810 | **E-8000 A 51** | | | 3.5 | | 112 | 1 |
| 5701760 | **E-8000 A 61** | | | 4.5 | | 140 | 1 |

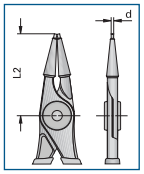
Quantities in packs may vary.

# CIRCLIP PLIERS FOR INTERNAL RETAINING RINGS (BORES)

## 8000 J 0 - J 4

### CIRCLIP PLIERS FOR INTERNAL RETAINING RINGS Form C

- For retaining rings as per DIN 472, DIN 984
- DIN 5256 Form C
- Straight tips
- Forged GEDORE chrome-vanadium special hardened and tempered steel
- Precision machined, oil hardened and annealed
- Black, with blue dipped handles

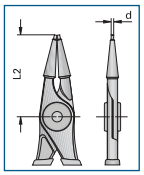



| Code | No. | mm | inch | L | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|
| 6703240 | **8000 J 0** | 8-13 | 3/8-9/16 | 141 | 41.0 | 0.9 | 80 | 5 |
| 6703320 | **8000 J 1** | 12-25 | 3/8-1 | 141 | 41.0 | 1.3 | 81 | 5 |
| 6703400 | **8000 J 2** | 19-60 | 3/4-2.3/8 | 183 | 54.0 | 1.8 | 164 | 5 |
| 6703590 | **8000 J 3** | 40-100 | 1.5/8-4 | 230 | 68.0 | 2.3 | 281 | 1 |
| 6703670 | **8000 J 4** | 85-140 | 3.3/8-5.1/2 | 322 | 84.5 | 3.2 | 472 | 1 |

## 8010 J 0 - J 4

### CIRCLIP PLIERS FOR INTERNAL RETAINING RINGS Form C

- For retaining rings as per DIN 472, DIN 984
- DIN 5256 Form C
- Straight tips
- Forged GEDORE chrome-vanadium special hardened and tempered steel
- Precision machined, oil hardened and annealed
- Chrome-plated, with blue dipped handles




| Code | No. | mm | inch | L | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|
| 6705370 | **8010 J 0** | 8-13 | 3/8-9/16 | 141 | 41.0 | 0.9 | 81 | 5 |
| 6705450 | **8010 J 1** | 12-25 | 3/8-1 | 141 | 41.0 | 1.3 | 80 | 5 |
| 6705530 | **8010 J 2** | 19-60 | 3/4-2.3/8 | 183 | 54.0 | 1.8 | 163 | 5 |
| 6705610 | **8010 J 3** | 40-100 | 1.5/8-4 | 230 | 68.0 | 2.3 | 281 | 1 |
| 6705880 | **8010 J 4** | 85-140 | 3.3/8-5.1/2 | 322 | 84.5 | 3.2 | 472 | 1 |

1500 ES-8000

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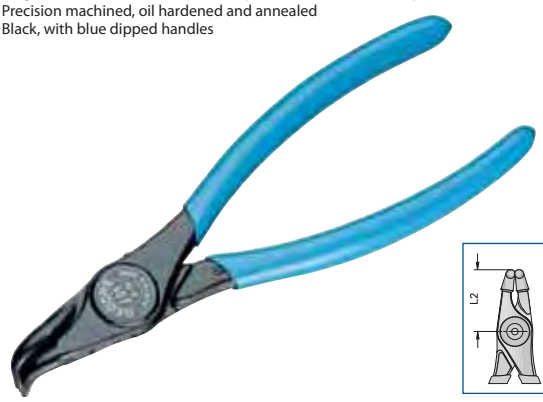
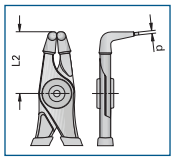
## 8000 J 01 - J 41

### CIRCLIP PLIERS FOR INTERNAL RETAINING RINGS Form D

- For retaining rings as per DIN 472, DIN 984
- DIN 5256 Form D
- 90° angled tips
- Forged GEDORE chrome-vanadium special hardened and tempered steel
- Precision machined, oil hardened and annealed
- Black, with blue dipped handles



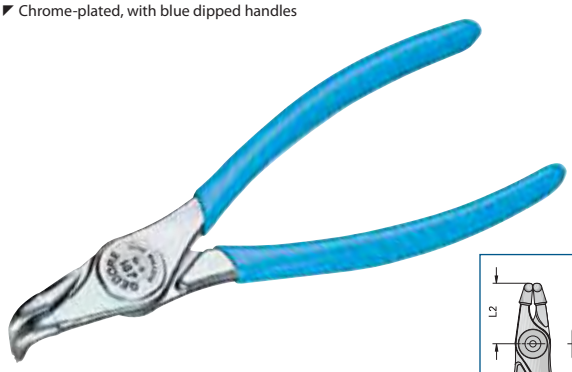


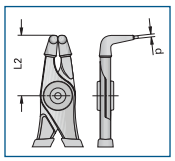

| Code | No. | mm | inch | L | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|
| 6704130 | **8000 J 01** | 8-13 | 3/8-9/16 | 129 | 28 | 0.9 | 80 | 5 |
| 6704210 | **8000 J 11** | 12-25 | 3/8-1 | 129 | 28 | 1.3 | 82 | 5 |
| 6704480 | **8000 J 21** | 19-60 | 3/4-2.3/8 | 169 | 41 | 1.8 | 161 | 5 |
| 6704560 | **8000 J 31** | 40-100 | 1.5/8-4 | 214 | 50 | 2.3 | 279 | 1 |
| 6704640 | **8000 J 41** | 85-140 | 3.3/8-5.1/2 | 292 | 65 | 3.2 | 484 | 1 |

## 8010 J 01 - J 41

### CIRCLIP PLIERS FOR INTERNAL RETAINING RINGS Form D

- For retaining rings as per DIN 472, DIN 984
- DIN 5256 Form D
- 90 ° angled tips
- Forged GEDORE chrome-vanadium special hardened and tempered steel
- Precision machined, oil hardened and annealed
- Chrome-plated, with blue dipped handles






| Code | No. | mm | inch | L | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|
| 6706420 | **8010 J 01** | 8-13 | 3/8-9/16 | 129 | 28 | 0.9 | 89 | 5 |
| 6706500 | **8010 J 11** | 12-25 | 3/8-1 | 129 | 28 | 1.3 | 81 | 5 |
| 6706690 | **8010 J 21** | 19-60 | 3/4-2.3/8 | 169 | 41 | 1.8 | 163 | 5 |
| 6706770 | **8010 J 31** | 40-100 | 1.5/8-4 | 214 | 50 | 2.3 | 282 | 1 |
| 6706850 | **8010 J 41** | 85-140 | 3.3/8-5.1/2 | 292 | 65 | 3.2 | 511 | 1 |

Quantities in packs may vary.

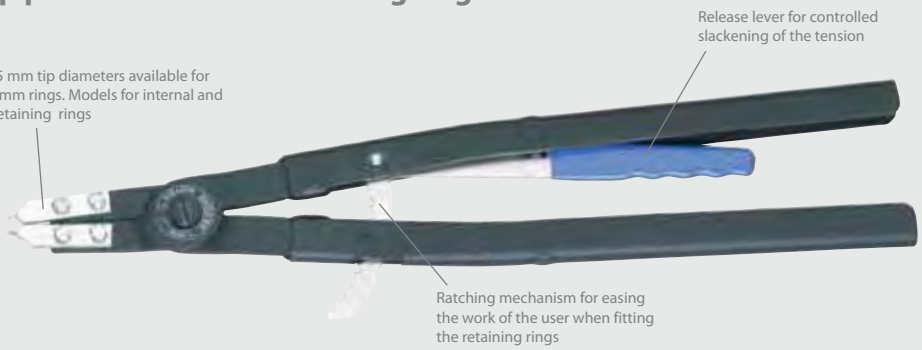
## 8000 J 02 - J 42

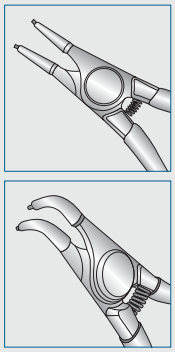
### CIRCLIP PLIERS FOR INTERNAL RETAINING RINGS

- Similar to DIN 5256 Form D
- 45 ° angled tips
- Forged GEDORE chrome-vanadium special hardened and tempered steel
- Precision machined, oil hardened and annealed
- Chrome-plated, with blue dipped handles

| Code | No. | ○ mm | ○ inch | L | $L_2$ | d | | |
|---|---|---|---|---|---|---|---|---|
| 2014963 | **8000 J 02** | 8-13 | 3/8-9/16 | 139 | 39.0 | 0.9 | 80 | 5 |
| 2014971 | **8000 J 12** | 12-25 | 3/8-1 | 139 | 39.0 | 1.3 | 80 | 5 |
| 2014998 | **8000 J 22** | 19-60 | 3/4-2.3/8 | 180 | 52.0 | 1.8 | 161 | 5 |
| 2015005 | **8000 J 32** | 40-100 | 1.5/8-4 | 226 | 64.0 | 2.3 | 279 | 1 |
| 2015013 | **8000 J 42** | 85-140 | 3.3/8-5.1/2 | 316 | 78.5 | 3.2 | 484 | 1 |

## 8000 J 4 - J 6 / 8000 J 41 - J 61
## Circlip pliers for internal retaining rings

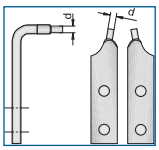


## 8000 J 41 - J 61

### CIRCLIP PLIERS FOR INTERNAL RETAINING RINGS

- For circlips as per DIN 472, DIN 984
- 90 ° angled tips
- Black, tips and lock lever zinc-plated
- Lever handle-end blue dip-insulated
- Finger protection
- Reinforced safety arms
- Forged GEDORE chrome-vanadium special hardened and tempered steel
- Precision machined, oil hardened and annealed
- E-8000 J = pair of spare tips

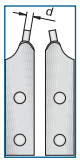


| Code | No. | ○ mm | ○ inch | d | ↔ mm ↔ | | |
|---|---|---|---|---|---|---|---|
| 2011808 | **8000 J 41 EL** | 85-140 | 3.3/8-5.1/2 | 3.2 | 575 | 1953 | 1 |
| 6704720 | **8000 J 51** | 122-300 | 4.13/16-11.7/8 | 3.5 | 575 | 1953 | 1 |
| 6718510 | **8000 J 61** | 252-400 | 9.15/16-15.13/16 | 4.5 | 579 | 1934 | 1 |
| 2011719 | **E-8000 J 41 EL** | | | 3.2 | | 72 | 1 |
| 5704780 | **E-8000 J 51** | | | 3.5 | | 116 | 1 |
| 5702730 | **E-8000 J 61** | | | 4.5 | | 116 | 1 |

## 8000 J 4 - J 6

### CIRCLIP PLIERS FOR INTERNAL RETAINING RINGS

- For circlips as per DIN 472, DIN 984
- Straight tips
- Black, tips and lock lever zinc-plated
- The toothed bracket stops the pliers legs from straddling beyond the permitted working area
- This ensures safe working even in hidden fitting positions
- Locking pin can be replaced
- Non-crush type release-lever with handle recesses, blue dip-insulated
- Forged GEDORE chrome-vanadium special hardened and tempered steel
- Precision machined, oil hardened and annealed
- E-8000 J = pair of spare tips



| Code | No. | ○ mm | ○ inch | d | ↔ mm ↔ | | |
|---|---|---|---|---|---|---|---|
| 2011794 | **8000 J 4 EL** | 85-140 | 3.3/8-5.1/2 | 3.2 | 565 | 1835 | 1 |
| 6703750 | **8000 J 5** | 122-300 | 4.13/16-11.7/8 | 3.5 | 565 | 1836 | 1 |
| 6703830 | **8000 J 6** | 252-400 | 9.15/16-15.13/16 | 4.5 | 575 | 1846 | 1 |
| 2011700 | **E-8000 J 4 EL** | | | 3.2 | | 72 | 1 |
| 5703700 | **E-8000 J 5** | | | 3.5 | | 72 | 1 |
| 5703890 | **E-8000 J 6** | | | 4.5 | | 82 | 1 |

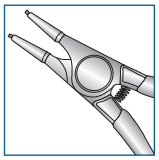
Quantities in packs may vary.

# CIRCLIP PLIERS FOR RETAINING RINGS (PARALLEL)

## 8005 A

### CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS

- For shafts
- Supplied with four different clamping tips
- The circlip is securely clamped before removal by choosing a suitable distance between the clamping tips. This means that unnecessary plier movement is avoided, and the circlip may be opened completely. The special parallel movement of the clamping tips and their recesses in the direction of the pressure applied ensure that the circlip will be clamped firmly.
- DBGM (= German Utility Patent)

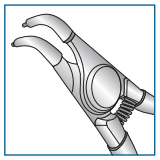


| Code | No. | ● mm | ◉↕mm | ◉↔mm | ↔mm↔ | | |
|---|---|---|---|---|---|---|---|
| 6707150 | **8005 A** | 305-500 | 4.5 | 5,9 | 665 | 3520 | 1 |

## 8005 J

### CIRCLIP PLIERS FOR INTERNAL RETAINING RINGS

- For bores
- Supplied with six different clamping tips
- The circlip is securely clamped before removal by choosing a suitable distance between the clamping tips. This means that unnecessary plier movement is avoided, and the circlip may be opened completely. The special parallel movement of the clamping tips and their recesses in the direction of the pressure applied ensure that the circlip will be clamped firmly.
- DBGM (= German Utility Patent)



| Code | No. | ○ mm | ◉↕mm | ◉↔mm | ↔mm↔ | | |
|---|---|---|---|---|---|---|---|
| 6707230 | **8005 J** | 305-500 | 4.5 | 5,9 | 705 | 3885 | 1 |

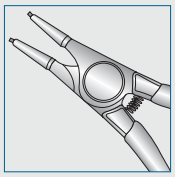
## 8005 A Pliers for external retaining rings

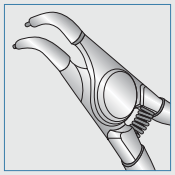
For holes from 4.5 to 5.9 mm and rings from 305 to 500 mm

Release lever for controlled slackening of the tension

Paralleled jaws for the greatest possible safety and torsion-free clamping

Ratching mechanism for easing the work of the user when clamping the retaining rings

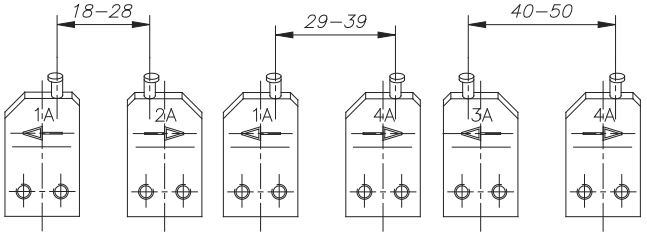




## E-8005 A

### SPARE TIPS for external retaining rings (per piece)

- **Selection aid:**
- The spacing of holes for non-tensioned circlips is normally between 20 mm and 50 mm
- The tips used to spread the rings are fitted to match the opening width of the non-tensioned circlip
- Opening widths 18-28 mm: Combination tips E-8005 1 A and E-8005 2 A
- Opening widths 29-39 mm: Combination tips E-8005 1 A and E-8005 4 A
- Opening widths 40-50 mm: Combination tips E-8005 3 A and E-8005 4 A

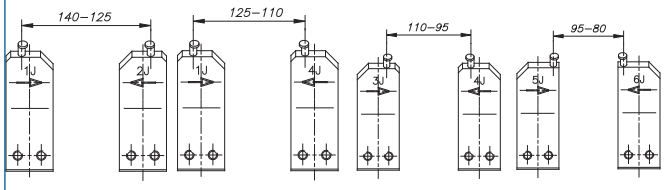



| Code | No. | | |
|---|---|---|---|
| 5700790 | **E-8005 1 A** | 68 | 1 |
| 5702220 | **E-8005 2 A** | 68 | 1 |
| 5702300 | **E-8005 3 A** | 68 | 1 |
| 5702490 | **E-8005 4 A** | 68 | 1 |

## E-8005 J

### SPARE TIPS for internal retaining rings (per piece)

- **Selection aid:**
- The spacing of holes for non-tensioned circlips is normally between 80 mm and 140 mm
- The tips used to spread the rings are fitted to match the opening width of the non-tensioned circlip
- Opening widths 140-125 mm: Combination tips E-8005 1 J and E-8005 2 J
- Opening widths 125-110 mm: Combination tips E-8005 1 J and E-8005 4 J
- Opening widths 110-95 mm: Combination tips E-8005 3 J and E-8005 4 J
- Opening widths 95-80 mm: Combination tips E-8005 5 J and E-8005 6 J



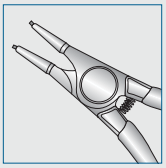

| Code | No. | | |
|---|---|---|---|
| 5703380 | **E-8005 1 J** | 116 | 1 |
| 5703460 | **E-8005 2 J** | 116 | 1 |
| 5704190 | **E-8005 3 J** | 116 | 1 |
| 5703540 | **E-8005 4 J** | 113 | 1 |
| 5703620 | **E-8005 5 J** | 116 | 1 |
| 5703970 | **E-8005 6 J** | 116 | 1 |

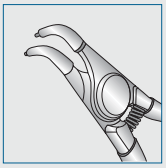


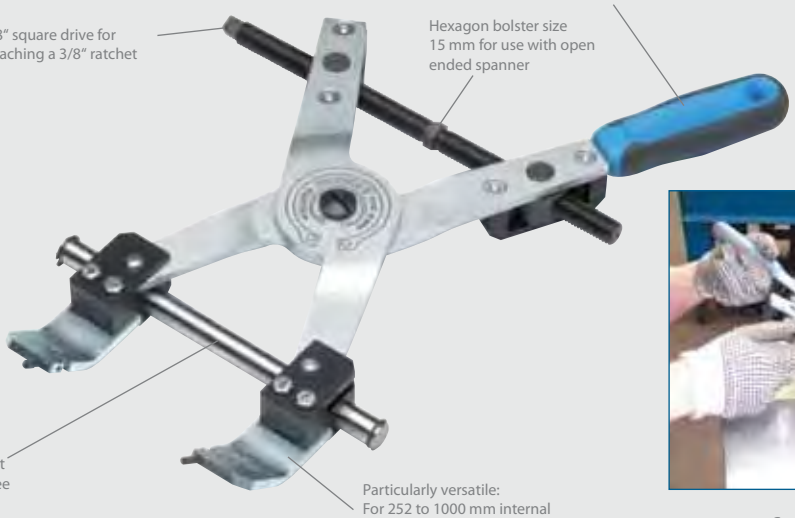
Quantities in packs may vary.

# CIRCLIP PLIERS X-GRIP

## 8006 X-GRIP







Complete S 8006 X-GRIP set incl. ratchet, single open-ended spanner and replacement tips in a sturdy steel case.

### 8006

**X-GRIP CIRCLIP PLIERS**

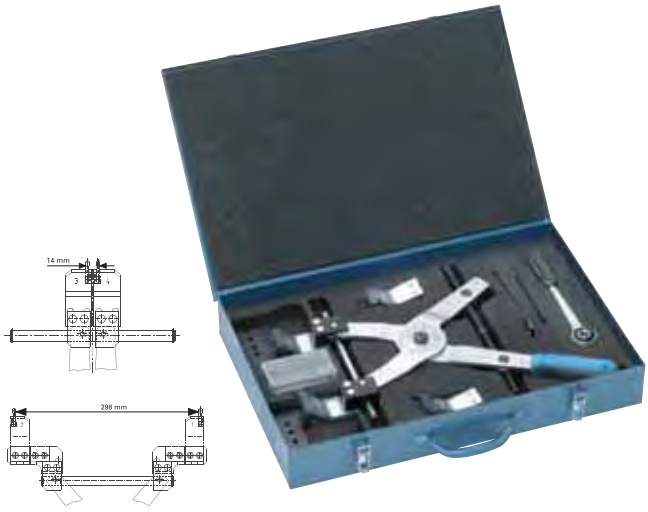
- Universal circlip pliers for risk-free gripping and fitting of internal and external circlips (DIN 471/472) from 252 to 1000 mm diameter
- Particularly suited for working in confined spaces. Instead of using a long lever, the required force is transmitted by a threaded spindle. This ensures safe, fatigue-free gripping. Operated by a 15 mm open ended spanner or a 3/8" ratchet (e.g. 3093 Z-94)
- Solid, hardened sliding bar ensures parallel tip action
- Stop lugs reliably prevent circlips slipping off
- Quick changeover between internal and external circlips by rotating tips through 180°
- Tips made from tempering steel, carefully hardened and annealed, easy to replace
- DBGM (= German Utility Patent)

| Code | No. | ● mm | ◉ mm | ◉ mm | | |
|---|---|---|---|---|---|---|
| 1394401 | **8006** | 252-1000 | 4.5 | 5,9 | 3040 | 1 |

### S 8006

**X-GRIP CIRCLIP PLIERS SET**

- Universal circlip pliers for risk-free gripping and fitting of internal and external circlips (DIN 471/472) from 252 to 1000 mm diameter
- Plier with adaptor, basic body - no. 1/2+ tip Ø 5.9 mm and no. 3/4 + tip Ø 4.5 mm
- Special tools for changing tips and adaptors
- Single open ended spanner no. 894 10 + 894 15
- Hexagon socket key no. 42 2 mm
- 4 Spare threaded pins M4x4
- Ratchet no. 3093 Z-94 (for quick adjustment)
- Plastic box E-1000 P
- Rugged sheet steel case with foam insert




| Code | No. | | |
|---|---|---|---|
| 1896237 | **S 8006** | 7300 | 1 |

### E-8006

**X-GRIP PARTS**

| Code | No. | Description | | |
|---|---|---|---|---|
| 1575333 | **E-8006 1** | Basic body no. 1 with spare tip 5.9 mm Ø | 80 | 1 |
| 1575341 | **E-8006 2** | Basic body no. 2 with spare tip 5.9 mm Ø | 80 | 1 |
| 1896245 | **E-8006 3** | Basic body no. 3 with spare tip 4.5 mm Ø | 117 | 1 |
| 1896253 | **E-8006 4** | Basic body no. 4 with spare tip 4.5 mm Ø | 117 | 1 |
| 1896369 | **E-8006 X 4,5** | Spare tip 4.5 mm Ø | 5 | 1 |
| 1896350 | **E-8006 X 5,9** | Spare tip 5.9 mm Ø | 5 | 1 |
| 1910620 | **E-8006 X** | Spindle with spindle bearing, 265 mm long | 470 | 1 |

Quantities in packs may vary.

## 137

### GRIP WRENCH

- With adjusting screw and release lever, model 137 10 with blue dip-insulated lever
- Forged, tempered jaws and special jaw shape for secure gripping, clamping and holding
- GEDORE vanadium steel 31CrV3, nickel-plated
- Jaw body in high-tensile sheet steel
- Automatically welded upper jaw - absolutely firm connection with the sheet steel body
- Well-conceived jaw design guarantees a three-point contact with all material cross-sections
- Threaded bore welded at bottom
- No widening under most extreme loading
- Safe release
- Release lever under constant pressure of special spring

| Code | No. | mm | inch | mm | inch | | |
|---|---|---|---|---|---|---|---|
| 6406620 | **137 7** | 185 | 7 | 25 | 1 | 288 | 5 |
| 6406700 | **137 10** | 230 | 10 | 32 | 1.1/4 | 526 | 5 |
| 6407270 | **137 11** | 260 | 11 | 45 | 1.3/4 | 790 | 1 |
| 6406890 | **137 12** | 300 | 12 | 45 | 1.3/4 | 1042 | 1 |

## 137 K

### SPECIAL BODY GRIP WRENCH

- All 3 models with adjusting screw and dip-insulated release lever (blue), nickel-plated
- 137 K1: Special jaws with flat clamping surfaces, 48x25 mm at top, 12x12 mm at bottom
- 137 K2: Special jaws with domed clamping surfaces, 25x20 mm at top, 12x12 mm at bottom
- 137 K3: Special jaws with flat clamping surfaces, 40x14 mm at top, 40x35 mm at bottom

| Code | No. | | |
|---|---|---|---|
| 1736531 | **137 K1** | 596 | 1 |
| 1736558 | **137 K2** | 560 | 1 |
| 1736566 | **137 K3** | 676 | 1 |

## 137

### GRIP WRENCH

- For working in confined spaces
- For worn bolted connections which otherwise could only be opened with extreme difficulty
- Problem-solver for vehicles and industrial purposes
- Particularly suitable for brake lines, adjustment of track rods, etc.

| Code | No. | mm | "AF | mm | | |
|---|---|---|---|---|---|---|
| 2325314 | **137 7-10** | 10 | | 190 | 324 | 1 |
| 2325322 | **137 7-11** | 11 | 7/16 | 190 | 321 | 1 |
| 2325330 | **137 7-12** | 12 | | 195 | 329 | 1 |
| 2325349 | **137 7-13** | 13 | | 195 | 326 | 1 |
| 2325357 | **137 7-14** | 14 | | 198 | 343 | 1 |
| 2325365 | **137 7-15** | 15 | 19/32 | 198 | 346 | 1 |
| 2325373 | **137 10-16** | 16 | 5/8 | 250 | 591 | 1 |
| 2325381 | **137 10-17** | 17 | | 250 | 587 | 1 |
| 2325403 | **137 10-18** | 18 | | 255 | 607 | 1 |
| 2325411 | **137 10-19** | 19 | 3/4 | 255 | 600 | 1 |
| 2325438 | **137 10-20** | 20 | 25/32 | 258 | 623 | 1 |
| 2325446 | **137 10-21** | 21 | | 258 | 620 | 1 |
| 2325454 | **137 10-22** | 22 | | 260 | 630 | 1 |

## 137 Grip wrench

- The difference comes from the special profile and shape.
- This combination prevents the pliers from being unintentionally opened - even under maximum demands which are placed on them.

Quantities in packs may vary.

## 139

### SPECIAL GRIP WRENCH

- With movable lower jaw for clamping over a large area
- Release lever blue dip-insulated
- Nickel-plated

| Code | No. | mm | inch | mm | inch | | |
|---|---|---|---|---|---|---|---|
| 6407940 | **139** | 250 | 10 | 45 | 1.3/4 | 577 | 1 |

## 137 KR Grip wrench, long jaws

## 137 KR

### GRIP WRENCH, LONG JAWS

- With narrow jaws
- For working in confined spaces
- For clamping air and brake lines up to Ø 10 mm, copper lines Ø 12 mm
- Nickel-plated

| Code | No. | mm | | |
|---|---|---|---|---|
| 1954113 | **137 KR-7** | 210 | 292 | 1 |
| 1868039 | **137 KR-10** | 255 | 540 | 1 |

## 137 MSP

### MACHINE WORKBENCH CLAMP

- For fast, secure clamping of a variety of workpieces
- Suitable for tenon blocks threaded M8, M10 or M12
- GEDORE special vanadium steel, nickel-plated
- Release lever dip-insulated
- Tenon block not included

| Code | No. | mm | inch | mm | inch | | |
|---|---|---|---|---|---|---|---|
| 6408080 | **137 MSP** | 280 | 11 | 100 | 4 | 790 | 1 |

## 137 P

### PARALLEL JAW GRIP WRENCH

- 137 P With toothed jaws, for parallel clamping, with adjustment screw and release lever, jaw width 14 mm, jaw length 30 mm
- 137 PA With smooth jaws for plumbing fittings and sensitive surfaces, jaws = 8 x 29 mm, nickel-plated

| Code | No. | mm | inch | mm | inch | | |
|---|---|---|---|---|---|---|---|
| 6407000 | **137 P** | 250 | 10 | 50 | 2 | 701 | 1 |
| 6407190 | **137 PA** | 250 | 10 | 50 | 2 | 691 | 1 |

## 1500 ES-137

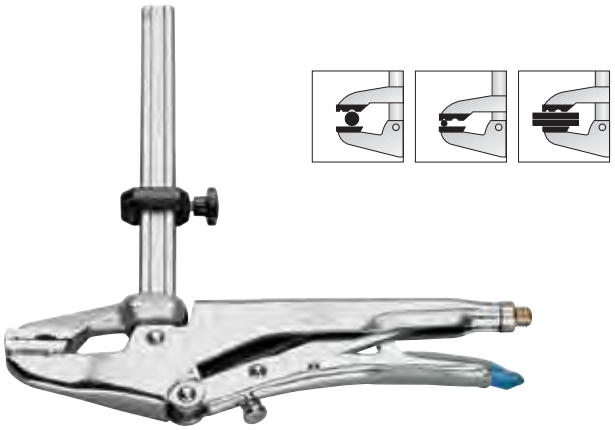
102

Quantities in packs may vary.

## 136 SP

### GRIP C-CLAMP

- For clamping extra deep workpieces
- With stop to fix the upper jaw at a constant position for repetition clamping
- Nickel-plated



| Code | No. | mm | inch | mm | inch | | |
|---|---|---|---|---|---|---|---|
| 6406380 | **136 SP-100** | 260 | 10 | 100 | 4 | 1086 | 1 |
| 6406540 | **136 SP-200** | 260 | 10 | 200 | 8 | 1254 | 1 |

## 136 BM

### WIDE JAW GRIP WRENCH

- For clamping edges and surfaces
- 80 mm jaw width
- Nickel-plated

| Code | No. | mm | inch | mm | inch | | |
|---|---|---|---|---|---|---|---|
| 6406030 | **136 BM** | 200 | 8 | 30 | 1.1/4 | 416 | 1 |

## 137 T

### GRIP WRENCH FOR GLUEING

- For clamping lengthwise or corner joints of extremely long bases and surrounds, lintels, banisters and frames, arched windows, worktops, corner benches, etc.
- Release lever blue dip-insulated
- Nickel-plated
- The workpieces to be glued are placed together, with the grip open, the drill holes for the clamping pins are marked, and 9 - 10 mm Ø holes drilled. Glue is applied, the wrench pushed into the holes, the pieces aligned and the clamping lever closed - the work is finished

| Code | No. | mm | inch | mm | inch | | |
|---|---|---|---|---|---|---|---|
| 6403600 | **137 T** | 220 | 9 | 30-60 | 1.1/4-2.1/2 | 494 | 1 |

## 138

### WELDER'S GRIP WRENCH

- For clamping strips and profile sections when welding
- Cast steel jaws
- Nickel-plated
- Release lever dip-insulated

| Code | No. | mm | inch | | |
|---|---|---|---|---|---|
| 6407350 | **138** | 280 | 11 | 960 | 1 |

## 138 X

### WELDER'S GRIP WRENCH FOR TUBES

- For clamping tubes and round stock when welding
- Cast steel jaws
- Nickel-plated
- Release lever dip-insulated

| Code | No. | mm | inch | mm | inch | | |
|---|---|---|---|---|---|---|---|
| 6407510 | **138 X** | 280 | 11 | 10-90 | 3/8-3.1/2 | 967 | 1 |

## 138 Y

### PROFILE-SECTION GRIP WRENCH

- For clamping bulky profile and angle sections
- Strong forged jaws
- GEDORE chrome-vanadium steel, nickel-plated
- Release lever dip-insulated

| Code | No. | mm | inch | mm | inch | mm | inch | | |
|---|---|---|---|---|---|---|---|---|---|
| 6407860 | **138 Y** | 280 | 11 | 95 | 3.3/4 | 75 | 3 | 763 | 1 |

## 138 Z

### PROFILE-SECTION GRIP WRENCH

- For clamping extremely bulky profile sections
- Jaws made from forged and welded GEDORE chrome-vanadium special steel
- Particularly great clamping depth
- Nickel-plated
- Release lever blue dip-insulated

| Code | No. | mm | inch | mm | inch | mm | inch | | |
|---|---|---|---|---|---|---|---|---|---|
| 6410730 | **138 Z-460** | 460 | 18 | 280 | 11 | 250 | 10 | 1164 | 1 |
| 6410810 | **138 Z-600** | 600 | 24 | 400 | 16 | 400 | 16 | 1428 | 1 |



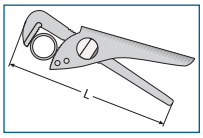
Quantities in packs may vary.

# PIPE WRENCHES

## 152

### HIGH-SPEED PIPE WRENCH with screw adjuster

- GEDORIT powder-coated blue hammer finish
- Forged components
- Induction-rehardened serrated faces
- Quick and easy setting with screw adjuster - single-hand adjustment
- Gripping faces selfinhibiting



| Code | No. | L | L" | mm | "inch | Pipes | Sockets | | |
|---|---|---|---|---|---|---|---|---|---|
| 6419280 | **152 7** | 178 | 7 | 35 | 1.3/8 | 1" | 3/4" | 300 | 1 |
| 6419360 | **152 9** | 228 | 9 | 42 | 1.5/8 | 1.1/4" | 1" | 531 | 1 |
| 6419440 | **152 11** | 281 | 11 | 61 | 2.3/8 | 2" | 1.3/4" | 851 | 1 |
| 6419520 | **152 12** | 315 | 12 | 74 | 3 | 2.1/2" | 2" | 1038 | 1 |
| 6419600 | **152 14** | 360 | 14 | 90 | 3.9/16 | 3" | – | 1656 | 1 |

## 152 NI

### HIGH-SPEED PIPE WRENCH NICKEL-PLATED with screw adjuster

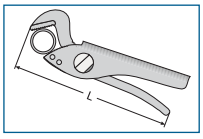
- Nickel-plated
- Forged components
- Induction-rehardened serrated faces
- Quick and easy setting with screw adjuster - single-hand adjustment
- Gripping faces selfinhibiting

| Code | No. | L | L" | mm | "inch | Pipes | Sockets | | |
|---|---|---|---|---|---|---|---|---|---|
| 1826700 | **152 9 NI** | 228 | 9 | 42 | 1.5/8 | 1.1/4" | 1" | 520 | 1 |
| 1826727 | **152 12 NI** | 315 | 12 | 74 | 3 | 2.1/2" | 2" | 1000 | 1 |

## 152 G

### HIGH-SPEED PIPE WRENCH curved, with screw adjuster

- GEDORIT powder-coated blue hammer finish
- Forged components
- Induction-rehardened serrated faces
- Quick and easy setting with screw adjuster - single-hand adjustment
- Gripping faces selfinhibiting



| Code | No. | L | L" | mm | "inch | Pipes | Sockets | | |
|---|---|---|---|---|---|---|---|---|---|
| 1394835 | **152 G-7** | 175 | 7 | 35 | 1.3/8 | 1" | 3/4" | 273 | 1 |
| 1394843 | **152 G-9** | 225 | 9 | 42 | 1.5/8 | 1.1/4" | 1" | 556 | 1 |
| 1394851 | **152 G-12** | 300 | 12 | 74 | 3 | 2" | 2" | 1033 | 1 |

# SPECIAL PLIERS

## 8385

### WIRE TWISTING PLIERS

- For twisting and cutting
- GEDORE special hardened and tempered steel, gun-metal finish
- Angled by 45°
- Extra narrow head shape
- Cross-hatched gripping face for better "wire grip"
- Twists wires from 0.5 to 1.6 mm Ø
- Clockwise or counterclockwise twisting, adjustable by turning handle
- Automatic resetting
- Cutting edge with FOD (= No Foreign Object Damage). The special red plastic coating securely holds the rest of the cut wire. This rules out the wire being accidentally lost.

| Code | No. | mm | "inch | | |
|---|---|---|---|---|---|
| 1979957 | **8385** | 229 | 9 | 400 | 1 |

## 8386

### CONNECTOR PLIERS

- With lap joint
- 3 settings
- Protects sensitive surfaces
- Particularly suitable for Canon-Connectors or other screw connectors
- Plastic jaws bolted and replaceable (No. E-8386), jaw width 11 mm
- GEDORE high-performance hardened and tempered steel, chrome-plated
- Handles dip-insulated

| Code | No. | mm | | |
|---|---|---|---|---|
| 2003481 | **8386** | 20-60 | 300 | 1 |
| 2003694 | **E-8386** | | | 1 |

Quantities in packs may vary.

# BOLT CUTTERS

## 8340 / 8340 Z Bolt cutters

- A particularly effective force/cutting ratio comes from being able to use the cutter near the joint.
- This leads to an efficiency improvement of up to 60% over the usual power side cutter.

## 8178 / 8179

**DIN EN 180 18265 (2004-02)**

19 HRC ≈ 740 N/mm² tensile strength

40 HRC ≈ 1290 N/mm² tensile strength

48 HRC ≈ 1590 N/mm² tensile strength

## 8340 / 8340 Z

### BOLT CUTTER

- Compact power bolt cutter with a particularly effective cutting performance
- Optimum lever action requires less effort
- Wear-free rotating/thrust block bolt to reduce sliding friction when cutting

**No. 8340**

- Cutting edges additionally inductively hardened (63 - 65 HRC)
- Precision cutting edges for soft wire up to Ø 6.0 mm, hard and piano wire up to Ø 3.8 mm

**No. 8340 Z**

- Double-sided recess cutting near the joint ensures optimum lever conditions for large wire diameters
- Precision cutting edges for soft wire up to Ø 6.0 mm, hard wire up to Ø 5.5 mm and piano wire up to Ø 3.8 mm

**Execution:**

- JL = clear varnished, with 2-component handle protectors
- TL = clear varnished, with blue dipped handle protectors

| Code | No. | mm | | |
|---|---|---|---|---|
| 2541300 | **8340-200 JL** | 200 | 389 | 1 |
| 2541289 | **8340-200 TL** | 200 | 338 | 1 |
| 2666324 | **8340 Z-200 JL** | 200 | 389 | 1 |
| 2666316 | **8340 Z-200 TL** | 200 | 338 | 1 |

## 177

### BOLT CUTTER

- Normal cutting, very robust and strong
- Cutters in high-carbon manganese-vanadium steel
- Induction hardened to Rockwell HRC 55-60
- With cam bolts for parallel adjustment of cutters
- Tensile strength 1125-1230 N/mm², handles in steel tubing - tough and light
- Cutting heads gun-metal finish, handles enamelled, with rubber hand-grips

| Code | No. | mm | inch | | |
|---|---|---|---|---|---|
| 6438820 | **177 18** | 450 | 18 | 1550 | 1 |
| 6438900 | **177 24** | 600 | 24 | 2505 | 1 |
| 6439040 | **177 30** | 750 | 30 | 3940 | 1 |
| 6439120 | **177 36** | 900 | 36 | 6175 | 1 |
| 6439200 | **177 42** | 1050 | 42 | 8820 | 1 |

## 178

### BOLT CUTTER SUPER

- Extra high cutting power, very robust and strong
- Cutters in high-carbon manganese-vanadium steel
- Induction hardened to Rockwell HRC 58-62
- With cam bolts for parallel adjustment of cutters
- Tensile strength 1125-1230 N/mm², tubular steel handles - tough and light
- Cutting heads and handles enamelled red, with rubber hand-grips

| Code | No. | mm | inch | | |
|---|---|---|---|---|---|
| 6439470 | **178 18** | 450 | 18 | 1545 | 1 |
| 6439550 | **178 24** | 600 | 24 | 2520 | 1 |
| 6439630 | **178 30** | 750 | 30 | 3920 | 1 |
| 6439710 | **178 36** | 900 | 36 | 6015 | 1 |
| 6439980 | **178 42** | 1050 | 42 | 8905 | 1 |

| L Inch | Maximum cutting power in mm | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | in round steel, hardness | | | | | | in threaded bolts hardness phases | | | | | |
| | 145 HB 30 ≈ 490 N/mm² tensile strength | | 230 HB 30 ≈ 765 N/mm² tensile strength | | 385 HB 30 ≈ 1295 N/mm² tensile strength | | **5.6** (5 D) | | **8.8** (8 D) | | **10.9** (10 K) | |
| **No.** | **177** | **178** | **177** | **178** | **177** | **178** | **177** | **178** | **177** | **178** | **177** | **178** |
| 18" | 7 | 8 | 6 | 7 | 5 | 6 | 7 | 8 | 6 | 7 | 5 | 6 |
| 24" | 9 | 10 | 8 | 9 | 6,5 | 8 | 8 | 10 | 7 | 8 | 6 | 7 |
| 30" | 10 | 12 | 9 | 10 | 8 | 9 | 10 | 12 | 8 | 10 | 7 | 8 |
| 36" | 12 | 14 | 10 | 12 | 9 | 10 | 12 | 14 | 10 | 12 | 8 | 10 |
| 42" | 14 | 16 | 11 | 14 | 10 | 11 | 14 | 16 | 12 | 14 | 10 | 12 |



Quantities in packs may vary.

## 8178

### BOLT CUTTER

- Acc. to DIN ISO 5743
- Double cam bolt adjustment
- Cutting head replaceable
- Cutters from chrome-vanadium steel
- Max. cutting power in round stock 48 HRC

| Code | No. | max. ● mm | mm | inch | | |
|---|---|---|---|---|---|---|
| 2675137 | **8178 460** | 5 | 460 | 18 | 2090 | 1 |
| 2675145 | **8178 620** | 7 | 620 | 24 | 3140 | 1 |
| 2675153 | **8178 780** | 8 | 780 | 30 | 6020 | 1 |
| 2675161 | **8178 900** | 9 | 900 | 36 | 6430 | 1 |

## 8179

### CONCRETE MESH AND BOLT CUTTER

- Acc. to DIN ISO 5743
- Double cam bolt adjustment
- Cutting head replaceable
- Cutters from chrome-vanadium steel
- Max. cutting power in round stock 40 HRC, 9 mm or 2 x 8 mm

| Code | No. | mm | | |
|---|---|---|---|---|
| 2675188 | **8179 900** | 900 | 4250 | 1 |

## 9850

### CONCRETE MESH AND BOLT CUTTER

- Knife and tube head in special steel, hot forged
- Adjustable by means of adjusting screw
- Max. cutting power in round stock 40 HRC, 9 mm or 2 x 8 mm
- Enamelled blue

| Code | No. | mm | | |
|---|---|---|---|---|
| 4534390 | **985095** | 950 | 4.5 | 1 |

## E 9850

### PARTS

| Code | No. | Description | | |
|---|---|---|---|---|
| 4624030 | **985109** | Spare knife head | 980 | 1 |
| 1468065 | **985809** | Adjusting screw with 2 nuts | 120 | 1 |
| 1912607 | **985500** | Screw set | 305 | 1 |

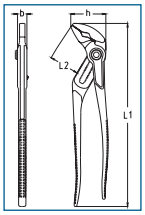
Quantities in packs may vary.

## 142 Universal pliers

### 142

**UNIVERSAL PLIERS**

- Acc. to DIN ISO 8976 Form C
- With safety box joint and protection against blocking
- Fine adjustment
- 142 10 = 15 settings
- 142 12 = 17 settings
- Single-hand push-button adjustment
- Long slim jaws
- Model C = slim handles with forged serrations
- Model TL = clear varnished, with blue dipped handle protectors
- Model JC = chrome-plated, 2-component handles
- Offset gripping faces for self-gripping of nuts and pipes
- GEDORE chrome-vanadium special steel
- Induction-rehardened serrated faces

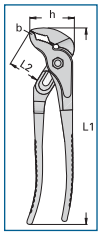


| Code | No. | $L_1$ | $L_2$ | b | h | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6416180 | **142 10 TL** | 255 | 39 | 7.5 | 48 | 38 | 371 | 5 |
| 6416260 | **142 10 C** | 250 | 39 | 7.5 | 48 | 38 | 380 | 5 |
| 6416340 | **142 10 JC** | 260 | 39 | 7.5 | 48 | 38 | 417 | 5 |
| 1995413 | **142 12 TL** | 309 | 43 | 8.5 | 55 | 44 | 550 | 1 |
| 1995553 | **142 12 C** | 300 | 43 | 8.5 | 55 | 44 | 530 | 1 |

### 143

**UNIVERSAL PLIERS 6 settings**

- Acc. to DIN ISO 8976 Form B
- Slim head
- Forged twin-groove lay-on slip joint and toothed recess
- Offset gripping faces for self-gripping of nuts and pipes
- With finger protection
- For pipes up to 1.1/2" and nuts up to 38 mm
- GEDORE chrome-vanadium special steel, chrome-plated
- Induction-rehardened serrated faces
- Model C = slim handles with forged serrations
- Model JC = chrome-plated, 2-component handles

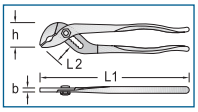



| Code | No. | $L_1$ | $L_2$ | b | h | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6410650 | **143 10 C** | 256 | 40 | 10.6 | 56 | 38 | 340 | 5 |
| 6415880 | **143 10 JC** | 262 | 40 | 10.6 | 56 | 38 | 390 | 5 |

### 144

**MECHANICS PLIERS 7 settings**

- Acc. to DIN ISO 8976 Form A
- Lay-on slip joint and straight, serrated jaws
- GEDORE chrome-vanadium special steel
- Induction-rehardened serrated faces




| Code | No. | $L_1$ | $L_2$ | b | h | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6411110 | **144 4.1/2 C** | 113 | 13 | 3.8 | 23 | 16 | 42 | 1 |
| 6411380 | **144 7 C** | 175 | 22 | 5.5 | 35 | 26 | 138 | 1 |



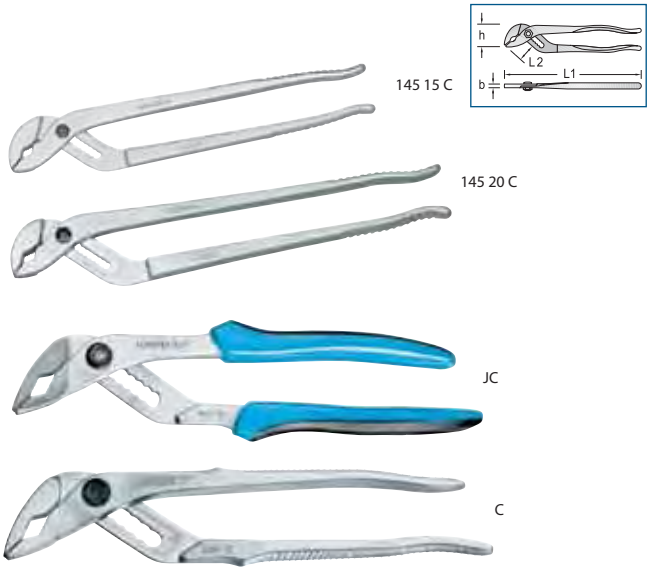
Quantities in packs may vary.

# 145 Water pump pliers

## 145

### WATER PUMP PLIERS

- Acc. to DIN ISO 8976 Form A
- Lay-on slip joint and toothed recess
- Induction-rehardened serrated faces, with finger protection
- GEDORE chrome-vanadium special steel, chrome-plated
- Model C = handles cross-hatched
- Model JC = with 2-component handle sleeves
- 145 10 = 7 settings, with extra narrow jaws
- 145 15 = 9 settings
- 145 20 = 11 settings

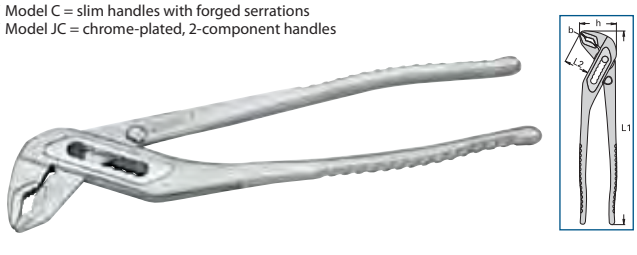



| Code | No. | $L_1$ | $L_2$ | b | h | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6412000 | **145 10 C** | 250 | 41 | 7.8 | 47 | 39 | 365 | 5 |
| 6415610 | **145 10 JC** | 260 | 41 | 7.8 | 47 | 39 | 425 | 5 |
| 6412190 | **145 15 C** | 375 | 46 | 10.4 | 72 | 50 | 854 | 1 |
| 6412270 | **145 20 C** | 500 | 55 | 13.8 | 98 | 65 | 1747 | 1 |

## 146

### UNIVERSAL PLIERS 7 settings

- Acc. to DIN ISO 8976 Form C
- With safety box joint and finger protection
- Automatic clamping with offset gripping surfaces
- GEDORE chrome-vanadium special steel, chrome-plated, with polished surface
- Induction-rehardened serrated faces
- Model C = slim handles with forged serrations
- Model JC = chrome-plated, 2-component handles




| Code | No. | | $L_1$ | $L_2$ | b | h | mm | | |
|---|---|---|---|---|---|---|---|---|---|
| 6413240 | **146 10 C** | | 250 | 32.5 | 4.8 | 48 | 31 | 335 | 5 |
| 2672626 | **146 10 JC** | | 250 | 32.5 | 4.8 | 48 | 31 | | 5 |

## 146 B

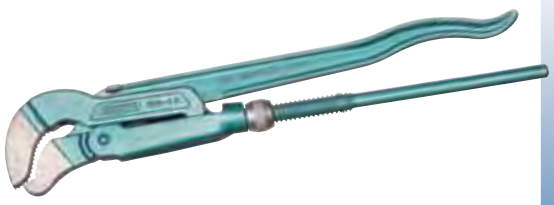
### SPECIAL WATER PUMP PLIERS 5 settings

- Acc. to DIN ISO 8976 Form C
- With fast adjustment and tooth-lock box joint and toothed aperture
- Absolutely safe - no slipping out of adjustment during work
- With finger protection
- GEDORE chrome-vanadium special steel, chrome-plated, polished

| Code | No. | $L_1$ | $L_2$ | b | h | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6412510 | **146 B 10** | 250 | 45 | 8 | 55 | 50 | 485 | 1 |

100

576



Quantities in packs may vary.

# PLIER ASSORTMENTS

- Produced in-house by GEDORE Austria
- Combination, flat-nosed, round-nosed and mechanics pliers made from GEDORE special hardened and tempered steel
- Side cutters and end cutting nippers made from GEDORE high-performance hardened and tempered steel
- TL = black, with blue dipped handle protectors
- JC = chrome-plated, 2-component handles with secure-grip hand protection
- Hot-forged tempered steel
- Precision machined, oil-hardened and annealed
- Induction-rehardened cutting edges
- Protective nickel and chrome plating
- Optimum transfer of force
- High cutting performance
- Fatigue-free, even in constant use
- Guaranteed GEDORE quality

## S 8003 JC

### PLIERS SET 3 pieces

- Practical set composition in environmentally-friendly cardboard box
- JC = chrome-plated, 2-component handles with secure-grip hand protection

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6701110 | **S 8003 JC** | **8132**-160 JC<br>**8250**-180 JC<br>**8316**-160 JC | 766 | 1 |

## S 8003 TL

### PLIERS SET 3 pieces

- Practical set composition in environmentally-friendly cardboard box
- TL = clear varnished, with blue dipped handle protectors

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6755470 | **S 8003 TL** | **8132**-160 TL<br>**8250**-180 TL<br>**8316**-160 TL | 642 | 1 |

## S 8200 JC

### PLIERS SET 4 pieces

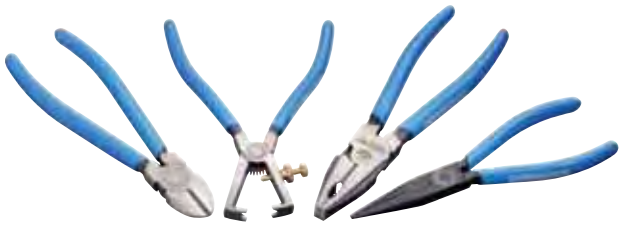
- Practical set composition in environmentally-friendly cardboard box
- JC = chrome-plated, 2-component handles with secure-grip hand protection

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6730800 | **S 8200 JC** | **8098**-160 JC<br>**8132**-160 JC<br>**8250**-180 JC<br>**8314**-160 JC | 927 | 1 |

## S 8200 TL

### PLIERS SET 4 pieces

- Practical set composition in environmentally-friendly cardboard box
- TL = clear varnished, with blue dipped handle protectors



| Code | No. | Contents | | |
|---|---|---|---|---|
| 6738700 | **S 8200 TL** | **8098**-160 TL<br>**8132**-160 TL<br>**8250**-180 TL<br>**8314**-160 TL | 754 | 1 |

Quantities in packs may vary.

## S 8303 JC

### PLIERS SET 3 pieces

- Practical set composition in environmentally-friendly cardboard box
- JC = chrome-plated, 2-component handles with secure-grip hand protection

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6703160 | **S 8303 JC** | **142** 10 JC<br>**8250**-180 JC<br>**8316**-160 JC | 1005 | 1 |

## S 8303 TL

### PLIERS SET 3 pieces

- Practical set composition in environmentally-friendly cardboard box
- TL = clear varnished, with blue dipped handle protectors

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6703910 | **S 8303 TL** | **142** 10 TL<br>**8250**-180 TL<br>**8316**-160 TL | 880 | 1 |

## S 8004 TL

### PLIERS SET 3 pieces

- Practical set composition in environmentally-friendly cardboard box
- TL = clear varnished, with blue dipped handle protectors

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6752960 | **S 8004 TL** | **8132**-160 TL<br>**8245**-180 TL<br>**8316**-160 TL | 641 | 1 |

## RZB1-1

### PLIERS SET 6 pieces

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1689312 | **RZB1-1** | **142** 10 JC<br>**8136**-200 JC<br>**8250**-180 JC<br>**8316**-160 JC<br>**8010 A** 2<br>**8010 J** 2 | 2000 | 1 |

## RZB1-2

### PLIERS SET 6 pieces

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1708155 | **RZB1-2** | **8098**-160 JC<br>**8120**-160 JC<br>**8122**-160 JC<br>**8132**-160 JC<br>**8250**-180 JC<br>**8316**-180 JC | 1740 | 1 |

## RZB2-12

### PLIERS SET 3 pieces

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1692305 | **RZB2-12** | **8132**-160 JC<br>**8250**-180 JC<br>**8316**-160 JC | 875 | 1 |

Quantities in packs may vary.

## RZB1-10

**PLIERS SET 4 pieces**

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1701290 | **RZB1-10** | **137** 10<br>**145** 10 JC<br>**8250**-200 JC<br>**247 H**-35 | 2424 | 1 |

## RZB1-15

**PLIERS SET 4 pieces**

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1823264 | **RZB1-15** | **8098**-160 JC<br>**8132**-160 JC<br>**8250**-180 JC<br>**8314**-160 JC | 1320 | 1 |

## RZB1-21

**PLIERS SET 6 pieces**

| Code | No. | Contents | | |
|---|---|---|---|---|
| 2159414 | **RZB1-21** | **142** 10 TL<br>**8133**-180 TL<br>**8000 A** 2 **A** 22<br>**8000 J** 2 **J** 22 | 1683 | 1 |

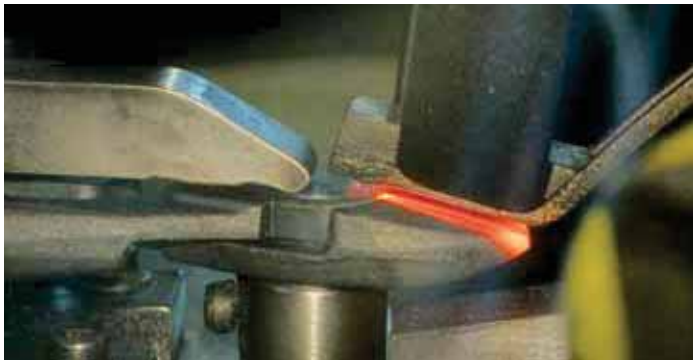
## RZB1-16

**TOOL SET 6 pieces**

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1823671 | **RZB1-16** | **8250**-180 JC<br>**8316**-160 JC<br>**2150** 4 6,5<br>**2160 PH** 1 2 | 1305 | 1 |

924

541





Quantities in packs may vary.

# CIRCLIP PLIERS SETS

920 • 921 • 923

541

## S 8000

### SET OF CIRCLIP PLIERS 4 pieces

- Most popular sizes, packed in environmentally-friendly cardboard box
- Particularly suitable for barely accessible places
- For internal and external circlip rings
- With straight and 90 ° angled tips

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6701030 | **S 8000** | **8000 A** 2 **A** 21<br>**8000 J** 2 **J** 21 | 756 | 1 |

## S 8010

### SET OF CIRCLIP PLIERS 4 pieces

- Most popular sizes, packed in environmentally-friendly cardboard box
- Particularly suitable for barely accessible places
- For internal and external circlip rings
- With straight and 90 ° angled tips

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6702000 | **S 8010** | **8010 A** 2 **A** 21<br>**8010 J** 2 **J** 21 | 760 | 1 |

## S 8100

### SET OF CIRCLIP PLIERS 4 pieces

- Most popular sizes, packed in environmentally-friendly cardboard box
- Particularly suitable for barely accessible places
- For internal and external circlip rings
- With straight and 90 ° angled tips

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6703080 | **S 8100** | **8000 A** 1 **A** 2<br>**8000 J** 1 **J** 2 | 597 | 1 |

## S 8008

### SET OF CIRCLIP PLIERS 8 pieces

- Most popular sizes, packed in environmentally-friendly cardboard box
- Particularly suitable for barely accessible places
- For internal and external circlip rings
- With straight and 90 ° angled tips

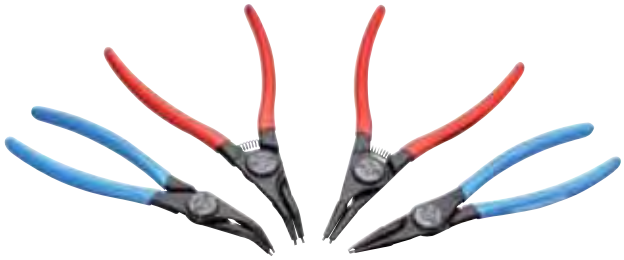
| Code | No. | Contents | | |
|---|---|---|---|---|
| 6700490 | **S 8008** | **8000 A** 1 **A** 11 **A** 2 **A** 21<br>**8000 J** 1 **J** 11 **J** 2 **J** 21 | 1082 | 1 |

Quantities in packs may vary.

## S 8024

### SET OF CIRCLIP PLIERS 4 pieces

- Most popular sizes, packed in environmentally-friendly cardboard box
- For automotive use
- Particularly suitable for barely accessible places
- For internal and external circlip rings
- With straight and 45 ° angled tips

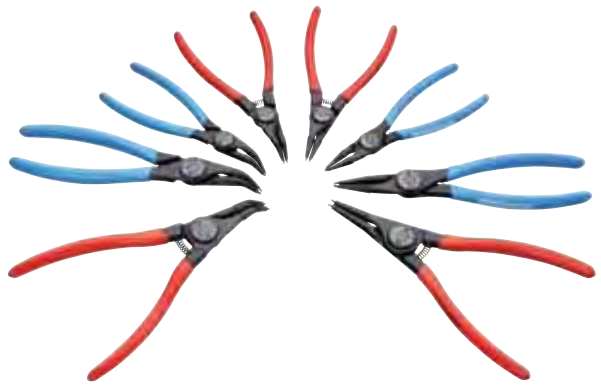


| Code | No. | Contents | | |
|---|---|---|---|---|
| 2148684 | **S 8024** | **8000 A** 2 **A** 22<br>**8000 J** 2 **J** 22 | 756 | 1 |

## S 8028

### SET OF CIRCLIP PLIERS 8 pieces

- Most popular sizes, packed in environmentally-friendly cardboard box
- For automotive use
- Particularly suitable for barely accessible places
- For internal and external circlip rings
- With straight and 45 ° angled tips



| Code | No. | Contents | | |
|---|---|---|---|---|
| 2148692 | **S 8028** | **8000 A** 1 **A** 2 **A** 12 **A** 22<br>**8000 J** 1 **J** 2 **J** 12 **J** 22 | 1082 | 1 |

## RZB1-3

### PLIERS SET 8 pieces

- Usual type of tool set packed in sturdy plastic case
- Particularly suitable for barely accessible places
- For internal and external circlip rings
- With straight and 90 ° angled tips

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1692275 | **RZB1-3** | **8000 A** 1 **A** 11 **A** 2 **A** 21<br>**8000 J** 1 **J** 11 **J** 2 **J** 21 | 1550 | 1 |

## RZB1-11

### PLIERS SET 4 pieces

- Usual type of tool set packed in sturdy plastic case
- Particularly suitable for barely accessible places
- For internal and external circlip rings
- With straight and 90 ° angled tips

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1692283 | **RZB1-11** | **8000 A** 2 **A** 21<br>**8000 J** 2 **J** 21 | 1155 | 1 |



Quantities in packs may vary.

## RZB1-19

### SET OF CIRCLIP PLIERS 8 pieces

- For automotive use
- Particularly suitable for barely accessible places
- Circlip pliers with straight and 45 ° angled tips
- For the safe installation and removal of internal and external retaining rings up to a size of 60 mm
- In rugged plastic case

| Code | No. | Contents | | |
|---|---|---|---|---|
| 2148706 | **RZB1-19** | **8000 A** 1 **A** 12 **A** 2 **A** 22<br>**8000 J** 1 **J** 12 **J** 2 **J** 22 | 1550 | 1 |

## RZB1-20

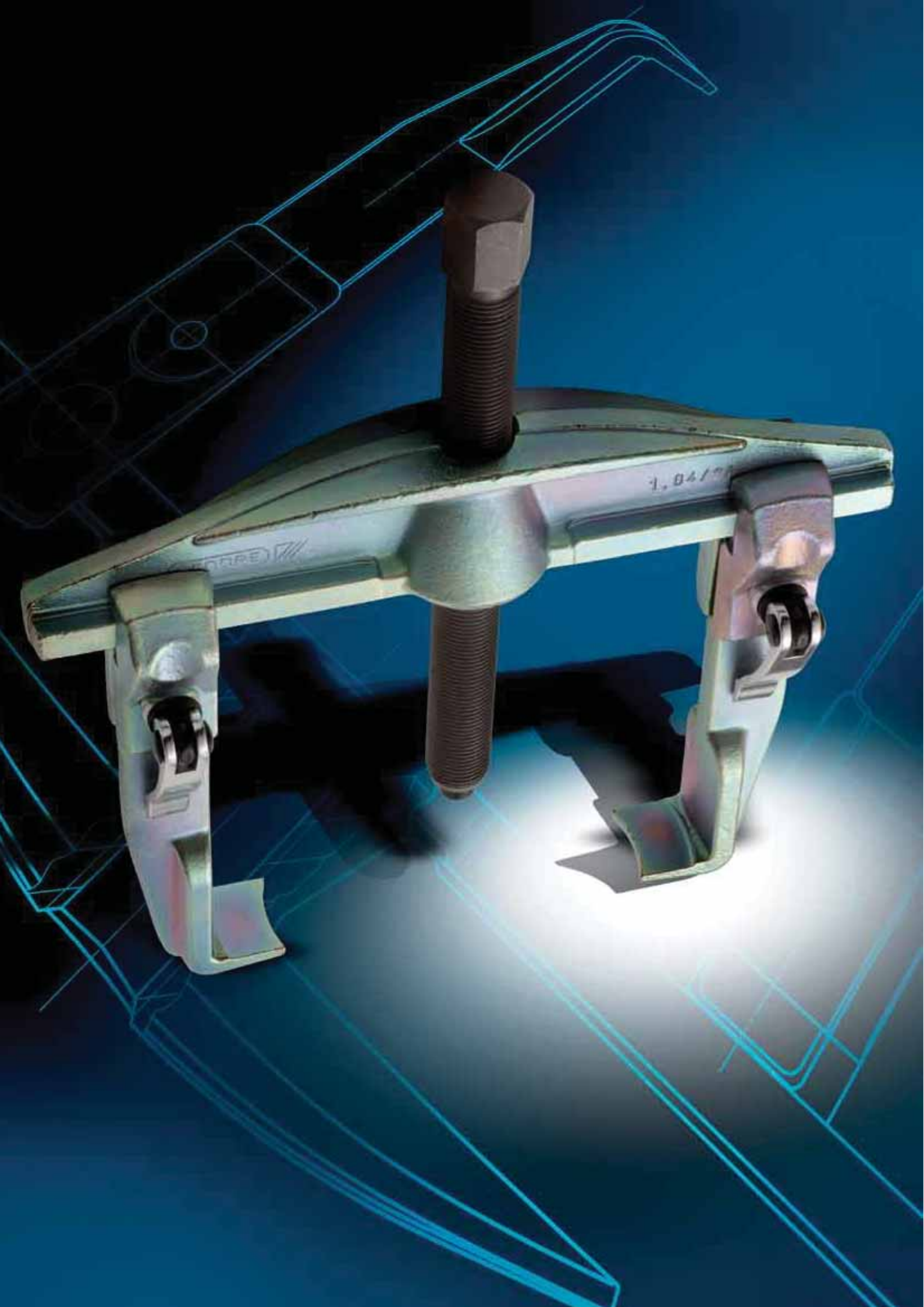
### SET OF CIRCLIP PLIERS 4 pieces

- For automotive use
- Particularly suitable for barely accessible places
- Circlip pliers with straight and 45 ° angled tips
- For the safe installation and removal of internal and external retaining rings up to a size of 60 mm
- In rugged plastic case

| Code | No. | Contents | | |
|---|---|---|---|---|
| 2155168 | **RZB1-20** | **8000 A** 2 **A** 22<br>**8000 J** 2 **J** 22 | 1155 | 1 |

VDE insulated safety tools are listed up from page 558

Quantities in packs may vary.



## + Innovative technology + powerful pulling


SERVICE / FEATURES 410 – 413

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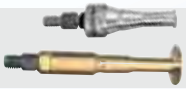
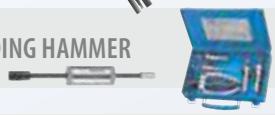
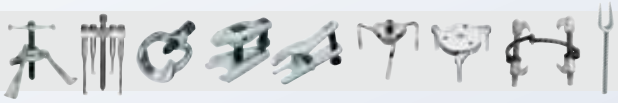
INTERNAL EXTRACTORS 

COUNTER-SUPPORT BRACE

SLIDING HAMMER  446 – 450

CYLINDER LINER PULLER 459

SPECIAL AUTOMOTIVE TOOLS  451 – 455

THREADED INSERTS

NUT SPLITTERS

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ADD-ON SYSTEMS 458 – 459

HEAVY-DUTY PULLERS 460 – 469

# GEDORE Pullers...

## For maximum performance - even under a multi-ton load

- High-grade industrial quality for the toughest forms of continuous use and safety in everyday work
- Our innovative force over the past few years, which has given rise to numerous patents and utility models, is very much a reflection of our extensive track record in the development and production of puller tools.
- Effortless moving of multi-ton loads
- Ideal for the controlled use of force and a vital requirement for safe working: puller in association with a torque wrench

## Best-possible quality for your safety

- Maximum value is attached to the safety of the puller when selecting the material and manufacturing process for each individual component part beforehand.
- Any overloading of drop-forged components, such as 2-arm cross-beams, legs and clamping parts, is revealed through deformation - on account of the course of their fibres - rather than through fracturing and/or splintering.
- Thermo-chemical treatment bestows a hardness on the components meeting the demands placed.
- Strict quality checks ensure a constant high level

## Intelligent designs - well thought-out components

- The refined GEDORE pullers impress as much through their quality as they do through their user-friendliness and superiority in detail:
- A lasered scale on the 2-arm cross-beam enable the legs to be symmetrically aligned
- Leg brake and quick-release clamp are those rapid and assured ways of locking and fastening the puller legs
- Both the nitro-carburised mechanical and hydraulic spindles have properties that make work considerably easier and safer.

## Flexibility and specialization - the right tool for every demand placed

- Irrespective as to whether the same pulling operations are repeated or whether you are confronted each time with new pulling challenges, special or flexible all-purpose pullers - saving both on time and force - are there to meet your individual demands
- The 1.06 and 1.07 series provide that unsurpassed flexibility. 2 and 3-arm cross-beams of various sizes, legs in the most varied of shapes and lengths, various fastening systems and the scope to replace the mechanical spindle by a hydraulic one all give rise to a modular system with which you can extensively retrofit and update your puller - thus making it applicable for all sorts of pulling situations.
- Appropriate ranges for varied fields of work - including the workshop, industry and agricultural/constructional machinery repairs.
- From the incidental parts to the heavy-duty puller, GEDORE provides tools for external, internal and ball bearing pullers and special-purpose tools. Should you still not find the right tool, then do contact us as to possible customized manufacturing.

# Manufacturing process of a 2-arm 1.06 puller

In line with the requirement, we hot-form the ideal steel for each puller sub-assembly.

## Cross-beam

1. Blank... from hard and tempered steel cut from the bar.

2. "Pre-upsetting"... Mighty hammer blows drop-forge the cut-to-length forging into the hot "pre-form".

3. Rough-forging... Powerful drop-hammer blows contour the cross-beam in the first die-sinking.

4. Final forging... The cross-beam obtains its ultimate shape in the second die-sinking.

5. De-burring... Excess burr is removed under an eccentric press.

6. Forged blank... Ready for further processing and finishing.

7. Calibrating... The width of the leg guide is calibrated and sand-blasted. Important for the following operations.

8. Grinding... Grinding the cross-beam on all sides.

9. Milling the leg guide... The height of the leg guide is milled to size.

10. Drilling... Tapped hole is drilled.

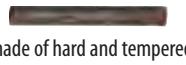
11. Cutting... The thread for the spindle is cut.

12. Zinc-plating... Electro-galvanized for corrosion protection.

13. Stamping... Manufacturer and Item No. are stamped on in a permanent fashion.

14. Lasering... The check-tool marking is lasered.

## Clamping parts



1. Blank .. made of hard and tempered steel and cut to size from the bar.

2. Upsetting... Mighty hammer blows drop-forge the cut-to-length forging into the hot "pre-form".

3. Rough-forging... Powerful drop-hammer blows contour the clamping parts in the first die-sinking.

4. Final forging... The clamping parts obtain their ultimate shape in the second die-sinking.

5. Hot de-burring... Still hot excess burr is removed under an eccentric press.

6. Forged blank... Ready for further processing and finishing.

7. Calibrating... The clamping part is calibrated and sand-blasted.

8. Perforating... The two holes for connection with the leg are cold-holed.

9. Zinc-plating... Electro-galvanizing protects the clamping part from corrosion.

10. Mounting... A pin and a screw and/ or the quick-release clamp are for connecting two clamping parts to the leg.

## Legs

1. Blank .. made of 31CrV3 and cut to size from the bar.

2. Forging... hot, drop-forged.

3. De-burring... Excess burr is removed under an eccentric press.

4. Calibrating... The leg is calibrated and sand-blasted.

5. Drilling... The holes for the clamps are drilled.

6. Milling... Milling provides the leg base with its optimum form.

7. Tempering... A special thermal treatment involving inert gas gives the leg its extreme hardness and toughness. Hardening ensures the required hardness and the annealing which follows imparts that toughness to the legs. Hardening and annealing together are referred to as tempering.

8. Sand-blasting... Sand-blasting is made use of to clean the surface before processing continues.

9. Zinc-plating... Electro-galvanizing protects the leg from corrosion.

10. Pressing-in... The connecting pin for the two clamping parts is pressed in.

## Spindle

1. Blank ... from hard and tempered steel cut from the bar.

2. Turning + drilling... Turn the spindle to measure and the drill hole for the spindle tip is inserted.

3. Rolling... The fine thread is rolled.

4. Nitro-carburating... Edge-layer hardening of the thread. The spindle is toughened at the edge and thus resistant to wear. The core remains "soft" and flexible and resiliently absorbs any stresses arising.

5. Riveting... Either the firm spindle tip is permanently riveted or the replaceable spindle tip inserted.

GEDORE

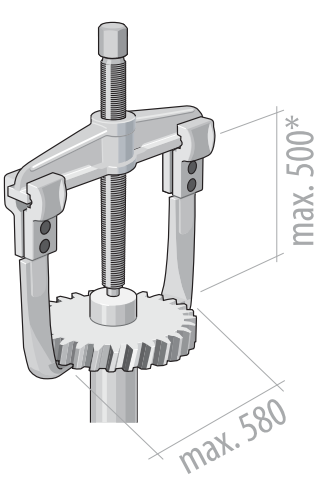
# Your path to the right puller

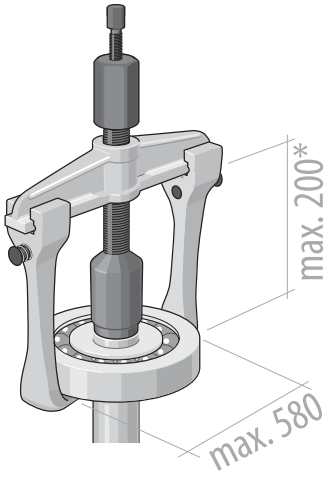
**How can the component to be extracted be gripped?**

**Is a support possible either externally or internally?**

**Which clamping spread/reach has to be obtained?**

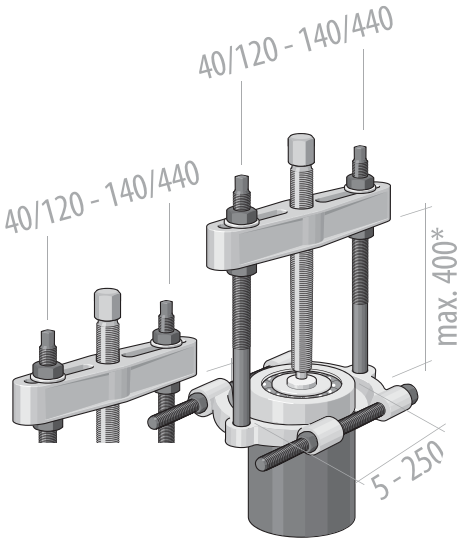
## External pulling




- The component to be extracted can only be gripped externally
- The centre axle is for supporting purposes

414 – 441

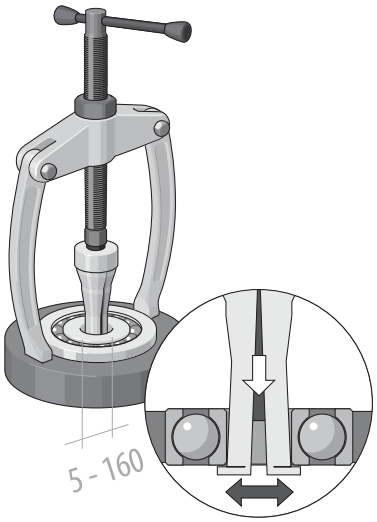



- The component to be extracted is well set into, thus ruling out the use of pulling legs
- The centre axle is for supporting purposes

442 – 443

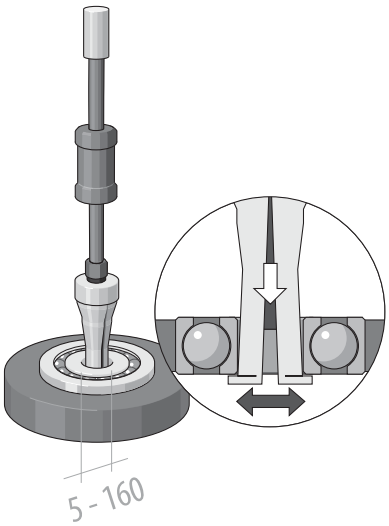
## Internal pulling

- The component to be extracted can only be gripped internally
- Centre axle supporting is not possible

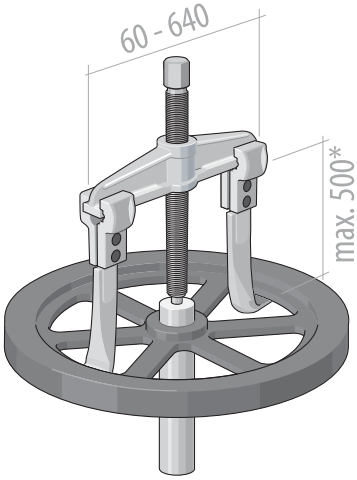



- Supporting possible outside of the component

446 – 450




- No support possible - thus the use of extracting aids




- Centre axle supporting is possible

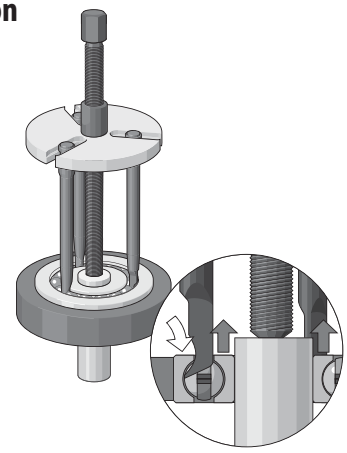
418 – 425



* extendable using extensions

## Ball bearing extraction

- The ball bearing to be pulled is fitted on a shaft and in a housing and, as such, can neither be internally or externally gripped

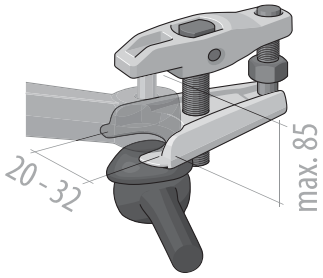


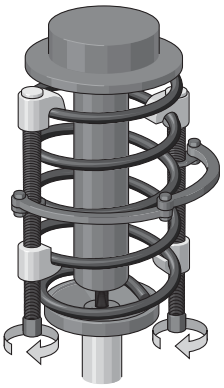
444 – 445

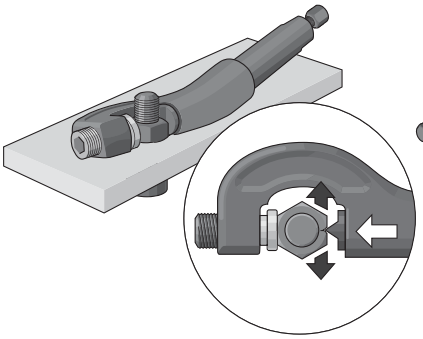
## Extraction using a special-purpose tool

**Automotive tool for**

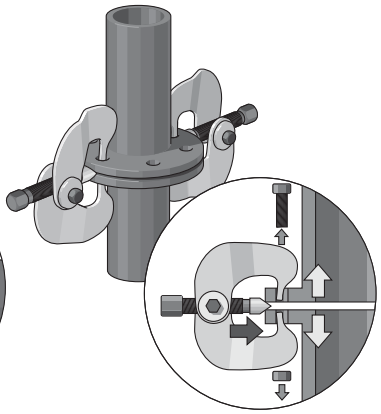
- Ball joints
- Oil filters /cartridges
- Steering wheel
- Springs
- Wheel hubs etc.





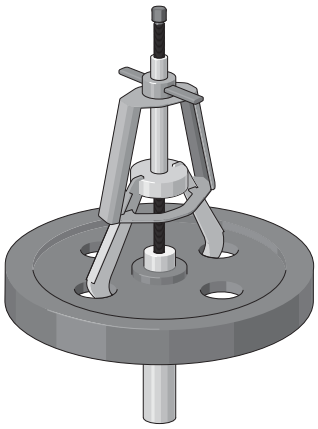
- Nut splitters
- Stud extractors



- Flange separators
- Threaded inserts

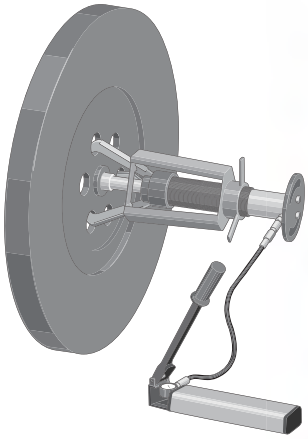
451 – 457

## Heavy-duty extracting



- Mechanical extracting of heavy loads up to 36 tons

460 – 461

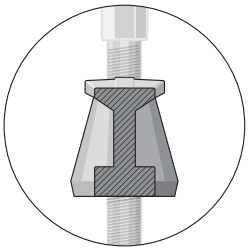


- Hydraulic extracting of heavy loads up to 45 tons

462 – 467

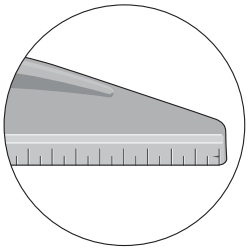
# 1.04 - A thoroughly superior type of puller

The quick-release adjuster makes for trouble-free setting and readjustment
Reinforced cross-beam - the additional arching at the top of the crossbar produces an H-profile which, in turn, raises the load capacity as against the flexural torque.



The legs of the 1.04 puller series have a T-profile. This ensures a positive fit between leg and cross-beam. The T-profile transfers the tensile force of the hooks via the clamping parts to the cross-beam - with no losses involved.

The permanently lasered scale makes it easier to symmetrically align the legs. This effectively stops any tilting when extracting caused by incorrectly positioned legs. A final marking specifies the maximum clamping spread.



Series 1.04 cross-beams, legs and clamping parts are hot drop-forged from hardened and tempered steel, giving them all the benefits of drop-forged components.

## Safety-relevant

Forces amounting to several tons in weight act on the puller during the extracting operation! Drop-forged components "announce" possible overloading by bending. This is due to the fibre course of the material during forging permitting a certain flexibility of the components ahead of fracturing - an extremely "healthy" property, in fact !

## GEDORE spindles...

...comprise turned hardened and tempered steel. The fine thread is then rolled - this additional strengthening of the steel gives rolled thread a higher strength than a thread produced by cutting.
...have a fine thread which stops any unintended slackening from vibrations.
...are thermo-chemically treated. Nitro-carburating gives the spindle a high degree of wear and corrosion resistance. Oils and greases are not needed and, as such, the thread stays clean and smooth much longer.
...are fitted out with a replaceable spindle tip which is equally suitable for both centred and non-centred shafts.

## 1.04

### UNIVERSAL PULLER 2-arm pattern

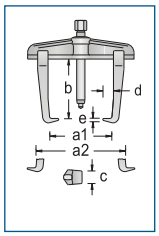
- For the safe and quick removal of pulleys, wheels, ball bearings, etc.
- Due to the bending-moment reinforcement on its back face, the energy-saving design of the cross-beam means even stronger and safer pulling work
- Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- With the newly-developed cantilever hook design, it is possible to use these higher forces without losses over the whole width of the cross-beam
- The quick-action adjustment feature supports the energy-saving and fast operation
- Spindle with replaceable ball and tip point
- Upgradeable with hydraulic spindle (see table)

| Code | No. | $a_1$ | $a_{2\,min}$ | $a_{2\,max}$ | b | | | mm | c | d | e | max. t | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1307703 | **1.04/1A** | 130 | 70 | 170 | 100 | M 14x1,5 x 140 | | 17 | 22 | 12 | 3.0 | 3.0 | x | 1.2 |
| 1307827 | **1.04/2A** | 200 | 110 | 260 | 150 | G 1/2 x 210 | 1.06/HSP1 | 22 | 30 | 18 | 3.5 | 5.0 | x | 3.4 |
| 1307940 | **1.04/3A** | 350 | 150 | 420 | 200 | G 3/4 x 280 | 1.06/HSP2 | 27 | 36 | 28 | 6.5 | 7.5 | x | 7.7 |

## 1.04/B

### UNIVERSAL PULLER 2-arm pattern, rigid legs with leg brake

- Due to the bending-moment reinforcement on its back face, the energy-saving design of the cross-beam means even stronger and safer pulling work
- Rigid legs forged from one piece
- The legs clamp automatically when under tension
- Leg brake - prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- By reversing the legs, this tool can be used as an internal or external puller
- Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- Spindle with replaceable ball and tip
- Spindle thermo-chemically hardened
- Upgradeable with hydraulic spindle (see table)




| Code | No. | $a_1$ | $a_{2\,min}$ | $a_{2\,max}$ | b | | | mm | c | d | e | max. t | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1981110 | **1.04/1A-B** | 130 | 70 | 170 | 100 | M 14x1,5 x 140 | | 17 | 22 | 15 | 3.0 | 3.0 | x | 1.2 |
| 1981129 | **1.04/2A-B** | 200 | 110 | 260 | 150 | G 1/2 x 210 | 1.06/HSP1 | 22 | 30 | 24 | 3.5 | 5.0 | x | 3.4 |
| 1981137 | **1.04/3A-B** | 350 | 150 | 420 | 200 | G 3/4 x 280 | 1.06/HSP2 | 27 | 36 | 33 | 5.0 | 7.5 | x | 7.7 |


Legs with leg brake

428 – 429


## 104/E

### QUICK-RELEASE PULLING LEG

- Quick-release pulling leg for 1.04
- Patented

| Code | No. | | b | c | d | e | |
|---|---|---|---|---|---|---|---|
| 1499351 | **104/A-100-TE** | 1.04/1A | 100 | 22 | 12 | 3.0 | 0.3 |
| 1499378 | **104/B-150-TE** | 1.04/2A | 150 | 30 | 18 | 3.5 | 0.7 |
| 1499386 | **104/C-200-TE** | 1.04/3A | 200 | 36 | 28 | 6.5 | 2.9 |

## 1.04/ST

### PULLER SET on sales display

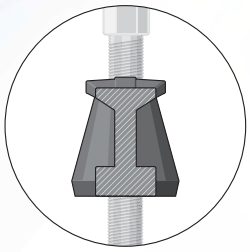
- Consisting of 3 each pullers and sales display

| Code | No. | | |
|---|---|---|---|
| 1675982 | **1.04/ST** | 1.04/1A 1.04/2A 1.04/3A | 15.2 |
| 2300044 | **1.04/ST-HP-B** | 1.04/HP1A-B 1.04/HP2A-B 1.04/HP3A-B | 15.2 |

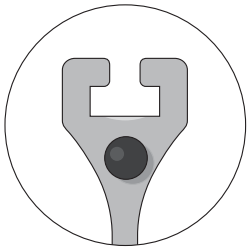
Quantities in packs may vary.

# 1.04 HIGH POWER - The power pack

Reinforced cross-beam - the additional arching at the top of the crossbar produces an H-profile which, in turn, raises the load capacity as against the flexural torque.
In the HP version the cross-beam is additionally hardened and tempered. This brings about practically a doubling of the loading limit!



The permanently lasered scale makes it easier to symmetrically align the legs. This effectively stops any tilting when extracting caused by incorrectly positioned legs. A final marking specifies the maximum clamping spread.



The all-in steel legs are hot forged in one piece from 31CrV3 steel and hardened/tempered. They provide a positive-locking connection to the cross-beam.
The leg brake secures the hooks from unintentional motions. (Patent applied)
Pressing the release button unlatches the locking - the leg can be moved on the cross-beam. Releasing the button causes the leg to jam tight on the cross-beam with slipping ruled out.

## Safety-relevant

Forces amounting to several tons in weight act on the puller during the extracting operation! Drop-forged components "announce" possible overloading by bending. This is due to the fibre course of the material during forging permitting a certain flexibility of the components ahead of fracturing - an extremely "healthy" property, in fact !

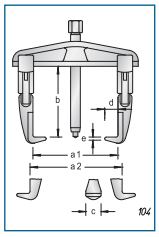
## Hydraulic spindles

- Hydraulic spindles simplify the work - less force and time needed for a pulling operation
- The hydraulic spindle principle is both straightforward and ingenious at the same time. The effect of screwing in the clamping bolt is to compress the grease inside the hydraulic piston - the extending piston acts on the part to be extracted with a force many times greater than that manually applied at the top.
- This controlled operation provides for working safely with the hydraulic spindle and is recommended, in particular, for high levels of force.
- In the 1.04 series a hydraulic spindle can be used upwards of puller size 2A. The precise operation is gone into on Page 430.

## 1.04/HP

### UNIVERSAL PULLER HIGH POWER 2-arm pattern

- Cross-beam especially hardened and tempered allows safe application of extremely high pulling forces and doubles the tensile force capability
- By reversing the legs, this tool can be used as an internal or external puller
- Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- Integral legs, with quick-release
- Spindle with replaceable ball and tip
- Spindle thermo-chemically hardened
- Upgradeable with hydraulic spindle (see table)

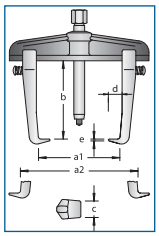


| Code | No. | $a_1$ | $a_{2\,min}$ | $a_{2\,max}$ | b | | | mm | c | d | e | max. t | | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1868152 | **1.04/HP1A** | 130 | 70 | 170 | 100 | M 14x1,5 x 140 | | 17 | 22 | 12 | 3.0 | 5.0 | x | 1.2 |
| 1868160 | **1.04/HP2A** | 200 | 110 | 260 | 150 | G 1/2 x 210 | 1.06/HSP1 | 22 | 30 | 18 | 3.5 | 10.0 | x | 3.4 |
| 1868179 | **1.04/HP3A** | 350 | 150 | 420 | 200 | G 3/4 x 280 | 1.06/HSP2 | 27 | 36 | 28 | 6.5 | 15.0 | x | 7.7 |

## 1.04/HP-B

### UNIVERSAL PULLER HIGH POWER 2-arm pattern, rigid legs with leg brake

- Cross-beam especially hardened and tempered allows safe application of extremely high pulling forces and doubles the tensile force capability
- Rigid legs forged from one piece
- Leg brake - prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- By reversing the legs, this tool can be used as an internal or external puller
- Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- Two versions: with mechanical or hydraulic spindle

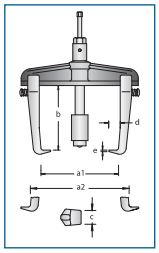


| Code | No. | $a_1$ | $a_{2\,min}$ | $a_{2\,max}$ | b | | | mm | c | d | e | max. t | | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1981145 | **1.04/HP1A-B** | 130 | 70 | 170 | 100 | M 14x1,5 x 140 | | 17 | 22 | 15 | 3.0 | 5.0 | x | 1.2 |
| 1981153 | **1.04/HP2A-B** | 200 | 110 | 260 | 150 | G 1/2 x 210 | 1.06/HSP1 | 22 | 30 | 24 | 3.5 | 10.0 | x | 3.4 |
| 1981161 | **1.04/HP3A-B** | 350 | 150 | 420 | 200 | G 3/4 x 280 | 1.06/HSP2 | 27 | 36 | 32 | 5.0 | 15.0 | x | 7.7 |

## 1.04/HP-B-HSP

### UNIVERSAL PULLER HIGH POWER hydraulic, 2-arm pattern, solid steel legs with leg brake

- Cross-beam especially hardened and tempered allows safe application of extremely high pulling forces and doubles the tensile force capability
- Rigid legs forged from one piece
- Leg brake - prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- By reversing the legs, this tool can be used as an internal or external puller
- Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- With the hydraulic spindle, a controlled and safe pulling action is possible at all times



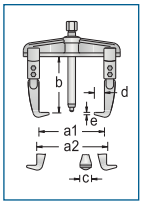
| Code | No. | $a_1$ | $a_{2\,min}$ | $a_{2\,max}$ | b | | c | d | e | max. t | max. N-m | | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2016206 | **1.04/HP2A-B-HSP1** | 200 | 110 | 260 | 150 | 1.06/HSP1 | 30 | 24 | 3.5 | 10.0 | 17 | x | 3.8 |
| 2300036 | **1.04/HP3A-B-HSP2** | 350 | 150 | 420 | 200 | 1.06/HSP2 | 36 | 32 | 5.0 | 12.0 | 19 | x | 7.8 |

Quantities in packs may vary.

## 1.06

### UNIVERSAL PULLER 2-arm pattern

- The tried and tested model for the safe and quick removal of pulleys, wheels, ball bearings, etc.
- Strong drop forged design
- Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- By reversing the legs, this tool can be used as an internal or external puller
- Extra or replacement legs increase versatility
- Upgradeable with hydraulic spindle (see table)

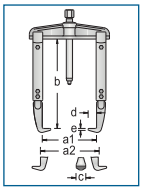


| Code | No. | $a_1$ | $a_{2\,min}$ | $a_{2\,max}$ | b | | | mm | c | d | e | max. t | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8000230 | **1.06/1** | 90 | 60 | 140 | 100 | M 14x1,5 x 140 | | 17 | 22 | 12 | 3.0 | 3.0 | x | 1.1 |
| 8000310 | **1.06/1A** | 130 | 70 | 180 | 100 | M 14x1,5 x 140 | | 17 | 22 | 12 | 3.0 | 3.0 | x | 1.3 |
| 8000580 | **1.06/2** | 160 | 80 | 220 | 150 | G 1/2 x 210 | 1.06/HSP1 | 22 | 30 | 18 | 3.5 | 5.0 | x | 3.0 |
| 8000660 | **1.06/2A** | 200 | 90 | 260 | 150 | G 1/2 x 210 | 1.06/HSP1 | 22 | 30 | 18 | 3.5 | 5.0 | x | 3.5 |
| 8000740 | **1.06/3** | 250 | 125 | 330 | 200 | G 3/4 x 280 | 1.06/HSP2 | 27 | 36 | 28 | 6.5 | 7.5 | x | 7.2 |
| 8000820 | **1.06/3A** | 350 | 125 | 420 | 200 | G 3/4 x 280 | 1.06/HSP2 | 27 | 36 | 28 | 6.5 | 7.5 | x | 8.2 |
| 8000900 | **1.06/4** | 520 | 185 | 600 | 200 | G 1 x 310 | 1.06/HSP3 | 36 | 36 | 28 | 6.5 | 10.0 | - | 13.7 |

## 1.06

### UNIVERSAL PULLER 2-arm pattern, with extended legs

- Strong drop forged design
- Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- Extended legs
- By reversing the legs, this tool can be used as an internal or external puller
- Extra or replacement legs increase versatility
- Upgradeable with hydraulic spindle (see table)

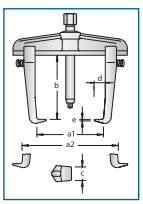


| Code | No. | $a_1$ | $a_{2\,min}$ | $a_{2\,max}$ | b | | | mm | c | d | e | max. t | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8108350 | **1.06/1-2** | 90 | 60 | 140 | 200 | M 14x1,5 x 140 | | 17 | 22 | 12 | 3.0 | 3.0 | x | 1.5 |
| 8108430 | **1.06/1A-2** | 130 | 70 | 180 | 200 | M 14x1,5 x 140 | | 17 | 22 | 12 | 3.0 | 3.0 | x | 1.6 |
| 8108510 | **1.06/2-3** | 160 | 80 | 220 | 300 | G 1/2 x 210 | 1.06/HSP1 | 22 | 30 | 18 | 3.5 | 5.0 | x | 4.1 |
| 8108780 | **1.06/2A-3** | 200 | 90 | 260 | 300 | G 1/2 x 210 | 1.06/HSP1 | 22 | 30 | 18 | 3.5 | 5.0 | x | 4.5 |
| 8001200 | **1.06/3-3** | 250 | 125 | 330 | 300 | G 3/4 x 280 | 1.06/HSP2 | 27 | 36 | 28 | 6.5 | 7.5 | x | 9.1 |
| 8108860 | **1.06/3A-3** | 350 | 125 | 420 | 300 | G 3/4 x 280 | 1.06/HSP2 | 27 | 36 | 28 | 6.5 | 7.5 | x | 9.8 |
| 8108940 | **1.06/4-3** | 520 | 185 | 600 | 300 | G 1 x 310 | 1.06/HSP3 | 36 | 36 | 28 | 6.5 | 10.0 | x | 15.2 |
| 8109080 | **1.06/3-4** | 250 | 125 | 330 | 400 | G 3/4 x 280 | 1.06/HSP2 | 27 | 36 | 28 | 6.5 | 7.5 | x | 10.0 |
| 8109160 | **1.06/3A-4** | 350 | 125 | 420 | 400 | G 3/4 x 280 | 1.06/HSP2 | 27 | 36 | 28 | 6.5 | 7.5 | x | 11.1 |
| 8109240 | **1.06/4-4** | 520 | 185 | 600 | 400 | G 1 x 310 | 1.06/HSP3 | 36 | 36 | 28 | 6.5 | 10.0 | - | 16.4 |
| 8109320 | **1.06/3-5** | 250 | 125 | 330 | 500 | G 3/4 x 280 | 1.06/HSP2 | 27 | 36 | 28 | 6.5 | 7.5 | x | 11.3 |
| 8112380 | **1.06/3A-5** | 350 | 125 | 420 | 500 | G 3/4 x 280 | 1.06/HSP2 | 27 | 36 | 28 | 6.5 | 7.5 | x | 12.2 |
| 8112460 | **1.06/4-5** | 520 | 185 | 600 | 500 | G 1 x 310 | 1.06/HSP3 | 36 | 36 | 28 | 6.5 | 10.0 | - | 19.0 |

## 1.06/B

### UNIVERSAL PULLER 2-arm pattern, rigid legs with leg brake

- Strong drop forged design
- Rigid legs forged from one piece
- Leg brake - prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- By reversing the legs, this tool can be used as an internal or external puller
- Legs available in different lengths for special situations
- Upgradeable with hydraulic spindle (see table)



| Code | No. | $a_1$ | $a_{2\,min}$ | $a_{2\,max}$ | b | | | mm | c | d | e | max. t | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1956337 | **1.06/11-B** | 100 | 50 | 140 | 100 | M 14x1,5 x 140 | | 17 | 22 | 15 | 3.0 | 3.0 | x | 0.9 |
| 1956345 | **1.06/1A1-B** | 140 | 60 | 180 | 100 | M 14x1,5 x 140 | | 17 | 22 | 15 | 3.0 | 3.0 | x | 1.3 |
| 1956353 | **1.06/21-B** | 170 | 80 | 220 | 150 | G 1/2 x 210 | 1.06/HSP1 | 22 | 30 | 24 | 3.5 | 5.0 | x | 2.8 |
| 1956361 | **1.06/2A1-B** | 210 | 90 | 260 | 150 | G 1/2 x 210 | 1.06/HSP1 | 22 | 30 | 24 | 3.5 | 5.0 | x | 3.3 |
| 1956388 | **1.06/31-B** | 250 | 125 | 340 | 200 | G 3/4 x 280 | 1.06/HSP2 | 27 | 36 | 32 | 5.0 | 7.5 | x | 6.7 |
| 1956396 | **1.06/3A1-B** | 340 | 125 | 430 | 200 | G 3/4 x 280 | 1.06/HSP2 | 27 | 36 | 32 | 5.0 | 7.5 | x | 7.5 |
| 1958399 | **1.06/41-B** | 520 | 185 | 610 | 200 | G 1 x 310 | 1.06/HSP3 | 36 | 36 | 32 | 5.0 | 10.0 | - | 14.0 |

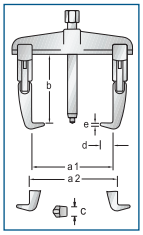


Quantities in packs may vary.

## 1.06/E

### QUICK-RELEASE PULLER 2-arm pattern

- The tried and tested model for the safe and quick removal of pulleys, wheels, ball bearings, etc.
- Strong drop forged pattern
- Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- By reversing the legs, this tool can be used as an internal or external puller
- Exchangeable legs for several clamping reaches available as accessories
- Quick release legs for fast, easy set-up and adjustment
- Upgradeable with hydraulic spindle (see table)

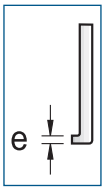


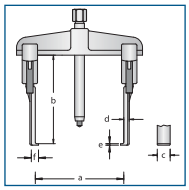
| Code | No. | $a_1$ | $a_{2\,min}$ | $a_{2\,max}$ | b | ⟸ | | ⬢ mm | c | d | e | max. t | ⟾ | ⚖ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1213830 | **1.06/1-E** | 90 | 60 | 140 | 100 | M 14x1,5 x 140 | | 17 | 22 | 12 | 3.0 | 3.0 | x | 1.1 |
| 1215140 | **1.06/1A-E** | 130 | 70 | 180 | 100 | M 14x1,5 x 140 | | 17 | 22 | 12 | 3.0 | 3.0 | x | 1.3 |
| 1216570 | **1.06/2-E** | 160 | 80 | 220 | 150 | G 1/2 x 210 | 1.06/HSP1 | 22 | 30 | 18 | 3.5 | 5.0 | x | 3.0 |
| 1217720 | **1.06/2A-E** | 200 | 90 | 260 | 150 | G 1/2 x 210 | 1.06/HSP1 | 22 | 30 | 18 | 3.5 | 5.0 | x | 3.5 |
| 1218980 | **1.06/3-E** | 250 | 125 | 330 | 200 | G 3/4 x 280 | 1.06/HSP2 | 27 | 36 | 28 | 6.5 | 7.5 | x | 7.1 |
| 1220160 | **1.06/3A-E** | 350 | 125 | 420 | 200 | G 3/4 x 280 | 1.06/HSP2 | 27 | 36 | 28 | 6.5 | 7.5 | x | 8.2 |

## 1.06/S-E

### QUICK-RELEASE PULLER 2-arm pattern, with slim legs

- The forged leg feet are very slim
- Particularly suitable for barely accessible places
- Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- Quick release legs for fast, easy set-up and adjustment




| Code | No. | a | b | ⟸ | ⬢ mm | c | d | e | max. t | ⟾ | ⚖ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2015706 | **1.06/S1-E** | 100 | 100 | M 14x1,5 x 140 | 17 | 27 | 7.5 | 3.7 | 2.0 | x | 1.0 |
| 2015714 | **1.06/S1A-E** | 140 | 100 | M 14x1,5 x 140 | 17 | 27 | 7.5 | 3.7 | 2.5 | x | 1.1 |
| 2015722 | **1.06/S2-E** | 160 | 150 | G 1/2 x 210 | 22 | 40 | 7.0 | 5.0 | 5.0 | x | 2.9 |
| 2015730 | **1.06/S2A-E** | 200 | 150 | G 1/2 x 210 | 22 | 40 | 7.0 | 5.0 | 5.0 | x | 3.2 |


5.10

Remember the safety cover!

431

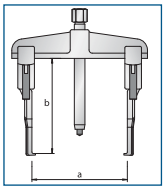
Spindle / Legs

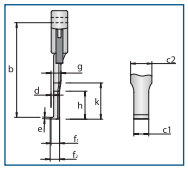
428 – 430


## 1.06/XS-E

### QUICK-RELEASE PULLER 2-arm pattern, with XS legs

- The forged leg feet are very slim
- Extra slim in width and depth
- Particularly suitable for barely accessible places
- Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- Quick release legs for fast, easy set-up and adjustment



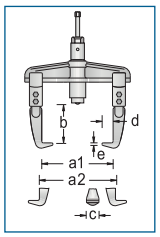

| Code | No. | a | b | ⟸ | ⬢ mm | $c_1$ | $c_2$ | d | e | $f_1$ | $f_2$ | g | h | k | max. t | ⟾ | ⚖ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2018659 | **1.06/XS1-E** | 100 | 100 | M 14x1,5 x 140 | 17 | 16.0 | 25 | 5.0 | 3.7 | 9.6 | 10.5 | 11.0 | 26.0 | 35.0 | 2.0 | x | 1.0 |
| 2018667 | **1.06/XS1A-E** | 140 | 100 | M 14x1,5 x 140 | 17 | 16.0 | 25 | 5.0 | 3.7 | 9.6 | 10.5 | 11.0 | 26.0 | 35.0 | 2.0 | x | 1.1 |
| 2018675 | **1.06/XS2-E** | 160 | 150 | G 1/2 x 210 | 22 | 17.5 | 32 | 5.5 | 3.5 | 11.0 | 11.5 | 13.5 | 25.5 | 38.5 | 3.5 | x | 2.9 |
| 2018683 | **1.06/XS2A-E** | 200 | 150 | G 1/2 x 210 | 22 | 17.5 | 32 | 5.5 | 3.5 | 11.0 | 11.5 | 13.5 | 25.5 | 38.5 | 3.5 | x | 3.2 |

Quantities in packs may vary.

## 1.06/HSP

### UNIVERSAL PULLER hydraulic, 2-arm pattern

- The tried and tested model for the safe and quick removal of pulleys, wheels, ball bearings, etc.
- Strong drop forged pattern
- Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- By reversing the legs, this tool can be used as an internal or external puller
- With the hydraulic spindle, a controlled and safe pulling action is possible at all times

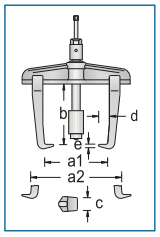


| Code | No. | $a_1$ | $a_2$ | b | | c | d | e | max. t | max. N·m | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8000150 | **1.06/2-HSP1** | 160 | 220 | 75 | 1.06/HSP1 | 30 | 18 | 3.5 | 5.0 | 9 | x | 3.6 |
| 8002870 | **1.06/2A-HSP1** | 200 | 260 | 75 | 1.06/HSP1 | 30 | 18 | 3.5 | 5.0 | 9 | x | 4.0 |
| 8003170 | **1.06/3-HSP2** | 250 | 330 | 125 | 1.06/HSP2 | 36 | 28 | 6.5 | 7.5 | 13 | x | 7.5 |
| 8003920 | **1.06/3A-HSP2** | 350 | 420 | 125 | 1.06/HSP2 | 36 | 28 | 6.5 | 7.5 | 13 | x | 8.8 |
| 8004060 | **1.06/4-HSP3** | 520 | 600 | 90 | 1.06/HSP3 | 36 | 28 | 6.5 | 10.0 | 25 | - | 14.6 |

## 1.06/HSP-B

### UNIVERSAL PULLER hydraulic, 2-arm pattern, rigid legs with leg brake

- Strong drop forged pattern
- Scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- Rigid legs forged from one piece
- Leg brake - prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- By reversing the legs, this tool can be used as an internal or external puller
- With the hydraulic spindle, a controlled and safe pulling action is possible at all times

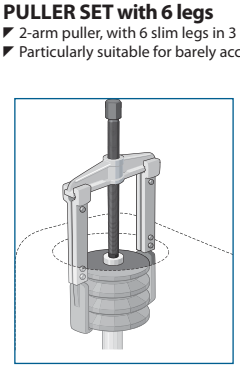


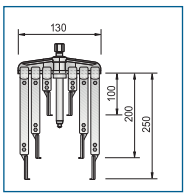
| Code | No. | $a_1$ | $a_2$ | b | | c | d | e | max. t | max. N·m | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1957899 | **1.06/21-B-HSP1** | 170 | 220 | 75 | 1.06/HSP1 | 30 | 24 | 3.5 | 5.0 | 9 | x | 3.3 |
| 1957902 | **1.06/2A1-B-HSP1** | 210 | 260 | 75 | 1.06/HSP1 | 30 | 24 | 3.5 | 5.0 | 9 | x | 3.4 |
| 1957910 | **1.06/31-B-HSP2** | 250 | 340 | 115 | 1.06/HSP2 | 36 | 32 | 5.0 | 7.5 | 13 | x | 7.2 |
| 1957929 | **1.06/3A1-B-HSP2** | 340 | 430 | 115 | 1.06/HSP2 | 36 | 32 | 5.0 | 7.5 | 13 | x | 8.3 |
| 1957937 | **1.06/41-B-HSP3** | 520 | 610 | 80 | 1.06/HSP3 | 36 | 32 | 5.0 | 10.0 | 25 | - | 14.0 |

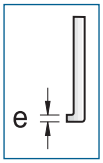
## 1.06/AS

### PULLER SET with 6 legs

- 2-arm puller, with 6 slim legs in 3 lengths
- Particularly suitable for barely accessible places





| Code | No. | a | b | e | | |
|---|---|---|---|---|---|---|
| 8001710 | **1.06/AS** | 130 | 100 / 200 / 250 | 3.7 | x | 3.4 |
| 1675974 | **1.06/AS-2** | 260 | 150 / 220 / 300 | 5.0 | x | 8.1 |

## 1.06/ST

### PULLER SET on display stand

- Consisting of 5 pullers each in different sizes with standard or quick-release pulling legs

1.06/ST

1.06/ST-E

1.06/ST1-B

| Code | No. | | |
|---|---|---|---|
| 8111570 | **1.06/ST** | 1.06/1 1.06/1A 1.06/2 1.06/2A 1.06/3 | 19.0 |
| 2004569 | **1.06/ST1-B** | 1.06/11-B 1.06/1A1-B 1.06/21-B 1.06/2A1-B 1.06/31-B | 17.2 |
| 1322745 | **1.06/ST-E** | 1.06/1-E 1.06/1A-E 1.06/2-E 1.06/2A-E 1.06/3-E | 19.2 |

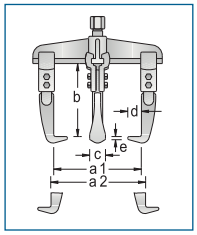


Quantities in packs may vary.

## 1.07

### UNIVERSAL PULLER 3-arm pattern

- Even load distribution over 3 legs ensures secure grip and balanced pull
- By reversing the legs, this tool can be used as an internal or external puller
- Legs available in different lengths for special situations
- Upgradeable with hydraulic spindle (see table)

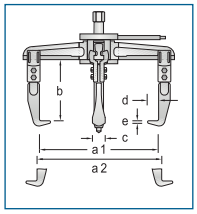


| Code | No. | $a_1$ | $a_{2\,min}$ | $a_{2\,max}$ | b | | | mm | c | d | e | max. t | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8113940 | **1.07/1** | 90 | 70 | 140 | 100 | M 14x1,5 x 140 | | 17 | 22 | 12 | 3.0 | 3.0 | 1.4 |
| 8114080 | **1.07/1A** | 130 | 80 | 180 | 100 | M 14x1,5 x 140 | | 17 | 22 | 12 | 3.0 | 3.0 | 1.6 |
| 8114160 | **1.07/2** | 160 | 100 | 220 | 150 | G 1/2 x 210 | 1.06/HSP1 | 22 | 30 | 18 | 3.5 | 5.0 | 3.6 |
| 8114240 | **1.07/2A** | 200 | 100 | 260 | 150 | G 1/2 x 210 | 1.06/HSP1 | 22 | 30 | 18 | 3.5 | 5.0 | 4.2 |
| 1541757 | **1.07/3** | 250 | 100 | 400 | 200 | G 3/4 x 280 | 1.06/HSP2 | 27 | 36 | 28 | 6.5 | 7.5 | 9.3 |

## 1.07/4

### UNIVERSAL PULLER 3-arm pattern

- Just like our standard model no. 1.06, this puller is designed for all branches of industry, but particularly for the construction of electric motors
- It is also suitable for removing heavy, multistage V-belt pulley wheels, flywheels, gear wheels, etc.
- Pins are used to lock the arms at 120 degrees to each other on the hub
- Upgradeable with hydraulic spindle (see table)
- This puller may also be used with the hydraulic aid 1.50 without requiring any reduction bushing
- Also available with further legs - please request

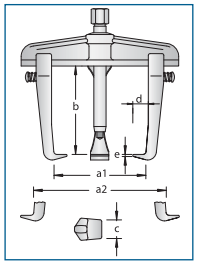


| Code | No. | $a_1$ | $a_2$ | b | | | mm | c | d | e | max. t | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8002440 | **1.07/4** | 450 | 530 | 200 | G 1 x 360 | 1.06/HSP3 | 36 | 36 | 28 | 6.5 | 10 | 18.8 |
| 1958003 | **1.07/4A** | 580 | 640 | 200 | G 1 x 360 | 1.06/HSP3 | 36 | 36 | 28 | 6.5 | 10 | 22.0 |
| 1305085 | **1.07/4-3** | 450 | 530 | 300 | G 1 x 360 | 1.06/HSP3 | 36 | 36 | 28 | 6.5 | 10 | 21.0 |
| 1305271 | **1.07/4-4** | 450 | 530 | 400 | G 1 x 360 | 1.06/HSP3 | 36 | 36 | 28 | 6.5 | 10 | 22.6 |
| 1305425 | **1.07/4-5** | 450 | 530 | 500 | G 1 x 360 | 1.06/HSP3 | 36 | 36 | 28 | 6.5 | 10 | 25.2 |
| 2302799 | **1.07/4A-3** | 580 | 640 | 300 | G 1 x 360 | 1.06/HSP3 | 36 | 36 | 28 | 6.5 | 10 | 24.2 |
| 2302802 | **1.07/4A-4** | 580 | 640 | 400 | G 1 x 360 | 1.06/HSP3 | 36 | 36 | 28 | 6.5 | 10 | 25.8 |
| 2302810 | **1.07/4A-5** | 580 | 640 | 500 | G 1 x 360 | 1.06/HSP3 | 36 | 36 | 28 | 6.5 | 10 | 28.4 |

## 1.07/B

### UNIVERSAL PULLER 3-arm pattern, rigid legs with leg brake

- Even load distribution over 3 legs ensures secure grip and balanced pull
- Rigid legs forged from one piece
- Leg brake - prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- By reversing the legs, this tool can be used as an internal or external puller
- Legs available in different lengths for special situations
- Upgradeable with hydraulic spindle (see table)



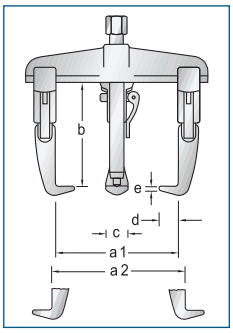
| Code | No. | $a_1$ | $a_{2\,min}$ | $a_{2\,max}$ | b | | | mm | c | d | e | max. t | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1957945 | **1.07/11-B** | 90 | 70 | 140 | 100 | M 14x1,5 x 140 | | 17 | 22 | 15 | 3.0 | 3.0 | 1.2 |
| 1957953 | **1.07/1A1-B** | 130 | 80 | 180 | 100 | M 14x1,5 x 140 | | 17 | 22 | 15 | 3.0 | 3.0 | 1.4 |
| 1957961 | **1.07/21-B** | 160 | 100 | 220 | 150 | G 1/2 x 210 | 1.06/HSP1 | 22 | 30 | 24 | 3.5 | 5.0 | 3.5 |
| 1957988 | **1.07/2A1-B** | 200 | 100 | 260 | 150 | G 1/2 x 210 | 1.06/HSP1 | 22 | 30 | 24 | 3.5 | 5.0 | 3.7 |
| 1957996 | **1.07/31-B** | 250 | 100 | 400 | 200 | G 3/4 x 280 | 1.06/HSP2 | 27 | 36 | 28 | 6.5 | 7.5 | 8.0 |

Quantities in packs may vary.

## 1.07/E

### QUICK-RELEASE PULLER 3-arm pattern

- Quick release legs for fast, easy set-up and adjustment
- By reversing the legs, this tool can be used as an internal or external puller
- Upgradeable with hydraulic spindle (see table)

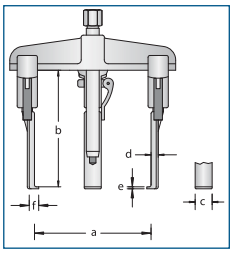


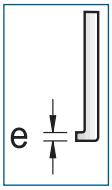
| Code | No. | $a_1$ | $a_{2\,min}$ | $a_{2\,max}$ | b | | | mm | c | d | e | max. t | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1222902 | **1.07/1-E** | 90 | 70 | 140 | 100 | M 14x1,5 x 140 | | 17 | 22 | 12 | 3.0 | 3.0 | 1.4 |
| 1225901 | **1.07/1A-E** | 130 | 80 | 180 | 100 | M 14x1,5 x 140 | | 17 | 22 | 12 | 3.0 | 3.0 | 1.6 |
| 1227335 | **1.07/2-E** | 160 | 100 | 220 | 150 | G 1/2 x 210 | 1.06/HSP1 | 22 | 30 | 18 | 3.5 | 5.0 | 3.9 |
| 1227459 | **1.07/2A-E** | 200 | 100 | 260 | 150 | G 1/2 x 210 | 1.06/HSP1 | 22 | 30 | 18 | 3.5 | 5.0 | 4.0 |
| 1554751 | **1.07/3-E** | 250 | 100 | 400 | 200 | G 3/4 x 280 | 1.06/HSP2 | 27 | 36 | 28 | 6.5 | 7.5 | 9.2 |

## 1.07/S-E

### QUICK-RELEASE PULLER 3-arm pattern, with slim legs

- The forged leg feet are very slim
- Particularly suitable for barely accessible places
- Quick release legs for fast, easy set-up and adjustment



| Code | No. | a | b | | mm | c | d | e | max. t | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2016036 | **1.07/S1-E** | 90 | 100 | M 14x1,5 x 140 | 17 | 27 | 7.5 | 3.7 | 2.5 | 1.3 |
| 2016044 | **1.07/S1A-E** | 130 | 100 | M 14x1,5 x 140 | 17 | 27 | 7.5 | 3.7 | 2.5 | 1.4 |
| 2016052 | **1.07/S2-E** | 160 | 150 | G 1/2 x 210 | 22 | 40 | 7.0 | 5.0 | 5.0 | 3.6 |
| 2016060 | **1.07/S2A-E** | 200 | 150 | G 1/2 x 210 | 22 | 40 | 7.0 | 5.0 | 5.0 | 3.9 |

Spindle / Legs

428 – 430

920 • 923

541

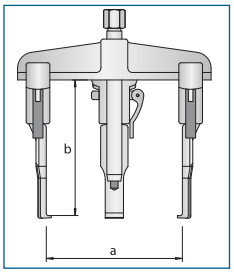


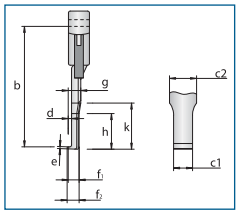

Quantities in packs may vary.

## 1.07/XS-E

### QUICK-RELEASE PULLER 3-arm pattern, with XS legs

- The forged leg feet are very slim
- Extra slim in width and depth
- Particularly suitable for barely accessible places, e.g. gear maintenance
- Quick release legs for fast, easy set-up and adjustment



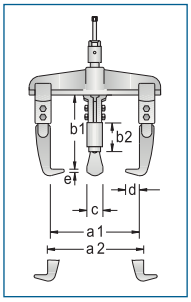




| Code | No. | a | b | | mm | $c_1$ | $c_2$ | d | e | $f_1$ | $f_2$ | g | h | k | max. t | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2018829 | **1.07/XS1-E** | 90 | 100 | M 14x1,5 x 140 | 16.0 | 16.0 | 25 | 5.0 | 3.7 | 9.6 | 10.5 | 11.0 | 26.0 | 35.0 | 3.0 | 1.3 |
| 2018837 | **1.07/XS1A-E** | 130 | 100 | M 14x1,5 x 140 | 16.0 | 16.0 | 25 | 5.0 | 3.7 | 9.6 | 10.5 | 11.0 | 26.0 | 35.0 | 3.0 | 1.4 |
| 2018845 | **1.07/XS2-E** | 160 | 150 | G 1/2 x 210 | 17.5 | 17.5 | 32 | 5.5 | 3.5 | 11.0 | 11.5 | 13.5 | 25.5 | 38.5 | 5.0 | 3.6 |
| 2018853 | **1.07/XS2A-E** | 200 | 150 | G 1/2 x 210 | 17.5 | 17.5 | 32 | 5.5 | 3.5 | 11.0 | 11.5 | 13.5 | 25.5 | 38.5 | 5.0 | 3.9 |

## 1.07/HSP

### UNIVERSAL PULLER hydraulic, 3-arm pattern

- The tried and tested model for the safe and quick removal of pulleys, wheels, ball bearings, etc.
- Drop forged pattern
- By reversing the legs, this tool may be used as an internal or external puller
- With the hydraulic spindle, a controlled and safe pulling action is possible at all times



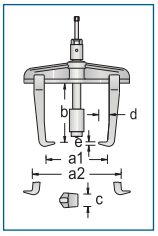

| Code | No. | $a_1$ | $a_2$ | b | | c | d | e | max. t | max. N·m | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8009960 | **1.07/2-HSP1** | 160 | 220 | 75 | 1.06/HSP1 | 30 | 18 | 3.5 | 5.0 | 9 | 4.6 |
| 8010970 | **1.07/2A-HSP1** | 200 | 260 | 75 | 1.06/HSP1 | 30 | 18 | 3.5 | 5.0 | 9 | 4.7 |
| 1554816 | **1.07/3-HSP2** | 250 | 310 | 80 | 1.06/HSP2 | 36 | 28 | 6.5 | 7.5 | 13 | 9.6 |
| 8012400 | **1.07/4-HSP3** | 450 | 530 | 140 | 1.06/HSP3 | 36 | 28 | 6.5 | 10.0 | 25 | 19.4 |
| 1962574 | **1.07/4A-HSP3** | 580 | 640 | 140 | 1.06/HSP3 | 36 | 28 | 6.5 | 10.0 | 25 | 22.4 |
| 2303019 | **1.07/4-3-HSP3** | 450 | 530 | 175 | 1.06/HSP3 | 36 | 28 | 6.5 | 10.0 | 25 | 21.6 |
| 2303027 | **1.07/4-4-HSP3** | 450 | 530 | 275 | 1.06/HSP3 | 36 | 28 | 6.5 | 10.0 | 25 | 23.2 |
| 2303035 | **1.07/4-5-HSP3** | 450 | 530 | 375 | 1.06/HSP3 | 36 | 28 | 6.5 | 10.0 | 25 | 25.8 |
| 2303043 | **1.07/4A-3-HSP3** | 580 | 640 | 175 | 1.06/HSP3 | 36 | 28 | 6.5 | 10.0 | 25 | 24.6 |
| 2303051 | **1.07/4A-4-HSP3** | 580 | 640 | 275 | 1.06/HSP3 | 36 | 28 | 6.5 | 10.0 | 25 | 26.2 |
| 2303078 | **1.07/4A-5-HSP3** | 580 | 640 | 375 | 1.06/HSP3 | 36 | 28 | 6.5 | 10.0 | 25 | 28.8 |

Quantities in packs may vary.

## 1.07/HSP-B

### UNIVERSAL PULLER hydraulic, 3-arm pattern, rigid legs with leg brake

- Even load distribution over 3 legs ensures secure grip and balanced pull
- Rigid legs forged from one piece
- Leg brake - prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- By reversing the legs, this tool can be used as an internal or external puller
- With the hydraulic spindle, a controlled and safe pulling action is possible at all times

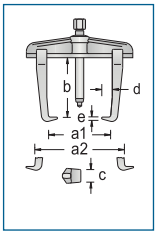



| Code | No. | $a_1$ | $a_{2\,min}$ | $a_{2\,max}$ | b | | c | d | e | max. t | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2546566 | **1.07/21-B-HSP1** | 160 | 100 | 220 | 70 | 1.06/HSP1 | 30 | 24 | 3.5 | 5.0 | 4.1 |
| 2079984 | **1.07/2A1-B-HSP1** | 200 | 100 | 260 | 70 | 1.06/HSP1 | 30 | 24 | 3.5 | 5.0 | 4.2 |
| 2545128 | **1.07/31-B-HSP2** | 250 | 100 | 400 | 120 | 1.06/HSP2 | 36 | 28 | 6.5 | 7.5 | 8.6 |

## 1.07/4-B

### UNIVERSAL PULLER 3-arm pattern, rigid legs with leg brake

- Just like our standard model no. 1.06, this puller is designed for all branches of industry, but particularly for the construction of electric motors
- It is also suitable for removing heavy, multistage V-belt pulley wheels, flywheels, gear wheels, etc.
- Pins are used to lock the arms at 120 degrees to each other on the hub
- Rigid legs forged from one piece
- Leg brake - prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- By reversing the legs, this tool can be used as an internal or external puller
- Upgradeable with hydraulic spindle (see table)
- This puller may also be used with the hydraulic aid 1.50 without requiring any reduction bushing
- Also available with further legs - please request




| Code | No. | $a_1$ | $a_2$ | b | | | mm | c | d | e | max. t | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2546531 | **1.07/41-B** | 450 | 530 | 200 | G 1" x 360 | 1.06/HSP3 | 36 | 36 | 28 | 6.5 | 10 | 18.8 |
| 2546558 | **1.07/4A1-B** | 580 | 640 | 200 | G 1" x 360 | 1.06/HSP3 | 36 | 36 | 28 | 6.5 | 10 | 22.0 |

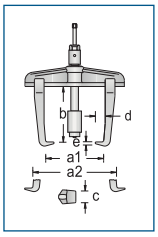


Quantities in packs may vary.

## 1.07/4-HSP-B

### UNIVERSAL PULLER hydraulic, 3-arm pattern, rigid legs with leg brake

- Just like our standard model no. 1.06, this puller is designed for all branches of industry, but particularly for the construction of electric motors
- It is also suitable for removing heavy, multistage V-belt pulley wheels, flywheels, gear wheels, etc.
- Pins are used to lock the arms at 120 degrees to each other on the hub
- Rigid legs forged from one piece
- Leg brake - prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- By reversing the legs, this tool can be used as an internal or external puller
- This puller may also be used with the hydraulic aid 1.50 without requiring any reduction bushing
- Also available with further legs - please request




| Code | No. | $a_1$ | $a_2$ | b | | c | d | e | max. t | max. N·m | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2546574 | **1.07/41-B-HSP3** | 450 | 530 | 75 | 1.06/HSP3 | 36 | 28 | 6.5 | 10 | 25 | 19.9 |
| 2546582 | **1.07/4A1-B-HSP3** | 580 | 640 | 75 | 1.06/HSP3 | 36 | 28 | 6.5 | 10 | 25 | 23.1 |

**www.gedore.com**

**Spindle / Legs** 428 – 430

**920 • 923** 541

**5.10** 431

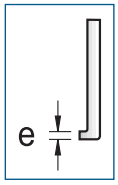
Remember the safety cover!

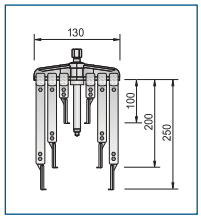
Quantities in packs may vary.

## 1.07/AS

### PULLER SET with 9 legs

- 3-arm puller, with 9 slim legs in 3 lengths
- Particularly suitable for barely accessible places



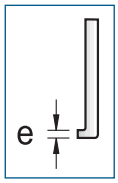



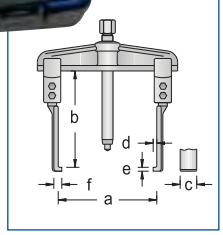

| Code | No. | | | e | |
|---|---|---|---|---|---|
| 8117260 | **1.07/AS** | 130 | 100 / 200 / 250 | 3.7 | 4.8 |
| 1675990 | **1.07/AS-2** | 200 | 150 / 220 / 300 | 5.0 | 11.5 |

## 1.07/K

### PULLER SET with 9 legs

- In plastic case
- Contents: 1 spindle, 1 cross-beam each 2- and 3-arm pattern and 9 slim pulling legs in 3 lengths
- Second spindle in the set 1.07/K safes working time



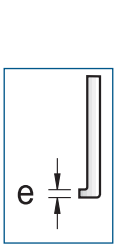



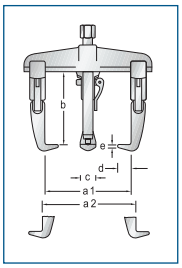

| Code | No. | a | b | | mm | c | d | e | max. t | |
|---|---|---|---|---|---|---|---|---|---|---|
| 8117340 | **1.07/K** | 130 | 100 / 200 / 250 | M 14x1,5 x 140 | 17 | 27 | 7.5 | 3.7 | 2.5 | 5.8 |
| 1676008 | **1.07/K-2** | 200 | 150 / 220 / 300 | G 1/2 x 210 | 22 | 40 | 7.0 | 5.0 | 5.0 | 13.5 |

## 1.07/K-SE

### PULLER SET with 3 legs

- In plastic case
- Contents: 1 spindle, 1 cross-beam each 2- and 3-arm pattern and 3 quick-release pulling legs
- Second spindle in the set 1.07/K-1-SE safes working time




| Code | No. | $a_1$ | b | | mm | c | d | e | |
|---|---|---|---|---|---|---|---|---|---|
| 1438484 | **1.07/K-1-SE** | 90 | 100 | M 14x1,5 x 140 | 17 | 27 | 7.5 | 3.7 | 2.2 |
| 1645455 | **1.07/K-2-SE** | 160 | 150 | G 1/2 x 210 | 22 | 40 | 7.0 | 5.0 | 5.5 |

1500 ES-1.07

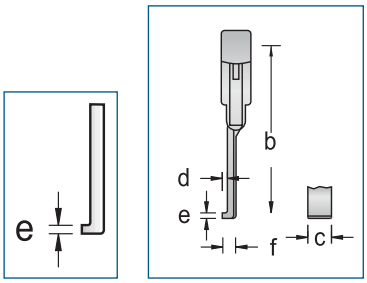
104

Quantities in packs may vary.

## 1.07/K-SE S

### PULLER SET with 6 legs

- In plastic case
- The forged leg feet are very slim particularly suitable for barely accessible places
- Quick release legs for fast, easy set-up and adjustment
- Contents: 2 spindles, 1 cross-beam each 2- and 3-arm pattern, and 6 slim quick-release pulling legs in 2 lengths
- Clamping reach 100 mm = thickness of hooked foot at tip (e) 3.7 mm
- Clamping reach 200 mm = thickness of hooked foot at tip (e) 2.0 mm

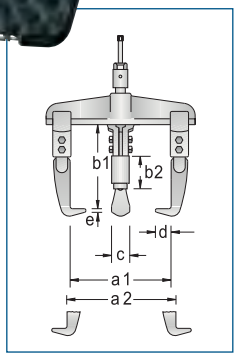



| Code | No. | a | b | | mm | c | d | |
|---|---|---|---|---|---|---|---|---|
| 1745158 | **1.07/K-1-SE 200 S** | 90 | 100 / 200 | M 14x1,5 x 140 | 17 | 27 | 7.5 | 4.2 |

## 1.07/K-HSP

### PULLER SET with 3 legs

- For internal and external use, for hard, everyday use, for industrial use, or on cars and trucks
- In plastic case
- Contents: 1 hydraulic spindle, 1 cross-beam each 2- and 3-arm pattern and 3 quick-release pulling legs




| Code | No. | $a_1$ | $a_2$ | b | | mm | c | d | e | max. t | max. N·m | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1438492 | **1.07/K-2-E-HSP1** | 160 | 220 | 75 | 1.06/HSP1 | 32 | 30 | 18 | 3.5 | 5.0 | 9 | 7.3 |

## 1.07/K-B

### PULLER SET with 3 legs, with leg brake

- In plastic case
- Contents: 2 spindles, 1 cross-beam each 2- and 3-arm pattern and 3 rigid legs with leg brake
- Prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button
- By reversing the legs, this tool can be used as an internal or external puller
- Extra spindle supplied for convenience

| Code | No. | a | b | | mm | c | d | e |
|---|---|---|---|---|---|---|---|---|
| 2224097 | **1.07/K-1A-B** | 140 | 100 | M 14x1,5 x 140 | 17 | 22 | 15 | 3.0 |

5.10

**Remember the safety cover!**

431

Quantities in packs may vary.

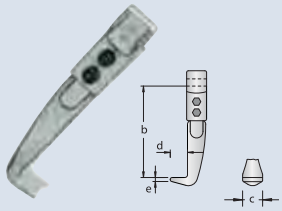
## 106/XX-YY-ZZ

**xx** = Leg size (A-C)
**yy** = Leg length (in mm)
**zz** = Leg type

## Leg type:

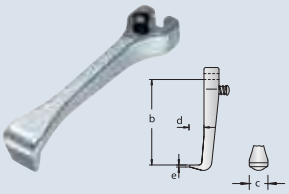
| | |
|---|---|
| for 3-arm puller | 1.06/1 1.06/1A |
| for 2-arm puller | 1.07/1 1.07/1A |
| Mechanical replacement spindle | 1.1406140 |
| Hydraulic replacement spindle | |

A



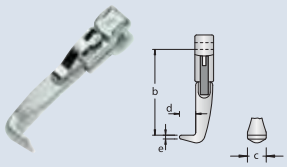
**-N = The proven leg**
1 leg incl. clamping parts with tried-and-tested screw connection in various lengths

| Code | No. | b | c | d | e | |
|---|---|---|---|---|---|---|
| 1120514 | **106/A-100-N** | 100 | 22 | 12 | 3.0 | 600 |
| 1120522 | **106/A-200-N** | 200 | 22 | 12 | 3.0 | |



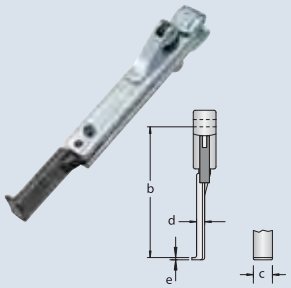
**-B = The sturdy leg**
1 leg with leg brake, secured against unintentional slipping, movement of the hook on the cross-beam at the touch of a button, forged from one piece

| Code | No. | b | c | d | e | |
|---|---|---|---|---|---|---|
| 1970534 | **106/A-100-B** | 100 | 22 | 15 | 3.0 | |



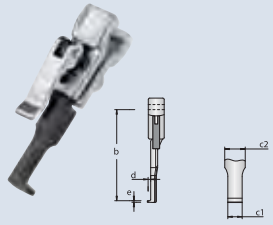
**-E = The quick use leg**
1 leg incl. clamping parts with quick-release adjustment, for fast and uncomplicated setting and adjustment of the legs on the cross-beam

| Code | No. | b | c | d | e | |
|---|---|---|---|---|---|---|
| 1178199 | **106/A-100-E** | 100 | 22 | 12 | 3.0 | 280 |



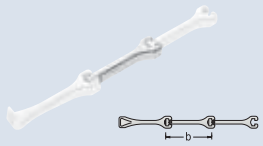
**-SE = The slender leg**
1 slim hook incl. clamping parts with quick-release adjustment, for fast and uncomplicated setting and adjustment of the legs on the cross-beam

| Code | No. | b | c | d | e | |
|---|---|---|---|---|---|---|
| 1438514 | **106/A-100-SE** | 100 | 27 | 7.5 | 3.7 | 600 |
| 2015757 | **106/A-200-SE** | 200 | 27 | 7.5 | 3.7 | |
| 2015773 | **106/A-250-SE** | 250 | 27 | 7.5 | 3.7 | |
| 2015781 | **106/A-100-SSE** | 100 | 27 | 7.5 | 2.0 | |
| 2015811 | **106/A-200-SSE** | 200 | 27 | 7.5 | 2.0 | |
| 2015846 | **106/A-250-SSE** | 250 | 27 | 7.5 | 2.0 | |



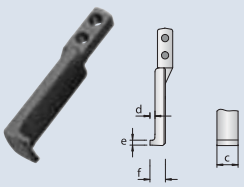
**-XSE = The sophisticated leg**
As "The slender one" type but more slender in both width and depth for particularly cramped spaces and those places which can hardly be accessed e.g. in respect of gearbox maintenance

| Code | No. | $c_1$ | $c_2$ | d | e | |
|---|---|---|---|---|---|---|
| 2018748 | **106/A-100-XSE** | 16.0 | 25 | 5.0 | 3.7 | |
| 2149222 | **106/A-200-XSE** | 16.0 | 25 | 5.0 | 3.7 | |
| 2150255 | **106/A-250-XSE** | 16.0 | 25 | 5.0 | 3.7 | |



**-V = The flexi leg**
The extension is inserted between cross-beam and leg and there is no limit on extending the clamping reach, forged from one piece.

| Code | No. | b | |
|---|---|---|---|
| 1149016 | **106/A-100-V** | 100 | 0.4 |



**The slim fit leg**
1 slim leg for use in confined spaces
* Spare leg for "The slim one"
** Spare leg for "The filigree one"

| Code | No. | c | d | e | f | |
|---|---|---|---|---|---|---|
| 1076957 | **106/S101*** | 27 | 7.5 | 3.7 | 14.5 | 450 |
| 1495607 | **106/S101-S*** | 27 | 7.5 | 2.0 | 14.5 | 110 |

| Code | No. | $c_1$ | $c_2$ | d | e | |
|---|---|---|---|---|---|---|
| 2013681 | **106/XS101**** | 16.0 | 25 | 5.0 | 3.7 | |



Quantities in packs may vary.

## B

1.06/2 1.06/2A

1.07/2 1.07/2A

1.2106210

1.06/HSP1

| Code | No. | b | c | d | e | |
|---|---|---|---|---|---|---|
| 1120530 | **106/B-150-N** | 150 | 30 | 18 | 3.5 | 720 |
| 1123947 | **106/B-300-N** | 300 | 30 | 18 | 3.5 | 1250 |

| Code | No. | b | c | d | e | |
|---|---|---|---|---|---|---|
| 1970542 | **106/B-150-B** | 150 | 30 | 24 | 3.5 | 660 |

| Code | No. | b | c | d | e | |
|---|---|---|---|---|---|---|
| 1178253 | **106/B-150-E** | 150 | 22 | 12 | 3.0 | 300 |

| Code | No. | b | c | d | e | |
|---|---|---|---|---|---|---|
| 1671499 | **106/B-150-SE** | 150 | 40 | 7.0 | 5.0 | 720 |
| 2015862 | **106/B-220-SE** | 220 | 40 | 7.0 | 5.0 | |
| 2015870 | **106/B-300-SE** | 300 | 40 | 7.0 | 5.0 | |

| Code | No. | $c_1$ | $c_2$ | d | e | |
|---|---|---|---|---|---|---|
| 2018756 | **106/B-150-XSE** | 17.5 | 32 | 5.5 | 3.5 | |
| 2149230 | **106/B-220-XSE** | 17.5 | 32 | 5.5 | 3.5 | |
| 2150263 | **106/B-300-XSE** | 17.5 | 32 | 5.5 | 3.5 | |

| Code | No. | b | |
|---|---|---|---|
| 1149024 | **106/B-150-V** | 150 | 0.8 |

| Code | No. | c | d | e | f | |
|---|---|---|---|---|---|---|
| 1671898 | **108/S201*** | 40 | 7.0 | 5.0 | 15.5 | |

| Code | No. | $c_1$ | $c_2$ | d | e | |
|---|---|---|---|---|---|---|
| 2013711 | **108/XS201**** | 17.5 | 32 | 5.5 | 3.5 | |

## C

1.06/3 1.06/3A 1.06/4

1.07/3 1.07/4 1.07/4A

1.2606280 1.3306310

1.06/HSP2 1.06/HSP3

| Code | No. | b | c | d | e | |
|---|---|---|---|---|---|---|
| 1120549 | **106/C-200-N** | 200 | 36 | 28 | 6.5 | 1663 |
| 1120557 | **106/C-300-N** | 300 | 36 | 28 | 6.5 | |
| 1120565 | **106/C-400-N** | 400 | 36 | 28 | 6.5 | |
| 1120573 | **106/C-500-N** | 500 | 36 | 28 | 6.5 | |

| Code | No. | b | c | d | e | |
|---|---|---|---|---|---|---|
| 1970550 | **106/C-200-B** | 200 | 36 | 32 | 5.0 | |

| Code | No. | b | c | d | e | |
|---|---|---|---|---|---|---|
| 1178350 | **106/C-200-E** | 200 | 36 | 28 | 6.5 | 350 |

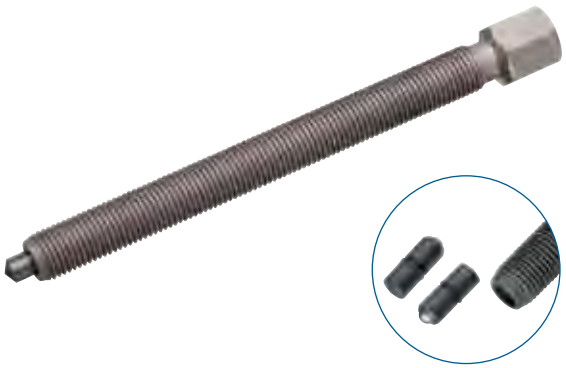
| Code | No. | b | |
|---|---|---|---|
| 1149032 | **106/C-200-V** | 200 | 1.3 |

Quantities in packs may vary.

# SPINDLE SUMMARY

## SPINDLE SUMMARY

◤ KS = ball tip, exchangeable



| Code | No. | Size/Drive | Threads | usable length |
|---|---|---|---|---|
| 1084739 | **129.106** | 14 | M 10x1,5 | 160 |
| 1084445 | **1.1206110** | 14 | M 12x1,5 | 110 |
| 1084747 | **129.206** | 14 | M 12x1,75 | 195 |
| 1084453 | **1.1406050** | 17 | M 14x1,5 | 50 |
| 1084461 | **1.1406125** | 17 | M 14x1,5 | 125 |
| 1084488 | **1.1406140** | 17 | M 14x1,5 | 140 |
| 1546821 | **1.1406140KS** | 17 | M 14x1,5 | 140 |
| 1084798 | **144.15006** | 17 | M 14x1,5 | 150 |
| 1084518 | **1.1406155** | 17 | M 14x1,5 | 155 |
| 1576224 | **1.1406200** | 17 | M 14x1,5 | 200 |
| 1084755 | **129.306** | 17 | M 14x2,0 | 210 |
| 1084526 | **1.1806080** | 19 | M 18x1,5 | 80 |
| 1084542 | **1.1806130** | 19 | M 18x1,5 | 130 |
| 1084550 | **1.1806170** | 19 | M 18x1,5 | 170 |
| 1084569 | **1.1806200** | 19 | M 18x1,5 | 200 |
| 1084763 | **129.406** | 19 | M 18x2,5 | 230 |
| 1084577 | **1.2106110** | 22 | G 1/2" | 110 |
| 1084585 | **1.2106160** | 22 | G 1/2" | 160 |
| 1084623 | **1.2106175** | 22 | G 1/2" | 175 |
| 1084593 | **1.2106210** | 22 | G 1/2" | 210 |
| 1546872 | **1.2106210KS** | 22 | G 1/2" | 210 |
| 1084631 | **1.2106250** | 22 | G 1/2" | 250 |
| 1084658 | **1.2106350** | 22 | G 1/2" | 350 |
| 1806564 | **1.2106350KS** | 22 | G 1/2" | 350 |
| 1084771 | **129.506** | 22 | M 20x2,5 | 235 |
| 1084666 | **1.2606180** | 27 | G 3/4" | 200 |
| 1084674 | **1.2606280** | 27 | G 3/4" | 280 |
| 1546910 | **1.2606280KS** | 27 | G 3/4" | 280 |
| 1084690 | **1.3306310** | 36 | G 1" | 310 |
| 1084704 | **1.3306360** | 36 | G 1" | 360 |
| 1084712 | **1.3306500** | 36 | G 1" | 500 |
| 1084720 | **1.4206270** | 41 | G 1.1/4" | 270 |

## 1.06/HSP

### HYDRAULIC PRESSURE SPINDLE

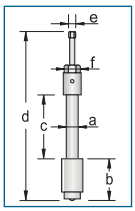
◤ For controlled and safe pulling work
◤ Set up for a pressure of 10 t, 12 t or 15 t

**Preparation for use:**

◤ 1. Before using, check whether the pressure spindle is screwed far enough out of the cap, so that the pressure pad is in the initial position in the hydraulic cylinder.
◤ 2. Unscrew the cap from the spindle body. For this purpose, first slacken off the grub screw.
◤ 3. Screw the spindle body from beneath into the cross piece of the puller until the body protrudes approx. 60 mm from the cross piece.
◤ 4. Screw the cap onto the spindle body until the stop, and then fix it in position by turning in the grub screw.

**Use and operation: e.g. HSP3**

◤ 5. Place the puller into position and pre-tension the spindle body using a size 41 mm wrench.
◤ 6. Screw the pressure spindle size 17 mm into the cap. The hydraulic effect will come into use. The stroke of the pressure pad in the hydraulic cylinder is max. 12 mm. The workpiece that has been loosened by the hydraulic force may be pulled off completely by turning the spindle body with the cap size 41 mm.
◤ 7. Following its use, the pressure spindle (size 17 mm) is turned back into its initial position and the pressure pad pushed into the hydraulic cylinder.



| Code | No. | a | b | c | d | e | f | Stroke | max. t | max. N·m | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8116100 | **1.06/HSP1** | 1/2" | 80 | 135 | 350 | 12 | 32 | 12 | 10 | 17 | 1.1 |
| 8116290 | **1.06/HSP2** | 3/4" | 80 | 205 | 420 | 12 | 36 | 12 | 12 | 19 | 1.8 |
| 8116370 | **1.06/HSP3** | 1" | 125 | 165 | 465 | 17 | 41 | 12 | 15 | 33 | 3.3 |

## 1.55

### HYDRAULIC PRESS

◤ This piece of auxiliary equipment considerably increases the capability of the standard pressure spindle
◤ Operation: With pressure released, the press is placed between the pressure spindle and the end of the shaft. The pressure spindle is then tightened firmly. Care must be taken that the centreline of the shaft, the hydraulic press, and the pressure spindle are exactly in alignment. Then the hydraulic spindle is screwed inwards. Important note: Release the hydraulic press after use

| Code | No. | Stroke height | Installation height | max. t | |
|---|---|---|---|---|---|
| 8024090 | **1.55/1** | 10 | 75 | 8 | 1.0 |
| 8024170 | **1.55/2** | 15 | 90 | 15 | 1.8 |

## Spindles - Mechanical spindle, hydraulic spindle or hydraulic press?

◤ The GEDORE puller mechanical spindles prov ide plenty of benefits: made of hardened and tempered steel, rolled fine thread and thermo-chemically treated - hence they are especially both wear and corrosion resistant.
◤ Particularly with high forces, using a hydraulic spindle can be both time and effort-saving. The hydraulic spindle principle is both straightforward and ingenious at the same time. The effect of screwing in the clamping bolt is to compress the grease inside the hydraulic piston - the extending piston acts on the part to be extracted with a force many times greater than that manually applied at the top. This controlled operation provides for working safely with the hydraulic spindle and is recommended, in particular, for high levels of force.
◤ The hydraulic press represents an alternative to the hydraulic spindle. It is attached between the mechanical spindle and shaft and through hydraulic force supports the spindle.
◤ As the puller cannot be rotated during extraction, pulling with the assistance of hydraulic aids saves both on time and the effort needed.

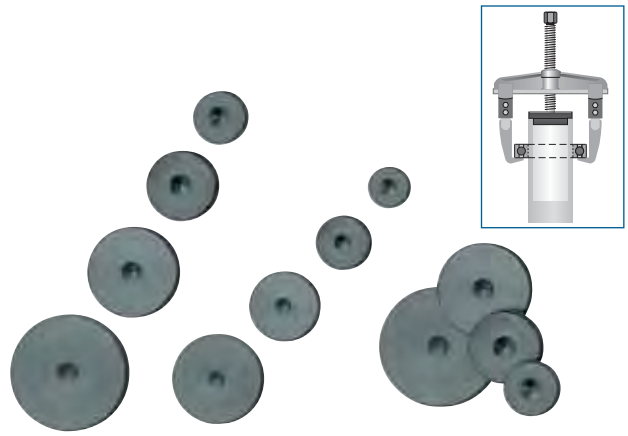
Quantities in packs may vary.

## SPINDLE PRESSURE PADS

### 1.80

**SPINDLE PRESSURE PADS for axle bores (hollow shafts)**

- For the removal of bearings and gear wheels that are mounted on hollow shafts or in housings
- The spindle pressure pad serves as a counter-axis to the puller, where the spindle now transfers the force to the pressure pad



| Code | No. | Plate Ø | Holder Ø | |
|---|---|---|---|---|
| 1120697 | **1.80/1** | 25 28 32 35 41<br>44 48 50 54<br>60 64 | 19 22 25 28<br>32 35 38 41<br>44 48 50 | 2.3 |
| 1120700 | **1.80/2** | 67 70 73<br>78 83 90 | 54 57 60<br>64 70 76 | 2.4 |
| 1120719 | **1.80/3** | 41 44 48 50 54<br>60 64 67 70<br>73 78 83 90 | 32 35 38 41 44<br>48 50 54 57 60<br>64 70 76 | 4.3 |

## BEARING ASSEMBLY

### 1.85/1

**PROFESSIONAL PLASTIC BEARING INSTALLATION SET**

- The impact-resistant plastic is handily light, but just as robust as the metal variants
- Using this bearing installation set more than 200 types of bearings may be re-installed effortlessly and without damage

**Set comprises:**

- 33 impact rings
- 3 aluminium impact sleeves,10-50 mm for external Ø 26-110 mm
- 1 recoil-free bodywork hammer with nylon heads
- In a strong plastic case, dimensions 450 x 360 x 140 mm

| Code | No. | |
|---|---|---|
| 1120778 | **1.85/1** | 5.2 |

## SAFETY COVER

### 5.10

**SAFETY COVER SIZE 1**

- At pulling forces of 18 t, these PVC safety covers provide maximum active-safety protection from suddenly detaching ball bearings, driving pinions or small parts. The safety covers are extremely flexible, making them suitable for all situations.
- Dimensions 510 x 915 mm
- Double-ply welded = double safety (total thickness at 0.5 mm = 1.0 mm)
- Tear strength: longitudinal 23 N/mm² - lateral 21 N/mm²
- Two straps for variable adjustment
- Press stud fasteners for added safety - no flapping ends
- UV resistant
- Temperature resistant at -25 °C to +50 °C
- Storage in the supplied carry bag guarantees long service life

| Code | No. | |
|---|---|---|
| 1868195 | **5.10** | 1.5 |

### 136 K

**CHAIN GRIP WRENCH**

- Particularly suited for clamping geometrically problematical cross-sections
- With No. 136 K-105 the legs of various pullers - following locking - can be spanned with the chain at the component to be extracted and tightened. This stops the legs bending outwards and slipping. Pulling is still possible even if the legs have a very restricted contact surface

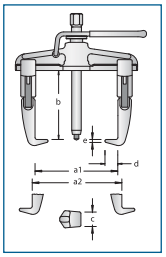
| Code | No. | |mm| | |
|---|---|---|---|
| 2307227 | **136 K-105** | 1050 | 1,5 |

Quantities in packs may vary.

## 1.08

### UNIVERSAL PULLER 2-arm pattern, with fast spindle adjustment

- Twice as fast and twice as simple
- With the fast spindle adjustment feature, the spindle can be set the desired range in a moment. When the clamping yoke is released, the 4-part internal thread closes, and takes the full working pressure



| Code | No. | $a_1$ | $a_{2\,min}$ | $a_{2\,max}$ | b | | mm | c | d | e | max. t | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8019090 | **1.08/1A** | 130 | 80 | 180 | 100 | M 14x1,5 x 140 | 17 | 22 | 12 | 3.0 | 3.0 | 1.5 |
| 8000070 | **1.08/2A** | 200 | 110 | 260 | 150 | G 1/2 x 210 | 22 | 30 | 18 | 3.5 | 5.0 | 4.1 |
| 8018950 | **1.08/3A** | 350 | 130 | 420 | 200 | G 3/4 x 280 | 27 | 36 | 28 | 6.5 | 7.5 | 10.2 |

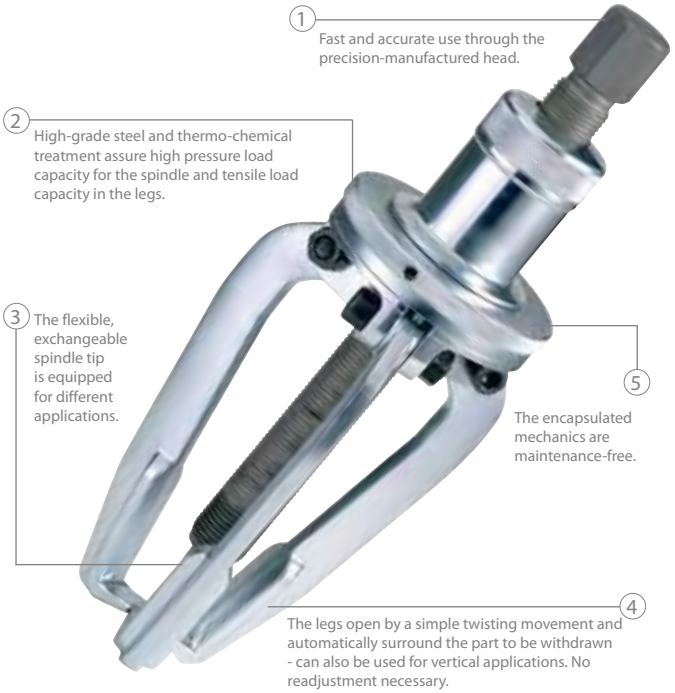
## 3-ARM EXTERNAL PULLER TWIST + PULL

# 1.09 PULLER TWIST & PULL

Easy, quick and safe

### Working principle

**Advantages:**
No setting-up or readjusting of the legs
Maintenance-free due to encapsulated mechanics

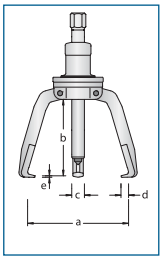


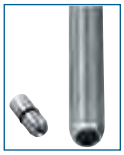
1. Fast and accurate use through the precision-manufactured head.
2. High-grade steel and thermo-chemical treatment assure high pressure load capacity for the spindle and tensile load capacity in the legs.
3. The flexible, exchangeable spindle tip is equipped for different applications.
4. The legs open by a simple twisting movement and automatically surround the part to be withdrawn - can also be used for vertical applications. No readjustment necessary.
5. The encapsulated mechanics are maintenance-free.

## 1.09

### PULLER TWIST + PULL 3-arm pattern, with rotating adjustment

- The precise manufactured head allows fast and exact use
- The legs open by simple rotation and enclose automatically the part to be removed
- No more time-consuming set-up and readjusting of the legs
- High-quality steel and thermo-chemical treatment guarantee highest toughness of the spindle and the legs
- Ball or tip can easily be exchanged
- Patent applied





| Code | No. | $a_{min}$ | $a_{max}$ | b | | mm | c | d | e | max. t | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1748173 | **1.09/1** | 30 | 150 | 130 | G 1/2 x 250 | 22 | 17 | 12 | 3.0 | 6.5 | 2.5 |
| 1748181 | **1.09/2** | 80 | 250 | 250 | G 1/2 x 350 | 22 | 24 | 12 | 3.0 | 6.5 | 4.2 |



Quantities in packs may vary.

# 2-/3-ARM FAN / BATTERY-TERMINAL PULLERS

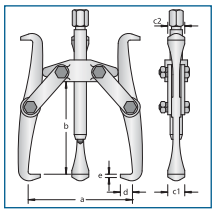
## 1.10

### PULLER 2-arm pattern

- The reliable, heavy-duty model for the removal of pulleys, wheels, ball bearings, etc.
- The double leg ends, wide or narrow, grip automatically
- The wide leg ends of the puller 1.10/2, /3, /4 and /5 possess 8 mm slots, so that pulleys or gears may also be pulled off using 8 mm bolts

1.10/1

1.10/2-5



| Code | No. | $a_{max}$ | b | | mm | $c_1$ | $c_2$ | d | e | max. t | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8002600 | **1.10/1** | 90 | 80 | M 14x1,5 x 125 | 17 | 17 | 10 | 7 | 2 | 2.0 | 0.7 |
| 8002790 | **1.10/2** | 160 | 130 | M 18x1,5 x 170 | 19 | 24 | 20 | 13 | 3 | 5.0 | 2.0 |
| 1731874 | **1.10/3** | 220 | 170 | M 18x1,5 x 170 | 19 | 24 | 20 | 13 | 3 | 5.0 | 2.3 |
| 1731882 | **1.10/4** | 320 | 260 | G 1/2 x 350 | 22 | 27 | 32 | 27 | 3 | 8.0 | 5.1 |
| 1731890 | **1.10/5** | 400 | 320 | G 1/2 x 350 | 22 | 27 | 32 | 27 | 3 | 8.0 | 5.8 |

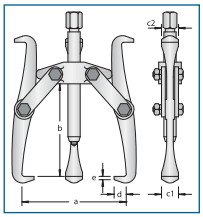
## 1.11

### PULLER 3-arm pattern

- The reliable, heavy-duty model for the removal of pulleys, wheels, ball bearings, etc.
- The double leg ends, wide or narrow, grip automatically
- The wide leg ends of the puller 1.11/2, /3, /4 and /5 possess 8 mm slots, so that pulleys or gears may also be pulled off using 8 mm bolts

1.11/1

1.11/2-5



| Code | No. | $a_{max}$ | b | | mm | $c_1$ | $c_2$ | d | e | max. t | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8002950 | **1.11/1** | 90 | 80 | M 14x1,5 x 125 | 17 | 17 | 10 | 7 | 2 | 3.0 | 0.9 |
| 8003090 | **1.11/2** | 160 | 130 | M 18x1,5 x 170 | 19 | 24 | 20 | 13 | 3 | 7.5 | 2.6 |
| 1731904 | **1.11/3** | 220 | 170 | M 18x1,5 x 170 | 19 | 24 | 20 | 13 | 3 | 7.5 | 3.2 |
| 1731912 | **1.11/4** | 320 | 260 | G 1/2 x 350 | 22 | 27 | 32 | 27 | 3 | 12.0 | 5.8 |
| 1731920 | **1.11/5** | 400 | 320 | G 1/2 x 350 | 22 | 27 | 32 | 27 | 3 | 12.0 | 8.0 |

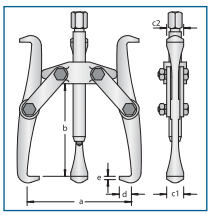
## 110

### PULLING LEG

- Double ended with wide or narrow grips
- Complete with clips and screws

110/1

110/2-5



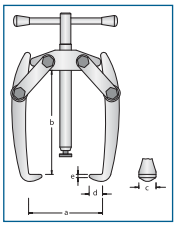
| Code | No. | | b | $c_1$ | $c_2$ | d | e | |
|---|---|---|---|---|---|---|---|---|
| 2303086 | **110/1-080** | 1.10/1 + 1.11/1 | 80 | 17 | 10 | 7 | 2 | 0.2 |
| 2303094 | **110/2-130** | 1.10/2 + 1.11/2 | 130 | 24 | 20 | 13 | 3 | 0.6 |
| 2303108 | **110/3-170** | 1.10/3 + 1.11/3 | 170 | 24 | 20 | 13 | 3 | 0.8 |
| 2303116 | **110/4-260** | 1.10/4 + 1.11/4 | 260 | 27 | 32 | 27 | 3 | 1.7 |
| 2303124 | **110/5-320** | 1.10/5 + 1.11/5 | 320 | 27 | 32 | 27 | 3 | 1.8 |

Quantities in packs may vary.

## 1.12

### BATTERY-TERMINAL PULLER 2-arm pattern

- Ideal for removing small parts such as battery terminals, pulleys, wheels, ball bearings, etc.
- The legs grip automatically

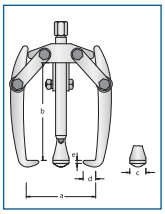


| Code | No. | $a_{max}$ | b | | c | d | e | max. t | |
|---|---|---|---|---|---|---|---|---|---|
| 8003840 | **1.12/02** | 60 | 40 | M 10x1,5 x 60 | 10 | 5 | 2 | 0.5 | 160 |
| 8003760 | **1.12/01** | 60 | 60 | M 10x1,5 x 80 | 10 | 5 | 2 | 0.5 | 180 |
| 1628402 | **1.12/00** | 70 | 80 | M 10x1,5 x 100 | 14 | 8 | 2 | 0.5 | 300 |

## 1.12

### PULLER 2-arm pattern

- Handy robust model for the removal of pulleys, wheels, ball bearings, etc.
- Inexpensive economy model
- The legs grip automatically

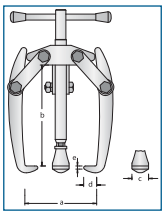


| Code | No. | $a_{max}$ | b | | mm | c | d | e | max. t | |
|---|---|---|---|---|---|---|---|---|---|---|
| 8003250 | **1.12/0** | 70 | 80 | M 12x1,5 x 110 | 14 | 14 | 8 | 2 | 1.0 | 0.4 |
| 8003330 | **1.12/1** | 90 | 120 | M 14x1,5 x 155 | 17 | 18 | 11 | 2 | 2.0 | 0.8 |
| 8003410 | **1.12/2** | 130 | 160 | M 18x1,5 x 200 | 19 | 25 | 14 | 3 | 5.0 | 1.9 |
| 8003680 | **1.12/3** | 180 | 200 | G 1/2 x 250 | 22 | 32 | 20 | 4 | 8.0 | 3.7 |

## 1.13

### BATTERY-TERMINAL PULLER 3-arm pattern

- Ideal for removing small parts such as battery terminals, pulleys, wheels, ball bearings, etc.
- The legs grip automatically

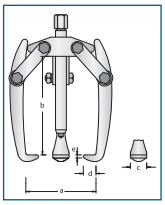


| Code | No. | $a_{max}$ | b | | c | d | e | max. t | |
|---|---|---|---|---|---|---|---|---|---|
| 8004650 | **1.13/02** | 60 | 40 | M 10x1,5 x 60 | 10 | 5 | 2 | 0.75 | 0.2 |
| 8004570 | **1.13/01** | 60 | 60 | M 10x1,5 x 80 | 10 | 5 | 2 | 0.75 | 0.2 |
| 1628410 | **1.13/00** | 70 | 80 | M 10x1,5 x 100 | 14 | 8 | 2 | 1.0 | 0.4 |

## 1.13

### PULLER 3-arm pattern

- Handy robust model for the removal of pulleys, wheels, ball bearings, etc.
- Inexpensive economy model
- The legs grip automatically



| Code | No. | $a_{max}$ | b | | mm | c | d | e | max. t | |
|---|---|---|---|---|---|---|---|---|---|---|
| 8004140 | **1.13/0** | 70 | 80 | M 12x1,5 x 110 | 14 | 14 | 8 | 2 | 2.0 | 0.5 |
| 8004220 | **1.13/1** | 90 | 120 | M 14x1,5 x 155 | 17 | 18 | 11 | 2 | 3.0 | 1.5 |
| 8004300 | **1.13/2** | 130 | 160 | M 18x1,5 x 200 | 19 | 25 | 14 | 3 | 7.5 | 2.5 |
| 8004490 | **1.13/3** | 180 | 200 | G 1/2 x 250 | 22 | 32 | 20 | 4 | 12.0 | 5.3 |

## 112

### PULLING LEG

- Complete with clips and screws

| Code | No. | | b | c | d | e | |
|---|---|---|---|---|---|---|---|
| 2303132 | **112/02-040** | 1.12/02 + 1.13/02 | 40 | 10 | 5 | 2 | 0.1 |
| 2303140 | **112/01-060** | 1.12/01 + 1.13/01 | 60 | 10 | 5 | 2 | 0.1 |
| 2303159 | **112/00-080** | 1.12/00 + 1.13/00 | 80 | 14 | 8 | 2 | 0.1 |

## 112

### PULLING LEG

- Complete with clips and screws

| Code | No. | | b | c | d | e | |
|---|---|---|---|---|---|---|---|
| 2303167 | **112/0-080** | 1.12/0 + 1.13/0 | 80 | 14 | 8 | 2 | 0.1 |
| 2303175 | **112/1-120** | 1.12/1 + 1.13/1 | 120 | 18 | 11 | 2 | 0.2 |
| 2303183 | **112/2-160** | 1.12/2 + 1.13/2 | 160 | 25 | 14 | 3 | 0.6 |
| 2303191 | **112/3-200** | 1.12/3 + 1.13/3 | 200 | 32 | 20 | 4 | 1.1 |

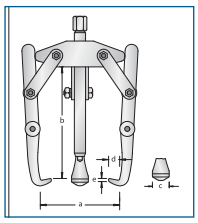


Quantities in packs may vary.

## 1.14

### PULLER 2-arm pattern

- The reliable, extra-strong model for the removal of pulleys, wheels, ball bearings, etc.
- With technical and economical benefits due to the variable clamping reach and automatic grip of the legs
- Especially suited to removing V-belt pulley wheels and flywheels mounted on longer shafts
- Upgradeable with hydraulic spindle (see table)

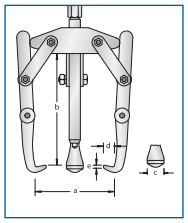


| Code | No. | $a_{max}$ | b | | | mm | c | d | e | max. t | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8004810 | **1.14/0** | 90 | 100 | M 12x1,5 x 110 | | 14 | 14 | 9 | 2.0 | 1.0 | 0.4 |
| 8005030 | **1.14/1** | 130 | 140 | M 14x1,5 x 140 | | 17 | 18 | 11 | 2.0 | 2.0 | 0.9 |
| 8005380 | **1.14/2** | 200 | 210 | M 18x1,5 x 200 | | 19 | 25 | 16 | 3.0 | 5.0 | 2.2 |
| 8005460 | **1.14/3** | 250 | 260 | G 1/2 x 250 | 1.06/HSP1 | 22 | 32 | 18 | 3.5 | 8.0 | 4.4 |
| 8005540 | **1.14/4** | 280 | 390 | G 1/2 x 250 | 1.06/HSP1 | 22 | 32 | 20 | 3.5 | 8.0 | 5.1 |
| 8005620 | **1.14/5** | 420 | 480 | G 1/2 x 350 | 1.06/HSP1 | 22 | 32 | 20 | 3.5 | 8.0 | 6.0 |

## 1.15

### PULLER 3-arm pattern

- The reliable, extra-strong model for the removal of pulleys, wheels, ball bearings, etc.
- With technical and economical benefits due to the variable clamping reach and automatic grip of the legs
- Especially suited to removing V-belt pulley wheels and flywheels mounted on longer shafts
- Upgradeable with hydraulic spindle (see table)

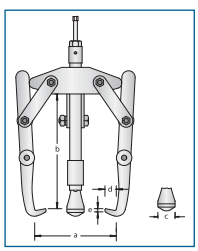


| Code | No. | $a_{max}$ | b | | | mm | c | d | e | max. t | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8006000 | **1.15/0** | 90 | 100 | M 12x1,5 x 110 | | 14 | 14 | 9 | 2.0 | 2.0 | 0.5 |
| 8006190 | **1.15/1** | 130 | 140 | M 14x1,5 x 140 | | 17 | 18 | 11 | 2.0 | 3.0 | 1.2 |
| 8006350 | **1.15/2** | 200 | 210 | M 18x1,5 x 200 | | 19 | 25 | 16 | 3.0 | 7.5 | 3.3 |
| 8006430 | **1.15/3** | 250 | 260 | G 1/2 x 250 | 1.06/HSP1 | 22 | 32 | 18 | 3.5 | 12.0 | 6.3 |
| 8006510 | **1.15/4** | 280 | 390 | G 1/2 x 250 | 1.06/HSP1 | 22 | 32 | 20 | 3.5 | 12.0 | 7.7 |
| 8006780 | **1.15/5** | 420 | 480 | G 1/2 x 350 | 1.06/HSP1 | 22 | 32 | 20 | 3.5 | 12.0 | 8.9 |

## 1.15/HSP

### PULLER hydraulic, 3-arm pattern

- The reliable, extra-strong model for the removal of pulleys, wheels, ball bearings, etc.
- With technical and economical benefits due to the variable clamping reach and automatic grip of the legs
- Especially suited to removing V-belt pulley wheels and flywheels mounted on longer shafts
- With the hydraulic spindle, a controlled and safe pulling action is possible at all times

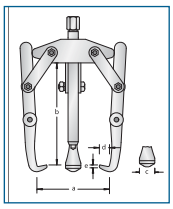


| Code | No. | $a_{max}$ | b | | mm | c | d | e | max. t | max. N·m | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1392956 | **1.15/3-HSP1** | 250 | 180 | 1.06/HSP1 | 32 | 32 | 18 | 3.5 | 10 | 17 | 6.6 |
| 1392980 | **1.15/4-HSP1** | 280 | 310 | 1.06/HSP1 | 32 | 32 | 20 | 3.5 | 10 | 17 | 8.1 |

## 114

### PULLING LEG

- With variable clamping reach
- Complete with clips and screws



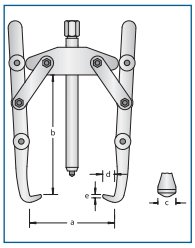
| Code | No. | | b | c | d | e | |
|---|---|---|---|---|---|---|---|
| 2303213 | **114/0-100** | 1.14/0 + 1.15/0 | 100 | 14 | 9 | 2.0 | 0.1 |
| 2303221 | **114/1-140** | 1.14/1 + 1.15/1 | 140 | 18 | 11 | 2.0 | 0.3 |
| 2303248 | **114/2-210** | 1.14/2 + 1.15/2 | 210 | 25 | 16 | 3.0 | 0.8 |
| 2303256 | **114/3-260** | 1.14/3 + 1.15/3<br>1.15/3-HSP1 | 260 | 32 | 18 | 3.5 | 1.5 |
| 2303264 | **114/4-390** | 1.14/4 + 1.15/4<br>1.15/4-HSP1 | 390 | 32 | 20 | 3.5 | 1.8 |
| 2303272 | **114/5-480** | 1.14/5 + 1.15/5 | 480 | 32 | 20 | 3.5 | 2.2 |

Quantities in packs may vary.

## 1.14/L

### FAN PULLER 2-arm pattern

- Especially slender legs will each adjust to 3 clamping positions

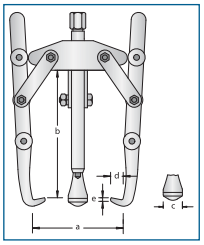


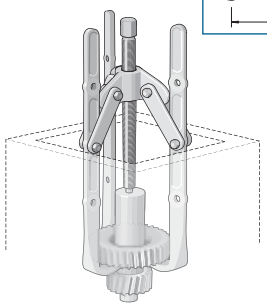
| Code | No. | $a_{max}$ | b | | mm | c | d | e | max. t | kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 8005110 | **1.14/1L** | 150 | 200 | M 14x1,5 x 155 | 17 | 10 | 6 | 2 | 2.0 | 0.9 |

## 1.15/L

### FAN PULLER 3-arm pattern

- Especially slender legs will each adjust to 3 clamping positions



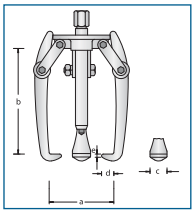


| Code | No. | $a_{max}$ | b | | mm | c | d | e | max. t | kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 8006270 | **1.15/1L** | 150 | 200 | M 14x1,5 x 155 | 17 | 10 | 6 | 2 | 3.0 | 1.3 |

## 1.16

### PULLER 2-arm pattern

- Very strong
- Made for industrial applications and for use on heavy agricultural and construction machines
- The legs grip automatically
- Upgradeable with hydraulic spindle (see table)

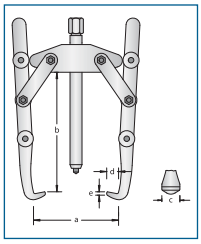


| Code | No. | $a_{max}$ | b | | | mm | c | d | e | max. t | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8007080 | **1.16/1** | 300 | 300 | G 1 x 360 | 1.06/HSP3 | 36 | 32 | 19 | 3.0 | 8.0 | 8.4 |
| 8007160 | **1.16/2** | 450 | 420 | G 1 x 500 | 1.06/HSP3 | 36 | 32 | 22 | 3.0 | 8.0 | 10.0 |

## 114/L

### PULLING LEG

- With variable clamping reach
- Complete with clips and screws

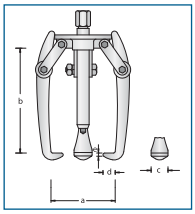


| Code | No. | | b | c | d | e | kg |
|---|---|---|---|---|---|---|---|
| 2303310 | **114/1-200-L** | 1.14/1L + 1.15/1L | 200 | 10 | 6 | 2 | 0.3 |

## 1.17

### PULLER 3-arm pattern

- Very strong
- Made for industrial applications and for use on heavy agricultural and construction machines
- The legs grip automatically
- Upgradeable with hydraulic spindle (see table)
- For the assembly of a 2- or 3-arm puller



| Code | No. | $a_{max}$ | b | | | mm | c | d | e | max. t | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8007320 | **1.17/1** | 300 | 300 | G 1 x 360 | 1.06/HSP3 | 36 | 32 | 19 | 3.0 | 12.0 | 10.5 |
| 8007400 | **1.17/2** | 450 | 420 | G 1 x 500 | 1.06/HSP3 | 36 | 32 | 22 | 3.0 | 12.0 | 12.7 |

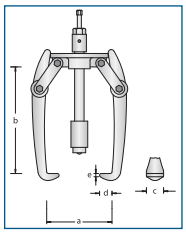


Quantities in packs may vary.

## 1.16/HSP

### PULLER hydraulic, 2-arm pattern

- Very strong
- Made for industrial applications and for use on heavy agricultural and construction machines
- The legs grip automatically
- With the hydraulic spindle, a controlled and safe pulling action is possible at all times

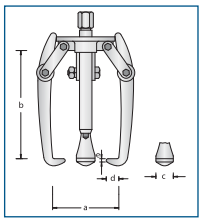


| Code | No. | $a_{max}$ | b | | mm | c | d | e | max. t | max. N·m | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8012590 | **1.16/1-HSP3** | 300 | 190 | 1.06/HSP3 | 41 | 32 | 19 | 3.0 | 8.0 | 22 | 8.7 |
| 8012670 | **1.16/2-HSP3** | 450 | 310 | 1.06/HSP3 | 41 | 32 | 22 | 3.0 | 8.0 | 22 | 10.2 |

## 116

### PULLING LEG

- Very strong
- Complete with clips and screws

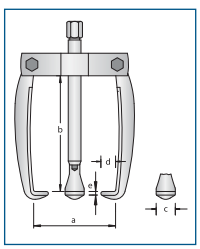


| Code | No. | | b | c | d | e | kg |
|---|---|---|---|---|---|---|---|
| 2303280 | **116/1-300** | 1.16/1 + 1.17/1<br>1.16/1-HSP3 + 1.17/1-HSP3 | 300 | 32 | 19 | 3 | 1.8 |
| 2303299 | **116/2-420** | 1.16/2 + 1.17/2<br>1.16/2-HSP3 + 1.17/2-HSP3 | 300 | 32 | 22 | 3 | 2.2 |

## 1.18

### PULLER 2-arm pattern

- The tried and tested range for economical bearing removal

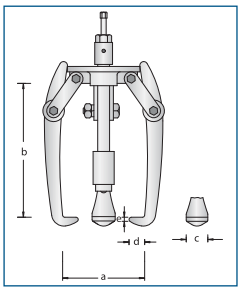


| Code | No. | $a_{max}$ | b | | c | d | e | max. t | kg |
|---|---|---|---|---|---|---|---|---|---|
| 1464965 | **1.18/1** | 110 | 110 | M 14x1,5 x 163 | 17 | 18 | 5.0 | 2.0 | 1.1 |
| 1464973 | **1.18/2** | 160 | 140 | M 18x1,5 x 215 | 21 | 20 | 6.5 | 3.0 | 2.1 |
| 1464981 | **1.18/3** | 200 | 200 | G 1/2 x 282 | 22 | 22 | 7.5 | 5.0 | 3.4 |

## 1.17/HSP

### PULLER hydraulic, 3-arm pattern

- Very strong
- Made for industrial applications and for use on heavy agricultural and construction machines
- The legs grip automatically
- With the hydraulic spindle, a controlled and safe pulling action is possible at all times



| Code | No. | $a_{max}$ | b | | mm | c | d | e | max. t | max. N·m | kg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8014290 | **1.17/1-HSP3** | 300 | 190 | 1.06/HSP3 | 41 | 32 | 19 | 3.0 | 12.0 | 29 | 11.4 |
| 8014370 | **1.17/2-HSP3** | 450 | 310 | 1.06/HSP3 | 41 | 32 | 22 | 3.0 | 12.0 | 29 | 12.7 |

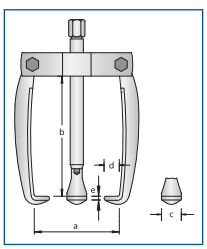
1.18 / 1.19

458

## 1.19

### PULLER 3-arm pattern

- The tried and tested range for economical bearing removal



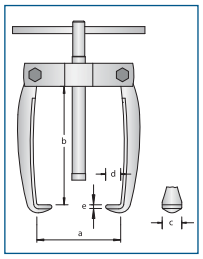
| Code | No. | $a_{max}$ | b | | c | d | e | max. t | kg |
|---|---|---|---|---|---|---|---|---|---|
| 1465007 | **1.19/1** | 110 | 110 | M 14x1,5 x 163 | 17 | 18 | 5.0 | 2.0 | 1.4 |
| 1465015 | **1.19/2** | 160 | 140 | M 18x1,5 x 215 | 21 | 20 | 6.5 | 3.0 | 2.7 |
| 1465023 | **1.19/3** | 200 | 200 | G 1/2 x 282 | 22 | 22 | 7.5 | 5.0 | 4.5 |

Quantities in packs may vary.

## 1.18

### FAN PULLER 2-arm pattern

- Removes bearings swiftly and cleanly

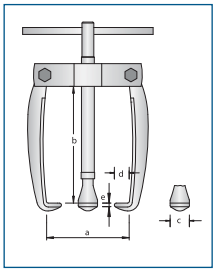



| Code | No. | $a_{max}$ | b | | c | d | e | max. t | |
|---|---|---|---|---|---|---|---|---|---|
| 1656996 | **1.18/02** | 65 | 50 | M 10 x 115 | 12 | 10 | 3.0 | 1.0 | 0.2 |
| 1657089 | **1.18/01** | 70 | 70 | M 10 x 115 | 12 | 10 | 3.0 | 1.0 | 0.2 |
| 1656937 | **1.18/0** | 80 | 80 | M 10 x 115 | 12 | 10 | 3.0 | 1.0 | 0.2 |

## 1.19

### FAN PULLER 3-arm pattern

- Removes bearings swiftly and cleanly

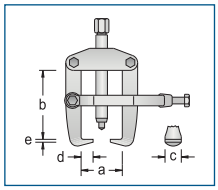



| Code | No. | $a_{max}$ | b | | c | d | e | max. t | |
|---|---|---|---|---|---|---|---|---|---|
| 1657054 | **1.19/02** | 65 | 50 | M 10 x 115 | 12 | 10 | 3.0 | 1.0 | 0.3 |
| 1657046 | **1.19/01** | 70 | 70 | M 10 x 115 | 12 | 10 | 3.0 | 1.0 | 0.3 |
| 1657011 | **1.19/0** | 80 | 80 | M 10 x 115 | 12 | 10 | 3.0 | 1.0 | 0.3 |

## 1.20

### PULLER with clamping yoke

- These pullers are mainly employed for removing car and truck steering arms
- The clamping yoke applies firm pressure behind the part to be moved and keeps the puller firmly in the correct position

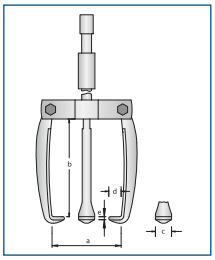



| Code | No. | $a_{max}$ | b | | mm | c | d | e | max. t | |
|---|---|---|---|---|---|---|---|---|---|---|
| 8008050 | **1.20/1** | 90 | 85 | M 18x1,5 x 130 | 19 | 22 | 12 | 3.0 | 5.0 | 1.6 |
| 8008130 | **1.20/2** | 90 | 100 | M 18x1,5 x 130 | 19 | 24 | 15 | 3.0 | 5.0 | 1.7 |
| 8008210 | **1.20/3** | 150 | 140 | G 1/2 x 175 | 22 | 30 | 18 | 3.5 | 7.5 | 3.4 |

## 1.19/SH

### PULLER WITH IMPACT HAMMER

- The tried and tested range for economical bearing removal, spindle not supplied
- Impact weight: 700 g

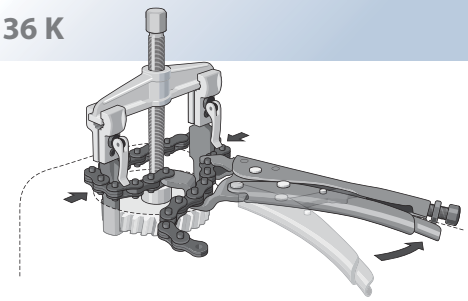



| Code | No. | $a_{max}$ | b | c | d | e | max. t | |
|---|---|---|---|---|---|---|---|---|
| 2178001 | **1.19/01-SH1A** | 70 | 70 | 12 | 10 | 3.0 | 1.0 | 1.2 |

## Clamping yoke

- The clamping yokes stop the legs bending outwards under load and thus possibly slipping.
- This can also be attained using the new GEDORE 136 K clamping chain - even with a very restricted contact surface of the legs extracting can still be done.

136 K

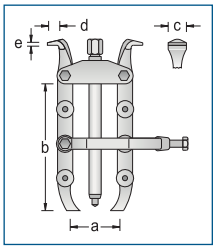


431

## 1.22

### PULLER with clamping yoke

- Double-ended hooks
- Particularly suitable for separating and removing flush-seated parts
- Especially economical as it covers a range of different sizes




| Code | No. | $a_{max}$ | b | | mm | c | d | e | max. t | |
|---|---|---|---|---|---|---|---|---|---|---|
| 8009020 | **1.22/1** | 110 | 170 | M 18x1,5 x 200 | 19 | 25 | 14 | 3.5 | 5.0 | 2.2 |
| 8009100 | **1.22/2** | 160 | 260 | G 1/2 x 350 | 22 | 25 | 14 | 3.5 | 7.5 | 4.4 |
| 8009290 | **1.22/3** | 160 | 325 | G 1/2 x 350 | 22 | 25 | 14 | 3.5 | 7.5 | 4.6 |

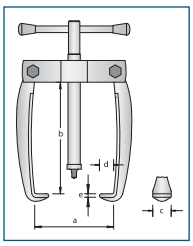


Quantities in packs may vary.

## 1.18/XS

### PULLER with extra slim legs

- Very slim forged legs
- Ideal for use in hard-to-reach places, e.g. work on electric motors

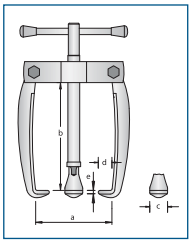


| Code | No. | $a_{max}$ | b | | c | d | e | s | max. t | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2018594 | **1.18/0XS** | 50 | 70 | M 10x1,5 x 100 | 8 | 3 | 2 | 2,9 | 0.5 | 240 |

## 1.19/XS

### PULLER with extra slim legs

- Very slim forged legs
- Ideal for use in hard-to-reach places, e.g. work on electric motors

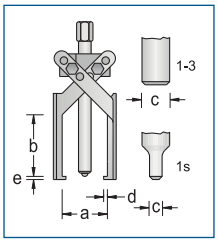


| Code | No. | $a_{max}$ | b | | c | d | e | s | max. t | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2018608 | **1.19/0XS** | 50 | 70 | M 10x1,5 x 100 | 8 | 3 | 2 | 2,9 | 0.8 | 300 |

## 1.23

### PULLER with slim legs

- For removing bearings in confined spaces
- The legs grip automatically
- No. 1.23/S: particularly slim legs

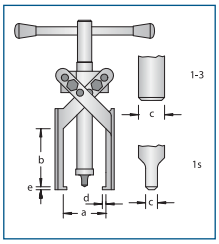


| Code | No. | $a_{max}$ | b | | mm | c | d | e | max. t | |
|---|---|---|---|---|---|---|---|---|---|---|
| 8084580 | **1.23/1S** | 80 | 85 | M 10 x 105 | 12 | 11 | 4 | 2.5 | 1.5 | 0.4 |
| 8084310 | **1.23/1** | 80 | 85 | M 10 x 105 | 12 | 23 | 4 | 2.5 | 2.0 | 0.4 |
| 8084660 | **1.23/2** | 120 | 120 | M 14x1,5 x 130 | 17 | 31 | 5 | 3.5 | 3.5 | 0.8 |
| 8084740 | **1.23/3** | 120 | 150 | M 14x1,5 x 205 | 17 | 31 | 5 | 3.5 | 3.5 | 1.1 |

## 1.23/XS

### PULLER with extra slim legs

- Very slim forged legs
- Ideal for use in hard-to-reach places, e.g. work on electric motors
- The legs grip automatically



| Code | No. | $a_{max}$ | b | | c | d | e | s | max. t | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2018578 | **1.23/1XS** | 80 | 85 | M 10x1,5 x 100 | 9 | 3.5 | 2 | 2,9 | 0.7 | 330 |


## 1.06/XS • 1.07/XS

419
423

Quantities in packs may vary.

# HYDRAULIC IMPLEMENTS

## 1.50

### HYDRAULIC IMPLEMENTS

- Suitable for pressing, straightening, lifting, bending, and pulling
- Consisting of hydraulic hand pump 1.50/1 and hydraulic cylinder 1.51

| Code | No. | consisting of: | |
|---|---|---|---|
| 8110410 | **1.50/10** | Hydraulic hand pump 1.50/1<br>Hydraulic cylinder 1.51/10 | 14.0 |
| 8110680 | **1.50/11** | Hydraulic hand pump 1.50/1<br>Hydraulic cylinder 1.51/11 | 15.1 |

## 1.50/1

### HYDRAULIC HAND PUMP

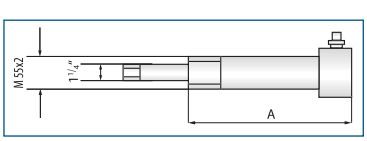
- Complete with 1.50 m high-pressure hose
- To fit hydraulic cylinder 1.51
- Up to 700 bar

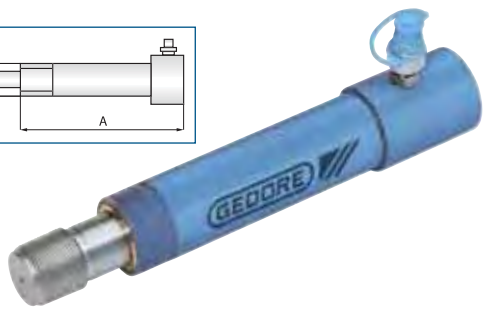
| Code | No. | for hydraulic cylinder | |
|---|---|---|---|
| 8022710 | **1.50/1** | 1.51/10 1.51/11 | 8.3 |

## 1.51

### HYDRAULIC CYLINDER

- Connection of the coupling 3/8"



| Code | No. | Stroke height | A | max. t | |
|---|---|---|---|---|---|
| 8023440 | **1.51/10** | 150 | 275 | 10 | 5.0 |
| 8110760 | **1.51/11** | 230 | 355 | 10 | 6.0 |

## 1.51/V

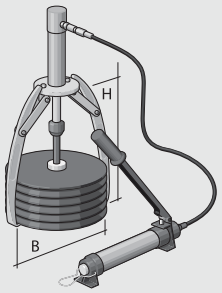
### EXTENSION FOR 1.51/10 + 11

- 1.51/V015 are used to protect the cylinder/piston
- The 1.51/V045, 1.51/V125 and 1.51/V205 extensions are attached to the hydraulic cylinder using adapter 1.51/A-2

| Code | No. | Description | |
|---|---|---|---|
| 2065045 | **1.51/V015** | Extension and cylinder protection, 15 mm | 0.4 |
| 2065053 | **1.51/V045** | Extension for hydraulic cylinder, 45 mm | 0.5 |
| 2065061 | **1.51/V125** | Extension for hydraulic cylinder, 125 mm | 0.9 |
| 2065088 | **1.51/V205** | Extension for hydraulic cylinder, 205 mm | 1.3 |
| 2065096 | **1.51/A-2** | Adaptor for 1.51/V045 - V205 | 0.5 |

## Hydraulic implements

- As the puller cannot be rotated during extraction, pulling with the assistance of hydraulic aids - hydraulic implements, hydraulic spindle or hydraulic press - saves both on time and the effort needed.
- The hydraulic implements can also be used with the 1.07/4 and 1.07/4A pullers.




1.07/4

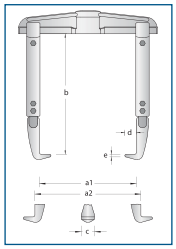
424

Quantities in packs may vary.

## 1.06/H

### PULLER for hydraulic implement 1.50

- For the fast and damage-free removal of pulleys, wheels, ball bearings, etc.
- Robust pattern, designed for rigidity and heavy duty use
- By reversing the legs, this tool can be used as an internal or external puller
- The reach may be increased both by using pulling legs in special lengths, and by using extensions

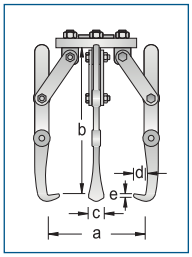



| Code | No. | $a_1$ | $a_{2\,min}$ | $a_{2\,max}$ | b | c | d | e | max. t | |
|---|---|---|---|---|---|---|---|---|---|---|
| 8112620 | **1.06/40** | 520 | 185 | 600 | 200 | 36 | 28 | 6.5 | 10.0 | 11.0 |

## 1.15/H

### PULLER for hydraulic implement 1.50

- Heavy-duty pattern for the removal of gear wheels, spoked wheels, pulleys, etc.
- The legs grip automatically
- The legs can be moved for use as a 2-arm puller
- The adjustable reach means that this puller is very versatile

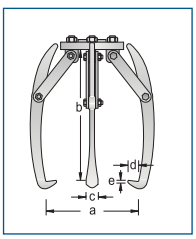



| Code | No. | $a_{max}$ | b | c | d | e | max. t | |
|---|---|---|---|---|---|---|---|---|
| 8006860 | **1.15/30** | 250 | 260 | 32 | 18 | 3.5 | 12.0 | 9.0 |
| 8109590 | **1.15/40** | 280 | 390 | 32 | 20 | 3.5 | 12.0 | 9.2 |

## 1.17/H

### UNIVERSAL PULLER for hydraulic implement 1.50

- Heavy-duty pattern for the removal of gear wheels, spoked wheels, pulleys, etc
- The legs grip automatically




| Code | No. | $a_{max}$ | b | c | d | e | max. t | |
|---|---|---|---|---|---|---|---|---|
| 8007590 | **1.17/10** | 300 | 300 | 36 | 19 | 3.5 | 12.0 | 9.1 |
| 8109670 | **1.17/20** | 425 | 425 | 36 | 22 | 3.5 | 12.0 | 12.4 |

5.10

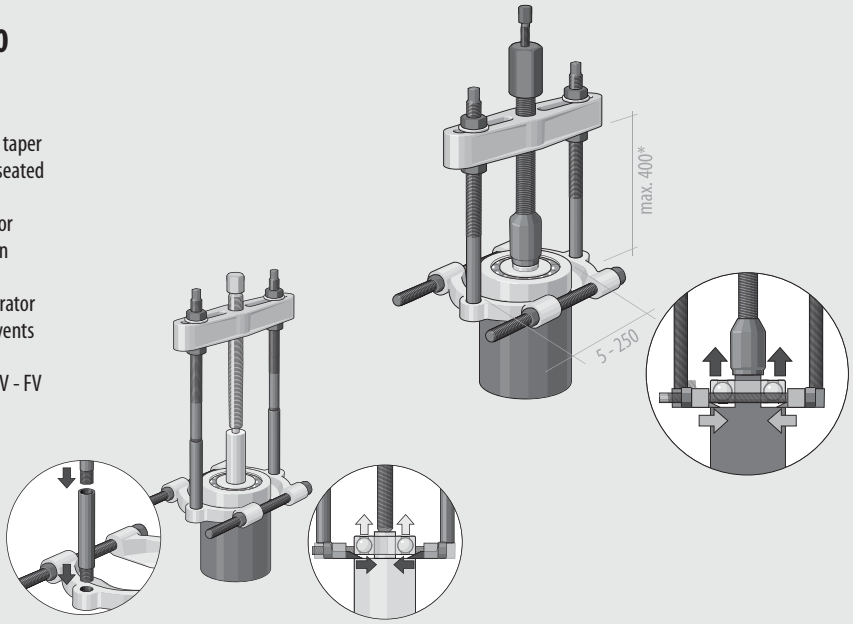
**Remember the safety cover!**

431

Quantities in packs may vary.

## Separator pullers 1.38 and 1.40

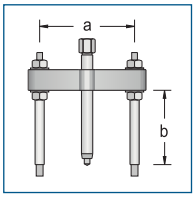
- GEDORE separating blades are particularly suited for removing taper roller and ball bearings, inner bearing races and other tightly-seated or thin-walled parts.
- To remove tightly-seated parts, the sharp edges of the separator blades are pressed behind the part to be removed which is then withdrawn using the correct 1.38 separator puller.
- To avoid damage to delicate parts, the flat surfaces of the separator blades are used. This produces a large contact surface that prevents tilting.
- The clamping reach can be enlarged with the aid of the 1.38/AV - FV tension bolt extensions.




### 1.38

**SEPARATOR PULLER**

- These separator pullers are used together with the bearing separators 1.40
- The tension bolts are screwed into the threaded holes in the bearing separators




| Code | No. | for separator | a | b | | M | mm | | |
|---|---|---|---|---|---|---|---|---|---|
| 8017550 | **1.38/0** | 1.40/0 | 40-120 | 125 | M 14 x 120 | M10 / M12x1,5 | 17 | – | 1.0 |
| 8017630 | **1.38/1** | 1.40/1 | 60-165 | 180 | M 18 x 170 | M10 / M14x1,5 | 19 | – | 1.1 |
| 8017710 | **1.38/2** | 1.40/2 | 70-215 | 195 | G 1/2 x 210 | M14x1,5 / M16x1,5 | 22 | 1.06/HSP1 | 3.4 |
| 8017980 | **1.38/3** | 1.40/3 | 90-300 | 205 | G 3/4 x 280 | M18x1,5 / M20x1,5 | 27 | 1.06/HSP2 | 6.5 |
| 8018010 | **1.38/4** | 1.40/4 | 125-380 | 275 | G 1 x 310 | M22x1,5 / M24x1,5 | 36 | 1.06/HSP3 | 11.6 |
| 8018280 | **1.38/5** | 1.40/5 | 140-440 | 320 | G 1 x 360 | M24x1,5 / M26x1,5 | 36 | 1.06/HSP3 | 16.6 |

923

541

920

541



Quantities in packs may vary.

## 1.38/V

### EXTENSION ROD

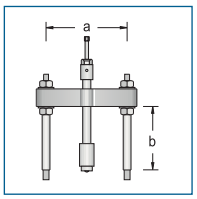
- Extension rods for separator pullers 1.38

| Code | No. | for separator | M | mm | |
|---|---|---|---|---|---|
| 8018440 | **1.38/AV** | 1.38/0 1.38/1 | M10 | 100 | 0.3 |
| 8018520 | **1.38/CV** | 1.38/2 | M14x1,5 | 100 | 0.3 |
| 8018600 | **1.38/DV** | 1.38/3 | M18x1,5 | 100 | 0.7 |
| 8018790 | **1.38/EV** | 1.38/4 | M22x1,5 | 200 | 2.1 |
| 8018870 | **1.38/FV** | 1.38/5 | M24x1,5 | 200 | 2.7 |

## 1.38/HSP

### SEPARATOR PULLER hydraulic

- For use with separating blades 1.40
- The tension bolts are screwed into the threaded bores of the separating blades



| Code | No. | for separator | M | a | b | |
|---|---|---|---|---|---|---|
| 8014960 | **1.38/2-HSP1** | 1.40/2 | M14x1,5 | 70-215 | 175 | 3.9 |
| 8015180 | **1.38/3-HSP2** | 1.40/3 | M18x1,5 | 90-300 | 195 | 7.1 |
| 8015420 | **1.38/4-HSP3** | 1.40/4 | M22x1,5 | 125-380 | 240 | 12.6 |
| 8015500 | **1.38/5-HSP3** | 1.40/5 | M24x1,5 | 140-440 | 290 | 17.4 |

## 1.40

### SEPARATOR

- For removing taper roller and ball bearings, inner bearing races, and other tightly-seated or thin-walled parts
- Operation: To remove tightly-seated parts, the sharp edges of the separator blades are pressed behind the part and it is then withdrawn using the correct puller no. 1.38. To avoid damage to delicate parts, the flat surfaces of the separator blades are used. This produces a large support surface that prevents deformation.

| Code | No. | for puller | M | mm | |
|---|---|---|---|---|---|
| 8019680 | **1.40/0** | 1.38/0 | M10 | 5-60 | 0.5 |
| 8019760 | **1.40/1** | 1.38/1 | M10 | 12-75 | 0.9 |
| 8019840 | **1.40/2** | 1.38/2 | M14x1,5 | 22-115 | 2.4 |
| 8019920 | **1.40/3** | 1.38/3 | M18x1,5 | 30-155 | 4.7 |
| 8020180 | **1.40/4** | 1.38/4 | M22x1,5 | 30-200 | 8.9 |
| 8020260 | **1.40/5** | 1.38/5 | M24x1,5 | 30-250 | 15.3 |

## 1.41

### SEPARATOR AND PULLER SET

- Set comprising separator, puller, and extension rods
- In sheet metal case

| Code | No. | Contents | |
|---|---|---|---|
| 8109750 | **1.41/0** | 1.38/0 1.38/AV 1.40/0 | 2.8 |
| 8109830 | **1.41/1** | 1.38/1 1.38/AV 1.40/1 | 5.3 |
| 8109910 | **1.41/2** | 1.38/2 1.38/CV 1.40/2 | 9.0 |
| 8110090 | **1.41/3** | 1.38/3 1.38/DV 1.40/3 | 16.0 |
| 8110170 | **1.41/4** | 1.38/4 1.38/EV 1.40/4 | 28.6 |

Quantities in packs may vary.

# 1.92 EXTRACTOR

Better solutions through innovative and precise technology

**The solution for ball bearings, which are mounted on a shaft or in a housing, and thus cannot be extracted neither from the inside nor from the outside.**

## Fields of application

Suitable for more than 40 standard ball bearings up to 6311

1. The innovative design with its maximum level of functionality in connection with simple handling provides a PLUS in effectivity and productivity.
2. The top plate is easy to use. The legs are fixed in the slot.
3. The self-locking system guarantees 100% force transmission and the maximum safety during withdrawal

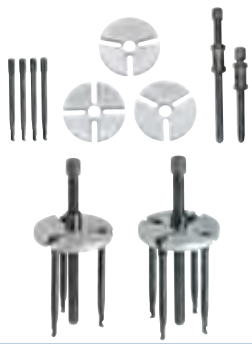
## Working principle

In view of the different ball bearing constructions dependent on manufacturer, the table presented can only serve as an orientation guide in selecting the legs and heads.

## 1.92

### BALL BEARING EXTRACTOR PLUS

- Using the ball bearing extractor, the removal of shaft-mounted ball bearings in a housing is now possible without any problems
- Due to its great degree of functionality combined with the simplified handling, this design makes a PLUS in effectiveness and productivity possible
- This tool is easy to use: The legs are fixed in the slot
- The self-locking arrangement means that the force applied is 100 % utilised
- Secure at all times against slipping off - and a straight pulling force for precise working
- Patented system
- Suitable for more than 40 standard ball bearings up to 6311
- 1.92/1 for bearings: 6000-6010, 6200-6205, 6300-6304
- 1.92/2 for bearings: 6011-6012, 6206-6212, 6305-6311, 6403-6407
- 1.92/12 contains set 1.92/1 and 1.92/2
- * with supporting ring 6309
- ** with supporting ring 6310
- *** with supporting ring 6311



1.92/12

| Code | No. | Bearing | Leg | Head size | |
|---|---|---|---|---|---|
| 1553534 | **1.92/1** | 6000 | 1.92/10 | 192/1-7 | 2.3 |
| | | 6001 | 1.92/10 | 192/1-4 | |
| | | 6002 | 1.92/10 | 192/1-3 | |
| | | 6003 | 1.92/10 | 192/1-4 | |
| | | 6004 | 1.92/30 | 192/1-3 | |
| | | 6005 | 1.92/30 | 192/1-3 | |
| | | 6006 | 1.92/30 | 192/1-3 | |
| | | 6007 | 1.92/40 | 192/1-3 | |
| | | 6008 | 1.92/40 | 192/1-3 | |
| | | 6009 | 1.92/40 | 192/1-3 | |
| | | 6010 | 1.92/40 | 192/1-3 | |
| | | 6200 | 1.92/10 | 192/1-4 | |
| | | 6201 | 1.92/20 | 192/1-7 | |
| | | 6202 | 1.92/20 | 192/1-4 | |
| | | 6203 | 1.92/30 | 192/1-4 | |
| | | 6204 | 1.92/40 | 192/1-4 | |
| | | 6205 | 1.92/40 | 192/1-3 | |
| | | 6300 | 1.92/30 | 192/1-3 | |
| | | 6301 | 1.92/40 | 192/1-3 | |
| | | 6302 | 1.92/40 | 192/1-7 | |
| | | 6303 | 1.92/40 | 192/1-7 | |
| | | 6304 | 1.92/40 | 192/1-7 | |

| Code | No. | Bearing | Leg | Head size | |
|---|---|---|---|---|---|
| 1553542 | **1.92/2** | 6011 | 1.92/50 | 192/2-3 | 5.2 |
| | | 6012 | 1.92/50 | 192/2-3 | |
| | | 6206 | 1.92/50 | 192/2-3 | |
| | | 6207 | 1.92/50 | 192/2-3 | |
| | | 6208 | 1.92/60 | 192/2-3 | |
| | | 6209 | 1.92/60 | 192/2-3 | |
| | | 6210 | 1.92/60 | 192/2-3 | |
| | | 6211 | 1.92/60 | 192/2-3 | |
| | | 6212 | 1.92/70 | 192/2-3 | |
| | | 6305 | 1.92/60 | 192/2-7 | |
| | | 6306 | 1.92/60 | 192/2-4 | |
| | | 6307 | 1.92/60 | 192/2-4 | |
| | | 6308 | 1.92/70 | 192/2-4 | |
| | | 6309 | 1.92/70 | 192/2-4 | |
| | | 6310** | 1.92/70 | 192/2-4 | |
| | | 6311*** | 1.92/70 | 192/2-4 | |
| | | 6403 | 1.92/60 | 192/2-3 | |
| | | 6404 | 1.92/70 | 192/2-3 | |
| | | 6405 | 1.92/70 | 192/2-7 | |
| | | 6406 | 1.92/70 | 192/2-7 | |
| | | 6407* | 1.92/60 | 192/2-7 | |
| 1553550 | **1.92/12** | Contents of set 1.92/1 and 1.92/2 | | | 7.6 |

## 1.92

### PARTS

- Pulling legs No. 1.92/10 to 1.92/70 = set of 4 pieces
- For spindle 1.1406200: please also order adaptor 192/A-2

| Code | No. | Description |
|---|---|---|
| 1583263 | **1.92/10** | Leg 120 mm |
| 1583271 | **1.92/20** | Leg 125 mm |
| 1583298 | **1.92/30** | Leg 130 mm |
| 1583301 | **1.92/40** | Leg 135 mm |
| 1583328 | **1.92/50** | Leg 140 mm |
| 1583336 | **1.92/60** | Leg 145 mm |
| 1583344 | **1.92/70** | Leg 150 mm |
| 1574485 | **192/1-3** | Head small 3 |
| 1574493 | **192/1-4** | Head small 4 |
| 1574507 | **192/1-7** | Head small 3/7 |
| 1574515 | **192/2-3** | Head big 3 |
| 1574523 | **192/2-4** | Head big 4 |
| 1574531 | **192/2-7** | Head big 3/7 |
| 1574566 | **192/A-2** | Adaptor for head big 1.92/2 |
| 1576208 | **1.1006170** | Spindle small for 1.92/1 |
| 1576224 | **1.1406200** | Spindle big for 1.92/2 |



Quantities in packs may vary.

## 1.29

### BALL BEARING EXTRACTOR

- For removing ball bearings that are both on a shaft and in a housing
- The legs selected using the table are inserted into the ball race, evenly distributed in the outer ring according to the number of balls
- The support rings supplied for the ball bearings to be removed are placed on the bearings' inner races
- The hub with spindle is then placed on the centering depression of the shaft and the spindle put under tension with the legs
- Delivery contains head and spindle. Please order suitable legs separately!

| Code | No. | ⟷ | ⬣ mm | ⚖ |
|---|---|---|---|---|
| 8011000 | **1.29/1** | M 10 x 160 | 14 | 0.2 |
| 8011190 | **1.29/2** | M 12 x 195 | 14 | 0.5 |
| 8011270 | **1.29/3** | M 14 x 210 | 17 | 0.6 |
| 8011350 | **1.29/4** | M 18 x 230 | 19 | 0.9 |
| 8011430 | **1.29/5** | M 20 x 235 | 22 | 1.9 |

**Extracting without drilling open the ball bearing! Therefore no risk of any chippings in machines.**

## 1.29

### PULLING LEGS 4 pieces

- * Used with support rings for pulling bearings

| Code | No. | ⟷ mm ⟷ | for hub | for ball bearing No. | ⚖ |
|---|---|---|---|---|---|
| 8011510 | **1.29/10** | 145 | 1.29/1 | 6000 6001 6002 | 80 |
| 8011780 | **1.29/15** | 145 | 1.29/1 | 6003 6004 6005 6200 6201 6202 | 100 |
| 8011860 | **1.29/20** | 177 | 1.29/2 | 6006 6203 | 200 |
| 8011940 | **1.29/25** | 177 | 1.29/2 | 6007 6008 6009 6010 6204 6205 6300 6301 6302 | 200 |
| 8012080 | **1.29/30** | 185 | 1.29/2<br>1.29/3 | 6303 6304 6206<br>6011 6012 | 300 |
| 8012160 | **1.29/35** | 187 | 1.29/3 | 6207 6208 6305 | 400 |
| 8012240 | **1.29/40** | 235 | 1.29/4 | 6209 6210 6306 | 600 |
| 8110250 | **1.29/45** | 236 | 1.29/4<br>1.29/5 | 6211 6212 6308* 6404 6405<br>6309* 6310* 6311* 6406* | 800 |

## 1.29/K

### BALL BEARING EXTRACTOR SET

- In sheet metal case, dimensions: 285 x 190 x 75 mm

| Code | No. | Contents | ⚖ |
|---|---|---|---|
| 8110330 | **1.29/1K** | 3 hubs with spindle 1.29/1 - 1.29/3<br>6 sets legs 1.29/10 - 1.29/35<br>1 plug-in handle 1.29/0 | 5.1 |
| 8012320 | **1.29/3K** | 5 hubs with spindle 1.29/1 - 1.29/5<br>8 sets legs 1.29/10 - 1.29/45<br>1 plug-in handle 1.29/0 and 4 support rings | 8.7 |

→ 1.85

431

→ 5.10

431

Quantities in packs may vary.

# Internal extractor overview

## with matching counter-stays and sliding hammers

| | No. 1.34/1-4 | No. 1.30/0-5<br>No. 1.30/2N-3N | No. 1.30/6-7 | No. 1.30/8-9 | No. 1.30/10 | |
|---|---|---|---|---|---|---|
| | ø 5-36 | ø 5-35 | ø 35-55 | ø 55-100 | ø 60-160 | |
| No. 1.35/0 – 200 g – 180 | ● | ● | | | | No. 1.36/1 |
| No. 1.35/1 – 200 g – 230 | ● | ● | ● | | | No. 1.36/2 |
| No. 1.35/1A – 700 g – 230 | | ● | ● | ● | | No. 1.36/3 |
| No. 1.35/2 – 1700 g – 500 | | ● | ● | ● | ● | No. 1.36/4 |
| No. 1.35/3 – 3000 g – 500 | | | ● | ● | ● | |

# 1.34 Interal extractor

## In a class of its own due to the precision manufacturing technology

### Contents:

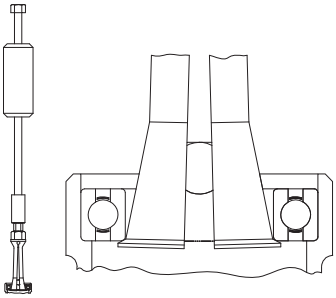
1.34/10 - 5-piece internal extractor set for closely-fitting ball bearings
Attractive set arrangement
Can be used with sliding hammer or counter-support brace

1.34 Internal extractor

Higher spread range

1. The simple handling method guarantees the fast and uncomplicated withdrawal of ball bearings.
2. Because of their titanium nitrided coating the surfaces have increased hardness and are provided with better protection.
3. Force transmission is increased and improved by precise manufacturing accuracy.
4. The expansion ranges have been increased, thus fewer pullers are necessary for the same overall expansion range.

## Features Material



## Advantages
## Titanium nitrided surface

- Harder
- More wear-resistant
- Better surface protection
- More heat-resistant
- Fine design
- Fast compensation of temperature differences

### 1.34/1 - 1.34/4

**INTERNAL EXTRACTOR**

- For use with sliding hammer no. 1.35/0 or counter-support brace no. 1.36/1
- Multiple wrench size (11+ 13 mm)
- DBGM (German utility patent)

| Code | No. | M | mm | |
|---|---|---|---|---|
| 1638556 | **1.34/1** | M10 | 5,0-8,5 | 40 |
| 1638564 | **1.34/2** | M10 | 8,0-15,0 | 60 |
| 1638572 | **1.34/3** | M10 | 15,0-25,0 | 80 |
| 1638580 | **1.34/4** | M10 | 25,0-36,0 | 100 |

### 1.34/10

**INTERNAL EXTRACTOR SET 5 pieces**

- For tightly-fitting ball bearings, bearing races, bushings and shaft seals
- Titanium-nitrided surface
- Operation: The internal extractor is inserted into the bearing and the spindle screwed in. The sharp turned-out shoulders of the pulling shell jaws will press outwards behind the part to be extracted. The counter-support brace or the sliding hammer is then added.
- Contents in practical case:

**4 internal extractors:**

- 1.34/1 (5-8.5 mm)
- 1.34/2 (8-15 mm)
- 1.34/3 (15-24 mm)
- 1.34/4 (25-36 mm)
- 1 sliding hammer 1.35/0
- Multiple wrench size (11+13 mm)
- M10 connecting thread

| Code | No. | |
|---|---|---|
| 1638629 | **1.34/10** | 1.3 |

Quantities in packs may vary.

## 1.30/0-9

### INTERNAL EXTRACTOR

- For extremely-tightly-packed ball bearings, bearing races, bushings, and shaft seals Simmering®
- Operation: The internal extractor is inserted into the bearing and the spindle screwed in. The sharp turned-out shoulders of the pulling shell jaws will press outwards behind the part to be extracted. The counter-support brace is then added. Both feet must be aligned parallel to the spindle to ensure rigidity.

| Code | No. | M | | ○ mm | ⬢ mm | |
|---|---|---|---|---|---|---|
| 8012750 | **1.30/0** | M10 | 1.36/1 | 5-8 | 10 | 120 |
| 8012830 | **1.30/1** | M10 | 1.36/1 | 8-12 | 10 | 120 |
| 8012910 | **1.30/2** | M10 | 1.36/1 | 12-15 | 10 | 130 |
| 8013130 | **1.30/3** | M10 | 1.36/1 | 15-19 | 13 | 170 |
| 8013480 | **1.30/4** | M10 | 1.36/1 | 19-25 | 13 | 200 |
| 8013560 | **1.30/4A** | M10 | 1.36/1 | 25-30 | 13 | 300 |
| 8013640 | **1.30/5** | M10 | 1.36/1 | 30-35 | 13 | 400 |
| 8013720 | **1.30/6** | M14x1,5 | 1.36/2 | 35-45 | 17 | 650 |
| 8013800 | **1.30/7** | M14x1,5 | 1.36/2 | 45-55 | 17 | 800 |
| 8013990 | **1.30/8** | M14x1,5 | 1.36/3 | 55-70 | 19 | 1800 |
| 8014020 | **1.30/9** | M14x1,5 | 1.36/3 | 70-100 | 27 | 3050 |


**Ball bearing extracted?**

Fit a new one with our 1.85 bearing installation tool set!

431

## 1.30/N

### INTERNAL EXTRACTOR with reinforced shoulder

- Especially suitable for the safe and trouble-free extraction of needle roller bearings, ball bearings and brass sleeves from crankshafts
- Note: The soulder of the shell jaw must be applied behind the bearing

| Code | No. | M | ○ mm | ⬢ mm | |
|---|---|---|---|---|---|
| 8013050 | **1.30/2N** | M10 | 12-14 | 10 | 170 |
| 8013210 | **1.30/3N** | M10 | 14-19 | 13 | 170 |

## 1.30/10

### INTERNAL EXTRACTOR

- Suitable for removing large ball bearings and bearing outer races
- Operation: The extraction jaws are spread by turning the nut. The newly-developed spreading system enables a simple, step-free and time-saving adjustment to the desired diameter to be made. The sharp-edged sections of the extraction jaws seat flush beneath when spread

| Code | No. | M | ○ mm | ⬢ mm | |
|---|---|---|---|---|---|
| 8014100 | **1.30/10** | G 1/2" | 60-160 | 36 | 2312 |

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Quantities in packs may vary.

## 1.35

### SLIDING HAMMER

- Suited for the removal of small ball bearings since there is often not enough room for counter-support braces

1.35/0

1.35/1

1.35/1A

1.35/2

1.35/3

| Code | No. | for internal extractors | M | with adaptor | mm | mm | Impact weight in g | |
|---|---|---|---|---|---|---|---|---|
| 1958062 | **1.35/0** | 1.34/1 - 1.34/4 | M10 | - | 13 | 180 | 200 | 400 |
| 8016070 | **1.35/1** | 1.30/0 - 1.30/5<br>1.34/1 - 1.34/4 | M10 | - | 13 | 230 | 200 | 450 |
| 1958070 | **1.35/1A** | 1.30/0 - 1.30/7 | M10 | M 14x1,5 | 13 | 230 | 700 | 950 |
| 8039010 | **1.35/2** | 1.30/0 - 1.30/9 | M 14x1,5 | M10 | 24 | 500 | 1700 | 3200 |
| 1958089 | **1.35/3** | 1.30/6 - 1.30/10 | M 14x1,5 | - | 24 | 500 | 3000 | 4200 |

## 1.36

### COUNTER-SUPPORT BRACE

- Operation: The counter-support brace is placed on the housing and the spindle screwed onto the spindle of the internal extractor. The toggle is held firmly, and the bearing extracted by tightening the nut.

1.36/1-3

1.36/4

| Code | No. | for internal extractors | M | mm | |
|---|---|---|---|---|---|
| 8016580 | **1.36/1** | 1.30/0 - 1.30/5<br>1.34/1 - 1.34/4 | M10 | 27 | 750 |
| 8016660 | **1.36/2** | 1.30/6 - 1.30/7 | M14x1,5 | 32 | 1650 |
| 8016740 | **1.36/3** | 1.30/8 - 1.30/9 | M14x1,5 | 32 | 3000 |
| 8016820 | **1.36/4** | 1.30/10 | G 1/2" | 36 | 7600 |

## 1.37

### CYLINDER LINER PULLER complete with support brace

- Wet heavy-vehicle (e.g. Mercedes Benz, MAN) cylinder liners, automobile and stationary-engine liners, and other parts may be extracted using this puller
- Operation: The spindle of the counter-support brace is screwed into the clamping nut of the puller, and the puller inserted into the liner. The counter-support brace is placed on to the cylinder block. Due to the newly-developed spreading system, when the spindle is turned, all three jaws spread quickly and without difficulty, until they are firmly seated beneath the edge of the liner. Then the nut of the counter-support brace is tightened.

| Code | No. | M | mm | mm | |
|---|---|---|---|---|---|
| 8017200 | **1.37/2** | G 1/2" | 60-160 | 36 | 6.8 |

Quantities in packs may vary.

## 1.31

### INTERNAL EXTRACTOR SET

- Sets comprise the most used extractor sizes for the removal of ball bearings, bearing races, bushings, shaft seals, etc.
- In handy sheet metal case

1.31/2

1.31/0

| Code | No. | Contents | |
|---|---|---|---|
| 8014450 | **1.31/0N** | 4 internal extractors 12-30 mm 1.30/2N -3N -4 -4A<br>1 counter-support brace 1.36/1 | 2.6 |
| 8014530 | **1.31/0** | 4 internal extractors 12-30 mm 1.30/2 -3 -4 -4A<br>1 counter-support brace 1.36/1 | 2.6 |
| 8014610 | **1.31/1** | 6 internal extractors 12-46 mm 1.30/2 - /6<br>2 counter-support braces 1.36/1 - /2 | 6.4 |
| 8014880 | **1.31/2** | 8 internal extractors 12-70 mm 1.30/2 - /8<br>2 counter-support braces 1.36/1 - /2 | 9.2 |

## 1.32

### SET OF INTERNAL AND EXTERNAL EXTRACTORS

- The handy sheet metal case comprises internal extractors, support braces, pulling chucks, external extractors and stud extractors

1.32/1

1.32/2

1.32/2

| Code | No. | Contents | |
|---|---|---|---|
| 8015260 | **1.32/1** | 6 internal extractors 12-46 mm 1.30/2 - /6, 2 counter-support braces 1.36/1 - /2, 1 puller with extra slim legs 1.19/0XS<br>1 battery-terminal puller 1.12/02, 1 puller, 2-arm pattern 1.06/1, | 10.4 |
| 8015340 | **1.32/2** | 8 internal extractors 12-70 mm 1.30/2 - /8, 2 counter-support braces 1.36/1 - /2, 1 puller with extra slim legs 1.19/0XS<br>1 battery-terminal puller 1.12/02, 2 pullers, 2-arm pattern 1.06/1 /2, 1 stud extractor 1.28/1 | 19.0 |



Quantities in packs may vary.

# WHEEL-HUB PULLERS

## 1.60

### WHEEL-HUB PULLER for cars and trucks

- For wheel stud circles up to 225 mm
- Easy to use
- Upgradeable with hydraulic spindle (see table)
- No. 1.60/H = Spare leg

| Code | No. | No. of legs | | | |
|---|---|---|---|---|---|
| 8024840 | **1.60/3** | 3 | G 3/4 x 200 | 1.06/HSP2 | 4.3 |
| 8110840 | **1.60/4** | 4 | G 3/4 x 200 | 1.06/HSP2 | 4.9 |
| 8024920 | **1.60/5** | 5 | G 3/4 x 200 | 1.06/HSP2 | 5.3 |
| 8110920 | **1.60/H** | 1 | | | 0.5 |

## 1.60/HSP

### WHEEL-HUB PULLER for cars and trucks, hydraulic (not illustrated)

- For wheel stud circles up to 225 mm
- Easy to use

| Code | No. | No. of legs | | |
|---|---|---|---|---|
| 8015690 | **1.60/3-HSP2** | 3 | 1.06/HSP2 | 4.5 |
| 8015770 | **1.60/4-HSP2** | 4 | 1.06/HSP2 | 5.4 |
| 8015850 | **1.60/5-HSP2** | 5 | 1.06/HSP2 | 5.8 |

## 1.61

### WHEEL-HUB PULLER for cars and trucks

- For wheel stud circles up to 250 mm
- Easy to use
- Upgradeable with hydraulic spindle (see table)
- No. 1.61/H = Spare leg

| Code | No. | No. of legs | | | |
|---|---|---|---|---|---|
| 8111060 | **1.61/3** | 3 | G 3/4 x 200 | 1.06/HSP2 | 4.7 |
| 8111140 | **1.61/4** | 4 | G 3/4 x 200 | 1.06/HSP2 | 5.2 |
| 8025300 | **1.61/5** | 5 | G 3/4 x 200 | 1.06/HSP2 | 5.8 |
| 8111220 | **1.61/H** | 1 | | | 0.6 |

## 1.61/HSP

### WHEEL-HUB PULLER for cars and trucks, hydraulic

- For wheel stud circles up to 250 mm
- Easy to use
- With wheel stud protection using rotating nut apertures that always lie flat to the hub

| Code | No. | No. of legs | | |
|---|---|---|---|---|
| 8015930 | **1.61/3-HSP2** | 3 | 1.06/HSP2 | 5.4 |
| 8016150 | **1.61/4-HSP2** | 4 | 1.06/HSP2 | 6.2 |
| 8016230 | **1.61/5-HSP2** | 5 | 1.06/HSP2 | 6.9 |

## 1.62

### WHEEL-HUB PULLER for trucks

- For wheel stud circles up to 350 mm
- With wheel stud protection using rotating nut apertures that always lie flat to the hub
- This tool may also be used with the hydraulic aid without requiring a reduction bushing
- Upgradeable with hydraulic spindle

| Code | No. | No. of legs | | | |
|---|---|---|---|---|---|
| 8026030 | **1.62/8** | 8 | G 1 x 310 | 1.06/HSP3 | 12.6 |
| 8111220 | **1.61/H** | 1 | | | 0.6 |

## 1.62/HSP

### WHEEL-HUB PULLER for trucks, hydraulic (not illustrated)

- For wheel stud circles up to 350 mm
- With wheel stud protection using rotating nut apertures that always lie flat to the hub

| Code | No. | No. of legs | | |
|---|---|---|---|---|
| 8016310 | **1.62/8-HSP3** | 8 | 1.06/HSP3 | 13.6 |

Quantities in packs may vary.

# Ball joint puller

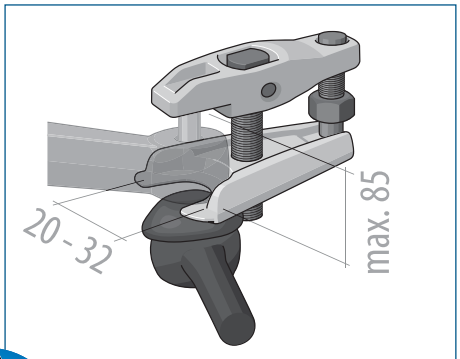
## 1.73 - Partner to rely on for your vehicle

Using the spindle, the ball joint puller is brought up to the required clamping height.

Body and lever of the 1.73 ball joint puller are drop-forged from 31CrV3 tempering steel and then hardened and tempered. In this way, the two major parts acquire the needed hardness and stability.

The set bolt applies that force needed to press out the ball joint. To withstand a load like this, the thread is rolled followed by hardening and tempering the spindle.

Article 1.73 comes in two sizes which together with their dimensions cover the most common pressure/ force situations.
Other dimensions are covered by articles 1.72 and 1.74 - the compact 1.72 can be made use of, for instance, in extremely tights spots.



### Safety-relevant

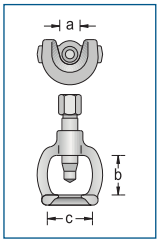
Forces amounting to several tons in weight act on the puller during the extracting operation! Drop-forged components "announce" possible overloading by bending. This is due to the fibre course of the material during forging permitting a certain flexibility of the components ahead of fracturing - an extremely "healthy" property, in fact !

# BALL JOINT PULLERS

## 1.72

### BALL JOINT PULLER

- For the simple and damage-free removal of ball pins on track rods and push rods



| Code | No. | a | b | c | | mm | |
|---|---|---|---|---|---|---|---|
| 8030300 | **1.72/1** | 18 | 35 | 40 | M 14x1,5 x 50 | 17 | 0.3 |
| 8030490 | **1.72/2** | 23 | 45 | 50 | M 14x1,5 x 50 | 17 | 0.4 |
| 8030570 | **1.72/3** | 27 | 56 | 60 | M 18x1,5 x 80 | 19 | 0.7 |
| 8030650 | **1.72/4** | 37 | 78 | 75 | G 1/2 x 110 | 22 | 1.7 |
| 2183323 | **1.72/4A** | 40 | 80 | 80 | G 1/2 x 140 | 22 | 2.2 |
| 2183331 | **1.72/5A** | 46 | 100 | 90 | G 3/4 x 160 | 27 | 2.8 |

## 1.73

### UNIVERSAL BALL JOINT PULLER

- For removing ball joints on cars and trucks

| Code | No. | mm | Clamping height | Fork depth | |
|---|---|---|---|---|---|
| 8030810 | **1.73/1** | 23 | 65 | 24 | 0.7 |
| 8033240 | **1.73/3** | 32 | 85 | 28 | 2.5 |

## 1.74

### UNIVERSAL BALL JOINT PULLER

- For removing the ball joint journals on track rods, stabilizers, etc.
- Simple operation due to slender lower part and 2-stage lever position

| Code | No. | mm | Clamping height | Fork depth | |
|---|---|---|---|---|---|
| 8085200 | **1.74/1** | 20 | 12-50 | 35 | 1.4 |
| 8085390 | **1.74/2** | 20 | 50-80 | 35 | 1.7 |

# OIL FILTER HOOK

## 1.75

### OIL FILTER HOOK 3-arm pattern

- For removing firmly seated oil filters
- With 3/8" female square drive and adaptor 17 mm external

3/8"

| Code | No. | mm | |
|---|---|---|---|
| 8117420 | **1.75/1** | 60-120 | 0.7 |

## 1.76

### CARTRIDGE SPANNER 3-arm pattern

- For tightening and removing
- Especially suitable for removing firmly seated granulate cartridges of compressed air dryers on HGV, e.g. Mercedes Benz, MAN, etc.
- Great clamping reach (from 95 to 165 mm)
- The GEDORE cartridge spanner is also usable as oil filter key
- Zinc-plated
- Drive 1/2"

1/2"

| Code | No. | □" | □ | mm | |
|---|---|---|---|---|---|
| 1523651 | **1.76/1** | 1/2 | 12.5 | 95-165 | 1.420 |

Quantities in packs may vary.

# SPECIAL AUTOMOTIVE TOOLS

## 1.64

### DRIVE SHAFT PULLER

- Suitable for drive shafts with 4 or 5 apertures
- For wheel stud circles 100-155 mm with 6 mm screws
- For tapped holes up to max. M14
- **Operation:** The puller is attached to the drive shaft flange using the nuts of the wheel bolts. By striking the spindle head with the sliding hammer, the shaft may be removed easily and without damage.

| Code | No. | mm | |
|---|---|---|---|
| 8026700 | **1.64/1** | 24 | 4.5 |

## 1.65

### PULLING FLANGE heavy-duty pattern

- For wheels and discs with tapped holes up to M16
- The flange is fitted with slots for hole pitches of 180, 120, and 90 degrees
- Additional holes may be drilled to render the flange suitable for other pitches and aperture diameters
- A very sturdy model for heavy parts and the highest requirements

| Code | No. | | |
|---|---|---|---|
| 8027000 | **1.65/1** | G 1.1/4 x 270 | 16.0 |

## 1.66

### PULLING FLANGE

- For wheels and discs with tapped holes up to M10
- The flange is fitted with slots for hole pitches of 180 and 120 degrees
- No. 1.66/11 with one pair each of long (135 mm) and short (85 mm) hooks and a protective cap for the thread of the steering column

| Code | No. | | mm | |
|---|---|---|---|---|
| 8027510 | **1.66/1** | M 12 x 110 | 14 | 0.7 |
| 8027780 | **1.66/11** | M 12 x 110 | 14 | 1.1 |

## 1.67

### STEERING-WHEEL PULLER for cars

- Contains 1 pair of short legs, 1 pair of long legs, and a protective cap for the thread of the steering column

| Code | No. | Clamping reach | Leg length up to | | mm | |
|---|---|---|---|---|---|---|
| 8028240 | **1.67/1** | 35-90 | 135 | M 14x1,5 x 150 | 17 | 0.9 |

## 1.68

### STEERING-WHEEL PULLER

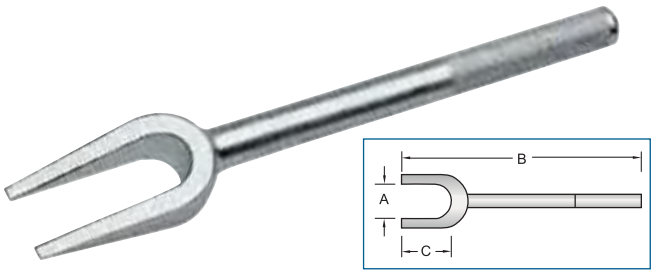
- Featuring 1 pulling ring each with 100 mm and 150 mm diameter for 3-spoke and 4-spoke steering wheels
- To protect the steering-wheels, the pulling rings are fitted with sliding rubber sleeves

| Code | No. | Leg length | | mm | |
|---|---|---|---|---|---|
| 8028750 | **1.68/1** | 120 | M 18 x 170 | 19 | 2.0 |

## 1.70

### DISMANTLING AND ASSEMBLY FORK

- For fast removal of track rod and push rod ends, steering arms, and other steering parts
- Also suitable for removing shock absorbers and other separating and dismantling work
- The forks are suitable for use in the most confined spaces
- Hammer blows on the handle ends are used to separate the parts




| Code | No. | A | B | C | |
|---|---|---|---|---|---|
| 8029210 | **1.70/1** | 18 | 340 | 80 | 0.8 |
| 8029480 | **1.70/2** | 23 | 340 | 80 | 0.9 |
| 8029560 | **1.70/3** | 29 | 350 | 90 | 1.1 |
| 8029640 | **1.70/4** | 40 | 350 | 90 | 1.2 |
| 8085040 | **1.70/5** | 45 | 355 | 95 | 1.2 |



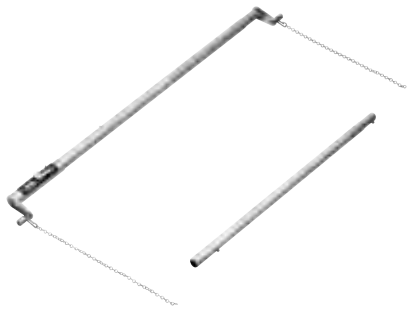
Quantities in packs may vary.

# TRACK ALIGNMENT GAUGE

## 3.01

### TRACK ALIGNMENT GAUGE

- For inside measurement
- Suitable for all vehicle types
- With simple, telescopic length adjustment
- Immediate track-difference readings may be taken from the millimetre scale
- Extensive measurement range from 835 to 1500 mm, and with extensions up to 2100 mm
- Track difference measurable from 0-35 mm
- Notes on Use: The vehicle to be tested must be standing on level ground. The front wheels must be set for running straight ahead and have the same tyre pressure. The play in the steering linkage must be removed by pressing the front wheels apart. The track alignment gauge must be set roughly at the axle centre-line between the front tyres in such a manner that the two chain ends contact the ground. The scale is set a "0". The car is allowed to roll forward approx. one half turn of the wheel, until the chain ends again contact the ground. The track difference may then be read off on the scale.



| Code | No. | Description | Measurement range mm | |
|---|---|---|---|---|
| 8033080 | **3.01** | Track alignment gauge 835-1500 mm | 835-1500 | 1.9 |
| 8033160 | **3.01/V** | Extension for track alignment gauge 1500-2100 mm | 1500-2100 | 0.6 |

### Notes on use 3.01

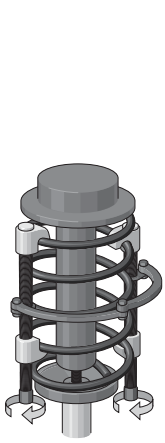
The vehicle to be tested must be standing on level ground. The front wheels must be set for running straight ahead and have the same tyre pressure. The play in the steering linkage must be removed by pressing the front wheels apart. The track alignment gauge must be set roughly at the axle centre-line between the front tyres in such a manner that the two chain ends contact the ground. The scale is set a "0". The car is allowed to roll forward approx. one half turn of the wheel, until the chain ends again contact the ground. The track difference may then be read off on the scale.

# SPRING COMPRESSOR

## 1.78/S

### SAFETY COIL SPRING COMPRESSOR

- For the safe installation and removal of coil springs with a diameter of 110-180 mm
- **Safety note:** When the spindles are tightened evenly, the clamping heads grip the coils tightly, rendering sideways slip impossible
- VPA-GS-tested safety



| Code | No. | Clamping reach | |
|---|---|---|---|
| 8031110 | **1.78/S1** | 140 | 1.8 |
| 8031380 | **1.78/S2** | 240 | 2.2 |
| 8031460 | **1.78/S3** | 340 | 2.6 |

## 1.78/P

### UNIVERSAL COIL SPRING COMPRESSOR

- For MacPherson suspension strut and transverse link axles with spring diameters of 110-180 mm
- The hooks are drop forged
- The wide support rests are matched to the coil spring pitch
- VPA-GS-tested safety
- PK = with plastic cap

| Code | No. | Clamping reach | max. t | |
|---|---|---|---|---|
| 8111300 | **1.78/P1** | 240 | 3.5 | 2.6 |
| 8031030 | **1.78/PK1** | 240 | 3.5 | 2.5 |

## 1.79

### SPRING SPREADER

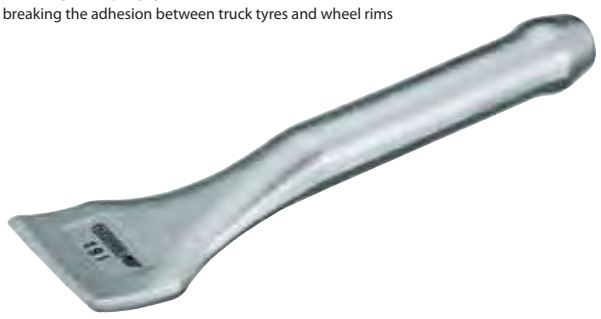
- Especially designed for VAG exhaust installations, where the pipe is not held by bolts to the exhaust manifold, but clamped on using springs

| Code | No. | |
|---|---|---|
| 8112540 | **1.79/1** | 0.4 |

## 1.91

### TYRE REMOVING TOOL

- For breaking the adhesion between truck tyres and wheel rims



| Code | No. | ⟷ mm ⟷ | |
|---|---|---|---|
| 8032270 | **1.91** | 300 | 2.0 |

Quantities in packs may vary.

# ACCESSORIES

## 1.26

### NUT SPLITTER

- For splitting jammed or stripped nuts without damaging the bolt thread
- Suitable for nuts up to property class 6

| Code | No. | for nuts | | mm | |
|---|---|---|---|---|---|
| 8009880 | **1.26/1** | 10-17 mm, M6-M10 | M 14x1,5 x 37 | 17 | 0.3 |
| 8009610 | **1.26/2** | 17-24 mm, M10-M16 | M 14x1,5 x 37 | 17 | 0.3 |
| 8010030 | **1.26/3** | 24-36 mm, M16-M24 | M 22x1,5 x 70 | 24 | 1.1 |

| Code | No. | Description | |
|---|---|---|---|
| 2017016 | **1.26/M1** | Spare chisel for 1.26/1 + /2 | 40 |
| 2017024 | **1.26/M3** | Spare chisel for 1.26/3 | 50 |

## 1.26/K

### NUT SPLITTER SET

- For nuts from size 10 mm (M6) to size 36 mm (M24), including spare chisel
- In plastic case with Check-Tool insert

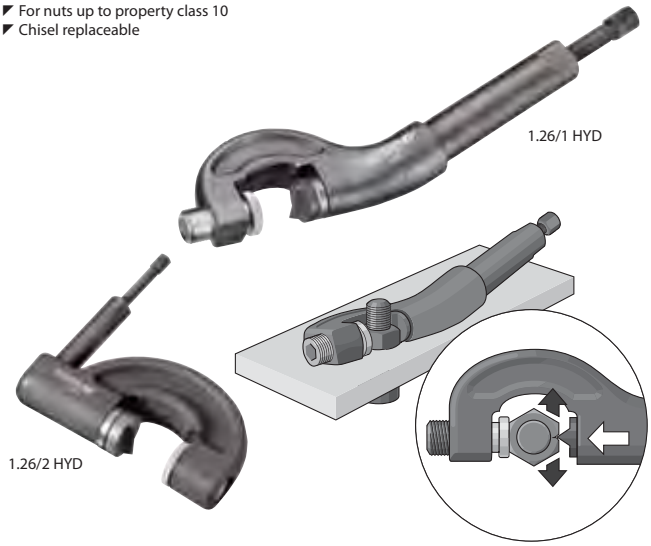
| Code | No. | Contents | |
|---|---|---|---|
| 2017008 | **1.26/K-3** | as below stated | 2.5 |

| Code | No. | Description | Qty. |
|---|---|---|---|
| 8009880 | **1.26/1** | Nut splitter 10-17 mm, M6-M10 | 1 |
| 8009610 | **1.26/2** | Nut splitter 17-24 mm, M10-M16 | 1 |
| 8010030 | **1.26/3** | Nut splitter 24-36 mm, M16-M24 | 1 |
| 2017016 | **1.26/M1** | Spare chisel for 1.26/1 + /2 | 2 |
| 2017024 | **1.26/M3** | Spare chisel for 1.26/3 | 1 |

## 1.26/HYD

### NUT SPLITTER hydraulic

- With strong chisel, additionally induction hardened
- At the cutting edge for breakage resistance
- The chamfer at the chisel's edge improves the splitting effect and prevents breakage
- With smooth chisel function
- Channel walls rolled, thus mirror-smooth and wear resistant
- For nuts up to property class 10
- Chisel replaceable



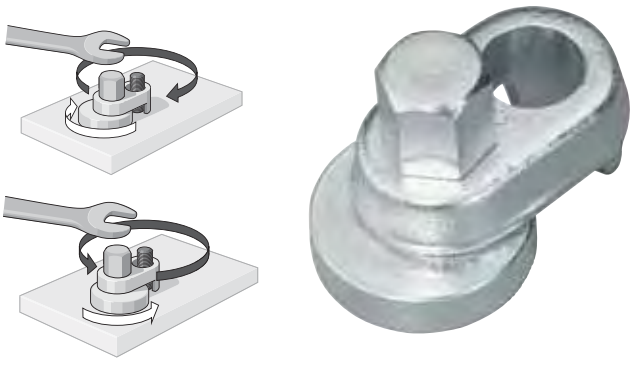

| Code | No. | for nuts | mm | max. t | |
|---|---|---|---|---|---|
| 8009450 | **1.26/1 HYD** | 7-22 mm, M4-M14 | 12 | 5.0 | 0.8 |
| 8009530 | **1.26/2 HYD** | 22-36 mm, M14-M24 | 12 | 13.0 | 3.4 |

| Code | No. | Description | |
|---|---|---|---|
| 2018586 | **1.26/M1 HYD** | Spare chisel for 1.26/1 HYD | 20 |
| 2043920 | **1.26/M2 HYD** | Spare chisel for 1.26/2 HYD | 112 |

## 1.28

### STUD EXTRACTOR

- For inserting and removing studs
- Even suitable for extremely short stud ends



| Code | No. | Ø-Stud | mm | |
|---|---|---|---|---|
| 8010620 | **1.28/1** | 6-13 | 19 | 0.2 |
| 8010700 | **1.28/2** | 8-19 | 19 | 0.3 |
| 8010890 | **1.28/3** | 19-25 | 19 | 0.4 |

## 1.28/4

### STUD EXTRACTOR

- For inserting and removing studs
- Even suitable for extremely short stud ends

| Code | No. | Ø-Stud | mm | |
|---|---|---|---|---|
| 1465031 | **1.28/4** | 5-26 | 19 | 0.6 |



Quantities in packs may vary.

## 1.44

### PULLING CHUCK

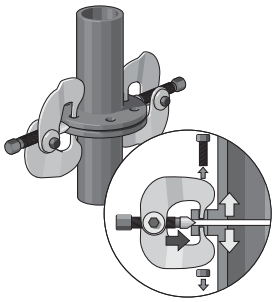
- For removing the inner races of dynamos, magnetos, motors, and other machine parts
- Simple operation by tightening the cap nut

| Code | No. | Clamping reach | Clamping depth | |
|---|---|---|---|---|
| 8022040 | **1.44/1** | 5-32 | 125 | 1.4 |

## 1.90

### FLANGE SEPARATORS (pair)

- For separating DIN standard flanges on pipes when changing seals and doing maintenance work
- For Ø 80-250 mm and screw threads M16-M24
- Use: Always use the separators in pairs and attach them to opposite sides of the flange. When the two spindles are turned alternately, the flanges will be separated from one another evenly. When the spindles are turned back alternately, this guarantees a perfect fitting of the flanges in their original position. Always use in pairs! Press in opposite directions at 180°!

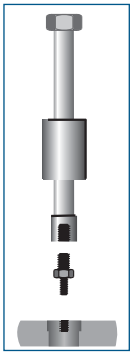


| Code | No. | for screw threads | Ø | |
|---|---|---|---|---|
| 1596403 | **1.90/1** | M16 - M24 | 80-250 | 5.5 |

## 1.81/1 + 2

### SET OF THREADED INSERTS for 1-hole uses

- The threaded inserts make the removal of threaded caps, for example, possible, when these possess one threaded hole
- No. 1.81/1: For sliding hammers 1.35/1, 1.35/2, counter-support brace 1.36/1
- No. 1.81/2: For sliding hammers 1.35/2, 1.36/2, counter-support brace 1.36/3

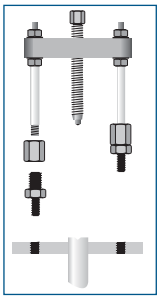


| Code | No. | Connecting thread M | |
|---|---|---|---|
| 1120727 | **1.81/1** | M10 - M4 M10 - M5 M10 - M6 M10 - M8 M10 - M10 M10 - M12 | 340 |
| 1120743 | **1.81/2** | M14x1,5 - M8 M14x1,5 - M10 M14x1,5 - M12 M14x1,5 - M14 M14x1,5 - M16 M14x1,5 - M18 | 490 |

## 1.81/10 + 20

### SET OF THREADED INSERTS for 1-hole and 2-hole uses, 2 each

- The threaded inserts make the removal of threaded caps, for example, possible, when these possess one or two threaded holes
- No. 1.81/10: For separator puller 1.38/0, 1.38/1
- No. 1.81/20: For separator puller 1.38/2

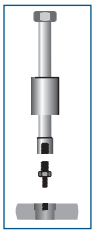


| Code | No. | Connecting thread M | |
|---|---|---|---|
| 1120735 | **1.81/10** | M10 - M4 M10 - M5 M10 - M6 M10 - M8 M10 - M10 M10 - M12 | 670 |
| 1120751 | **1.81/20** | M14x1,5 - M8 M14x1,5 - M10 M14x1,5 - M12 M14x1,5 - M14 M14x1,5 - M16 M14x1,5 - M18 | 1222 |

## 1.81/K

### SET OF THREADED INSERTS for 1-hole uses

- The threaded inserts make the removal of threaded caps, for example, possible, when these possess one threaded hole
- No. 1.81/K-1: With sliding hammer 1.35/1, rod 230 mm and impact weight 200 g
- No. 1.81/K-12: With sliding hammer 1.35/1A, rod 230 mm and impact weight 700 g, adaptor M14x1,5
- No. 1.81/K-112: With sliding hammer 1.35/1A, rod 230 mm, impact weight 200 + 700 g, adaptor M14x1,5
- In robust plastic case, 275 x 229 x 83 mm



1.81/K-1

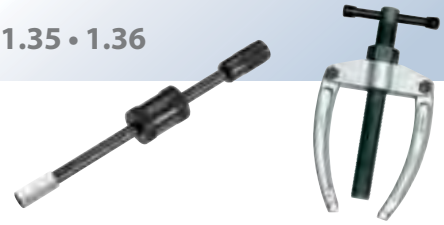
1.81/K-112

1.81/K-12

| Code | No. | Connecting thread M | |
|---|---|---|---|
| 1936549 | **1.81/K-1** | M10 - M4 M10 - M5 M10 - M6 M10 - M8 M10 - M10 M10 - M12 | 1000 |
| 1936557 | **1.81/K-12** | M10 - M4 M10 - M5 M10 - M6 M10 - M8 M10 - M10 M10 - M12 M14x1,5 - M14 M14x1,5 - M16 M14x1,5 - M18 | 1830 |
| 2142902 | **1.81/K-112** | M10 - M4 M10 - M5 M10 - M6 M10 - M8 M10 - M10 M10 - M12 M14x1,5 - M14 M14x1,5 - M16 M14x1,5 - M18 | 2030 |

1.35 • 1.36

449



Quantities in packs may vary.

# ADD-ON SYSTEMS

**Individual wall-boards available on request!**

## 1.18/1.19

### PULLER SET

- This perforated panel offers place for 12 pullers of the series 1.18 and 1.19

| Code | No. | Contents | |
|---|---|---|---|
| 1824007 | **1.18/1.19** | 2-arm Puller<br>1.18/1 1.18/2 1.18/3<br>3-arm Puller<br>1.19/1 1.19/2 1.19/3<br>2-arm-Fan puller<br>1.18/0 1.18/01 1.18/02<br>3-arm Fan puller<br>1.19/0 1.19/01 1.19/02 | 21.0 |

## 2.10

### AUTOMOBILE WORKSHOP SET Add-on system

- Clearly arranged module system
- Everything at hand on perforated wall-board

| Code | No. | Contents | |
|---|---|---|---|
| 1088696 | **2.10** | as below stated | 13.3 |

| Code | No. | Description | Qty. |
|---|---|---|---|
| 1076469 | **106/103** | Cross-beam, 2-arm pattern, 140 mm | 1 |
| 1076981 | **107/103** | Cross-beam, 3-arm pattern, 140 mm | 1 |
| 1120514 | **106/A-100-N** | Pulling leg, 100 mm | 3 |
| 1175343 | **106/A-100-S** | Pulling leg, slim pattern, 100 mm | 3 |
| 1084488 | **1.1406140** | Spindle 17 mm, M14x1.5, 140 mm | 1 |
| 8003840 | **1.12/02** | Battery-terminal puller, 2-arm pattern 60x40 mm | 1 |
| 8009610 | **1.26/2** | Nut splitter 17-24 mm, M10-M16 | 1 |
| 8010700 | **1.28/2** | Stud extractor 8-19 mm | 1 |
| 8029480 | **1.70/2** | Dismantling and assembly fork 23 mm | 1 |
| 8030810 | **1.73/1** | Universal ball joint puller 65x23 mm | 1 |
| 8117420 | **1.75/1** | Oil filter hook 3-arm pattern 60-120 mm | 1 |

## 2.20

### TRUCK WORKSHOP SET Add-on system

- Clearly arranged module system
- Everything at hand on perforated wall-board

| Code | No. | Contents | |
|---|---|---|---|
| 1088718 | **2.20** | as below stated | 23.3 |

| Code | No. | Description | Qty. |
|---|---|---|---|
| 1076612 | **106/2A03** | Cross-beam, 2-arm pattern, 260 mm | 1 |
| 1077023 | **107/2A03** | Cross-beam, 3-arm pattern, 260 mm | 1 |
| 1120530 | **106/B-150-N** | Pulling leg, 150 mm | 3 |
| 1175475 | **106/B-220-S** | Pulling leg, slim pattern, 220 mm | 3 |
| 1123947 | **106/B-300-N** | Pulling leg, 300 mm | 3 |
| 1084593 | **1.2106210** | Spindle 22 mm, G 1/2", 210 mm | 1 |
| 8116100 | **1.06/HSP1** | Hydraulic pressure spindle 10 t | 1 |
| 8019840 | **1.40/2** | Bearing separator 22-115 mm | 1 |

## 2.30

### INDUSTRIAL PULLING SET Add-on system

- For the assembly of the tried and tested 1.06 and 1.07 versions
- Using this set, you will be able to assemble more than 12 of the usual versions with high-speed clamping legs, including hydraulic spindle, in seconds

| Code | No. | Contents | |
|---|---|---|---|
| 1393014 | **2.30** | as below stated | 19.4 |

| Code | No. | Description | Qty. |
|---|---|---|---|
| 1076469 | **106/103** | Cross-beam, 2-arm pattern, 140 mm | 1 |
| 1076485 | **106/1A03** | Cross-beam, 2-arm pattern, 180 mm | 1 |
| 1076590 | **106/203** | Cross-beam, 2-arm pattern, 220 mm | 1 |
| 1076612 | **106/2A03** | Cross-beam, 2-arm pattern, 260 mm | 1 |
| 1076981 | **107/103** | Cross-beam, 3-arm pattern, 140 mm | 1 |
| 1077007 | **107/1A03** | Cross-beam, 3-arm pattern, 180 mm | 1 |
| 1077015 | **107/203** | Cross-beam, 3-arm pattern, 220 mm | 1 |
| 1077023 | **107/2A03** | Cross-beam, 3-arm pattern, 260 mm | 1 |
| 1084488 | **1.1406140** | Spindle 17 mm, M14x1.5, 140 mm | 1 |
| 1084593 | **1.2106210** | Spindle 22 mm, G 1/2", 210 mm | 1 |
| 8116100 | **1.06/HSP1** | Hydraulic pressure spindle 10 t | 1 |
| 1178199 | **106/A-100-E** | Quick-release pulling leg 100 mm | 3 |
| 1178253 | **106/B-150-E** | Quick-release pulling leg 150 mm | 3 |



Quantities in packs may vary.

## 2.30-B

### INDUSTRIAL PULLING SET WITH LEG BRAKE Add-on system

- For the assembly of the tried and tested 1.06 and 1.07 versions
- Using this set, you will be able to assemble more than 12 of the usual versions with high-speed clamping legs, including hydraulic spindle, in seconds
- 2-arm cross-beams with scale for uniform adjustment of the puller legs. Allows centred pulling, with optimised application of force, even when extremely high pulling forces are required
- Leg brake prevents unintentional leg slipping. The leg can be slid along the cross-beam at the push of a button

| Code | No. | Contents | |
|---|---|---|---|
| 2017032 | **2.30-B** | as below stated | 19.4 |

| Code | No. | Description | Qty. |
|---|---|---|---|
| 1076469 | **106/103** | Cross-beam, 2-arm pattern, 140 mm | 1 |
| 1076485 | **106/1A03** | Cross-beam, 2-arm pattern, 180 mm | 1 |
| 1076590 | **106/203** | Cross-beam, 2-arm pattern, 220 mm | 1 |
| 1076612 | **106/2A03** | Cross-beam, 2-arm pattern, 260 mm | 1 |
| 1076981 | **107/103** | Cross-beam, 3-arm pattern, 140 mm | 1 |
| 1077007 | **107/1A03** | Cross-beam, 3-arm pattern, 180 mm | 1 |
| 1077015 | **107/203** | Cross-beam, 3-arm pattern, 220 mm | 1 |
| 1077023 | **107/2A03** | Cross-beam, 3-arm pattern, 260 mm | 1 |
| 1084488 | **1.1406140** | Spindle 17 mm, M14x1.5, 140 mm | 1 |
| 1084593 | **1.2106210** | Spindle 22 mm, G 1/2", 210 mm | 1 |
| 8116100 | **1.06/HSP1** | Hydraulic pressure spindle 10 t | 1 |
| 1970534 | **106/A-100-B** | Pulling leg, all steel, leg brake, 100 mm | 3 |
| 1970542 | **106/B-150-B** | Pulling leg, all steel, leg brake, 150 mm | 3 |

## 2.40

### PULLING SET FOR CONSTRUCTION MACHINES Add-on system

- For the assembly of the robust and handy strap-pattern pulling tools 1.14 and 1.15
- With this set, you will be able to assemble 10 of the usual flexible strap-pattern pulling tools from the range 1.14/1.15, including the new hydraulic spindle

| Code | No. | Contents | |
|---|---|---|---|
| 1393030 | **2.40** | as below stated | 24.3 |

| Code | No. | Description | Qty. |
|---|---|---|---|
| 1077856 | **114/204** | Head | 1 |
| 1077910 | **114/304** | Head | 1 |
| 1078054 | **115/204** | Head | 1 |
| 1078070 | **115/304** | Head | 1 |
| 1084569 | **1.1806200** | Spindle 19 mm, M18x1.5, 200 mm | 1 |
| 1084631 | **1.2106250** | Spindle 22 mm, G 1/2", 250 mm | 1 |
| 8116100 | **1.06/HSP1** | Hydraulic pressure spindle 10 t | 1 |
| 1077821 | **114/201** | Pulling leg, 210 mm | 3 |
| 1077899 | **114/301** | Pulling leg, 260 mm | 3 |
| 1077953 | **114/401** | Pulling leg, 390 mm | 3 |
| 1077872 | **114/208** | Strap | 6 |
| 1077937 | **114/308** | Strap | 12 |

## 2.50

### SET OF INTERNAL AND EXTERNAL EXTRACTORS

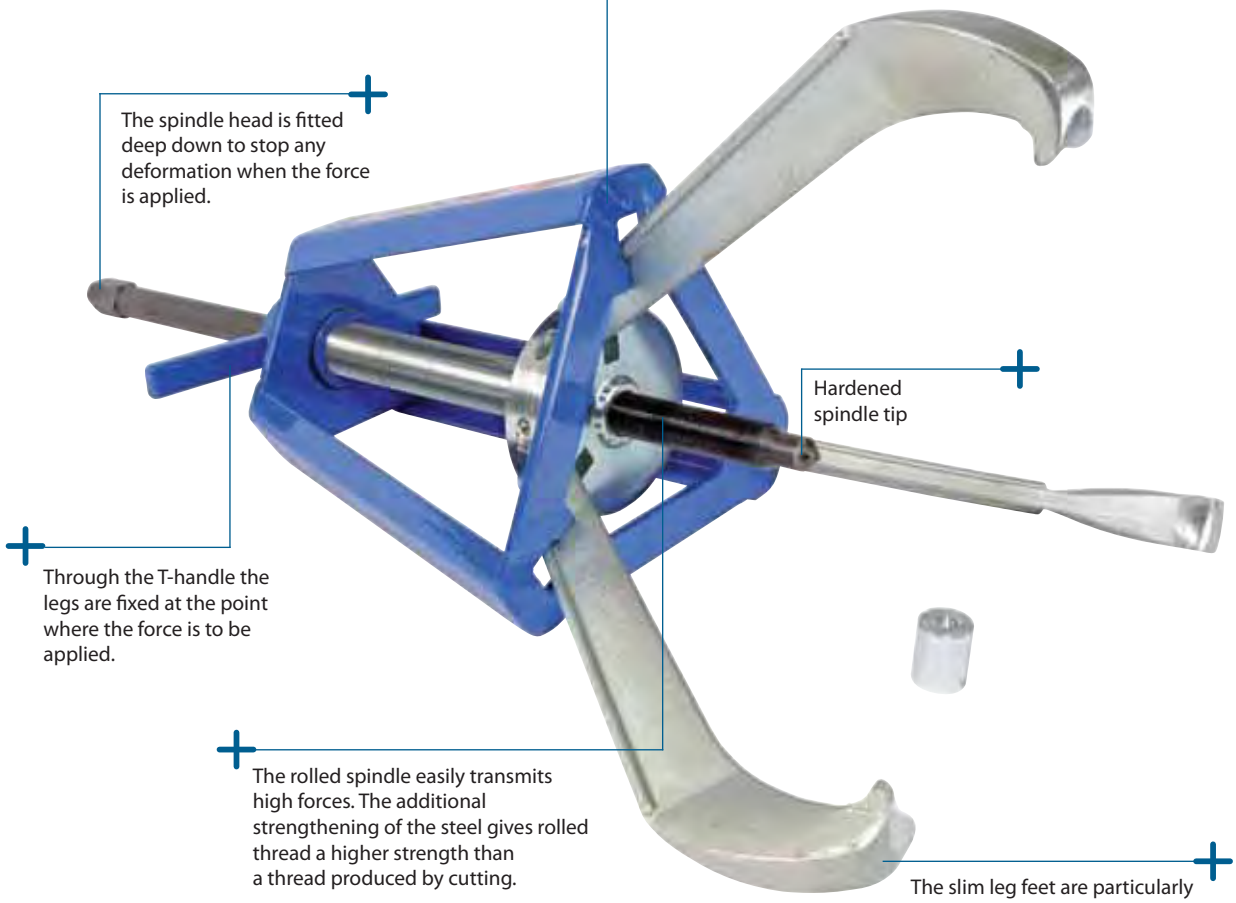
- Suitable for various applications of external or internal extraction
- Internal extractors for bores with Ø 5 - 55 mm. To use in connection with sliding hammer or counter-support braces
- External extractors with various clamping depths up to 130 mm
- Separators and pullers incl. extension rods, ideal for removing tightly-seated or thin-walled parts for outer diameter 5 - 115 mm

| Code | No. | Contents | |
|---|---|---|---|
| 2017040 | **2.50** | as below stated | 29.0 |

| Code | No. | Description | Qty. |
|---|---|---|---|
| 8012750 | **1.30/0** | Internal extractor 5-8 mm | 1 |
| 8012830 | **1.30/1** | Internal extractor 8-12 mm | 1 |
| 8012910 | **1.30/2** | Internal extractor 12-15 mm | 1 |
| 8013130 | **1.30/3** | Internal extractor 15-19 mm | 1 |
| 8013480 | **1.30/4** | Internal extractor 19-25 mm | 1 |
| 8013560 | **1.30/4A** | Internal extractor 25-30 mm | 1 |
| 8013640 | **1.30/5** | Internal extractor 30-35 mm | 1 |
| 8013720 | **1.30/6** | Internal extractor 35-45 mm | 1 |
| 8013800 | **1.30/7** | Internal extractor 45-55 mm | 1 |
| 1958070 | **1.35/1A** | Sliding hammer 230 mm, 700 g | 1 |
| 8039010 | **1.35/2** | Sliding hammer 500 mm, 1.7 kg | 1 |
| 8016580 | **1.36/1** | Counter-support brace for 1.30/0 - 1.30/5 | 1 |
| 8016660 | **1.36/2** | Counter-support brace for 1.30/6 - 1.30/8 | 1 |
| 1868152 | **1.04/HP1A** | Universal puller HIGH POWER 2-arm pattern 130x100 mm | 1 |
| 1628410 | **1.13/00** | Battery-terminal puller, 3-arm pattern 70x80 mm | 1 |
| 8084580 | **1.23/1S** | Puller 80x85 mm | 1 |
| 8017550 | **1.38/0** | Separator puller 40-120 mm | 1 |
| 8017710 | **1.38/2** | Separator puller 70-215 mm | 1 |
| 8018440 | **1.38/AV** | Extension rod M10 | 1 |
| 8018520 | **1.38/CV** | Extension rod M14x1.5 | 1 |
| 8019680 | **1.40/0** | Bearing separator 5-60 mm | 1 |
| 8019840 | **1.40/2** | Bearing separator 22-115 mm | 1 |

Quantities in packs may vary.

- The 2- and 3-arm pullers are suitable for the removal of ball bearings, pulleys, wheels, and other close-fitting components
- Cage and T-handle enable easy and fast operation - opening, closing, locking and aligning of the legs by simply turning the T-handle
- The product range offers a wide variety of clamping widths and depths, and load limits




## The cage is the key for safe pulling …

... as through the cage, the legs are fixed at the point where the force is to be applied - thus the legs cannot slip off, even on a small contact surface.

Depending on the model, different accessories complete the extractor usefully: Spindle protection, spindle extension, transport cart and extended legs for larger clamping widths and depths can simplify the work and upgrade the puller for more pulling situations.

All spare parts and accessories for manual pullers are listed on page 468

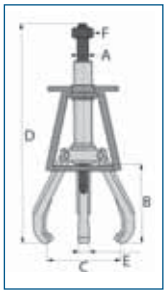


Quantities in packs may vary.

## 8.06

### MANUAL HEAVY-DUTY PULLER 2-arm pattern

- Suitable for the removal of ball bearings, pulleys, wheels, and other close-fitting components
- Cage and T-handle enable easy and fast operation - opening, closing, locking and aligning of the legs by simply turning the T-handle
- The product range offers a wide variety of clamping widths and depths, and load limits
- Legs drop forged
- Through the cage, the legs are fixed at the point where the force is to be applied - thus the legs cannot slip off, even on a small contact surface
- Upgradeable with spindle extension and extended legs

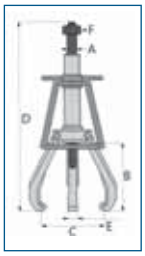


| Code | No. | Ø spindle A | max. clamping reach B | max. clamping width B | max. t | max. torque N·m | Total height D | Width of hooked foot E | Actuating Hexagon F | optional long legs | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2207176 | **8.06/6** | 19,0 | 246 | 25-381 | 12 | 237 | 518.4 | 25.4 | 24.0 | 806/601L | 5.9 |
| 2207311 | **8.06/7** | 28,5 | 305 | 64-457 | 22 | 642 | 692.2 | 32.0 | 30.0 | 806/701L | 17.5 |
| 2207435 | **8.06/8** | 30,0 | 356 | 76-635 | 31 | 1085 | 813.8 | 38.0 | 30.0 | --- | 27.0 |

## 8.07

### MANUAL HEAVY-DUTY PULLER 3-arm pattern

- Suitable for the removal of ball bearings, pulleys, wheels, and other close-fitting components
- Cage and T-handle enable easy and fast operation - opening, closing, locking and aligning of the legs by simply turning the T-handle
- The product range offers a wide variety of clamping widths and depths, and load limits
- Legs drop forged
- Through the cage, the legs are fixed at the point where the force is to be applied - thus the legs cannot slip off, even on a small contact surface
- Upgradeable with spindle extension and extended legs

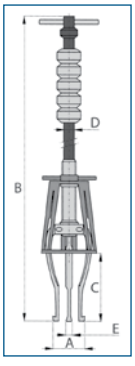


| Code | No. | Ø spindle A | max. clamping reach B | max. clamping width B | max. t | max. torque N·m | Total height D | Width of hooked foot E | Actuating Hexagon F | optional long legs | optional extra long legs | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2206870 | **8.07/4** | 15,8 | 152 | 13-178 | 9 | 176 | 338.3 | 19.0 | 19 | --- | --- | 3.6 |
| 2206994 | **8.07/5** | 19,0 | 203 | 19-305 | 15 | 299 | 412.8 | 22.2 | 24 | 806/601 | 806/601L | 5.9 |
| 2207079 | **8.07/6** | 19,0 | 246 | 25-381 | 18 | 373 | 518.4 | 25.4 | 24 | 806/601L | --- | 6.8 |
| 2207206 | **8.07/7** | 28,5 | 305 | 64-457 | 27 | 811 | 692.2 | 32.0 | 30 | 806/701L | --- | 20.0 |
| 2207354 | **8.07/8** | 30,0 | 356 | 76-635 | 36 | 1152 | 813.8 | 38.0 | 30 | --- | --- | 31.0 |

## 8.31/1

### MANUAL HEAVY-DUTY INTERNAL PULLER SET 3-arm pattern

- Suitable for removing tightly-fitting ball bearings, seals, bushings, etc.
- Wide clamping range: two leg sets 3 pieces each
- Two impact weights 1.13 kg and 2.27 kg
- Cage and T-handle enable easy and fast operation - opening, closing, locking and aligning of the legs by simply turning the T-handle
- Legs drop forged
- Through the cage, the legs are fixed at the point where the force is to be applied - thus the legs cannot slip off, even on a small contact surface



| Code | No. | Clamping width max. short legs A | Clamping width max. long legs A | Clamping depth max. short legs C | Clamping depth max. long legs C | Height short legs B | Height long legs B | Ø Spindle D | Width of hooked foot E | |
|---|---|---|---|---|---|---|---|---|---|---|
| 2207478 | **8.31/1** | 100 | 133 | 120 | 170 | 736.6 | 787.4 | 13,2 | 8.4 | 9.0 |

Quantities in packs may vary.

# Hydraulic heavy-duty pullers

- The 2- and 3-arm pullers are suitable for the removal of ball bearings, pulleys, wheels, and other close-fitting components
- Cage and T-handle enable easy and fast operation - opening, closing, locking and aligning of the legs by simply turning the T-handle
- The product range offers a wide variety of clamping widths and depths, and load limits
- Various delivery options: Loose puller or complete set including hydraulic cylinder, pump and pressure hose

The handle is fastened at the hydraulic cylinder and is for transporting, attaching and hanging up the puller.

Through the T-handle, the legs are fixed at the point where the force is to be applied.

The cage contains the legs and in this way ensures their rapid, uniform locking, their contact stability to the part to be extracted as well as protection from shearing off parts.

The slim leg feet are particularly suitable for the removal of close-fitting components.

The pressure pads allow the cylinder to be equipped with various tips for centred and non-centred shafts.

All spare parts and accessories for hydraulic pullers are listed on page 468

Technical information about cylinder and pumps are listed on page 466 – 467

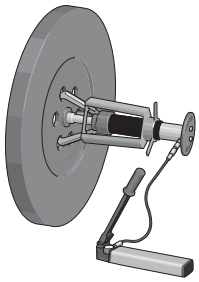


Quantities in packs may vary.

## 8.07/HYD

### HYDRAULIC HEAVY-DUTY PULLER 3-arm pattern

- Suitable for the removal of ball bearings, pulleys, wheels, and other close-fitting components
- Cage and T-handle enable easy and fast operation - opening, closing, locking and aligning of the legs by simply turning the T-handle
- The product range offers a wide variety of clamping widths and depths, and load limits
- Legs drop forged
- Through the cage, the legs are fixed at the point where the force is to be applied - thus the legs cannot slip off, even on a small contact surface
- Scope of delivery: Puller, lid with screws and various pressure pads for centred and non-centred shafts
- Upgradeable with extended legs

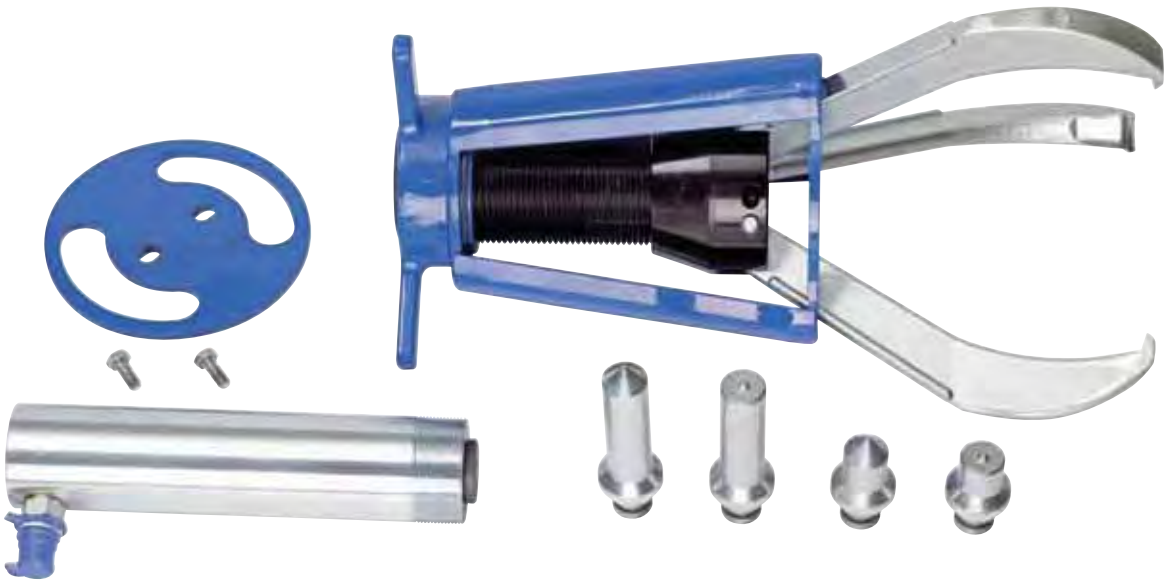


| Code | No. | max. t | max. clamping reach | max. clamping width | optional long legs | optional extra long legs | |
|---|---|---|---|---|---|---|---|
| 2207605 | **8.07/5 HYD** | 9 | 203 | 19-305 | 806/601 | 806/601L | 7.7 |
| 2207702 | **8.07/6 HYD** | 13 | 254 | 25-315 | 806/H601L | --- | 14.5 |
| 2207796 | **8.07/7 HYD** | 22 | 305 | 64-457 | 806/701L | --- | 25.0 |
| 2207915 | **8.07/8 HYD** | 45 | 356 | 76-620 | --- | --- | 45.4 |

## 8.07/HYD-Z

### HYDRAULIC HEAVY-DUTY PULLER 3-arm pattern, with hydraulic cylinder

- Suitable for the removal of ball bearings, pulleys, wheels, and other close-fitting components
- Cage and T-handle enable easy and fast operation - opening, closing, locking and aligning of the legs by simply turning the T-handle
- The product range offers a wide variety of clamping widths and depths, and load limits
- Legs drop forged
- Through the cage, the legs are fixed at the point where the force is to be applied - thus the legs cannot slip off, even on a small contact surface
- Scope of delivery: Puller, hydraulic cylinder, lid with screws and various pressure pads for centred and non-centred shafts
- Upgradeable with extended legs



| Code | No. | included in delivery | max. t | max. bar in set | max. clamping reach | max. clamping width | optional long legs | optional extra long legs | |
|---|---|---|---|---|---|---|---|---|---|
| 2209608 | **8.07/5 HYD-Z** | Hydraulic cylinder 8.51/5 | 9 | 560 | 203 | 19-305 | 806/601 | 806/601L | 11.7 |
| 2209616 | **8.07/6 HYD-Z** | Hydraulic cylinder 8.51/6 | 13 | 560 | 254 | 25-315 | 806/H601L | --- | 23.0 |
| 2209624 | **8.07/7 HYD-Z** | Hydraulic cylinder 8.51/7 | 22 | 670 | 305 | 64-457 | 806/701L | --- | 42.0 |
| 2209632 | **8.07/8 HYD-Z** | Hydraulic cylinder 8.51/8 | 45 | 620 | 356 | 76-620 | --- | --- | 80.4 |

Quantities in packs may vary.

## 8.07/HYD-M

### HYDRAULIC HEAVY-DUTY PULLER 3-arm pattern, with hydraulic cylinder and manual pump

- Suitable for the removal of ball bearings, pulleys, wheels, and other close-fitting components
- Cage and T-handle enable easy and fast operation - opening, closing, locking and aligning of the legs by simply turning the T-handle
- The product range offers a wide variety of clamping widths and depths, and load limits
- Legs drop forged
- Through the cage, the legs are fixed at the point where the force is to be applied - thus the legs cannot slip off, even on a small contact surface
- Scope of delivery: Puller, hydraulic cylinder, lid with screws and various pressure pads for centred and non-centred shafts, high-pressure hose and manual pump
- Upgradeable with extended legs

| Code | No. | included in delivery | max. t | max. bar in set | max. clamping reach | max. clamping width | optional long legs | optional extra long legs | |
|---|---|---|---|---|---|---|---|---|---|
| 2209640 | **8.07/5 HYD-M1** | Hydraulic cylinder 8.51/5 and manual pump 8.52/1 | 9 | 560 | 203 | 19-305 | 806/601 | 806/601L | 19.8 |
| 2209659 | **8.07/5 HYD-M2** | Hydraulic cylinder 8.51/5 and manual pump 8.52/2 | 9 | 560 | 203 | 19-305 | 806/601 | 806/601L | 23.9 |
| 2209705 | **8.07/6 HYD-M1** | Hydraulic cylinder 8.51/6 and manual pump 8.52/1 | 13 | 560 | 254 | 25-315 | 806/H601L | --- | 33.4 |
| 2209713 | **8.07/6 HYD-M2** | Hydraulic cylinder 8.51/6 and manual pump 8.52/2 | 13 | 560 | 254 | 25-315 | 806/H601L | --- | 35.2 |
| 2209772 | **8.07/7 HYD-M2** | Hydraulic cylinder 8.51/7 and manual pump 8.52/2 | 22 | 670 | 305 | 64-457 | 806/701L | --- | 54.2 |
| 2209829 | **8.07/8 HYD-M2** | Hydraulic cylinder 8.51/8 and manual pump 8.52/2 | 45 | 620 | 356 | 76-620 | --- | --- | 92.6 |

## 8.07/HYD-P

### HYDRAULIC HEAVY-DUTY PULLER 3-arm pattern, with hydraulic cylinder and air hydraulic pump

- Suitable for the removal of ball bearings, pulleys, wheels, and other close-fitting components
- Cage and T-handle enable easy and fast operation - opening, closing, locking and aligning of the legs by simply turning the T-handle
- The product range offers a wide variety of clamping widths and depths, and load limits
- Legs drop forged
- Through the cage, the legs are fixed at the point where the force is to be applied - thus the legs cannot slip off, even on a small contact surface
- Scope of delivery: Puller, hydraulic cylinder, lid with screws and various pressure pads for centred and non-centred shafts, high-pressure hose and air hydraulic pump
- Upgradeable with extended legs

8.07/x HYD-P1

8.07/x HYD-P2

| Code | No. | included in delivery | max. t | max. bar in set | max. clamping reach | max. clamping width | optional long legs | optional extra long legs | |
|---|---|---|---|---|---|---|---|---|---|
| 2209667 | **8.07/5 HYD-P1** | Hydraulic cylinder 8.51/5 and air hydraulic pump 8.53/1 | 9 | 560 | 203 | 19-305 | 806/601 | 806/601L | 24.5 |
| 2209675 | **8.07/5 HYD-P2** | Hydraulic cylinder 8.51/5 and air hydraulic pump 8.53/2 | 9 | 560 | 203 | 19-304 | 806/601 | 806/601L | 33.5 |
| 2209721 | **8.07/6 HYD-P1** | Hydraulic cylinder 8.51/6 and air hydraulic pump 8.53/1 | 13 | 560 | 254 | 25-315 | 806/H601L | --- | 35.8 |
| 2209748 | **8.07/6 HYD-P2** | Hydraulic cylinder 8.51/6 and air hydraulic pump 8.53/2 | 13 | 560 | 254 | 25-315 | 806/H601L | --- | 44.8 |
| 2209780 | **8.07/7 HYD-P1** | Hydraulic cylinder 8.51/7 and air hydraulic pump 8.53/1 | 22 | 670 | 305 | 64-457 | 806/701L | --- | 54.8 |
| 2209799 | **8.07/7 HYD-P2** | Hydraulic cylinder 8.51/7 and air hydraulic pump 8.53/2 | 22 | 670 | 305 | 64-457 | 806/701L | --- | 63.8 |
| 2209837 | **8.07/8 HYD-P2** | Hydraulic cylinder 8.51/8 and air hydraulic pump 8.53/2 | 45 | 620 | 356 | 76-620 | --- | --- | 102.2 |



Quantities in packs may vary.

## 8.07/HYD-E

### HYDRAULIC HEAVY-DUTY PULLER 3-arm pattern, with hydraulic cylinder and motor pump

- Suitable for the removal of ball bearings, pulleys, wheels, and other close-fitting components
- Cage and T-handle enable easy and fast operation - opening, closing, locking and aligning of the legs by simply turning the T-handle
- The product range offers a wide variety of clamping widths and depths, and load limits
- Legs drop forged
- Through the cage, the legs are fixed at the point where the force is to be applied - thus the legs cannot slip off, even on a small contact surface
- Scope of delivery: Puller, hydraulic cylinder, lid with screws and various pressure pads for centred and non-centred shafts, high-pressure hose and motor pump
- Upgradeable with extended legs

8.07/5 HYD-E2

8.07/5 HYD-E1

| Code | No. | included in delivery | max. t | max. bar in set | max. clamping reach | max. clamping width | optional long legs | optional extra long legs | |
|---|---|---|---|---|---|---|---|---|---|
| 2209683 | **8.07/5 HYD-E1** | Hydraulic cylinder 8.51/5 and motor pump 8.54/1 | 9 | 560 | 203 | 19-305 | 806/601 | 806/601L | 24.2 |
| 2209691 | **8.07/5 HYD-E2** | Hydraulic cylinder 8.51/5 and motor pump 8.54/2 | 9 | 560 | 203 | 19-305 | 806/601 | 806/601L | 29.0 |
| 2209756 | **8.07/6 HYD-E1** | Hydraulic cylinder 8.51/6 and motor pump 8.54/1 | 13 | 560 | 254 | 25-315 | 806/H601L | --- | 35.5 |
| 2209764 | **8.07/6 HYD-E2** | Hydraulic cylinder 8.51/6 and motor pump 8.54/2 | 13 | 560 | 254 | 25-315 | 806/H601L | --- | 40.3 |
| 2209802 | **8.07/7 HYD-E1** | Hydraulic cylinder 8.51/7 and motor pump 8.54/1 | 22 | 670 | 305 | 64-457 | 806/701L | --- | 54.5 |
| 2209810 | **8.07/7 HYD-E2** | Hydraulic cylinder 8.51/7 and motor pump 8.54/2 | 22 | 670 | 305 | 64-457 | 806/701L | --- | 59.3 |
| 2209845 | **8.07/8 HYD-E2** | Hydraulic cylinder 8.51/8 and motor pump 8.54/2 | 45 | 620 | 356 | 76-620 | --- | --- | 97.7 |

## 8.01

### TRANSPORT CART

- For fast and handy transport as well as convenient storage of a hydraulic puller and its accessories
- Delivery without puller and accessories

| Code | No. | |
|---|---|---|
| 2208059 | **8.01** | 29.0 |

All spare parts and accessories for hydraulic pullers are listed on page 468

Technical information about cylinder and pumps are listed on page 466 – 467

Quantities in packs may vary.

## 8.51

### HYDRAULIC CYLINDER for heavy-duty pullers

- Single-acting universal cylinder in compact design
- With spring return, large stroke length and high-quality guide belts
- The construction of the polyurethane wiper prevents that dirt can get between the piston and cylinder wall
- Piston rod of the hydraulic cylinder is especially protected against corrosion
- Delivery includes non-drip fitting and dust covers

| Code | No. | max. working pressure bar | Power kN | Power t | Stroke | Oil volume cm³ | |
|---|---|---|---|---|---|---|---|
| 2211467 | **8.51/5** | 700 | 111 | 11 | 155 | 247 | 4.0 |
| 2211475 | **8.51/6** | 700 | 166 | 17 | 254 | 603 | 8.5 |
| 2211483 | **8.51/7** | 700 | 232 | 24 | 362 | 1201 | 17.0 |
| 2211491 | **8.51/8** | 700 | 496 | 51 | 337 | 2389 | 35.0 |

## 8.52

### MANUAL PUMP for heavy-duty pullers

- With gauge for precise and controlled working
- Convenient and fast working in two-stage operation
- Needle valve for controlled discharge
- Robust aluminium tank
- Built-in safety valve
- Easy oil filling
- Return ports on all models
- Supporting feet with mounting holes
- Delivery includes non-drip coupler and dust cover

| Code | No. | max. working pressure bar | effective oil volume cm³ | Pump stroke high pressure cm³ | Pump stroke low pressure cm³ | Pump power at max. working pressure N | Gauge type | P | Pressure connection | R Flyback connection |
|---|---|---|---|---|---|---|---|---|---|---|
| 2211505 | **8.52/1** | 700 | 1000 | 2 | 20 | 320 | 850/033 | 8.1 | G 1/4" | G 1/4" |
| 2211513 | **8.52/2** | 700 | 2400 | 2 | 20 | 320 | 850/033 | 9.9 | G 1/4" | G 1/4" |

## 8.53

### AIR HYDRAULIC PUMP for heavy-duty pullers

- One-stage pump
- Working pressure up to 700 bar
- Delivery includes gauge, non-drip coupler and dust cover
- No. 8.53/1: Compact design, due to a rubber bellow in the tank useable in all positions, with oil gauge glass and silencer
- No. 8.53/2: With remote control for moving out, holding and discharging, cable length: 2.5 m

8.53/1

8.53/2

| Code | No. | max. working pressure bar | effective oil volume cm³ | Power cm³/min | necessary air pressure | | P Pressure connection | R Flyback connection | Air connection |
|---|---|---|---|---|---|---|---|---|---|
| 2211521 | **8.53/1** | 700 | 2100 | 1000-200 | 7,0-12,0 | 9.6 | G 1/4" | G 1/4" | NPT 1/4" |
| 2211548 | **8.53/2** | 700 | 9000 | 1000-200 | 6,5-12,0 | 18.4 | G 1/4" | --- | G 1/4" |

## 8.54/1

### MOTOR PUMP COMPACT for heavy-duty pullers

- Two-stage, portable motor pump in very compact design
- Useable in all positions
- Electric motor, 230 V, 50 Hz, 0.35 kW
- 3/3 way electromagnetic valve with pressure holding function for hydraulic cylinder
- Remote control with cable, 2.3 m long, control voltage 12 V
- Automatic switching: low / high pressure
- Carrying strap
- Delivery includes non-drip coupler and dust cover

| Code | No. | max. working pressure bar | Flow rate high pressure l/min | Flow rate low pressure l/min | Valve type | Oil volume cm³ | |
|---|---|---|---|---|---|---|---|
| 2211556 | **8.54/1** | 700 | 0.2 | 2.0 | 3/3 way | 1600 | 9.5 |

## 8.54/2

### MOTOR PUMP for heavy-duty pullers

- Two-stage, lightweight motor pump with plastic housing
- 3/2 way electromagnetic valve for single-acting hydraulic cylinder
- Remote control with cable, 2 m long, control voltage 24 V
- Automatic switching: low / high pressure
- Delivery includes non-drip coupler and dust cover

| Code | No. | max. working pressure bar | max. working pressure MPa | Flow rate high pressure l/min | Flow rate low pressure l/min | Valve type | Oil volume cm³ | |
|---|---|---|---|---|---|---|---|---|
| 2211564 | **8.54/2** | 700 | 70 | 0.33 | 3.3 | 3/2 way | 3790 | 15.0 |



Quantities in packs may vary.

## 850/X33

### GAUGE AND GAUGE HOLDER

- Fluid-damped
- Two scales (bar / psi)
- Measuring range from 0 to 1000 bar (15000 psi)
- No. 850/033: Gauge for manual pumps no. 8.52
- No. 850/133: Gauge for air hydraulic and motor pumps (no. 8.53 and no. 8.54)
- Please order separately gauge holder (no. 850/125) for gauge no. 850/133

| Code | No. | Measuring range | لبسلبسا | |
|---|---|---|---|---|
| 2273403 | **850/033** | 0-1000 bar / 0-15000 psi | 50 bar / 1000 psi | 160 |
| 2211610 | **850/133** | 0-1000 bar / 0-15000 psi | 50 bar / 1000 psi | 210 |
| 2211602 | **850/125** | | | 40 |

## 8.55/3

### HIGH-PRESSURE HOSE

- Oil resistant, synthetic material with steel reinforcements
- Capacity up to 800 bar working pressure
- Length 3 m, further lengths available on request
- Delivery includes non-drip coupler, fitting and dust covers

| Code | No. | max. working pressure bar | |
|---|---|---|---|
| 2211572 | **8.55/3** | 800 | 2.3 |

## 850/18X

### COUPLER AND FITTING

- With automatic locking mechanism
- Delivery includes dust cover

850/188

850/189

| Code | No. | max. working pressure MPa | max. working pressure bar | Internal thread | External thread | A | B | mm | |
|---|---|---|---|---|---|---|---|---|---|
| 2211580 | **850/188** | 100 | 1000 | G 1/4" | --- | 59 | 27.0 | 24 | 100 |
| 2211599 | **850/189** | 100 | 1000 | --- | G 1/4" | 37 | 24.5 | 22 | 100 |

## 8.06/780-257

### PRESSURE PAD SET for puller 8.07/7 HYD

| Code | No. | Contents | |
|---|---|---|---|
| 2207885 | **8.06/780-257** | consisting of: | 8.3 |

| Code | No. | Description |
|---|---|---|
| 2209918 | **806/780-251** | Cylinder tip 38 x 57 mm flat |
| 2209926 | **806/780-252** | Cylinder tip 51 x 64 mm flat |
| 2209934 | **806/780-253** | Cylinder tip 51 x 102 mm flat |
| 2209942 | **806/780-254** | Cylinder tip 38 x 64 mm conical |
| 2209950 | **806/780-255** | Cylinder tip 51 x 64 mm conical |
| 2209969 | **806/780-256** | Cylinder tip 51 x 114 mm conical |

## 8.06/580-155

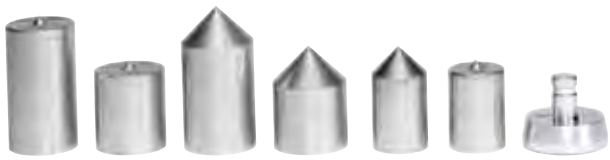
### PRESSURE PAD SET for puller 8.07/5 HYD + 8.07/6 HYD

| Code | No. | Contents | |
|---|---|---|---|
| 2207680 | **8.06/580-155** | consisting of: | 1.3 |

| Code | No. | Description |
|---|---|---|
| 2209853 | **806/580-151** | Cylinder tip 25 x 25 mm flat |
| 2209861 | **806/580-152** | Cylinder tip 25 x 76 mm flat |
| 2209888 | **806/580-153** | Cylinder tip 25 x 38 mm conical |
| 2209896 | **806/580-154** | Cylinder tip 25 x 89 mm conical |

## 8.06/880-508

### PRESSURE PAD SET for puller 8.07/8 HYD



| Code | No. | Contents | |
|---|---|---|---|
| 2208040 | **8.06/880-508** | consisting of: | 13.6 |

| Code | No. | Description |
|---|---|---|
| 2209977 | **806/880-501** | Cylinder tip 51 x 76 mm flat |
| 2209985 | **806/880-502** | Cylinder tip 70 x 76 mm flat |
| 2209993 | **806/880-503** | Cylinder tip 70 x 127 mm flat |
| 2210002 | **806/880-504** | Cylinder tip 51 x 95 mm conical |
| 2210010 | **806/880-505** | Cylinder tip 70 x 95 mm conical |
| 2210029 | **806/880-506** | Cylinder tip 70 x 140 mm conical |
| 2210037 | **806/880-507** | Adaptor |

**For more technical information see our website www.gedore.com**

Quantities in packs may vary.

## Accessories and spare parts for manual heavy-duty pullers

| Spare parts 2-arm | 8.06/6 | 8.06/7 | 8.06/8 |
|---|---|---|---|
| (1) Cage | 806/631 | 806/731 | 806/831 |
| (2) Legs | 806/601 | 806/701 | 806/801 |
| (3) Head | 806/604 | 806/704 | 806/804 |
| (4) Pin | 806/518 | 806/718 | 806/718 |
| (5) T-handle | 806/509 | 806/709 | 806/809 |
| (6) Spindle | 806/606 | 806/706 | 806/806 |
| (7) Circlip | 806/591 | 806/791 | 806/891 |
| (8) Spindle protection | 806/510 | 806/710 | 806/710 |

| Accessories 2-arm | | max. spanwidth / -depth | | max. spanwidth / -depth | |
|---|---|---|---|---|---|
| Leg long | 806/601L | 38-559 / 406 | 806/701L | 38-762 / 508 | |
| Spindle extension | 806/516 | | | | |

| Spare parts 3-arm | 8.07/4 | 8.07/5 | 8.07/6 | 8.07/7 | 8.07/8 |
|---|---|---|---|---|---|
| (1) Cage | 807/431 | 807/531 | 807/631 | 807/731 | 807/831 |
| (2) Legs | 806/401 | 806/501 | 806/601 | 806/701 | 806/801 |
| (3) Head | 807/404 | 807/504 | 807/604 | 807/704 | 807/804 |
| (4) Pin | 806/418 | 806/518 | 806/518 | 806/718 | 806/718 |
| (5) T-handle | 806/409 | 806/509 | 806/509 | 806/709 | 806/809 |
| (6) Spindle | 806/406 | 806/506 | 806/606 | 806/706 | 806/806 |
| (7) Circlip | 806/491 | 806/591 | 806/591 | 806/791 | 806/891 |
| (8) Spindle protection | 806/410 | 806/510 | 806/510 | 806/710 | 806/710 |

| Accessories 3-arm | | max. spanwidth / -depth | | max. spanwidth / -depth | | max. spanwidth / -depth | |
|---|---|---|---|---|---|---|---|
| Leg long | 806/601 | 57-381 / 154 | 806/601L | 38-559 / 406 | 806/701L | 38-762 / 508 | |
| Leg extra long | 806/601L | 38-559 / 406 | | | | | |
| Spindle extension | 806/416 | 806/516 | 806/516 | | | | |

## Accessories and spare parts for hydraulic heavy-duty pullers

| Spare parts | 8.07/5 HYD | 8.07/6 HYD | 8.07/7 HYD | 8.07/8 HYD |
|---|---|---|---|---|
| (1) Cage | 807/H531 | 807/H631 | 807/H731 | 807/H831 |
| (2) Legs | 806/501 | 806/H601 | 806/701 | 806/H801 |
| (3) Head | 807/H504 | 807/H604 | 807/H704 | 807/H804 |
| (4) Pin | 806/H518 | 806/H618 | 806/718 | 806/H818 |
| (5) T-handle | 806/H509 | 806/H609 | 806/H709 | 806/H809 |
| (6) Circlip | 806/H591 | 806/H691 | 806/H791 | 806/H891 |
| Lid | 806/H511 | 806/H511 | 806/H711 | 807/H811 |
| Pressure pad set | 8.06/580-155 | 8.06/580-155 | 8.06/780-257 | 8.06/880-508 |

| Accessories | | max. spanwidth / -depth | | max. spanwidth / -depth | | max. spanwidth / -depth | |
|---|---|---|---|---|---|---|---|
| Leg long | 806/601 | 58-401 / 249 | 806/H601L | 38-559 / 406 | 806/701L | 38-762 / 508 | |
| Leg extra long | 806/601L | 38-559 / 406 | | | | | |
| Transport cart | | | | | 8.01 | | 8.01 |

### SAFETY NOTES

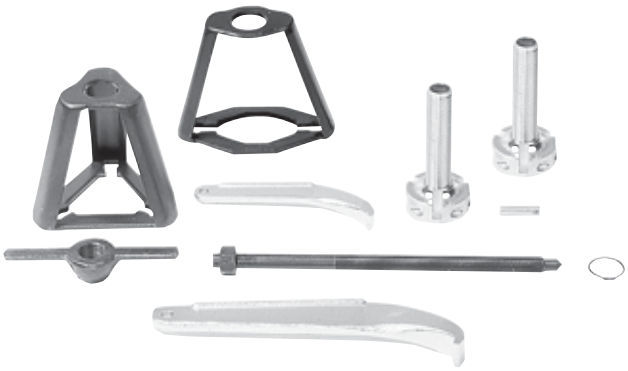
The design of GEDORE heavy-duty pullers provides for a maximum degree of safety.

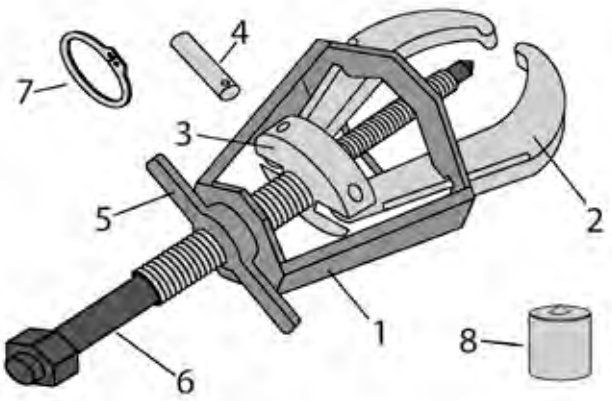
Even so, do bear in mind that extremely high forces are involved when pulling and so go about the operation carefully!

Do observe the following safety instructions when pulling is involved and make them known to those carrying out the work.

***…5.10 as a protection from shearing off components…***

- Read the operating instructions!
- Use only original spare parts and accessories for your GEDORE puller. Never use worn, modified or defective spare parts or accessories.
- Wear goggles and protective clothing when working. For added safety, use the GEDORE safety cover 5.10!
- Before pulling, ensure that the legs are in contact with the part to be pulled and are firmly tightened so that the spindle operates centrally along the axis of the puller.
- Attention! When using a puller, forces of up to several tons are generated! Take care to ensure that the puller is correctly positioned and is vertical to the component being pulled.
- Do not use electric or pneumatic power or percussion drivers.

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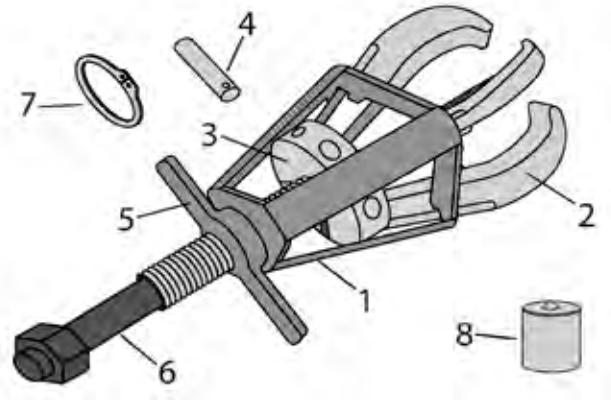
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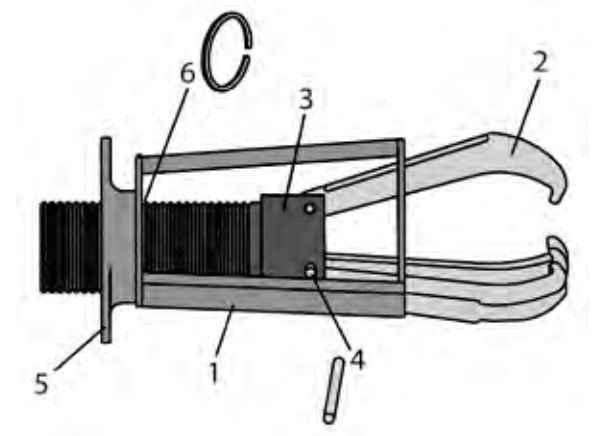
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GEDORE
ROTBAND-PLUS
GERMANY

+ for safe striking


| | |
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# GEDORE Hammers and Striking Tools

## For Rough Work and Precision Alike

- Large selection of hammers: from the tile hammer, recoilless hammer, forging tool and engineer's hammer through to the sledge hammer
- Top-grade industrial quality for the hardest of continuous uses
- Available singly or in practical sets
- Customized manufacturing and types on request

## Top quality - everything from a single source

- The base is made up of stringently controlled quality steel and meticulously selected wood
- Experienced and reliable specialists vouch for precision-like processing
- Hammer head and shaft (up to 400 mm) are made in GEDORE's own production facilities in Germany
- Stringent quality checks after each production step ensure a constantly high level

## ROTBAND-PLUS system - dependability under extreme loading

- Hammers utilize the patented ROTBAND-PLUS securing system - "no losing of heads" as a result
- The ideal aid for site work
- Models with extra inductively tempered edges of the faces

## GEDORE Striking Tools

- Large selection including chisels, center punches and drift punches
- With optional hand guard
- Also available in the range/set
- Precisely hardened and annealed - long service life

# Manufacturing process for hammers

## Hammer head

1 C45 hardened and tempered steel precisely cropped to length.

2 Hot pre-forged in a double forging die.

3 Fully forged blank.

4 De-burring of the blanks.

5 Production of the hammer eye.

6 After descaling the blank, it is machined all round in accordance with DIN 1193. The pein and face of the hammer head are additionally ground.

7 The hammer head is induction hardened to 50-58 HRC and then annealed. Care has to be taken to ensure that, within a defined measured area, the hardness deviation is no greater than 5 HRC. The hardening depth on the face and pein must be at least 3 mm. The hardness of the eye zones, however, must not exceed 30 HRC. The hammer head now has hard striking faces and a soft "shock absorber" zone. These safety-relevant values are subject to continuous monitoring. The hammer head is permanently stamped with the manufacturer's mark, weight and DIN 1041.

8 The hammer head is sand blasted to descale and degrease it.

9 Corrosion protection by stove enamelling.

10 The hammer face and pein are ground bright in accordance with DIN 1041. Attention is paid here particularly to regular clean edges and to a slight convex geometry of the face.

## Hammer shaft

1 Shaft blank from hickory. This tough wood has long fibres, making it ideal for hammer shafts. The long fibres cushion the impact in the hand. The tight annealed rings give the wood its flexural strength.

2 The square shaft blank is cut to size.

3 The hammer shaft is milled.

4 The look is improved by sanding.

5 Coating with water-soluble clear varnish.

6 The hand end is set off in mahogany staining.

7 The shaft protection sleeve is pressed on and the shaft tampon printed.

# Hammers

## Tip: How can I tell if the hammer is a reliable one?

**The hammer head must be correctly hardened and tempered**
No precision hardening and annealing - also referred to tempering - can be checked on without the use of aids. The hammer face and pein must have a hardness of between 50 and 58 HRC. Hardness must reach down to at least 3 mm. 30 HRC is not to be exceeded at the inserting eye for safety reasons.
- GEDORE manufactures on the basis of the above DIN 1193 requirements and meets them at the same time. Constant tests vouch for these figures.

**Permanent marking**
GEDORE stamps or forges the DIN 1041, the weight and the manufacturer's logo into the hammer head in a permanent and legible manner.

**Accurate 45° edge at hammer face and pein**
The edge - also referred to as chamfer - stops any dangerous splintering. GEDORE hammers have a clean-cut edge as conforming to regulations.

**Assured and firm connection/fitting of hammer shaft and head**
Take a look: are there any gaps between hammer eye and shaft? The wooden shaft must be secure and shake-free in the hammer head. The shaft/hammer head connection must be securely wedged.
GEDORE only uses tapered collars which ensure optimum distribution of the clamping force in the hammer eye.
The ROTBAND-PLUS system developed and patented by GEDORE turns every ordinary DIN hammer into a "safety hammer".

**Distinctive manufacturer's name on the hammer head**
GEDORE inscribes its hammer heads with **HB** (**H**ermann **B**remer).

**Is the shaft fault-free?**
The hammer shaft is not to have any cracks, branch holes or other faults. Nor every type of wood is suitable for hammer shafts. Hickory and ash are noted as the preferred woods in DIN 68340.
Only these two wood types are used by GEDORE in its own manufacturing process.

**Note:**
Rubber handgrip feature: make sure the handgrip is firmly bonded to the shaft. Try out the turning test. A handgrip which can still be turned on the hammer shaft does not meet the DIN-prescribed figures.

**Note:**
Intensive testing of steel tube, fibre glass and plastic shafts as to a firm fit in the hammer head is required. Preference is for hammers with an additionally secured head. The head is also positively fitted to the hammer shaft by means of a spring pin.

## Safety notes for hammers

- Wear safety glasses and safety gloves!
- Use the hammer only for its intended purpose!
- Never misuse the hammer as a lever!
- Before starting work, check that the hammer head is securely attached to the shaft!
- Select the appropriate type and size of hammer for the work to be carried out!
- Never hit two hammers together!
- Never use steel hammers on workpieces harder than 46 HRC! Use suitable plastic-faced hammers for this! In case of doubt, the healthier choice is a suitable plastic-faced hammer.
- Avoid bouncing blows!
- Use only the work faces of the hammer! Blows with the side face damage the non-hardened hammer eye. This can loosen the grip of the shaft in the hammer head.
- If a burr forms on the pein or face of the hammer head, this must be immediately removed. Failure to do this can pose the risk of splintering when the hammer is in use.
- Grip the hammer shaft as far away from the hammer head as possible! This improves the impact effect and avoids vibrations.
- Do not store hammers with wooden shafts in warm, dry environments! Wood is a natural product. Dry, warm storage conditions cause the shaft to lose moisture and shrink, so that the hammer shaft is no longer a tight fit in the hammer head. Opposite storage conditions also have a negative effect on the wooden shaft. Do not store the wooden shaft in too damp conditions! Too much moisture causes the wooden shaft to swell up and damages the wooden fibres. This can result in the wooden shaft snapping behind the eye area.
- Use only approved non-sparking hammers for work in explosion-hazard areas!
- Use only suitable GEDORE replacement shafts and wedges.

## Wood is a natural product!

- GEDORE uses only wood types and timbers that comply with DIN 68 340 (Wooden Shafts for Impact Tools)
- Wood retains its natural properties even after processing
- Trees regulate their moisture content by giving off moisture through their pores. This property is retained in processed wood. This means that a wooden hammer shaft loses moisture through its pores when the air humidity is low and shrinks. Too much moisture causes the wooden shaft to swell up and damages the wooden fibres.
- DIN 68 340 defines the required moisture content of the hammer shaft at the time of joining the shaft to the head. This must be between 12 % and 14 % in relation to the dry weight. In-house manufacture under continuous quality controls guarantees compliance with the requirements of DIN 68 340.

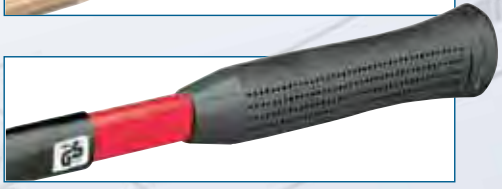
**Tip:**
- Before use, always check that the hammer head is securely attached to the shaft!
- Never store the hammer in too dry conditions!
- Storage in well-heated rooms or near a source of heat is particularly harmful, drawing moisture out of the hammer shaft, causing the shaft section to shrink. In extreme cases, the secure fit of the hammer head on the shaft can no longer be guaranteed.

# Advantages of the different handle types

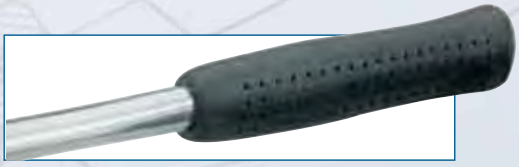
## Hickory handles
- High quality and extremely break-proof wood. Compared with ash the physical load stability of hickory is around 3-4 times higher
- Long-fibre structure: More safety in the event of a handle breakage - the wood is held together by the long fibres and hence uncontrolled separation of the broken handle as well as the hammer head is avoided
- Vibration dampening
- Long life = very good price-performance ratio

## Ash handles
- This wood is prescribed by the DIN as the minimum wood quality
- Inexpensive
- Break-proof
- Short-fibre structure: the short fibres in the wood mean that, in the event of a break, the shaft cannot be held together. The shaft breaks into two parts.

## Fibre glass handles
- Robust - virtually unbreakable
- Insensitive to all weather conditions - can also be fully used in minus temperatures and is still unbreakable
- Resistant to all common chemicals such as for example oils and greases



## Tubular steel handles
- High bending strength
- Resistant to the influence of weather



## Rubber grip and steel tube handle
- Resilient
- Unbeatable price-performance ratio since the hammer is very durable
- Vibration dampening
- Resistant to petrol and oil
- Serrated gripping zones for a firm grip

| | | ROTBAND-PLUS | hickory | ash | tubular steel | fibreglass | plastic | rubber with steel tube | inductive | g | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 600 E | ● | | ● | | | | | | 100- 2000 | |
| | 600H | ● | ● | | | | | | | 100 - 2000 | |
| | 600 IH | ● | ● | | | | | | ● | 200 - 2000 | |
| | 4 E | | | ● | | | | | | 50 - 2000 | |
| | 4 H | | ● | | | | | | | 50 - 2000 | |
| | 4 IH | | ● | | | | | | ● | 200 - 2000 | |
| | 4 K | | | | | | ● | | | 200 - 1000 | |
| | 500 F | | | | | ● | | | | 200 - 2000 | |
| | 500 ST | | | | ● | | | | | 300 - 500 | |
| | 525 H | ROTBAND | ● | | | | | | | 500 | |
| | 8601 | | | ● | | | | | | 1/4 LBS - 2 LBS | |
| | 601 H | ● | ● | | | | | | | 300 - 500 | |
| | 65 E | | | ● | | | | | | 100 - 600 | |
| | 620 E | ● | | ● | | | | | | 1000 - 2000 | |
| | 620 H | ● | ● | | | | | | | 1000 - 2000 | |
| | 20 E | | | ● | | | | | | 1000 - 10000 | |
| | 20 H | | ● | | | | | | | 1000 - 10000 | |
| | 20 F | | | | | ● | | | | 1000 - 10000 | |
| | 20 ST | | | | ● | | | | | 1000 - 1250 | |
| | 646 H | ● | ● | | | | | | | 1000 - 2000 | |
| | 46 E | | | ● | | | | | | 1000 - 2000 | |
| | 609 H | ● | ● | | | | | | | 3000 - 10000 | |
| | 9 E | | | ● | | | | | | 3000 - 10000 | |
| | 9 H | | ● | | | | | | | 3000 - 10000 | |
| | 9 F | | | | | ● | | | | 3000 - 10000 | |
| | 9 G | | | | | | | ● | | 5000 | |
| | 10 E | | | ● | | | | | | 3000 - 6000 | |
| | 10 H | | ● | | | | | | | 3000 - 6000 | |
| | 17 E | | | ● | | | | | | 3000 -10000 | |
| | 29 E | | | ● | | | | | | 500 - 600 | |
| | 29 ST | | | | ● | | | | | 500 | |
| | 30 E | | | ● | | | | | | 500 - 700 | |
| | 94 E | | | ● | | | | | | 600 | |
| | 94 ST | | | | ● | | | | | 600 | |
| | 93 ST | | | | ● | | | | | 600 | |
| | 75 GSTM | | | | all-steel | | | | | 600 | ● |
| | 575 F | | | | | ● | | | | 600 | |
| | 575 FM | | | | | ● | | | | 600 | ● |
| | 75 STK | | | | ● | | | | | 600 | |
| | 75 ST | | | | ● | | | | | 600 | |
| | 75 STKM | | | | ● | | | | | 600 | ● |
| | 75 STM | | | | ● | | | | | 600 | ● |
| | 71 GSTM | | | | all-steel | | | | | | ● |
| | 677 H | ● | ● | | | | | | | 300 | |
| | 77 ST | | | | ● | | | | | 300 - 400 | |
| | 77 E | | | ● | | | | | | 330 | |

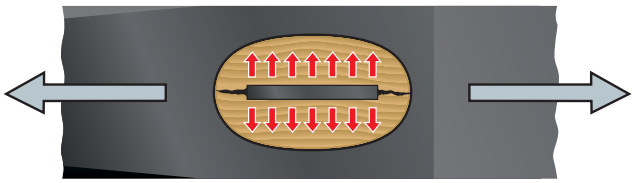
## ROTBAND-PLUS hammer

- The hammer shaft is pressed into the hammer head.
- The ring wedge is pressed in to secure the shaft in the eye of the hammer head.
- The round, conical form ensures an all-round, uniform pressure.
- Tightening the wood screw ensures a positive fit of the safety plate with the shaft.

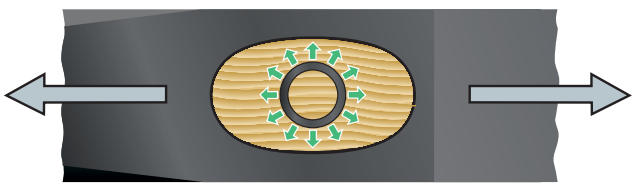
480

With the standardised ROTBAND-PLUS handles every standardised hammer head can be turned into a ROTBAND-PLUS hammer.

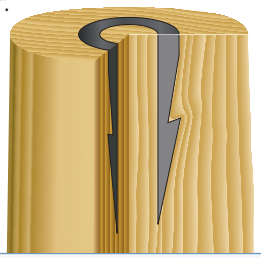
## Wedges:



- No clamping force in the direction of motion thanks to the **flat wedge**.

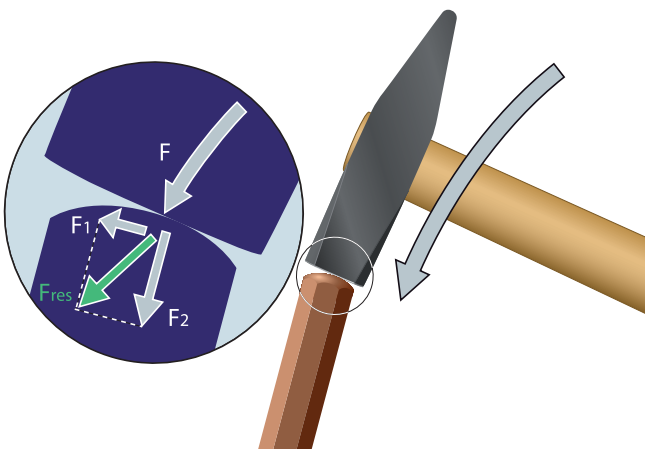


- The tapered collar evenly distributes the clamping force across 360° i.e. also in the direction of motion. The wood fibre structure is not ruined. There is no slackening of the hammer head even after several hundred strikes.
- The barbed hook ensures a positive fit and stops the tapered collar from loosening. A safety "extra".

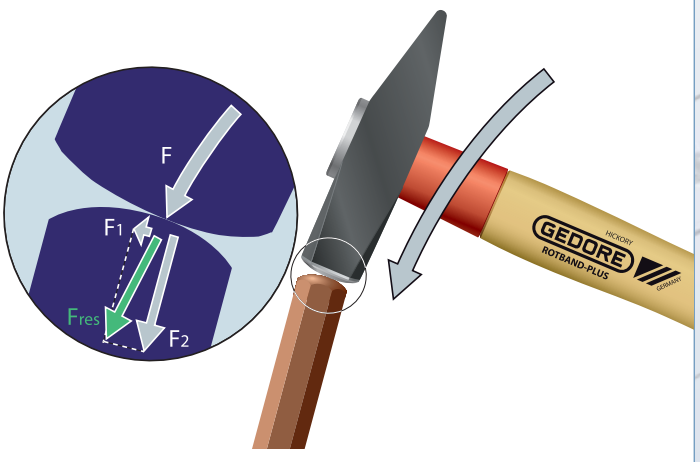


## GEDORE hammers and GEDORE chisels - An alliance for safe working

- Considerable forces are liberated on hammer face and chisel head impacting on each other.




- In the case of hammers and chisels which are not ground in a regulation-compliant manner, most of the force raised is not transferred to the chisel tip and can, as a result, give rise to serious injuries.

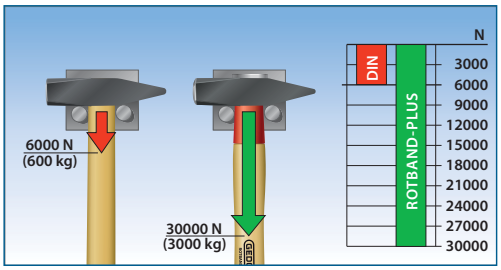



- GEDORE hammers and chisels are optimally adapted to each other. Their regulation-compliant geometrical shape diverts the bulk of the forces raised towards the chisel tip.

# ROTBAND-PLUS HAMMERS

## A safe join

### Features

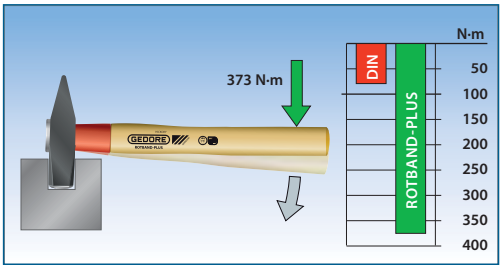



The values required by the German standards institute (DIN) are exceeded considerably. According to the report by the Institute for Testing and Checking (VPA) in Remscheid, with the ROTBAND-PLUS hammers more than five times the required force was attained.

### Safety principle

- Unprotected hammer handle - After 30 impacts: Noticeable damage to the handle - risk of breakage!
- Wooden handle with ROTBAND-PLUS Safety Feature - After 1,000 impacts: Slight traces in the paint, no deformation, absolutely firm seating.

Bending strength, e.g. 500 g




Due to the hardened ROTBAND-PLUS protective sleeve for the handle and the fixing plate, the bending strength of the ROTBAND-PLUS hammers exceeds that of standard DIN hammers by a wide margin.

The join between the hammer head and the handle is one of the most important features of the ROTBAND-PLUS. A wood screw, a tapered collar and a fixing plate ensure a permanent and safe joint.

The hammer head corresponds to the relevant DIN standard. Following the forging process, it is carefully hardened and tempered. This is a guarantee of an extra-long service life.

The protective steel sleeve is hardened and thus resistant to impact. It protects the handle from damage when the hammer misses its target, and gives the hammer head additional security.

The handle is hand-friendly wood, and bend-resistant. This has been proven by tests carried out at the Institute for Testing and Checking (VPA) in Remscheid, Germany.

Patented safety system

MADE IN GERMANY

## ROTBAND-PLUS hammer

- The hammer shaft is pressed into the hammer head.
- The ring wedge is pressed in to secure the shaft in the eye of the hammer head.
- The round, conical form ensures an all-round, uniform pressure.
- Tightening the wood screw ensures a positive fit of the safety plate with the shaft.

- With the standardised ROTBAND-PLUS handles every standardised hammer head can be turned into a ROTBAND-PLUS hammer.

## All advantages at a glance

- Patented handle join ROTBAND-PLUS
- The protective steel sleeve, the tapered collar, the fixing plate and the wood screw bond the hammer head and the handle into one unit = maximum work safety
- The protective steel sleeve protects the handle from damage when the hammer misses its target and guarantees thus a long service life
- Best price-performance ratio

## ROTBAND-PLUS - Overview of Range of Hammers

# ENGINEERS' HAMMERS ROTBAND-PLUS

## 600 E + 600 H

### ENGINEERS' HAMMER ROTBAND-PLUS

- Forged hammer head DIN 1041
- With contoured ash or hickory handle DIN 5111, additionally shaped with a long hardened handle protective steel sleeve
- The tapered collar, fixing plate and wood screw bond the hammer head and the handle into one unit
- Patented handle join, high working safety, long service life, best price-performance ratio
- DBGM G 9414 1878 (German utility patent), European-Patent-No. 0703045

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8581610 | **600 E-100** | 260 | 100 | 188 | 6 |
| 8581880 | **600 E-200** | 280 | 200 | 325 | 6 |
| 8581960 | **600 E-300** | 300 | 300 | 502 | 6 |
| 8582180 | **600 E-400** | 310 | 400 | 605 | 6 |
| 8582260 | **600 E-500** | 320 | 500 | 727 | 6 |
| 8582340 | **600 E-600** | 330 | 600 | 841 | 6 |
| 8582420 | **600 E-800** | 350 | 800 | 1135 | 6 |
| 8582500 | **600 E-1000** | 360 | 1000 | 1326 | 6 |
| 8582690 | **600 E-1500** | 380 | 1500 | 1908 | 6 |
| 8582770 | **600 E-2000** | 400 | 2000 | 2491 | 6 |
| 8582850 | **600 H-100** | 260 | 100 | 188 | 6 |
| 8582930 | **600 H-200** | 280 | 200 | 325 | 6 |
| 8583070 | **600 H-300** | 300 | 300 | 502 | 6 |
| 8583150 | **600 H-400** | 310 | 400 | 605 | 6 |
| 8583230 | **600 H-500** | 320 | 500 | 727 | 6 |
| 8583310 | **600 H-600** | 330 | 600 | 840 | 6 |
| 8583580 | **600 H-800** | 350 | 800 | 1135 | 6 |
| 8583660 | **600 H-1000** | 360 | 1000 | 1326 | 6 |
| 8583740 | **600 H-1500** | 380 | 1500 | 1908 | 6 |
| 8583820 | **600 H-2000** | 400 | 2000 | 2491 | 6 |

## 600 IH

### ENGINEERS' HAMMER ROTBAND-PLUS

- Forged hammer head DIN 1041
- The edges of the flat side of the head are induction hardened
- With contoured ash or hickory handle DIN 5111, additionally shaped with a long hardened handle protective steel sleeve
- The tapered collar, fixing plate and wood screw bond the hammer head and the handle into one unit
- Patented handle join, high working safety, long service life, best price-performance ratio

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8583900 | **600 IH-200** | 280 | 200 | 325 | 6 |
| 8584040 | **600 IH-300** | 300 | 300 | 502 | 6 |
| 8584120 | **600 IH-400** | 310 | 400 | 605 | 6 |
| 8584200 | **600 IH-500** | 320 | 500 | 727 | 6 |
| 8584390 | **600 IH-600** | 330 | 600 | 841 | 6 |
| 8587300 | **600 IH-800** | 350 | 800 | 1135 | 6 |
| 8587490 | **600 IH-1000** | 360 | 1000 | 1326 | 6 |
| 8587570 | **600 IH-1500** | 380 | 1500 | 1908 | 6 |
| 8588970 | **600 IH-2000** | 400 | 2000 | 2491 | 6 |

## E 600 E + E 600 H

### SPARE HANDLE ROTBAND-PLUS

- Ash (E 600 E) or hickory (E 600 H) DIN
- With hardened handle protective steel sleeve, tapered collar, fixing plate and wood screw
- With this standard wooden handle, according to DIN 5111 it is possible to convert even ordinary hammer heads, as long as they are to DIN standards, to a ROTBAND-PLUS-hammer
- Method: Hammer the handle into the hammer head until it reaches the casing. Drive the tapered collar into the centre of the handle. Fasten the safety plate with a wood screw

| Code | No. | mm | | |
|---|---|---|---|---|
| 8589000 | **E 600 E-100** | 260 | 76 | 10 |
| 8589190 | **E 600 E-200** | 280 | 99 | 10 |
| 8589270 | **E 600 E-300** | 300 | 150 | 10 |
| 8589350 | **E 600 E-400** | 310 | 179 | 10 |
| 8589430 | **E 600 E-500** | 320 | 185 | 10 |
| 8589510 | **E 600 E-600** | 330 | 214 | 10 |
| 8589780 | **E 600 E-800** | 350 | 210 | 10 |
| 8589860 | **E 600 E-1000** | 360 | 288 | 10 |
| 8589940 | **E 600 E-1500** | 380 | 350 | 10 |
| 8593700 | **E 600 E-2000** | 400 | 377 | 10 |
| 8593890 | **E 600 H-100** | 260 | 81 | 10 |
| 8595080 | **E 600 H-200** | 280 | 120 | 10 |
| 8595160 | **E 600 H-300** | 300 | 134 | 10 |
| 8595240 | **E 600 H-400** | 310 | 180 | 10 |
| 8596480 | **E 600 H-500** | 320 | 198 | 10 |
| 8596560 | **E 600 H-600** | 330 | 234 | 10 |
| 8596640 | **E 600 H-800** | 350 | 296 | 10 |
| 8597880 | **E 600 H-1000** | 360 | 315 | 10 |
| 8597960 | **E 600 H-1500** | 380 | 373 | 10 |
| 8599070 | **E 600 H-2000** | 400 | 442 | 10 |



Quantities in packs may vary.

## Helving - made easy

- Hammer the handle into the hammer head until it reaches the casing
- Drive the tapered collar into the centre of the handle
- Fasten the safety plate with a wood screw

## E 5

### SPARE TAPERED COLLAR

- For safe fastening of the wooden handles

| Code | No. | Ø | mm | | |
|---|---|---|---|---|---|
| 8593970 | **E 5-100** | 7 | 12.0 | 1 | 10 |
| 8594000 | **E 5-200** | 8 | 15.0 | 3 | 10 |
| 8594190 | **E 5-300** | 10 | 17.0 | 4 | 10 |
| 8594270 | **E 5-400** | 11 | 18.0 | 5 | 10 |
| 8594350 | **E 5-500** | 12 | 20.0 | 7 | 10 |
| 8594860 | **E 5-600** | 13 | 20.0 | 8 | 10 |
| 8594430 | **E 5-800** | 14 | 21.0 | 9 | 10 |
| 8594940 | **E 5-1000** | 14 | 21.0 | 10 | 10 |
| 8594510 | **E 5-1500** | 15 | 23.5 | 13 | 10 |
| 8594780 | **E 5-2000** | 16 | 23.0 | 14 | 10 |

## 6NA

482

## Handle types

For more information on handle types see page 475

# ENGINEERS' HAMMERS

## 4 E + 4 H

### ENGINEERS' HAMMER

- Forged hammer head DIN 1041
- With ash (4 E) or hickory handle (4 H) to DIN 5111

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8586090 | **4 E-50** | 250 | 50 | 89 | 6 |
| 8586170 | **4 E-100** | 260 | 100 | 158 | 6 |
| 8586250 | **4 E-200** | 280 | 200 | 275 | 6 |
| 8586330 | **4 E-300** | 300 | 300 | 440 | 6 |
| 8586410 | **4 E-400** | 310 | 400 | 530 | 6 |
| 8586680 | **4 E-500** | 320 | 500 | 625 | 6 |
| 8586760 | **4 E-600** | 330 | 600 | 750 | 6 |
| 8586840 | **4 E-800** | 350 | 800 | 930 | 6 |
| 8586920 | **4 E-1000** | 360 | 1000 | 1180 | 6 |
| 8587060 | **4 E-1500** | 380 | 1500 | 1760 | 6 |
| 8587140 | **4 E-2000** | 400 | 2000 | 2320 | 6 |
| 8590010 | **4 H-50** | 250 | 50 | 103 | 6 |
| 8590280 | **4 H-100** | 260 | 100 | 168 | 6 |
| 8590360 | **4 H-200** | 280 | 200 | 300 | 6 |
| 8590440 | **4 H-300** | 300 | 300 | 460 | 6 |
| 8590520 | **4 H-400** | 310 | 400 | 550 | 6 |
| 8590600 | **4 H-500** | 320 | 500 | 650 | 6 |
| 8590790 | **4 H-600** | 330 | 600 | 760 | 6 |
| 8590870 | **4 H-800** | 350 | 800 | 1030 | 6 |
| 8590950 | **4 H-1000** | 360 | 1000 | 1210 | 6 |
| 8591090 | **4 H-1500** | 380 | 1500 | 1859 | 6 |
| 8591170 | **4 H-2000** | 400 | 2000 | 2370 | 6 |

## 4 IH

### ENGINEERS' HAMMER

- Forged hammer head DIN 1041
- Carefully hardened and tempered, coated with black epoxy powder
- With hickory handle DIN 5111

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8752600 | **4 IH-200** | 280 | 200 | 300 | 6 |
| 8752790 | **4 IH-300** | 300 | 300 | 450 | 6 |
| 8752870 | **4 IH-400** | 310 | 400 | 550 | 6 |
| 8752950 | **4 IH-500** | 320 | 500 | 650 | 6 |
| 8753090 | **4 IH-600** | 330 | 600 | 760 | 6 |
| 8753170 | **4 IH-800** | 350 | 800 | 1100 | 6 |
| 8753250 | **4 IH-1000** | 360 | 1000 | 1210 | 6 |
| 8753330 | **4 IH-1500** | 380 | 1500 | 1860 | 6 |
| 8753410 | **4 IH-2000** | 400 | 2000 | 2370 | 6 |

Quantities in packs may vary.

## E 4 E + E 4 H

### SPARE HANDLE

- Ash (E 4 E) or hickory handle (E 4 H), acc. to DIN 5111
- With oval fixing hole, i.e. for engineers' hammers

| Code | No. | mm | | |
|---|---|---|---|---|
| 8587650 | **E 4 E-50** | 250 | 33 | 10 |
| 8587730 | **E 4 E-100** | 260 | 45 | 10 |
| 8587810 | **E 4 E-200** | 280 | 85 | 10 |
| 8588030 | **E 4 E-300** | 300 | 99 | 10 |
| 8588110 | **E 4 E-400** | 310 | 100 | 10 |
| 8588380 | **E 4 E-500** | 320 | 160 | 10 |
| 8588460 | **E 4 E-600** | 330 | 140 | 10 |
| 8588540 | **E 4 E-800** | 350 | 165 | 10 |
| 8588620 | **E 4 E-1000** | 360 | 183 | 10 |
| 8588700 | **E 4 E-1500** | 380 | 196 | 10 |
| 8588890 | **E 4 E-2000** | 400 | 261 | 10 |
| 8591250 | **E 4 H-50** | 250 | 33 | 10 |
| 8591330 | **E 4 H-100** | 260 | 58 | 10 |
| 8591410 | **E 4 H-200** | 300 | 85 | 10 |
| 8591680 | **E 4 H-300** | 300 | 85 | 10 |
| 8591760 | **E 4 H-400** | 320 | 120 | 10 |
| 8591840 | **E 4 H-500** | 320 | 140 | 10 |
| 8591920 | **E 4 H-600** | 330 | 150 | 10 |
| 8592060 | **E 4 H-800** | 350 | 210 | 10 |
| 8592140 | **E 4 H-1000** | 360 | 225 | 10 |
| 8592220 | **E 4 H-1500** | 380 | 190 | 10 |
| 8592300 | **E 4 H-2000** | 400 | 280 | 10 |

## 4 K

### ENGINEERS' HAMMER

- Forged hammer head DIN 1041
- With Ultramid® plastic handle and safety wedge
- Ultramid® = trade name of BASF AG, Germany

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8812950 | **4 K-200** | 280 | 200 | 280 | 6 |
| 8604170 | **4 K-300** | 300 | 300 | 430 | 6 |
| 8604330 | **4 K-500** | 320 | 500 | 630 | 6 |
| 8604680 | **4 K-800** | 350 | 800 | 1020 | 6 |
| 8604760 | **4 K-1000** | 360 | 1000 | 1160 | 6 |

## E 4 K

### SPARE HANDLE

- Made from Ultramid® plastics
- Suitable for all hammer heads acc. to DIN 1041
- Delivery complete with tapered collar and fixing clip
- Ultramid® = trade name of BASF AG, Germany

| Code | No. | mm | | |
|---|---|---|---|---|
| 8897170 | **E 4 K-200** | 280 | 70 | 10 |
| 8897250 | **E 4 K-300** | 300 | 90 | 10 |
| 8897330 | **E 4 K-500** | 320 | 120 | 10 |
| 8897410 | **E 4 K-800** | 350 | 180 | 10 |
| 8897680 | **E 4 K-1000** | 360 | 192 | 10 |

## 500 F

### ENGINEERS' HAMMER

- Forged hammer head
- Nearly unbreakable fibreglass handle with plastic grip
- Additionally hardened handle protective steel sleeve, with secured head
- Induction tempered edges of the flat side of the head available on request

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8598180 | **500 F-200** | 280 | 200 | 360 | 6 |
| 8598260 | **500 F-300** | 300 | 300 | 570 | 6 |
| 8598340 | **500 F-400** | 310 | 400 | 660 | 6 |
| 8598420 | **500 F-500** | 320 | 500 | 770 | 6 |
| 8598500 | **500 F-600** | 330 | 600 | 900 | 6 |
| 8598690 | **500 F-800** | 350 | 800 | 1174 | 6 |
| 8598770 | **500 F-1000** | 360 | 1000 | 1398 | 6 |
| 8598850 | **500 F-1500** | 380 | 1500 | 1838 | 6 |
| 8598930 | **500 F-2000** | 400 | 2000 | 2352 | 6 |

## 500 ST

### ENGINEERS' HAMMER

- Forged hammer head
- Steel tube handle with plastic grip
- Very robust and durable

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8606620 | **500 ST-300** | 270 | 300 | 575 | 6 |
| 8606890 | **500 ST-500** | 300 | 500 | 780 | 6 |

## 6 NA

### SOFT FACE CAP for engineers' hammers

- Polyethylene

| Code | No. | for g | | |
|---|---|---|---|---|
| 8605570 | **6 NA-300** | 300 | 25 | 1 |
| 8605650 | **6 NA-500** | 500 | 50 | 1 |
| 8605730 | **6 NA-800** | 800 | 60 | 1 |
| 8802990 | **6 NA-1000** | 1000 | 53 | 1 |



Quantities in packs may vary.

## 8601

### ENGINEER'S BALL PEIN HAMMER WITH BALL

- With hickory handle
- Hardened and tempered steel to EN 10083
- Enamelled, face and ball ground

| Code | No. | mm | lbs | | |
|---|---|---|---|---|---|
| 6764030 | **8601 1/4** | 270 | 1/4 | 172 | 1 |
| 6764110 | **8601 1/2** | 290 | 1/2 | 307 | 1 |
| 6764380 | **8601 3/4** | 310 | 3/4 | 475 | 1 |
| 6764460 | **8601 1** | 325 | 1 | 565 | 1 |
| 1429078 | **8601 1.1/8** | 350 | 1.1/8 | 605 | 6 |
| 6764540 | **8601 1.1/4** | 350 | 1.1/4 | 772 | 1 |
| 6764620 | **8601 1.1/2** | 365 | 1.1/2 | 800 | 1 |
| 1429108 | **8601 1.3/4** | 400 | 1.3/4 | 900 | 6 |
| 6764700 | **8601 2** | 380 | 2 | 1073 | 1 |

## 8602

### ENGINEER'S BALL PEIN HAMMER WITH PEIN

- With hickory handle
- Hardened and tempered steel to EN 10083
- Enamelled, face and pein ground

| Code | No. | mm | lbs | | |
|---|---|---|---|---|---|
| 1429124 | **8602 1/4** | 275 | 1/4 | 200 | 6 |
| 1429132 | **8602 1/2** | 300 | 1/2 | 315 | 6 |
| 1429140 | **8602 3/4** | 325 | 3/4 | 400 | 6 |
| 1429159 | **8602 1** | 350 | 1 | 555 | 6 |
| 1429167 | **8602 1.1/8** | 350 | 1.1/8 | 605 | 6 |
| 1429183 | **8602 1.1/4** | 375 | 1.1/4 | 670 | 6 |
| 1429191 | **8602 1.1/2** | 375 | 1.1/2 | 810 | 6 |
| 1429205 | **8602 1.3/4** | 400 | 790 | 800 | 6 |
| 1429213 | **8602 2** | 400 | 2 | 1085 | 6 |

## E-8601/8602

### SPARE HANDLE HICKORY

| Code | No. | | |
|---|---|---|---|
| 1431056 | **E-8601/8602 1/4** | 105 | 1 |
| 1431102 | **E-8601/8602 1/2** | 120 | 1 |
| 1431110 | **E-8601/8602 3/4** | 135 | 1 |
| 1431129 | **E-8601/8602 1** | 150 | 1 |
| 1431137 | **E-8601/8602 1.1/8** | 165 | 1 |
| 1431145 | **E-8601/8602 1.1/4** | 180 | 1 |
| 1431153 | **E-8601/8602 1.1/2** | 195 | 1 |
| 1431161 | **E-8601/8602 1.3/4** | 210 | 1 |
| 1431188 | **E-8601/8602 2** | 225 | 1 |

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## 525 H

### HAMMER KOMBI-PLUS

- Combination of engineers' and plastic hammer
- ROTBAND execution with hardened handle protective steel sleeve
- With hickory handle
- Suitable for nearly all jobs of an engineers' hammer
- The plastic side may be used for all straightening and beating works and hardened work pieces
- Spare head E 225-27

| Code | No. | ∅ mm | mm | | | |
|---|---|---|---|---|---|---|
| 1441310 | **525 H-500** | 27 | 320 | 500 | 680 | 6 |

# JOINERS' HAMMERS

## 601 H

### JOINERS' HAMMER ROTBAND-PLUS French pattern

- Forged hammer head
- The tapered collar, fixing plate and wood screw bond the hammer head and handle into one unit
- With contoured hickory handle DIN 5111
- Additionally hardened steel sleeve
- Patented handle join, high working safety, long service life, best price-performance ratio

| Code | No. | mm | ■ mm | | Spare handle | |
|---|---|---|---|---|---|---|
| 8748840 | **601 H-22** | 300 | 22 | 410 | E 600 H-300 | 6 |
| 8749060 | **601 H-25** | 310 | 25 | 530 | E 600 H-400 | 6 |
| 8749140 | **601 H-28** | 320 | 28 | 649 | E 600 H-500 | 6 |

## 65 E

### JOINERS' HAMMER French pattern

- With contoured ash handle DIN 5111

| Code | No. | mm | ■ mm | | Spare handle | |
|---|---|---|---|---|---|---|
| 8684260 | **65 E-18** | 260 | 18 | 220 | E 4 E-100 | 6 |
| 8684340 | **65 E-20** | 300 | 20 | 240 | E 4 E-300 | 6 |
| 8684420 | **65 E-22** | 300 | 22 | 350 | E 4 E-300 | 6 |
| 8684500 | **65 E-25** | 310 | 25 | 450 | E 4 E-400 | 6 |
| 8684690 | **65 E-28** | 320 | 28 | 590 | E 4 E-500 | 6 |

Quantities in packs may vary.

# CLUB HAMMERS

## 620 E + 620 H

### CLUB HAMMER ROTBAND-PLUS

- Forged head DIN 6475
- Contoured ash (620 E) or hickory handle (620 H) DIN 5135, supplementary with long hardened handle protective steel sleeve
- The sleeve, tapered collar, fixing plate and wood screw bond the hammer head and wood handle into one unit
- Patented handle join, high working safety, long service life, best price-performance ratio

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8886990 | **620 E-1000** | 260 | 1000 | 1288 | 6 |
| 8887020 | **620 E-1250** | 260 | 1250 | 1483 | 6 |
| 8887100 | **620 E-1500** | 280 | 1500 | 1820 | 6 |
| 8887290 | **620 E-2000** | 300 | 2000 | 2291 | 6 |
| 8887370 | **620 H-1000** | 260 | 1000 | 1317 | 6 |
| 8887450 | **620 H-1250** | 260 | 1250 | 1493 | 6 |
| 8887530 | **620 H-1500** | 280 | 1500 | 1820 | 6 |
| 8887610 | **620 H-2000** | 300 | 2000 | 2240 | 6 |

## E 620 E + E 620 H

### SPARE HANDLE ROTBAND-PLUS

- Contoured ash (E 620 E) or hickory handle (E 620 H) DIN 5135
- With hardened handle protective steel sleeve, fixing plate, tapered collar and wood screw
- For all club hammers according to DIN 6475
- With this handle acc. to DIN, every standard DIN club hammer head can be converted to a ROTBAND-PLUS club hammer

| Code | No. | mm | | |
|---|---|---|---|---|
| 8678100 | **E 620 E-1000** | 260 | 240 | 1 |
| 8749650 | **E 620 E-1250** | 260 | 230 | 1 |
| 8676670 | **E 620 E-1500** | 280 | 280 | 1 |
| 8676750 | **E 620 E-2000** | 300 | 310 | 1 |
| 8677210 | **E 620 H-1000** | 260 | 270 | 1 |
| 8749730 | **E 620 H-1250** | 260 | 260 | 1 |
| 8677480 | **E 620 H-1500** | 280 | 280 | 1 |
| 8677560 | **E 620 H-2000** | 300 | 350 | 1 |

## 20 E + 20 H

### CLUB HAMMER

- Forged head DIN 6475
- With ash (20 E) or hickory handle (20 H) DIN 5135

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8632460 | **20 E-1000** | 260 | 1000 | 1196 | 6 |
| 8632540 | **20 E-1250** | 260 | 1250 | 1388 | 6 |
| 8632620 | **20 E-1500** | 280 | 1500 | 1704 | 6 |
| 8632700 | **20 E-2000** | 300 | 2000 | 2176 | 6 |
| 8632890 | **20 E-3** | 600 | 3000 | 3480 | 1 |
| 8632970 | **20 E-4** | 700 | 4000 | 4280 | 1 |
| 8633000 | **20 E-5** | 800 | 5000 | 5750 | 1 |
| 8633190 | **20 E-6** | 800 | 6000 | 6505 | 1 |
| 8633270 | **20 E-8** | 900 | 8000 | 9100 | 1 |
| 8633350 | **20 E-10** | 900 | 10000 | 10880 | 1 |
| 8635210 | **20 H-1000** | 260 | 1000 | 1220 | 6 |
| 8635480 | **20 H-1250** | 260 | 1250 | 1406 | 6 |
| 8635560 | **20 H-1500** | 280 | 1500 | 1740 | 6 |
| 8635640 | **20 H-2000** | 300 | 2000 | 2275 | 6 |
| 8635720 | **20 H-3** | 600 | 3000 | 3510 | 1 |
| 8635800 | **20 H-4** | 700 | 4000 | 4430 | 1 |
| 8635990 | **20 H-5** | 800 | 5000 | 5890 | 1 |
| 8636020 | **20 H-6** | 800 | 6000 | 6560 | 1 |
| 8636100 | **20 H-8** | 900 | 8000 | 9100 | 1 |
| 8636290 | **20 H-10** | 900 | 10000 | 11040 | 1 |

## E 20 E + E 20 H

### SPARE HANDLE

- Ash (E 20 E, E 9 E) or hickory (E 20 H, E 9 H)
- E 20 acc. to DIN 5135
- E 9 acc. to DIN 5112

| Code | No. | for hammer | mm | | |
|---|---|---|---|---|---|
| 8633940 | **E 20 E-1000** | 20-1000, 20-1250, 46-1000, 46-1250 | 260 | 151 | 10 |
| 8634160 | **E 20 E-1500** | 20-1500, 46-1500 | 280 | 131 | 10 |
| 8634240 | **E 20 E-2000** | 20-2000, 46-2000 | 300 | 178 | 10 |
| 8636880 | **E 20 H-1000** | 20-1000, 20-1250 | 260 | 163 | 10 |
| 8637180 | **E 20 H-1500** | 20-1500 | 280 | 136 | 10 |
| 8637260 | **E 20 H-2000** | 20-2000 | 300 | 210 | 10 |
| 8613080 | **E 9 E-3** | 9-3, 10-3, 17-3, 20-3 | 600 | 400 | 1 |
| 8613160 | **E 9 E-4** | 9-4, 10-4, 17-4, 20-4 | 700 | 580 | 1 |
| 8613240 | **E 9 E-5** | 9-5, 9-6, 10-5, 10-6, 17-5, 17-6, 20-5, 20-6 | 800 | 730 | 1 |
| 8613400 | **E 9 E-8** | 9-8, 9-10, 17-8, 17-10, 20-8, 20-10 | 900 | 1100 | 1 |
| 8616500 | **E 9 H-3** | 9-3, 10-3, 17-3, 20-3 | 600 | 400 | 1 |
| 8616690 | **E 9 H-4** | 9-4, 10-4, 17-4, 20-4 | 700 | 630 | 1 |
| 8616770 | **E 9 H-5** | 9-5, 9-6, 10-5, 10-6, 17-5, 17-6, 20-5, 20-6 | 800 | 810 | 1 |
| 8616930 | **E 9 H-8** | 9-8, 9-10, 17-8, 17-10, 20-8, 20-10 | 900 | 960 | 1 |



Quantities in packs may vary.

## 20 F

### CLUB HAMMER

- Forged head DIN 6475
- Nearly unbreakable fibreglass handle with plastic grip and secured head

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8815620 | **20 F-1000** | 260 | 1000 | 1270 | 6 |
| 8815700 | **20 F-1250** | 260 | 1250 | 1480 | 6 |
| 8815890 | **20 F-1500** | 280 | 1500 | 1775 | 6 |
| 8815970 | **20 F-2000** | 300 | 2000 | 2280 | 6 |
| 8816000 | **20 F-3** | 600 | 3000 | 3720 | 1 |
| 8866530 | **20 F-4** | 700 | 4000 | 4750 | 1 |
| 8866610 | **20 F-5** | 800 | 5000 | 6430 | 1 |
| 8866880 | **20 F-6** | 800 | 6000 | 7098 | 1 |
| 8866960 | **20 F-8** | 900 | 8000 | 9100 | 1 |
| 8867180 | **20 F-10** | 900 | 10000 | 11420 | 1 |

## 20 ST

### CLUB HAMMER

- Forged head
- With steel tube handle and plastic grip
- Very robust and durable

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8640800 | **20 ST-1000** | 260 | 1000 | 1400 | 6 |
| 8640990 | **20 ST-1250** | 260 | 1250 | 1570 | 6 |

## 21

### SOFT FACE CAP for club hammers

| Code | No. | for club hammer g | | |
|---|---|---|---|---|
| 8641960 | **21-1000** | 1000 | 330 | 1 |
| 8642180 | **21-1250** | 1250 | 375 | 1 |
| 8642260 | **21-1500** | 1500 | 310 | 1 |
| 8642340 | **21-2000** | 2000 | 290 | 1 |

## 646 H

### DOUBLE FACED CLUB HAMMER ROTBAND-PLUS Dutch pattern

- Forged hammer head
- Hickory handle DIN 5135, additionally with long hardened handle protective steel sleeve
- The sleeve, tapered collar, fixing plate and wood screw bond the hammer head and wood handle into one unit
- Spare handles see club hammer no. 620 H
- Patented handle join, high working safety, long service life, best price-performance ratio

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8683020 | **646 H-1000** | 260 | 1000 | 1312 | 6 |
| 8682720 | **646 H-1250** | 260 | 1250 | 1481 | 6 |
| 8682800 | **646 H-1500** | 280 | 1500 | 1833 | 6 |
| 8682990 | **646 H-2000** | 300 | 2000 | 2156 | 6 |

## 46 E

### DOUBLE FACED CLUB HAMMER Dutch pattern

- Forged hammer head
- With ash handle
- Spare handles see club hammer No. 20 E

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8667090 | **46 E-1000** | 260 | 1000 | 1197 | 6 |
| 8667170 | **46 E-1250** | 260 | 1250 | 1370 | 6 |
| 8667250 | **46 E-1500** | 280 | 1500 | 1680 | 6 |
| 8667330 | **46 E-2000** | 300 | 2000 | 2240 | 6 |

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906 • WT 1056 10

647
539

Quantities in packs may vary.

# GuStaV*

## SAFE, ERGONOMIC,
## + UNBEATABLE PRICE-PERFORMANCE
## ... THE WORLD'S SAFEST HAMMER

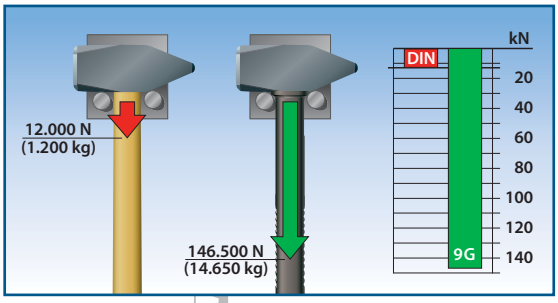
## + HIGHEST SAFETY:

- since the hammer head is intractably fitted with the handle
- since value DESIGNATED 1,200 kg (12,000 N) / value ACTUAL 9 GuStaV: 14,650* kg (145,500 N)
  *the test had to be stopped at this figure as the machine no longer had any "grappling point" due to the abraded rubber at the steel handle. The hammer head remained firmly fitted to the handle.
- since a hardened steel tube is mounted in the handle. The result is an unbreakable hammer when correctly used.

NEW

## + UNBEATABLE PRICE-PERFORMANCE RATIO

- since the hammer is very durable

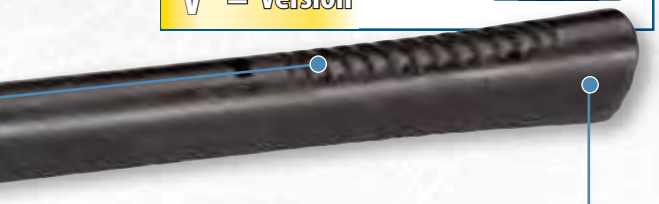


MADE IN GERMANY

## RATIO

**GuStaV**

- Gu = Gummi
- Sta = Stahl
- V = Version



- Stud-type handle and ergonomically adapted grip diameter.
- 900 mm handle length: 100 mm in excess of the DIN requirement - ensures more powerful strikes from the same force applied.

## + ERGONOMIC

### → SINCE OPTIMUM HANDLE GEOMETRY

- 100 mm longer than the DIN requirement = greater impact power from the same force applied
- Stud at the end of the handle ensures that proper gripping handle
- The handle diameter is perfectly adjusted to the geometry of one's hand

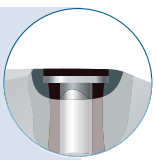
### → SINCE LOW-ON-VIBRATION

- The keyed connection between hammer head and steel tube in the handle is rubber-jacketed. As a result, the rubber absorbs much of the vibration arising on impact.
- The rubber layer vulcanised on the handle provides an extremely low modulus of elasticity and, in turn, absorbs most of the remaining vibrations.

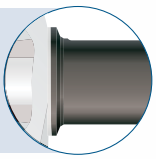
- Test findings:
  Ingenieurbüro für Ergonomie, 67824 Feilbingert: 9 GuStaV has the same positive vibration features as a comparable wooden-shaft hammer.

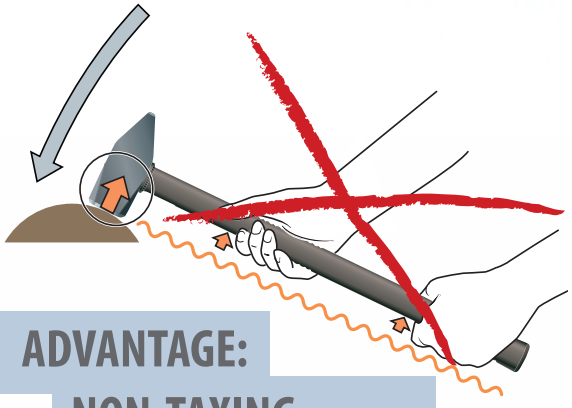
MADE IN GERMANY · QUALITY TOOLS · QUALITÄTS-WERKZEUGE · GEDORE

- Hammer head and steel tube form a keyed connection. A safety extra!



- The reinforcing bulge at the transition point from hammer handle to head ensures an even spread of forces throughout the hammer head.



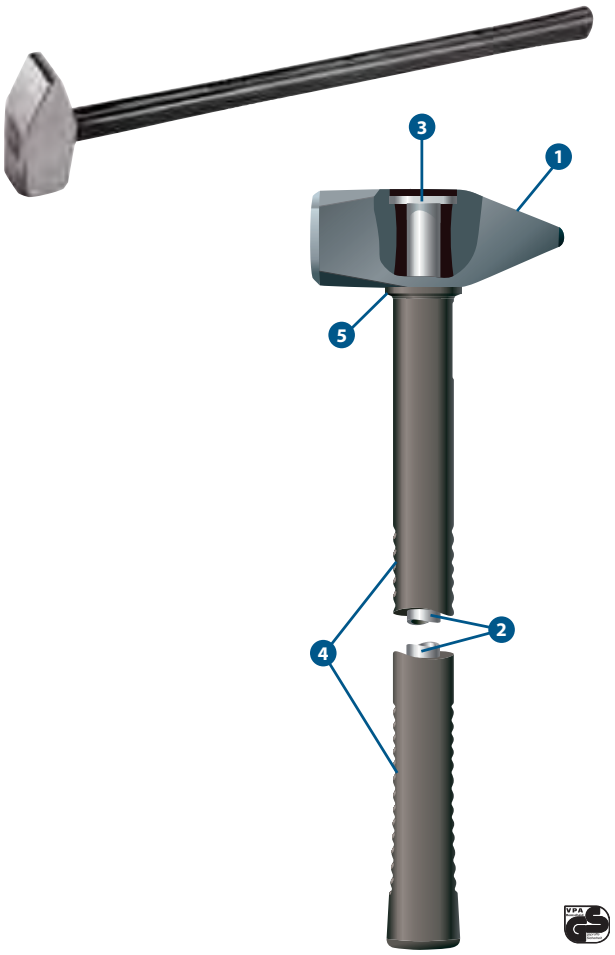


**ADVANTAGE:**
**NON-TAXING, FATIGUE-FREE WORKING**

## 9 GUSTAV

**SLEDGE HAMMER with rubber grip and steel tube handle**

1. ◤ Resilient, practically unbreakable, low-on-vibration hammer
   ◤ Forged hammer head acc. to DIN 1193
2. ◤ Head ground and clear varnished
   ◤ Rubber handle reinforced inside with hardened steel tube
3. ◤ Hammer head and steel tube form a keyed connection. A safety extra!
   ◤ Vibrations are absorbed by the rubber handle to the same extent as with wooden shafts
   ◤ 900 mm handle length: 100 mm in excess of the DIN requirement - ensures more powerful strikes from the same force applied
4. ◤ Resistant to petrol and oil
   ◤ Two serrated gripping zones. Knurled, non-sliding! Equally easy to use with either short or long arms
5. ◤ Stud-type handle and ergonomically adapted grip diameter
   ◤ The reinforcing bulge at the transition point from hammer handle to head ensures an even spread of forces in the hammer eye
   ◤ DBGM (= German Utility Patent)




| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 2250128 | **9 GuStaV-5** | 900 | 5000 | 7000 | 1 |

## * GuStaV

| | |
|---|---|
| Gu = Gummi | GU = RUBBER |
| Sta = Stahl | STA = STEEL |
| V = Version | V = VERSION |

## 609 H

**SLEDGE HAMMER ROTBAND-PLUS**

◤ Forged hammer head DIN 1042
◤ Spare handles complete with steel sleeve, tapered collar, fixing plate and wood screw
◤ Hickory handle DIN 5112, with additional long and hardened steel sleeve
◤ Patented handle join, high working safety, long service life, best price-performance ratio

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8673220 | **609 H-3** | 600 | 3000 | 3755 | 1 |
| 8673300 | **609 H-3-90** | 900 | 3000 | 3880 | 1 |
| 8673490 | **609 H-4** | 700 | 4000 | 4940 | 1 |
| 8673570 | **609 H-4-90** | 900 | 4000 | 5270 | 1 |
| 8673650 | **609 H-5** | 800 | 5000 | 6035 | 1 |
| 8673730 | **609 H-5-90** | 900 | 5000 | 6220 | 1 |
| 8673810 | **609 H-6** | 800 | 6000 | 7045 | 1 |
| 8674030 | **609 H-6-90** | 900 | 6000 | 7200 | 1 |
| 8674110 | **609 H-8** | 900 | 8000 | 9185 | 1 |
| 8674380 | **609 H-10** | 900 | 10000 | 11150 | 1 |

## E 609 H

**SPARE HANDLE ROTBAND-PLUS**

◤ Hickory handle DIN 5112
◤ Steel sleeve, fixing plate, tapered collar and wood screw
◤ For all hammer heads according to DIN 1042
◤ With this handle, every standard DIN hammer head can be converted to a ROTBAND-PLUS-sledge hammer

| Code | No. | mm | | |
|---|---|---|---|---|
| 8681750 | **E 609 H-3** | 600 | 770 | 1 |
| 8740510 | **E 609 H-3-90** | 900 | 990 | 1 |
| 8681910 | **E 609 H-4** | 700 | 840 | 1 |
| 8740780 | **E 609 H-4-90** | 900 | 840 | 1 |
| 8683530 | **E 609 H-5** | 800 | 1120 | 1 |
| 8740860 | **E 609 H-5-90** | 900 | 1082 | 1 |
| 8740350 | **E 609 H-6** | 800 | 900 | 1 |
| 8747950 | **E 609 H-6-90** | 900 | 1100 | 1 |
| 8683610 | **E 609 H-8** | 900 | 1390 | 1 |
| 8740430 | **E 609 H-10** | 900 | 1390 | 1 |



Quantities in packs may vary.

## 9 E + 9 H

### SLEDGE HAMMER

- Forged hammer head DIN 1042
- With ash (9 E) or hickory handle (9 H) DIN 5112

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8612000 | **9 E-3** | 600 | 3000 | 3330 | 1 |
| 8809220 | **9 E-3-90** | 900 | 3000 | 3450 | 1 |
| 8612190 | **9 E-4** | 700 | 4000 | 4365 | 1 |
| 8809490 | **9 E-4-90** | 900 | 4000 | 4410 | 1 |
| 8612270 | **9 E-5** | 800 | 5000 | 5535 | 1 |
| 8809650 | **9 E-5-90** | 900 | 5000 | 5495 | 1 |
| 8612350 | **9 E-6** | 800 | 6000 | 6590 | 1 |
| 8809810 | **9 E-6-90** | 900 | 6000 | 6570 | 1 |
| 8612430 | **9 E-8** | 900 | 8000 | 8650 | 1 |
| 8612510 | **9 E-10** | 900 | 10000 | 10560 | 1 |
| 8615370 | **9 H-3** | 600 | 3000 | 3515 | 1 |
| 8812360 | **9 H-3-90** | 900 | 3000 | 3705 | 1 |
| 8615450 | **9 H-4** | 700 | 4000 | 4710 | 1 |
| 8812440 | **9 H-4-90** | 900 | 4000 | 5040 | 1 |
| 8615530 | **9 H-5** | 800 | 5000 | 5760 | 1 |
| 8812520 | **9 H-5-90** | 900 | 5000 | 5800 | 1 |
| 8615610 | **9 H-6** | 800 | 6000 | 6680 | 1 |
| 8812600 | **9 H-6-90** | 900 | 6000 | 6795 | 1 |
| 8615880 | **9 H-8** | 900 | 8000 | 8815 | 1 |
| 8615960 | **9 H-10** | 900 | 10000 | 10895 | 1 |

## E 9 E + E 9 H

### SPARE HANDLE

- Ash (E 9 E) or hickory (E 9 H)
- Acc. to DIN 5112
- Execution -90 = 90 cm handle

| Code | No. | for hammer | mm | | |
|---|---|---|---|---|---|
| 8613080 | **E 9 E-3** | 9-3, 10-3, 17-3, 20-3 | 600 | 400 | 1 |
| 8784210 | **E 9 E-3-90** | 9-3, 9-4 | 900 | 660 | 1 |
| 8613160 | **E 9 E-4** | 9-4, 10-4, 17-4, 20-4 | 700 | 580 | 1 |
| 8613240 | **E 9 E-5** | 9-5, 9-6, 10-5, 10-6, 17-5, 17-6, 20-5, 20-6 | 800 | 730 | 1 |
| 8784480 | **E 9 E-5-90** | 9-5, 9-6 | 900 | 840 | 1 |
| 8613400 | **E 9 E-8** | 9-8, 9-10, 17-8, 17-10, 20-8, 20-10 | 900 | 1100 | 1 |
| 8616500 | **E 9 H-3** | 9-3, 10-3, 17-3, 20-3 | 600 | 400 | 1 |
| 8786180 | **E 9 H-3-90** | 9-3, 9-4 | 900 | 790 | 1 |
| 8616690 | **E 9 H-4** | 9-4, 10-4, 17-4, 20-4 | 700 | 630 | 1 |
| 8616770 | **E 9 H-5** | 9-5, 9-6, 10-5, 10-6, 17-5, 17-6, 20-5, 20-6 | 800 | 810 | 1 |
| 8786260 | **E 9 H-5-90** | 9-5, 9-6 | 900 | 700 | 1 |
| 8616930 | **E 9 H-8** | 9-8, 9-10, 17-8, 17-10, 20-8, 20-10 | 900 | 960 | 1 |

## 9 F

### SLEDGE HAMMER

- Forged hammer head DIN 1042
- With fibreglass handle, with secured head

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8614130 | **9 F-3** | 600 | 3000 | 3665 | 1 |
| 8820380 | **9 F-3-90** | 900 | 3000 | 3955 | 1 |
| 8614210 | **9 F-4** | 700 | 4000 | 4930 | 1 |
| 8820890 | **9 F-4-90** | 900 | 4000 | 5050 | 1 |
| 8614480 | **9 F-5** | 800 | 5000 | 6370 | 1 |
| 8820970 | **9 F-5-90** | 900 | 5000 | 6420 | 1 |
| 8614560 | **9 F-6** | 800 | 6000 | 7165 | 1 |
| 8821000 | **9 F-6-90** | 900 | 6000 | 7230 | 1 |
| 8614640 | **9 F-8** | 900 | 8000 | 9280 | 1 |
| 8614720 | **9 F-10** | 900 | 10000 | 11260 | 1 |

## 10 E + 10 H

### SLEDGE HAMMER

- Forged hammer head DIN 1042
- With ash (10 E) or hickory handle (10 H) DIN 5112

| Code | No. | mm | Spare handle | | | |
|---|---|---|---|---|---|---|
| 8620530 | **10 E-3** | 600 | E 9 E-3 | 3000 | 3375 | 1 |
| 8620610 | **10 E-4** | 700 | E 9 E-4 | 4000 | 4540 | 1 |
| 8620880 | **10 E-5** | 800 | E 9 E-5 | 5000 | 5925 | 1 |
| 8620960 | **10 E-6** | 800 | E 9 E-5 | 6000 | 6925 | 1 |
| 8621500 | **10 H-3** | 600 | E 9 H-3 | 3000 | 3475 | 1 |
| 8621690 | **10 H-4** | 700 | E 9 H-4 | 4000 | 4610 | 1 |
| 8621770 | **10 H-5** | 800 | E 9 H-5 | 5000 | 5755 | 1 |
| 8621850 | **10 H-6** | 800 | E 9 H-5 | 6000 | 6835 | 1 |

## 17 E

### STONE SLEDGE HAMMER

- Hammer head forged with sharp cutting edge
- With ash handle DIN 5112

| Code | No. | mm | Spare handle | | | |
|---|---|---|---|---|---|---|
| 8627540 | **17 E-3** | 600 | E 9 E-3 | 3000 | 3310 | 1 |
| 8627620 | **17 E-4** | 700 | E 9 E-4 | 4000 | 4670 | 1 |
| 8627700 | **17 E-5** | 800 | E 9 E-5 | 5000 | 5670 | 1 |
| 8627890 | **17 E-6** | 800 | E 9 E-5 | 6000 | 6530 | 1 |
| 8627970 | **17 E-8** | 900 | E 9 E-8 | 8000 | 8730 | 1 |
| 8628000 | **17 E-10** | 900 | E 9 E-8 | 10000 | 10870 | 1 |

Quantities in packs may vary.

# BRICKLAYER'S HAMMERS

## 29 E

### BRICKLAYER'S HAMMER Rhineland pattern

- Head only (29) or with ash handle (29 E)
- Spare handle E 29 E

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8656210 | **29-500** | | 500 | 480 | 6 |
| 8656480 | **29-600** | | 600 | 590 | 6 |
| 8656990 | **29 E-500** | 300 | 500 | 580 | 6 |
| 8657020 | **29 E-600** | 300 | 600 | 710 | 6 |
| 8657100 | **E 29 E-500** | 300 | | 200 | 10 |

## 29 ST

### BRICKLAYER'S HAMMER Rhineland pattern

- With steel tube handle and plastic grip
- Very robust and durable

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8657370 | **29 ST** | 270 | 500 | 790 | 6 |

## 30 E

### BRICKLAYER'S HAMMER Dutch pattern

- With ash handle
- Spare handle E 30 E

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8657530 | **30 E-500** | 300 | 500 | 610 | 6 |
| 8657610 | **30 E-700** | 350 | 700 | 970 | 6 |
| 8657880 | **E 30 E-500** | 300 | | 140 | 10 |
| 8657960 | **E 30 E-700** | 350 | | 140 | 10 |

# CARPENTER'S HAMMERS

## 94 E

### BRICKLAYER'S HAMMER Berlin pattern

- With ash handle
- Spare handle E 94 E

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8696940 | **94 E-600** | 280 | 600 | 790 | 6 |
| 8697080 | **E 94 E-600** | 280 | | 120 | 10 |

## 94 ST

### BRICKLAYER'S HAMMER Berlin pattern

- With steel tube handle and plastic grip
- Very robust and durable

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8697240 | **94 ST** | 270 | 600 | 891 | 6 |

## 93 ST

### BUILDER'S HATCHET

- With steel tube handle and plastic grip
- Very robust and durable

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8696510 | **93 ST** | 300 | 600 | 909 | 6 |



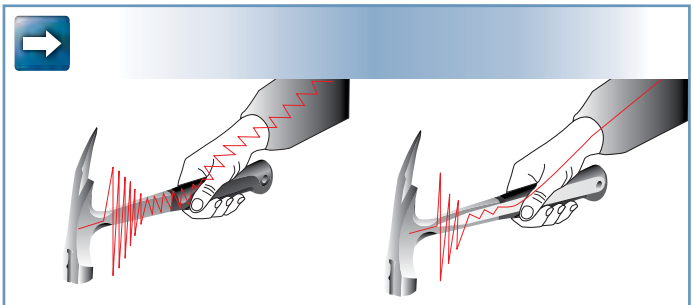
Quantities in packs may vary.

## 75 GSTM

### CARPENTER'S HAMMER

- Head and handle forged in one piece, nearly unbreakable
- Ergonomic, air-cushioned 2-component handle
- Optimum impact force - a result of its perfect balance
- Fatigue-free working due to the new anti-vibration system
- With straight-through shaft right to the end of the handle
- With magnetic nail holder

| Code | No. | mm | | |
|---|---|---|---|---|
| 1576143 | **75 GSTM** | 340 | 873 | 6 |



- The anti-vibration system of the 75 GSTM and 71 GSTM allows safe, powerful hammer blows
- With conventional all-steel hammers, jarring vibrations are transmitted through to the user's arm on every impact

## 575 F + 575 FM

### CARPENTER'S HAMMER

- Nearly unbreakable fibreglass handle with plastic grip and secured head
- With hardened handle protective steel sleeve
- 575 F without magnet
- 575 FM with magnet

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8863350 | **575 F** | 300 | 600 | 840 | 6 |
| 8863430 | **575 FM** | 300 | 600 | 810 | 6 |

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539

## 75 ST + 75 STM

### CARPENTER'S HAMMER

- With steel tube handle and plastic grip
- 75 ST without magnet
- 75 STM with magnet
- Very robust and durable

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8688920 | **75 ST** | 300 | 600 | 851 | 6 |
| 8689220 | **75 STM** | 300 | 600 | 835 | 6 |

## 75 STK + 75 STKM

### CARPENTER'S HAMMER

- With steel tube handle, plastic grip and secured head
- 75 STK without magnet
- 75 STKM with magnet
- Very robust and durable

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8692440 | **75 STK** | 300 | 600 | 839 | 6 |
| 8813090 | **75 STKM** | 300 | 600 | 847 | 6 |

# CLAW HAMMERS

## 71 GSTM

### CLAW HAMMER, AMERICAN PATTERN

- Head and handle forged in one piece, nearly unbreakable
- Ergonomic, air-cushioned 2-component handle
- Optimum impact force - a result of its perfect balance
- Fatigue-free working due to the new anti-vibration system
- With straight-through shaft right to the end of the handle
- With magnetic nail holder

| Code | No. | Ø mm | oz | | |
|---|---|---|---|---|---|
| 1629670 | **71 GSTM** | 27 | 20 | 823 | 6 |

Quantities in packs may vary.

# HAMMERS MISCELLANEOUS

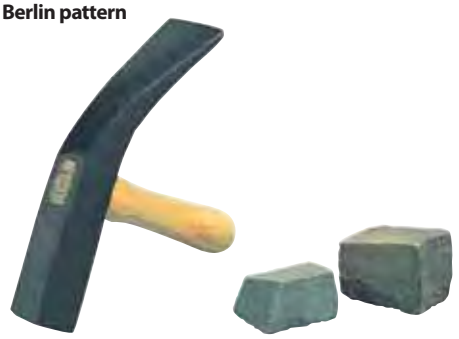
## 79

### BRICK BOLSTER
- Made from special steel

| Code | No. | mm | | |
|---|---|---|---|---|
| 8692010 | **79-60** | 60 | 570 | 1 |
| 8692280 | **79-80** | 80 | 720 | 1 |
| 8692360 | **79-100** | 100 | 990 | 1 |

## 35 H

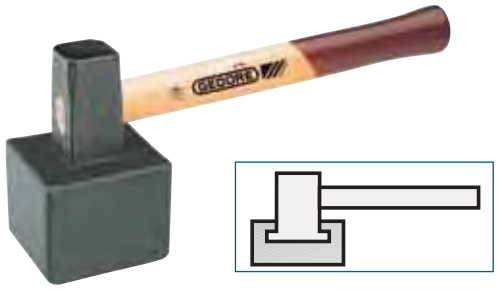
### PAVING HAMMER Berlin pattern
- With hickory handle
- Spare handle E 35 H



| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 1488295 | **35 H-1000** | 175 | 1000 | 1088 | 6 |
| 1488309 | **35 H-1500** | 175 | 1500 | 1690 | 6 |
| 1488317 | **35 H-2000** | 175 | 2000 | 2298 | 6 |
| 1476718 | **E 35 H-1000** | 175 | | 94 | 10 |
| 1476726 | **E 35 H-1500** | 175 | | 105 | 10 |
| 1476734 | **E 35 H-2000** | 175 | | 112 | 10 |

## 18 E

### PAVING HAMMER SQUARE
- With welded plate and large vulcanised rubber block
- With ash handle
- Spare handle E 18 E



| Code | No. | mm | | |
|---|---|---|---|---|
| 8883700 | **18 E** | 360 | 2525 | 1 |
| 8883890 | **E 18 E** | 360 | 345 | 1 |

## 19 E

### PAVING HAMMER ROUND
- With welded plate and large vulcanised rubber block
- With ash handle
- Spare handle E 18 E

| Code | No. | mm | | |
|---|---|---|---|---|
| 1628216 | **19 E** | 360 | 2130 | 1 |
| 8883890 | **E 18 E** | 360 | 345 | 1 |

## 43 E

### VENEER HAMMER
- With ash handle DIN 5111
- Spare handle E 4 E

| Code | No. | mm | mm | | | |
|---|---|---|---|---|---|---|
| 8665630 | **43 E-500** | 320 | 90 | 500 | 590 | 6 |
| 8588380 | **E 4 E-500** | 320 | | | 160 | 10 |

## 213 H - 214 H

### TILE HAMMER pointed or flat
- Head made from chrome-vanadium steel
- Face hardened and tempered
- With hickory handle, handle protective sleeve and safety screw for a durable safe connection of handle and hammer head
- With point (213 H) or edge (214 H)

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8916300 | **213 H-50** | 290 | 50 | 113 | 6 |
| 8926960 | **213 H-75** | 290 | 75 | 139 | 6 |
| 8916490 | **214 H-50** | 290 | 50 | 114 | 6 |
| 8927180 | **214 H-75** | 290 | 75 | 170 | 6 |

## 72 H

### GLAZIERS HAMMER polished
- With hickory handle, steel sleeve and safety screw for a durable safe connection of handle and hammer head

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 1541935 | **72 H-100** | 300 | 100 | 212 | 6 |
| 1541730 | **E 72 H-100** | 300 | | 40 | 10 |



Quantities in packs may vary.

## 570 H

### MAGNETIC HAMMER ROTBAND

- Hickory handle with hardened handle protective steel sleeve
- With magnet
- Spare handle E 570 H-100

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8856490 | **570 H** | 300 | 100 | 900 | 6 |
| 2015684 | **E 570 H-100** | 260 | | 48 | 10 |

## 76 ST

### GEOLOGIST'S HAMMER

- With very robust and durable steel tube handle with plastic grip
- Execution SCH with cutting edge
- Execution SP with pointed tip

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8855330 | **76 ST SCH** | 300 | 500 | 780 | 6 |
| 8855410 | **76 ST SP** | 300 | 500 | 770 | 6 |

# SCALING HAMMERS

## 677 H

### SCALING HAMMER ROTBAND-PLUS

- Forged hammer head
- Contoured hickory handle DIN 5111 with additional long, hardened steel sleeve
- The sleeve, tapered collar, fixing plate and wood screw bond the hammer head and wood handle into one unit
- Patented handle join, high working safety, long service life, best price-performance ratio

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8671950 | **677 H** | 300 | 300 | 450 | 6 |
| 1822357 | **E 677 H-300** | 300 | | 150 | 10 |

## 77 E

### SCALING HAMMER

- With ash handle DIN 5111
- Spare handle E 4 E

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8690900 | **77 E-300** | 300 | 330 | 390 | 6 |
| 8588030 | **E 4 E-300** | 300 | | 99 | 10 |

## 77 ST

### SCALING HAMMER

- With steel tube handle

| Code | No. | | | |
|---|---|---|---|---|
| 8691390 | **77 ST-400** | 400 | 505 | 6 |

## 41 E

### SCALING HAMMER

- With ash handle DIN 5111
- Spare handle E 4 E

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8665390 | **41 E-500** | 320 | 500 | 640 | 6 |
| 8588380 | **E 4 E-500** | 320 | | 160 | 10 |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539

Quantities in packs may vary.

# Manufacturing process

## Combination hammer KOMBI-PLUS R

1 Solid hard and tempered steel cut to size.

2 Centre turned internally and externally. Sheet steel cover disk punched out.

3 Centre filled with a precisely defined quantity of steel shot and cover disk seal-soldered. The soldering temperature is under the melting temperature of the parts to be joined. Only the solder (non-ferrous metal) is melted. The low soldering temperature ensures an absence of stress in the material. This is important regarding steel side hardening. In this way, no stress cracks arise when tempering. Handle protective sleeve pressed into shape.

4 Welding* the handle protective sleeve. Inductive hardening and annealing of the steel side.

5 Hammer silver powder-coated. GEDORE logo tampon-printed. Polyamide hammer head turned and pressed on.

*** Why isn't the complex soldering procedure used here?**

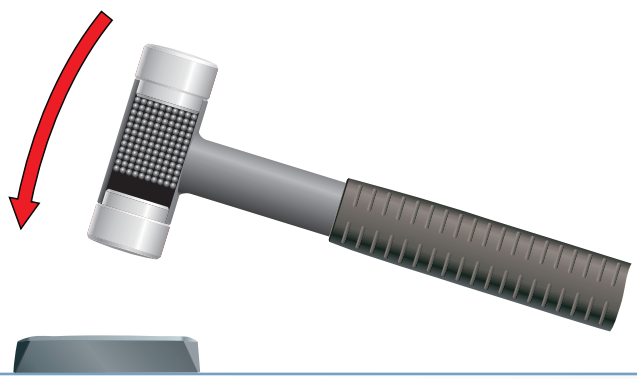
The hammer handle is the weakest element in this system. The hammer handle fractures ahead of the weld.

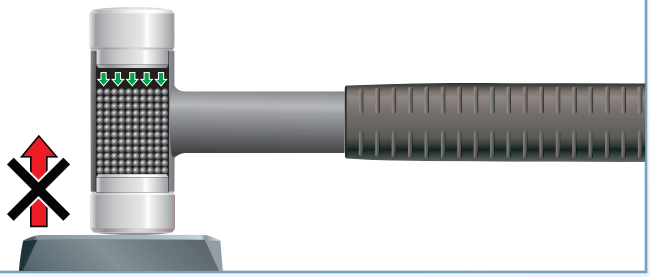
6 Hickory hammer handle which for safety's sake is pinned together with the handle protective sleeve.

## Function

### Recoilless hammers

- The hollow hammer head is filled with steel shot. Small steel balls with a high carbon content.
- Workpiece "adhesion" and a "fully-felt" strike come from the practically 100% pulse transfer onto the workpiece.
- The impact (colloquial term for pulse) results principally from the kinetic energy of the fine-grained steel shot.
- The hammer head mass is slight compared to steel shot.
- That is why the counter pulse triggered by the hammer head is not felt.
- Bouncing blows are avoided.
- Goes easy on one's joints and tendons.





# Manufacturing process

## Recoilless hammer 248 ST

1 Steel tube centre turned to length. Cover disk mounting bored inside. Sheet steel cover disk punched out, riveted with the locating bolt and welded on one side only. Handle cut to size.

3 Brazing ensures that centre and handle are materially bonded. The soldering temperature is under the melting temperature of the parts to be joined. Only the solder (non-ferrous metal) is melted. The low soldering temperature ensures an absence of stress in the material. This prevents stress cracks detaching the centre from handle.

2 Centre filled with a precisely defined quantity of steel shot and seal-welded. Handle, radius integrally moulded.

4 Hammer silver powder-coated. GEDORE logo and GS symbol (VPA) tampon-printed. Polyamide hammer heads turned.

5 Hammer heads pressed on and hand grip pushed on.

### Your advantage:

- Due to the special filling insert in the hammer head a considerably higher impact is made compared to standard engineers' and recoilless hammers
- Universal use for service and assembly work, with all the advantages of a recoilless hammer with higher impact
- "Dead blows" with no recoil reduce stress on muscles, nerves and wrists
- Lower cost due to universal use as an engineer's and recoilless hammer
- Recoilless hammers protect sensitive surfaces
- Each blow is more effective than standard safety hammers
- Available with hickory, tubular steel or fibreglass handles
- Exchangeable inserts, resistant to breakage or wear, made of modified polyamide

# RECOILLESS HAMMERS

## 248 H

### RECOILLESS HAMMER

- With hickory handle
- Splinter-proof, shatter-proof and wear-resistant polyamide heads, 75 Shore D, tested to -20° C
- Powder-coated with silver hammer-effect enamel

| Code | No. | mm | Ø mm | | |
|---|---|---|---|---|---|
| 8728220 | **248 H-25** | 305 | 25 | 300 | 1 |
| 8868230 | **248 H-30** | 330 | 30 | 470 | 6 |
| 8868310 | **248 H-35** | 335 | 35 | 590 | 6 |
| 8868580 | **248 H-40** | 360 | 40 | 730 | 6 |
| 8868660 | **248 H-45** | 365 | 45 | 870 | 6 |
| 8868740 | **248 H-50** | 370 | 50 | 1020 | 1 |
| 8868820 | **248 H-60** | 370 | 60 | 1650 | 1 |
| 8728300 | **248 H-70** | 370 | 70 | 2330 | 1 |
| 8728490 | **248 H-80** | 880 | 80 | 4270 | 1 |
| 8728570 | **248 H-100** | 1000 | 100 | 6935 | 1 |

## E 248 H

### SPARE HANDLE HICKORY

| Code | No. | mm | | |
|---|---|---|---|---|
| 8739690 | **E 248 H-25** | 280 | 62 | 10 |
| 8739770 | **E 248 H-30-35** | 300 | 120 | 10 |
| 8739850 | **E 248 H-40-45** | 320 | 140 | 10 |
| 8739930 | **E 248 H-50** | 320 | 180 | 10 |
| 8740000 | **E 248 H-60-70** | 310 | 210 | 10 |
| 8740190 | **E 248 H-80** | 800 | 680 | 10 |
| 8740270 | **E 248 H-100** | 900 | 1100 | 10 |

## 248 F

### RECOILLESS HAMMER

- Nearly unbreakable fibreglass handle with handy plastic grip and secured head
- Splinter-proof, shatter-proof and wear-resistant polyamide heads, 75 Shore D, tested to -20° C
- Powder-coated with silver hammer-effect enamel

| Code | No. | mm | Ø mm | | |
|---|---|---|---|---|---|
| 8724310 | **248 F-25** | 290 | 25 | 400 | 1 |
| 8867690 | **248 F-30** | 305 | 30 | 550 | 6 |
| 8867770 | **248 F-35** | 310 | 35 | 730 | 6 |
| 8867850 | **248 F-40** | 315 | 40 | 780 | 6 |
| 8867930 | **248 F-45** | 320 | 45 | 940 | 6 |
| 8868070 | **248 F-50** | 325 | 50 | 1120 | 1 |
| 8868150 | **248 F-60** | 335 | 60 | 1680 | 1 |

## 248 ST

### RECOILLESS HAMMER

- With very robust and durable steel tube handle
- Splinter-proof, shatter-proof and wear-resistant polyamide heads, 75 Shore D, tested to -20° C
- Powder-coated with silver hammer-effect enamel

| Code | No. | mm | Ø mm | | |
|---|---|---|---|---|---|
| 8724070 | **248 ST-25** | 270 | 25 | 440 | 1 |
| 8828950 | **248 ST-30** | 290 | 30 | 590 | 6 |
| 8829090 | **248 ST-35** | 295 | 35 | 710 | 6 |
| 8829170 | **248 ST-40** | 300 | 40 | 810 | 6 |
| 8829410 | **248 ST-45** | 305 | 45 | 980 | 6 |
| 8829250 | **248 ST-50** | 310 | 50 | 1070 | 1 |
| 8829330 | **248 ST-60** | 335 | 60 | 1790 | 1 |
| 8724150 | **248 ST-70** | 335 | 70 | 2430 | 1 |

## E 248

### POLYAMIDE SPARE HEAD (PIECE)

- Splinter-proof, shatter-proof and wear-resistant polyamide

| Code | No. | Ø mm | | |
|---|---|---|---|---|
| 8747790 | **E 248-20** | 20 | 10 | 1 |
| 8747870 | **E 248-25** | 25 | 10 | 1 |
| 8830260 | **E 248-30** | 30 | 15 | 1 |
| 8830340 | **E 248-35** | 35 | 21 | 1 |
| 8830420 | **E 248-40** | 40 | 31 | 1 |
| 8829920 | **E 248-45** | 45 | 40 | 1 |
| 8830500 | **E 248-50** | 50 | 50 | 1 |
| 8830690 | **E 248-60** | 60 | 90 | 1 |
| 8748410 | **E 248-70** | 70 | 130 | 1 |
| 8748680 | **E 248-80** | 80 | 190 | 1 |
| 8748760 | **E 248-100** | 100 | 350 | 1 |

## 248 KL

### RECOILLESS IMPACT TOOL

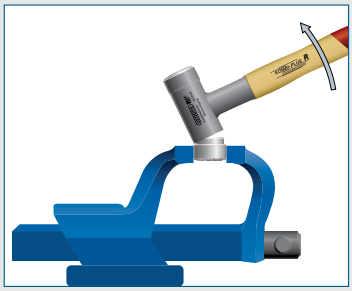
- Splinter-proof, shatter-proof and wear-resistant polyamide heads, 75 Shore D, tested to -20° C
- Powder-coated with silver hammer-effect enamel

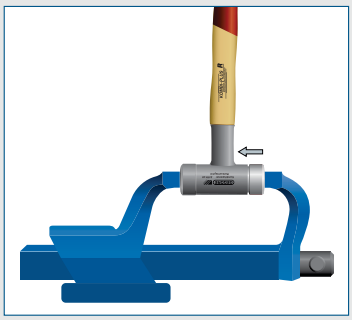
| Code | No. | mm | Ø mm | | |
|---|---|---|---|---|---|
| 8746980 | **248 KL-20** | 150 | 20 | 220 | 1 |
| 8747010 | **248 KL-25** | 154 | 25 | 310 | 1 |
| 8747280 | **248 KL-30** | 155 | 30 | 440 | 1 |
| 8747360 | **248 KL-35** | 155 | 35 | 610 | 1 |
| 8747440 | **248 KL-40** | 160 | 40 | 790 | 1 |
| 8747520 | **248 KL-45** | 160 | 45 | 1010 | 1 |
| 8747600 | **248 KL-50** | 165 | 50 | 1230 | 1 |



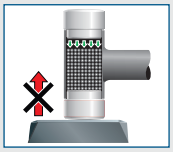
Quantities in packs may vary.

## KOMBI-PLUS R





+ With exchangeable head in break and wear-resistant polyamide
+ Steel sleeve for protection from damage when the hammer misses its target
+ Ergonomically designed handle made from high-quality hickory, extremely bend resistant and fail safe
+ Handle is additionally secured by split pin



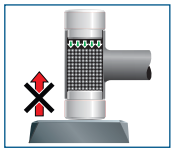
### 247 H

**COMBINATION HAMMER KOMBI-PLUS R**

- Reduced expense due to versatile use as an engineer's and recoilless hammer
- Universal use for service and assembly work
- With all advantages of a recoilless hammer with higher impact
- Less energy necessary, easier working
- With exchangeable splinter-proof, shatter-proof and wear-resistant polyamide head (E 247), 75 Shore D, tested to -20 °C
- With hickory handle
- Spare handle E 247 H
- DBGM (German utility patent)

247 H-35

247 H-30-200



| Code | No. | mm | ∅ mm | | |
|---|---|---|---|---|---|
| 1603299 | **247 H-30** | 305 | 30 | 460 | 6 |
| 1885979 | **247 H-30-200** | 200 | 30 | 480 | 6 |
| 1603396 | **247 H-35** | 310 | 35 | 690 | 6 |
| 1687883 | **247 H-40** | 330 | 40 | 840 | 6 |
| 1605313 | **E 247 H-30** | 270 | | 100 | 1 |
| 1887521 | **E 247 H-30-200** | 200 | | 80 | 10 |
| 1630709 | **E 247 H-35** | 270 | | 120 | 1 |
| 1688014 | **E 247 H-40** | 290 | | 126 | 1 |
| 1605305 | **E 247-30** | | 30 | 21 | 1 |
| 1605380 | **E 247-35** | | 35 | 34 | 1 |
| 1688022 | **E 247-40** | | 40 | 40 | 1 |

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Quantities in packs may vary.

## 250

### SAFETY HAMMER SOFT-PLUS

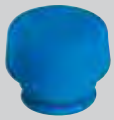
- Safety hammer with maleable cast iron shells
- With hickory handle and interchangeable heads
- Slots in the head and grooves in the shells provide an absolute safe connection
- The screw is guided through the handle and connected with a self-locking nut. This provides highest safety

| Code | No. | mm | mm | ∅ mm | | |
|---|---|---|---|---|---|---|
| 1446010 | **250 AB-30** | 87 | 290 | 30 | 321 | 6 |
| 1446029 | **250 AB-40** | 110 | 325 | 40 | 660 | 6 |
| 1446037 | **250 AB-50** | 131 | 360 | 50 | 1100 | 6 |
| 1445936 | **250 AG-30** | 87 | 290 | 30 | 335 | 6 |
| 1445960 | **250 AG-40** | 110 | 325 | 40 | 656 | 6 |
| 1445979 | **250 AG-50** | 131 | 360 | 50 | 1140 | 6 |
| 1446088 | **250 AS-30** | 87 | 290 | 30 | 386 | 6 |
| 1446118 | **250 AS-40** | 110 | 325 | 40 | 690 | 6 |
| 1446134 | **250 AS-50** | 131 | 360 | 50 | 1135 | 6 |
| 1445898 | **250 BG-30** | 87 | 290 | 30 | 328 | 6 |
| 1445901 | **250 BG-40** | 110 | 325 | 40 | 646 | 6 |
| 1445928 | **250 BG-50** | 131 | 360 | 50 | 1102 | 6 |
| 1446045 | **250 BS-30** | 87 | 290 | 30 | 328 | 6 |
| 1446053 | **250 BS-40** | 110 | 325 | 40 | 658 | 6 |
| 1446061 | **250 BS-50** | 131 | 360 | 50 | 1110 | 6 |
| 1445987 | **250 GS-30** | 87 | 290 | 30 | 335 | 6 |
| 1445995 | **250 GS-40** | 110 | 325 | 40 | 671 | 6 |
| 1446002 | **250 GS-50** | 131 | 360 | 50 | 1130 | 6 |

## SAFETY HAMMER SOFT-PLUS

**SOFT-PLUS heads**

- Blue (B) = soft, 20 Shore D
  Material: Elastomer
  For sensitive work pieces, light metal production, furniture industry, assembly works, etc.



- Black (S) = medium soft, 45 Shore D
  Material: Caoutchouc
  For sturdy applications, pavement craft, etc.

- Yellow (G) = medium hard, 63 Shore D
  Material: Polyurethane
  For universal applications, tooling and machine industry, automotive workshops, sheet metal work, etc.

- Anthracite (A) = hard, 70 Shore D
  Material: Polyurethane
  For high striking power, road building, etc.

## E 250

### SPARE HEAD SOFT-PLUS

- For safety hammer 250
- Splinter-proof, shatter-proof, wear-resistant
- Colour fast
- Cadmium free

| Code | No. | ∅ mm | | |
|---|---|---|---|---|
| 1445200 | **E 250 A-30** | 30 | 27 | 1 |
| 1445219 | **E 250 A-40** | 40 | 58 | 1 |
| 1445227 | **E 250 A-50** | 50 | 116 | 1 |
| 1445111 | **E 250 B-30** | 30 | 20 | 1 |
| 1445154 | **E 250 B-40** | 40 | 45 | 1 |
| 1445162 | **E 250 B-50** | 50 | 85 | 1 |
| 1445170 | **E 250 G-30** | 30 | 26 | 1 |
| 1445189 | **E 250 G-40** | 40 | 60 | 1 |
| 1445197 | **E 250 G-50** | 50 | 116 | 1 |
| 1445235 | **E 250 S-30** | 30 | 30 | 1 |
| 1445243 | **E 250 S-40** | 40 | 70 | 1 |
| 1445251 | **E 250 S-50** | 50 | 115 | 1 |

## E 250 H

### SPARE HANDLE SOFT-PLUS

- For safety hammer no. 250
- Made from hickory

| Code | No. | mm | | |
|---|---|---|---|---|
| 1445715 | **E 250 H-30** | 275 | 90 | 10 |
| 1445723 | **E 250 H-40** | 300 | 132 | 10 |
| 1445758 | **E 250 H-50** | 330 | 176 | 10 |

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## E 250 T

### MALLEABLE CAST IRON SHELLS SOFT-PLUS

- For safety hammer no. 250, 1 pair
- Made from high-quality malleable cast iron
- Safety connection included
- Extremely resistant

| Code | No. | ∅ mm | | |
|---|---|---|---|---|
| 1445073 | **E 250 T-30** | 30 | 160 | 1 |
| 1445081 | **E 250 T-40** | 40 | 365 | 1 |
| 1445103 | **E 250 T-50** | 50 | 710 | 1 |



Quantities in packs may vary.

# SAFETY HAMMERS

## 224 E

### PLASTIC HAMMER

- With exchangeable heads made from yellow shatter-proof cellulose acetate
- With ash handle
- 65 Shore D

| Code | No. | mm | ∅ mm | | |
|---|---|---|---|---|---|
| 8821270 | **224 E-22** | 250 | 22 | 157 | 6 |
| 8821350 | **224 E-27** | 270 | 27 | 242 | 6 |
| 8821430 | **224 E-32** | 280 | 32 | 365 | 6 |
| 8821510 | **224 E-35** | 290 | 35 | 445 | 6 |
| 8821780 | **224 E-40** | 320 | 40 | 600 | 6 |
| 8821860 | **224 E-50** | 340 | 50 | 913 | 6 |
| 8821940 | **224 E-60** | 380 | 60 | 1392 | 6 |

| Code | Spare head No. | ∅ mm | | |
|---|---|---|---|---|
| 8822590 | **E 224-22** | 22 | 5 | 1 |
| 8822670 | **E 224-27** | 27 | 15 | 1 |
| 8822750 | **E 224-32** | 32 | 25 | 1 |
| 8822830 | **E 224-35** | 35 | 30 | 1 |
| 8822910 | **E 224-40** | 40 | 40 | 1 |
| 8823050 | **E 224-50** | 50 | 70 | 1 |
| 8823130 | **E 224-60** | 60 | 110 | 1 |

## 225 E

### NYLON HAMMER

- With exchangeable heads made from impact-resistant nylon
- With ash handle
- 60 Shore D

| Code | No. | mm | ∅ mm | | |
|---|---|---|---|---|---|
| 8805310 | **225 E-22** | 250 | 22 | 160 | 6 |
| 8805580 | **225 E-27** | 270 | 27 | 250 | 6 |
| 8805660 | **225 E-32** | 280 | 32 | 350 | 6 |
| 8805740 | **225 E-35** | 290 | 35 | 420 | 6 |
| 8805820 | **225 E-40** | 320 | 40 | 580 | 6 |
| 8805900 | **225 E-50** | 340 | 50 | 900 | 6 |
| 8806040 | **225 E-60** | 380 | 60 | 1340 | 6 |

| Code | Spare head No. | ∅ mm | | |
|---|---|---|---|---|
| 8814220 | **E 225-22** | 22 | 5 | 1 |
| 8814300 | **E 225-27** | 27 | 10 | 1 |
| 8814490 | **E 225-32** | 32 | 15 | 1 |
| 8814570 | **E 225-35** | 35 | 25 | 1 |
| 8814650 | **E 225-40** | 40 | 30 | 1 |
| 8814730 | **E 225-50** | 50 | 55 | 1 |
| 8814810 | **E 225-60** | 60 | 85 | 1 |

## E 224 E

### SPARE HANDLE for no. 224 E + 225 E

| Code | No. | mm | | |
|---|---|---|---|---|
| 8823210 | **E 224 E-22** | 250 | 60 | 10 |
| 8823480 | **E 224 E-27** | 270 | 60 | 10 |
| 8823560 | **E 224 E-32** | 280 | 80 | 10 |
| 8823640 | **E 224 E-35** | 290 | 60 | 10 |
| 8823720 | **E 224 E-40** | 320 | 100 | 10 |
| 8824290 | **E 224 E-50** | 340 | 100 | 10 |
| 8824370 | **E 224 E-60** | 380 | 115 | 10 |

## 226 E

### RUBBER MALLET hard

- DIN 5128-90, 90 Shore A
- With two flat surfaces
- **2 A** with one curved and one flat surface
- With ash handle

| Code | No. | mm | mm | ∅ mm | | |
|---|---|---|---|---|---|---|
| 8825500 | **226 E-0** | 80 | 260 | 40 | 210 | 6 |
| 8825690 | **226 E-1** | 90 | 320 | 55 | 370 | 6 |
| 8825770 | **226 E-2** | 115 | 340 | 65 | 630 | 6 |
| 8825850 | **226 E-2 A** | 115 | 340 | 65 | 578 | 6 |
| 8825930 | **226 E-3** | 130 | 380 | 75 | 990 | 6 |
| 8826070 | **226 E-4** | 140 | 380 | 90 | 1460 | 6 |

## 227 E

### RUBBER MALLET soft

- DIN 5128-60, 60 Shore A
- With two flat surfaces
- **2 A** with one curved and one flat surface
- With ash handle

| Code | No. | mm | mm | ∅ mm | | |
|---|---|---|---|---|---|---|
| 8826660 | **227 E-0** | 80 | 260 | 40 | 150 | 6 |
| 8826740 | **227 E-1** | 90 | 320 | 55 | 320 | 6 |
| 8826820 | **227 E-2** | 115 | 340 | 65 | 540 | 6 |
| 8826900 | **227 E-2 A** | 115 | 340 | 65 | 430 | 6 |
| 8827040 | **227 E-3** | 130 | 380 | 75 | 770 | 6 |
| 8827120 | **227 E-4** | 140 | 380 | 90 | 1050 | 6 |

## E 226 E

### SPARE HANDLE ASH for no. 226 E + 227 E

| Code | No. | mm | | |
|---|---|---|---|---|
| 8826230 | **E 226 E-0** | 260 | 43 | 10 |
| 8826310 | **E 226 E-1** | 320 | 45 | 10 |
| 8826580 | **E 226 E-2** | 340 | 100 | 10 |
| 8827200 | **E 226 E-3** | 380 | 130 | 10 |
| 8827390 | **E 226 E-4** | 380 | 170 | 10 |

Quantities in packs may vary.

# WOODEN / COPPER / LEAD HAMMERS

## 228

### WOODEN MALLET

- Made from white beech wood
- Acc. to DIN 7462 A

| Code | No. | mm | ∅ mm | | |
|---|---|---|---|---|---|
| 8828010 | **228-60** | 300 | 60 | 350 | 6 |
| 8828280 | **228-70** | 340 | 70 | 470 | 6 |

## 229

### WOODEN MALLET

- Head made from white beech wood with pressed steel holder
- With oval ash handle
- Acc. to DIN 7462 B

| Code | No. | mm | ∅ mm | | |
|---|---|---|---|---|---|
| 8601230 | **229-60** | 310 | 60 | 340 | 6 |
| 8601310 | **229-70** | 320 | 70 | 610 | 6 |
| 8605060 | **229-80** | 350 | 80 | 820 | 6 |

## 21 F

### LIGHT METAL HAMMER

- Cylindrical pattern
- Nearly unbreakable fibreglass handle with plastic grip

| Code | No. | mm | ∅ mm | | | |
|---|---|---|---|---|---|---|
| 2015110 | **21 F-250** | 300 | 40 | 250 | 440 | 1 |
| 2015129 | **21 F-500** | 320 | 45 | 500 | 710 | 1 |
| 2015137 | **21 F-1000** | 360 | 60 | 1000 | 1250 | 1 |
| 2015145 | **21 F-1500** | 400 | 70 | 1500 | 1790 | 1 |

## 223 H

### LEAD HAMMER

- Barrel shape, with end-to-end split pin
- With hickory handle DIN 5111
- Spare handle E 4 H

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8820460 | **223 H-1000** | 310 | 1000 | 1160 | 6 |
| 8820540 | **223 H-1500** | 350 | 1500 | 1840 | 6 |
| 8591760 | **E 4 H-400** | 320 | | 120 | 10 |
| 8592060 | **E 4 H-800** | 350 | | 210 | 10 |

## 622 H

### COPPER HAMMER ROTBAND-PLUS

- Club shape
- With hickory handle DIN 5111, with additional long hardened handle protective steel sleeve
- Spare handle E 600 H / E 609 H
- The sleeve, tapered collar, fixing plate and wood screw bond the hammer head and wood handle into one unit
- Patented handle join, high working safety, long service life, best price-performance ratio
- Also available in a heavy 5 kg version

| Code | No. | | mm | | | |
|---|---|---|---|---|---|---|
| 8672410 | **622 H-750** | | 350 | 750 | 1120 | 6 |
| 8672680 | **622 H-1000** | | 360 | 1000 | 1468 | 6 |
| 8672760 | **622 H-1500** | | 380 | 1500 | 2075 | 6 |
| 8672840 | **622 H-2000** | | 400 | 2000 | 2300 | 6 |
| 1985094 | **622 H-5** | ✓ | 800 | 5000 | 6150 | 6 |
| 8596640 | **E 600 H-800** | | 350 | | 296 | 10 |
| 8597880 | **E 600 H-1000** | | 360 | | 315 | 10 |
| 8597960 | **E 600 H-1500** | | 380 | | 373 | 10 |
| 8599070 | **E 600 H-2000** | | 400 | | 442 | 10 |
| 8683530 | **E 609 H-5** | | 800 | | 1120 | 1 |

## 22 H

### COPPER HAMMER

- Club shape
- Forged hammer head with accurate chamfer
- With hickory handle DIN 5111
- Spare handle E 4 H

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 1583999 | **22 H-250** | 300 | 250 | 316 | 6 |
| 1584006 | **22 H-500** | 320 | 500 | 715 | 6 |
| 8867260 | **22 H-750** | 350 | 750 | 1050 | 6 |
| 8867340 | **22 H-1000** | 360 | 1000 | 1333 | 6 |
| 8867420 | **22 H-1500** | 380 | 1500 | 1933 | 6 |
| 8867500 | **22 H-2000** | 400 | 2000 | 2341 | 6 |
| 8591410 | **E 4 H-200** | 300 | | 85 | 10 |
| 8591760 | **E 4 H-400** | 320 | | 120 | 10 |
| 8592060 | **E 4 H-800** | 350 | | 210 | 10 |
| 8592140 | **E 4 H-1000** | 360 | | 225 | 10 |
| 8592220 | **E 4 H-1500** | 380 | | 190 | 10 |
| 8592300 | **E 4 H-2000** | 400 | | 280 | 10 |

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Quantities in packs may vary.

## 23 E

### COPPER HAMMER

- Club shape
- With ash handle DIN 5111
- Spare handle E 4 E

| Code | No. | mm | g | g | |
|---|---|---|---|---|---|
| 1599275 | **23 E-250** | 300 | 250 | 333 | 6 |
| 1599585 | **23 E-500** | 320 | 500 | 689 | 6 |
| 1599593 | **23 E-750** | 350 | 750 | 950 | 6 |
| 1599607 | **23 E-1000** | 360 | 1000 | 1141 | 6 |
| 1599623 | **23 E-1500** | 380 | 1500 | 1991 | 6 |
| 1599631 | **23 E-2000** | 400 | 2000 | 2282 | 6 |
| 8588030 | **E 4 E-300** | 300 | | 99 | 10 |
| 8588380 | **E 4 E-500** | 320 | | 160 | 10 |
| 8588540 | **E 4 E-800** | 350 | | 165 | 10 |
| 8588620 | **E 4 E-1000** | 360 | | 183 | 10 |
| 8588700 | **E 4 E-1500** | 380 | | 196 | 10 |
| 8588890 | **E 4 E-2000** | 400 | | 261 | 10 |

# FORGING TOOLS

## 37 E

### COLD CHISEL HAMMER

- With ash handle
- Spare handle E 37 E

| Code | No. | mm | g | g | |
|---|---|---|---|---|---|
| 8663850 | **37 E-1500** | 600 | 1500 | 1810 | 1 |
| 8663930 | **E 37 E-1500** | 600 | | 270 | 1 |

## 38 E

### HOT CHISEL HAMMER

- With ash handle
- Spare handle E 37 E

| Code | No. | mm | g | g | |
|---|---|---|---|---|---|
| 8664310 | **38 E-1500** | 600 | 1500 | 1760 | 1 |
| 8663930 | **E 37 E-1500** | 600 | | 270 | 1 |

## 48 E

### SQUARE FLATTER

- With ash handle
- Spare handle E 37 E

| Code | No. | mm | mm | g | g | |
|---|---|---|---|---|---|---|
| 8669620 | **48 E-70** | 70 | 600 | 1600 | 2240 | 1 |
| 8663930 | **E 37 E-1500** | | 600 | | 270 | 1 |

## 49 E

### SET HAMMER

- With ash handle
- Spare handle E 37 E

| Code | No. | mm | mm | g | g | |
|---|---|---|---|---|---|---|
| 8670120 | **49 E-50** | 50 | 600 | 1900 | 2400 | 1 |
| 8663930 | **E 37 E-1500** | | 600 | | 270 | 1 |

## 50

### BOTTOM ANVIL TOOL

- Pin 25 mm

| Code | No. | mm | g | |
|---|---|---|---|---|
| 8670550 | **50-50** | 50 | 1030 | 1 |

## 51 E

### TOP FULLER

- With ash handle
- Spare handle E 37 E

| Code | No. | mm | mm | g | g | |
|---|---|---|---|---|---|---|
| 8671520 | **51 E-15** | 15 | 600 | 900 | 1310 | 1 |
| 8671600 | **51 E-20** | 20 | 600 | 950 | 1330 | 1 |
| 8663930 | **E 37 E-1500** | | 600 | | 270 | 1 |

## 53

### BOTTOM FULLER

- Pin 25 mm

| Code | No. | mm | g | |
|---|---|---|---|---|
| 8672090 | **53-15** | 15 | 1140 | 1 |
| 8672170 | **53-20** | 20 | 1132 | 1 |

Quantities in packs may vary.

## 54 E

### TOP SWAGE

- With ash handle
- Spare handle E 37 E

| Code | No. | ■ mm | mm | | | |
|---|---|---|---|---|---|---|
| 8676830 | **54 E-10** | 10 | 600 | 1000 | 1290 | 1 |
| 8676910 | **54 E-15** | 15 | 600 | 1225 | 1480 | 1 |
| 8677050 | **54 E-20** | 20 | 600 | 1695 | 2050 | 1 |
| 8677130 | **54 E-25** | 25 | 600 | 1850 | 2120 | 1 |
| 8663930 | **E 37 E-1500** | | 600 | | 270 | 1 |

## 55

### BOTTOM SWAGE

- Pin 25 mm

| Code | No. | ■ mm | | |
|---|---|---|---|---|
| 8677720 | **55-10** | 10 | 1050 | 1 |
| 8677800 | **55-15** | 15 | 1090 | 1 |
| 8677990 | **55-20** | 20 | 1100 | 1 |
| 8678020 | **55-25** | 25 | 1052 | 1 |

## 56 E

### PUNCH HAMMER

- With ash handle
- Spare handle E 37 E
- Can be supplied with rebound-dampened tubular steel handle

| Code | No. | Ø mm | mm | | | |
|---|---|---|---|---|---|---|
| 8679500 | **56 E-10** | 10 | 600 | 850 | 1010 | 1 |
| 8679690 | **56 E-15** | 15 | 600 | 1000 | 1480 | 1 |
| 8679770 | **56 E-20** | 20 | 600 | 1470 | 1770 | 1 |
| 8663930 | **E 37 E-1500** | | 600 | | 270 | 1 |

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## 58

### HARDY

- Pin 25 mm

| Code | No. | | |
|---|---|---|---|
| 8680350 | **58-100** | 1190 | 1 |

## 59

### ANVIL HORN

- Pin 25 mm

| Code | No. | | |
|---|---|---|---|
| 8680780 | **59-100** | 1100 | 1 |

## 60 E - 61 E

### SCYTHE HAMMER

- 60 E = double edge with ash handle
- 61 E = single edge with ash handle
- Spare handle E 60 E

| Code | No. | mm | | | |
|---|---|---|---|---|---|
| 8681160 | **60 E-500** | 240 | 500 | 630 | 6 |
| 8681400 | **61 E-500** | 240 | 500 | 610 | 6 |
| 8681590 | **E 60 E-500** | 240 | | 120 | 10 |

## 62 - 63

### SCYTHE ANVIL

| Code | No. | Execution | | |
|---|---|---|---|---|
| 8681830 | **62-500** | tipped | 390 | 1 |
| 8682050 | **63-500** | edged | 560 | 1 |



Quantities in packs may vary.

# BLACKSMITH'S TONGS

## 230

### BLACKSMITH'S TONGS

- Flat nosed

| Code | No. | mm | | |
|---|---|---|---|---|
| 8842510 | **230-300** | 300 | 500 | 1 |
| 8842780 | **230-400** | 400 | 860 | 1 |
| 8842860 | **230-500** | 500 | 1240 | 1 |
| 8842940 | **230-600** | 600 | 1710 | 1 |

## 231

### BLACKSMITH'S TONGS

- Round nosed

| Code | No. | mm | | |
|---|---|---|---|---|
| 8843400 | **231-300** | 300 | 580 | 1 |
| 8843590 | **231-400** | 400 | 870 | 1 |
| 8843670 | **231-500** | 500 | 1220 | 1 |
| 8843750 | **231-600** | 600 | 1610 | 1 |

## 232

### BLACKSMITH'S TONGS

- Half-round nosed

| Code | No. | mm | | |
|---|---|---|---|---|
| 8844210 | **232-300** | 300 | 590 | 1 |
| 8844480 | **232-400** | 400 | 796 | 1 |
| 8844560 | **232-500** | 500 | 1230 | 1 |
| 8844640 | **232-600** | 600 | 1630 | 1 |

## 233

### BLACKSMITH'S TONGS

- Wolf's jaw

| Code | No. | mm | | |
|---|---|---|---|---|
| 8845100 | **233-300** | 300 | 610 | 1 |
| 8845290 | **233-400** | 400 | 930 | 1 |
| 8845370 | **233-500** | 500 | 1320 | 1 |
| 8845450 | **233-600** | 600 | 1790 | 1 |

## 234

### RIVETTING TONGS

| Code | No. | mm | | |
|---|---|---|---|---|
| 8846180 | **234-400** | 400 | 500 | 1 |
| 8846260 | **234-500** | 500 | 850 | 1 |

# SCRAPERS

## 130

### THREE-EDGED BEARING SCRAPER

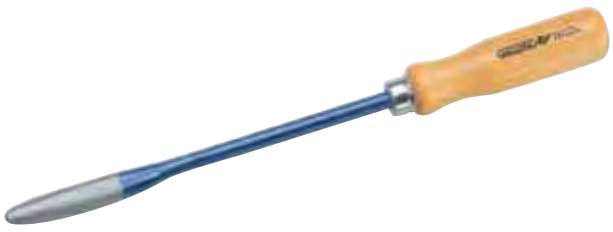
- Made from special steel
- Working ends polished
- With wooden handle
- Flanged blade

| Code | No. | Spoon | | | | |
|---|---|---|---|---|---|---|
| 8777270 | **130-125** | 55 | 125 | 225 | 78 | 10 |
| 8777350 | **130-150** | 70 | 150 | 270 | 136 | 10 |
| 8777430 | **130-200** | 85 | 200 | 315 | 171 | 10 |
| 8777510 | **130-250** | 100 | 250 | 365 | 182 | 10 |

## 131

### CURVED BEARING SCRAPER (LONG SCRAPER) American pattern

- Made from special steel
- Working ends polished
- With wooden handle
- Flanged blade



| Code | No. | Spoon | | | | |
|---|---|---|---|---|---|---|
| 8778160 | **131-125** | 45 | 125 | 225 | 90 | 10 |
| 8778240 | **131-150** | 65 | 150 | 270 | 124 | 10 |
| 8778320 | **131-200** | 85 | 200 | 315 | 100 | 10 |
| 8778400 | **131-250** | 105 | 250 | 365 | 217 | 10 |

Quantities in packs may vary.

## 132

### THREE-EDGED HOLLOW GROUND SCRAPER

- Acc. to DIN 8350 Form C
- Made from special steel
- Working ends polished
- With wooden handle
- Flanged blade

| Code | No. | | | | |
|---|---|---|---|---|---|
| 8778910 | **132-100** | 100 | 200 | 77 | 10 |
| 8779050 | **132-125** | 125 | 225 | 880 | 10 |
| 8779130 | **132-150** | 150 | 270 | 100 | 10 |
| 8779210 | **132-175** | 175 | 295 | 151 | 10 |
| 8779480 | **132-200** | 200 | 315 | 163 | 10 |
| 8779560 | **132-250** | 250 | 365 | 185 | 10 |
| 8779640 | **132-300** | 300 | 415 | 210 | 10 |

## 133 F

### FLAT SCRAPER

- Acc. to DIN 8350 Form A
- Made from special steel
- Working ends polished
- With wooden handle
- Flanged blade

| Code | No. | | | | |
|---|---|---|---|---|---|
| 8780220 | **133 F-100** | 100 | 200 | 107 | 10 |
| 8780300 | **133 F-125** | 125 | 225 | 108 | 10 |
| 8780490 | **133 F-150** | 150 | 270 | 190 | 10 |
| 8780570 | **133 F-175** | 175 | 295 | 208 | 10 |
| 8780650 | **133 F-200** | 200 | 315 | 234 | 10 |
| 8780730 | **133 F-250** | 250 | 365 | 390 | 10 |
| 8780810 | **133 F-300** | 300 | 415 | 420 | 10 |

### Safety instruction for scrapers

Do not touch the sharp working edges.

## 133 H

### HARD METAL TIP FLAT SCRAPER

- Soldered hard metal tip
- Wooden handle

| Code | No. | | | | | | |
|---|---|---|---|---|---|---|---|
| 4523000 | **133 H** | 30 | 5 | 250 | 365 | 350 | 10 |

## 133 D

### GASKET SCRAPER

- Made from special steel
- With wooden handle
- Flanged blade

| Code | No. | | | | |
|---|---|---|---|---|---|
| 1395262 | **133 D-150** | 150 | 260 | 120 | 10 |

## 133 K

### GASKET SCRAPER

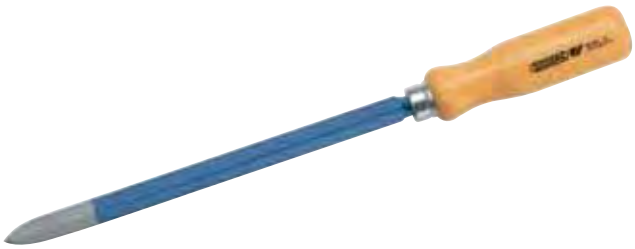
- With plastic handle

| Code | No. | | | | | |
|---|---|---|---|---|---|---|
| 6535190 | **133 K** | 10 | 240 | 22.5 | 154 | 5 |

## 134

### THREE-EDGED FLAT GROUND SCRAPER

- Acc. to DIN 8350 Form B
- Made from special steel
- Working ends polished
- With wooden handle
- Flanged blade



| Code | No. | | | | |
|---|---|---|---|---|---|
| 8781620 | **134-100** | 100 | 200 | 72 | 10 |
| 8781700 | **134-125** | 125 | 225 | 81 | 10 |
| 8781890 | **134-150** | 150 | 270 | 139 | 10 |
| 8781970 | **134-175** | 175 | 295 | 118 | 10 |
| 8782000 | **134-200** | 200 | 315 | 168 | 10 |
| 8782190 | **134-250** | 250 | 365 | 190 | 10 |
| 8782270 | **134-300** | 300 | 415 | 220 | 10 |

## 134 K

### THREE-SQUARE SCRAPER

- With ground edges
- Shaft PVC coated
- Black plastic handle

| Code | No. | | | | | |
|---|---|---|---|---|---|---|
| 4646860 | **134 K** | 6 | 80 | 170 | 60 | 5 |



Quantities in packs may vary.

# Striking Tools

## What is so special about GEDORE striking tools?

- The striking thing about GEDORE striking tools is the 45CrMoV7 material used - one which has a 30 % higher strength (under the same hardness) that the usual DIN 59CrV4 material This very much distinguishes GEDORE striking tools from the products of its competitors. This is very true indeed for nail lifters.
- The material (45CrMoV7) used by GEDORE is a pure air-hardening steel which hardens at a temperature of about 850 °C in still air. This material features both a high level of stability and enormous toughness. Tools cannot break even under the hardest of working conditions.
- GEDORE striking tools are hot forged.
- Pin punches, drift punches and centre punches are also hot forged and thus provided with a very homogeneous structure.
- GEDORE pin punches always have a minus tolerance. This rules out any jamming in the drill hole.
- All tools are fully hardened over their entire length. Tools cannot break even under the hardest of working conditions.
- The hammer heads of our tools are electro-inductively and hence homogeneously tempered. In this way, maximum stability is achieved and splintering avoided.
- The head shape of the GEDORE striking tools is optimally adapted to the radius of the hammer face.

## Safety notes for striking tools

**Chisels**

- Wear safety glasses and safety gloves!
- Before starting work, check that the chisel blade is sharp and the striking end is burr-free! The blades must be properly wet-sharpened!
- Select the appropriate type and size of chisel for the work to be carried out!
- Hold the chisel with a firm grip!
- When working, keep your eyes on the chisel tip!
- Wherever possible, use a chisel with hand guard.
- Never use chisels on workpieces harder than 40 HRC!
- Set safety guards in place to prevent splinters and chips posing a hazard for other people!

**Centre punches, drifts and mortise chisels**

- These tools are subject to the same safety rules as chisels.

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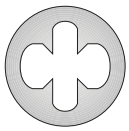
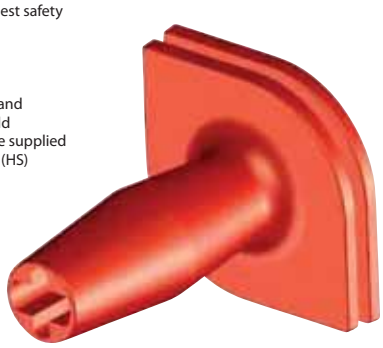
# CHISELS

## 108 UNI

### PROTECTIVE HAND GUARD

- Made from PVC
- Improved protective plate offers highest safety for the hand against impacts
- Ergonomic design
- Avoids injuries of the hand
- No rolling away (elliptical-shaped)
- Jarring blows do not move into the hand
- No fatigue of the hand - optimum hold
- All chisels from 250 mm length can be supplied with universal protective hand guard (HS)
- DBGM (German utility patent)



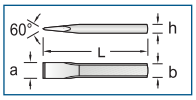


| Code | No. | oval | octagonal | | |
|---|---|---|---|---|---|
| 8658500 | **108 UNI** | 20 x 12<br>23 x 13<br>26 x 13<br>26 x 7 | 14<br>16<br>18<br>20 | 182 | 1 |

## 95

### FLAT COLD CHISEL flat oval

- Acc. to DIN 6453
- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished
- * not standardised

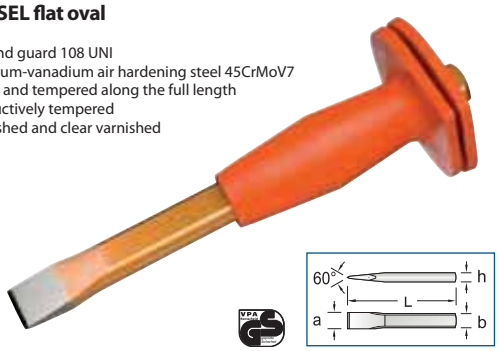


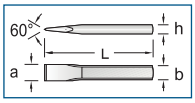

| Code | No. | * | L | a | b | h | | |
|---|---|---|---|---|---|---|---|---|
| 8698560 | **95-100** | | 100 | 15 | 14 | 9 | 75 | 10 |
| 8698640 | **95-125** | | 125 | 15 | 14 | 9 | 100 | 10 |
| 8698720 | **95-150** | | 150 | 18 | 17 | 11 | 190 | 10 |
| 8698800 | **95-175** | | 175 | 21 | 20 | 12 | 280 | 10 |
| 8698990 | **95-200** | | 200 | 24 | 23 | 13 | 390 | 10 |
| 8699610 | **95-225** | * | 225 | 24 | 23 | 13 | 460 | 10 |
| 8699020 | **95-253** | | 250 | 25 | 23 | 13 | 500 | 10 |
| 8699100 | **95-250** | * | 250 | 28 | 26 | 13 | 570 | 10 |
| 8699290 | **95-303** | | 300 | 26 | 23 | 13 | 604 | 10 |
| 8699370 | **95-300** | * | 300 | 30 | 26 | 13 | 710 | 10 |
| 8699450 | **95-400** | * | 400 | 30 | 26 | 13 | 950 | 10 |
| 8699530 | **95-500** | * | 500 | 30 | 26 | 13 | 1160 | 1 |

## 95 HS

### FLAT COLD CHISEL flat oval

- Acc. to DIN 6453
- With protective hand guard 108 UNI
- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished
- * not standardised



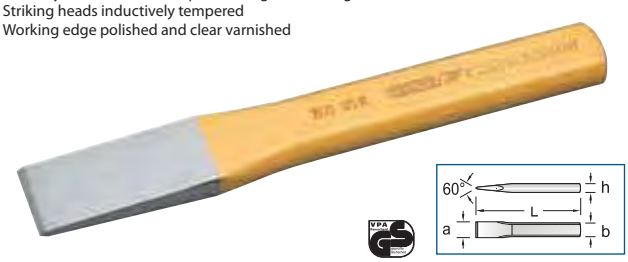


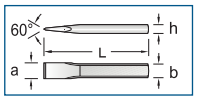

| Code | No. | * | L | a | b | h | | |
|---|---|---|---|---|---|---|---|---|
| 8699880 | **95 HS-253** | | 250 | 25 | 23 | 13 | 630 | 1 |
| 8699960 | **95 HS-250** | * | 250 | 28 | 26 | 13 | 700 | 1 |
| 8700560 | **95 HS-303** | | 300 | 25 | 23 | 13 | 730 | 1 |
| 8700640 | **95 HS-300** | * | 300 | 30 | 26 | 13 | 822 | 1 |
| 8700720 | **95 HS-400** | * | 400 | 30 | 26 | 13 | 1070 | 1 |
| 8700800 | **95 HS-500** | * | 500 | 30 | 26 | 13 | 1290 | 1 |

## 95 N

### FLAT COLD CHISEL flat oval, extra slim pattern

- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished



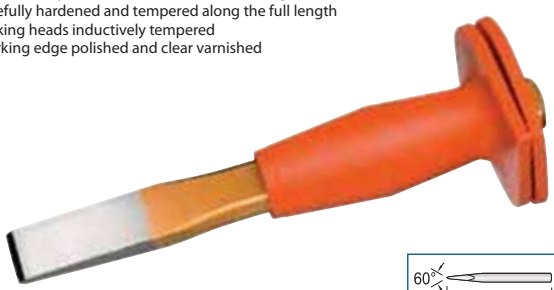


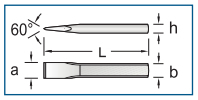

| Code | No. | L | a | b | h | | |
|---|---|---|---|---|---|---|---|
| 8700050 | **95 N-200** | 200 | 26 | 23 | 13 | 370 | 10 |
| 8700130 | **95 N-250** | 250 | 30 | 26 | 13 | 530 | 10 |
| 8700210 | **95 N-300** | 300 | 30 | 26 | 13 | 650 | 10 |
| 8700480 | **95 N-400** | 400 | 30 | 26 | 13 | 890 | 10 |

## 95 NHS

### FLAT COLD CHISEL flat oval, extra slim pattern

- With protective hand guard 108 UNI
- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished



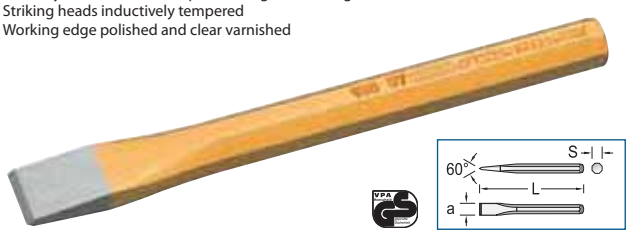


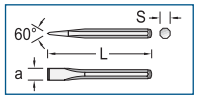

| Code | No. | L | a | b | h | | |
|---|---|---|---|---|---|---|---|
| 8701530 | **95 NHS-250** | 250 | 30 | 26 | 13 | 660 | 1 |
| 8701610 | **95 NHS-300** | 300 | 30 | 26 | 13 | 790 | 1 |
| 8701880 | **95 NHS-400** | 400 | 30 | 26 | 13 | 1010 | 1 |

## 97

### FLAT COLD CHISEL octagonal

- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished






| Code | No. | L | a | s | | |
|---|---|---|---|---|---|---|
| 8703820 | **97-125** | 125 | 12 | 10 | 69 | 10 |
| 8703900 | **97-150** | 150 | 16 | 12 | 130 | 10 |
| 8704040 | **97-175** | 175 | 20 | 16 | 270 | 10 |
| 8704120 | **97-200** | 200 | 22 | 18 | 380 | 10 |
| 2004666 | **97-250** | 250 | 24 | 20 | 406 | 10 |

620 H

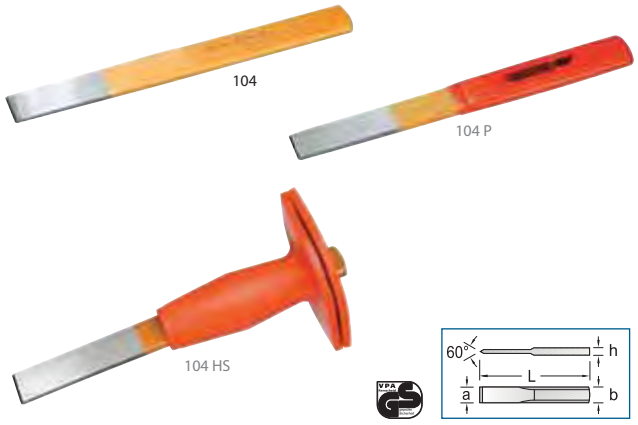
484

Quantities in packs may vary.

## 104

### SPLITTING CHISEL flat

- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Forged
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished
- 104 HS with protective hand guard 108 UNI
- 104 P with plastic grip





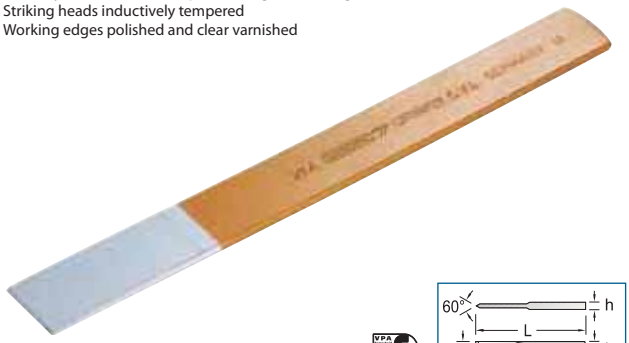


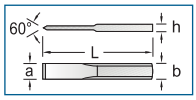
| Code | No. | L | a | b | h | | |
|---|---|---|---|---|---|---|---|
| 8723850 | **104** | 240 | 26 | 26 | 7 | 260 | 1 |
| 8724230 | **104 P** | 240 | 26 | 26 | 7 | 290 | 1 |
| 8723930 | **104 HS** | 240 | 26 | 26 | 7 | 400 | 1 |

## 2104

### SPLITTING CHISEL extra flat

- Chrome-vanadium steel
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edges polished and clear varnished



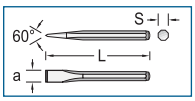



| Code | No. | L | a | b | h | | |
|---|---|---|---|---|---|---|---|
| 8911420 | **2104** | 240 | 26 | 26 | 4 | 198 | 10 |

## 105

### SPLITTING CHISEL octagonal

- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished
- 105 HS with protective hand guard 108 UNI

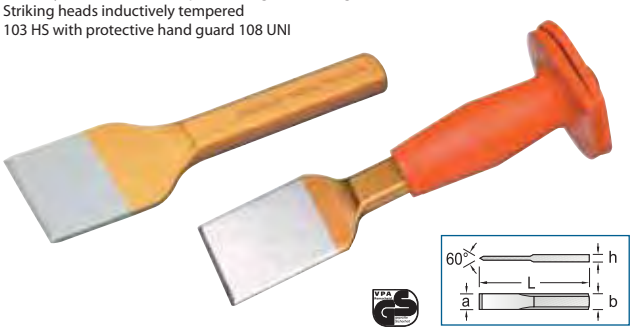



| Code | No. | L | a | s | | |
|---|---|---|---|---|---|---|
| 8724660 | **105-240** | 240 | 30 | 18 | 380 | 10 |
| 8856730 | **105-300** | 300 | 30 | 18 | 470 | 10 |
| 8724740 | **105 HS-240** | 240 | 30 | 18 | 545 | 1 |
| 8875280 | **105 HS-300** | 300 | 30 | 18 | 610 | 1 |

## 103

### BRICK CUTTING CHISEL flat oval

- With broad blade to chisel joints into walls, plaster, tiles, etc.
- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- 103 HS with protective hand guard 108 UNI






| Code | No. | L | a | b | h | | |
|---|---|---|---|---|---|---|---|
| 8723420 | **103-50** | 250 | 50 | 26 | 13 | 532 | 5 |
| 8723500 | **103-60** | 250 | 60 | 26 | 13 | 557 | 5 |
| 8723690 | **103-80** | 250 | 80 | 26 | 13 | 558 | 5 |
| 8746710 | **103 HS-50** | 250 | 50 | 26 | 13 | 650 | 1 |
| 8912310 | **103 HS-60** | 250 | 60 | 26 | 13 | 670 | 1 |
| 8721800 | **103 HS-80** | 250 | 80 | 26 | 13 | 675 | 1 |

## 109

### BRICKLAYER'S CHISEL flat oval

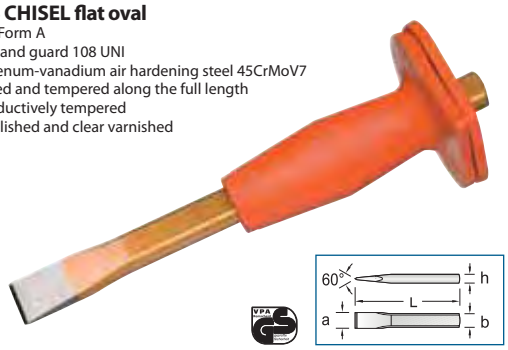
- Acc. to DIN 7254 Form A
- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished

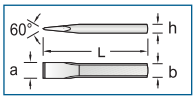
| Code | No. | L | a | b | h | | |
|---|---|---|---|---|---|---|---|
| 8728650 | **109-200** | 200 | 26 | 20 | 12 | 320 | 10 |
| 8728730 | **109-250** | 250 | 26 | 20 | 12 | 400 | 10 |
| 8728810 | **109-300** | 300 | 29 | 23 | 13 | 610 | 10 |
| 8729030 | **109-350** | 350 | 29 | 23 | 13 | 710 | 10 |
| 8729110 | **109-400** | 400 | 29 | 23 | 13 | 830 | 10 |
| 8729380 | **109-500** | 500 | 32 | 26 | 13 | 1180 | 1 |
| 8729460 | **109-600** | 600 | 32 | 26 | 13 | 1410 | 1 |
| 8729540 | **109-800** | 800 | 32 | 26 | 13 | 1880 | 1 |
| 8861140 | **109-1000** | 1000 | 32 | 26 | 13 | 2360 | 1 |

## 109 HS

### BRICKLAYER'S CHISEL flat oval

- Acc. to DIN 7254 Form A
- With protective hand guard 108 UNI
- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished





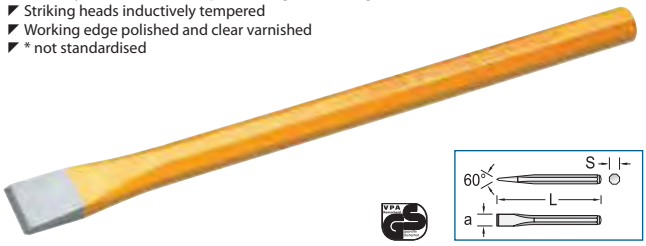

| Code | No. | L | a | b | h | | |
|---|---|---|---|---|---|---|---|
| 8729620 | **109 HS-250** | 250 | 26 | 20 | 12 | 530 | 1 |
| 8729700 | **109 HS-300** | 300 | 29 | 23 | 13 | 730 | 1 |
| 8730550 | **109 HS-350** | 350 | 29 | 23 | 13 | 830 | 1 |
| 8730630 | **109 HS-400** | 400 | 29 | 23 | 13 | 1068 | 1 |
| 8730710 | **109 HS-500** | 500 | 32 | 26 | 13 | 1230 | 1 |
| 8730980 | **109 HS-600** | 600 | 32 | 26 | 13 | 1520 | 1 |
| 8732410 | **109 HS-800** | 800 | 32 | 26 | 13 | 2010 | 1 |
| 8911930 | **109 HS-1000** | 1000 | 32 | 26 | 13 | 2710 | 1 |

Quantities in packs may vary.

## 110

### BRICKLAYER'S CHISEL octagonal

- Acc. to DIN 7254 Form B
- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished
- * not standardised



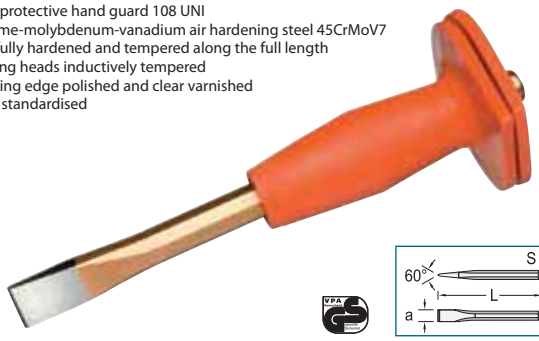


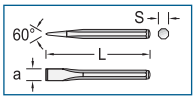

| Code | No. | * | L | a | s | | |
|---|---|---|---|---|---|---|---|
| 8731280 | **110-216** | | 200 | 23 | 16 | 300 | 10 |
| 8731440 | **110-256** | | 250 | 23 | 16 | 390 | 10 |
| 8731600 | **110-316** | * | 300 | 23 | 16 | 460 | 10 |
| 8731790 | **110-318** | | 300 | 26 | 18 | 600 | 10 |
| 8731870 | **110-358** | | 350 | 26 | 18 | 700 | 10 |
| 8731950 | **110-418** | * | 400 | 26 | 18 | 810 | 10 |
| 8732090 | **110-420** | | 400 | 30 | 20 | 990 | 10 |
| 8732170 | **110-520** | | 500 | 30 | 20 | 1240 | 1 |
| 8732250 | **110-622** | | 600 | 32 | 22 | 1810 | 1 |

## 110 HS

### BRICKLAYER'S CHISEL octagonal

- Acc. to DIN 7254 Form B
- With protective hand guard 108 UNI
- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished
- * not standardised






| Code | No. | * | L | a | s | | |
|---|---|---|---|---|---|---|---|
| 8732680 | **110 HS-256** | | 250 | 23 | 16 | 510 | 1 |
| 8732840 | **110 HS-316** | * | 300 | 23 | 16 | 600 | 1 |
| 8733140 | **110 HS-318** | | 300 | 26 | 18 | 720 | 1 |
| 8732920 | **110 HS-358** | | 350 | 26 | 18 | 816 | 1 |
| 8733060 | **110 HS-418** | * | 400 | 26 | 18 | 930 | 1 |
| 8733220 | **110 HS-420** | | 400 | 30 | 20 | 1110 | 1 |
| 8733300 | **110 HS-520** | | 500 | 30 | 20 | 1380 | 1 |

## 111

### POINT CHISEL octagonal

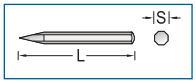
- Acc. to DIN 7256
- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished, free of burrs

| Code | No. | L | s | | |
|---|---|---|---|---|---|
| 8741080 | **111-216** | 200 | 16 | 290 | 10 |
| 8741240 | **111-256** | 250 | 16 | 370 | 10 |
| 8741400 | **111-316** | 300 | 16 | 444 | 10 |
| 8741590 | **111-318** | 300 | 18 | 576 | 10 |
| 8741670 | **111-358** | 350 | 18 | 670 | 10 |
| 8741750 | **111-418** | 400 | 18 | 775 | 10 |
| 8741830 | **111-420** | 400 | 20 | 955 | 10 |
| 8741910 | **111-520** | 500 | 20 | 1215 | 1 |
| 8742050 | **111-622** | 600 | 22 | 1780 | 1 |

## 111 HS

### POINT CHISEL octagonal

- Acc. to DIN 7256
- With protective hand guard 108 UNI
- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished




| Code | No. | L | s | | |
|---|---|---|---|---|---|
| 8742210 | **111 HS-256** | 250 | 16 | 500 | 1 |
| 8742560 | **111 HS-316** | 300 | 16 | 570 | 1 |
| 8742800 | **111 HS-318** | 300 | 18 | 695 | 1 |
| 8742640 | **111 HS-358** | 350 | 18 | 800 | 1 |
| 8742720 | **111 HS-418** | 400 | 18 | 910 | 1 |
| 8742990 | **111 HS-420** | 400 | 20 | 1130 | 1 |
| 8743020 | **111 HS-520** | 500 | 20 | 1335 | 1 |

## 112

### ELECTRICIANS' CHISEL square

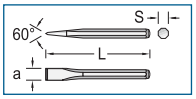
- Chrome-vanadium steel
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished

| Code | No. | L | a | b | | |
|---|---|---|---|---|---|---|
| 8744500 | **112-2006** | 200 | 6 | 6 | 54 | 10 |
| 8744690 | **112-2008** | 200 | 8 | 6 | 54 | 10 |
| 8744770 | **112-2100** | 200 | 10 | 7 | 73 | 10 |
| 8744930 | **112-2508** | 250 | 8 | 6 | 68 | 10 |
| 8745070 | **112-2510** | 250 | 10 | 7 | 91 | 10 |
| 8745150 | **112-2512** | 250 | 12 | 8 | 119 | 10 |
| 8745230 | **112-2515** | 250 | 15 | 10 | 188 | 10 |
| 8745310 | **112-3000** | 300 | 15 | 10 | 227 | 10 |

## 112 A

### ELECTRICIANS' CHISEL octagonal

- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished




| Code | No. | L | a | s | | |
|---|---|---|---|---|---|---|
| 8745820 | **112 A-200** | 200 | 10 | 10 | 118 | 10 |
| 8745900 | **112 A-250** | 250 | 12 | 10 | 152 | 10 |
| 8746040 | **112 A-300** | 300 | 15 | 12 | 264 | 10 |

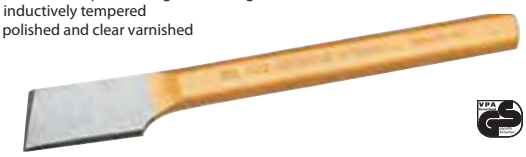


Quantities in packs may vary.

## 112 S

### ELECTRICIANS' SPLITTING CHISEL

- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished



| Code | No. | L | | |
|---|---|---|---|---|
| 8746550 | **112 S** | 200 | 228 | 10 |

## 96

### CROSS-CUT CHISEL flat oval

- Acc. to DIN 6451
- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished
- 96 HS with protective hand guard 108 UNI

| Code | No. | L | a | b | h | | |
|---|---|---|---|---|---|---|---|
| 8702180 | **96-125** | 125 | 5 | 14 | 9 | 98 | 10 |
| 8702260 | **96-150** | 150 | 6 | 17 | 11 | 170 | 10 |
| 8702340 | **96-175** | 175 | 7 | 17 | 11 | 210 | 10 |
| 8702420 | **96-200** | 200 | 8 | 20 | 12 | 290 | 10 |
| 8702500 | **96-250** | 250 | 9 | 23 | 13 | 530 | 10 |
| 8702690 | **96-300** | 300 | 10 | 23 | 13 | 610 | 10 |
| 8702770 | **96 HS-250** | 250 | 9 | 23 | 13 | 600 | 1 |
| 8702850 | **96 HS-300** | 300 | 10 | 23 | 13 | 700 | 1 |

## 98

### CROSS-CUT CHISEL octagonal

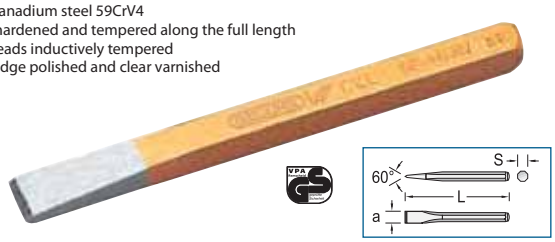
- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished

| Code | No. | L | a | s | | |
|---|---|---|---|---|---|---|
| 8704630 | **98-125** | 125 | 5 | 10 | 66 | 10 |
| 8704710 | **98-150** | 150 | 7 | 12 | 140 | 10 |
| 8704980 | **98-175** | 175 | 9 | 16 | 260 | 10 |
| 8705010 | **98-200** | 200 | 10 | 18 | 350 | 10 |

## 202

### TILE CHISEL flat

- Chrome-vanadium steel 59CrV4
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished

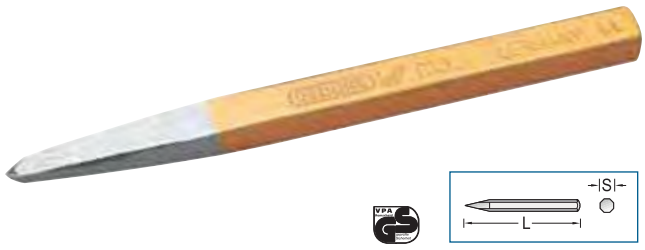



| Code | No. | L | a | s | | |
|---|---|---|---|---|---|---|
| 8879270 | **202-80** | 80 | 6 | 6 | 21 | 10 |
| 8879350 | **202-90** | 90 | 8 | 6 | 24 | 10 |
| 8879430 | **202-100** | 100 | 10 | 7 | 33 | 10 |

## 203

### TILE CHISEL pointed

- Chrome-vanadium steel 59CrV4
- Driving point polished and clear varnished




| Code | No. | L | s | | |
|---|---|---|---|---|---|
| 8880010 | **203-80** | 80 | 6 | 21 | 10 |
| 8880280 | **203-100** | 100 | 7 | 32 | 10 |

## 207

### CARBIDE TILE CHISEL

| Code | No. | mm | mm | | |
|---|---|---|---|---|---|
| 8881090 | **207-85** | 90 | 8 | 50 | 10 |

## 128

### PARING CHISEL octagonal

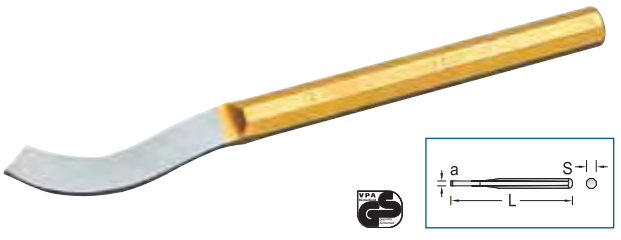
- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished

| Code | No. | L | a | s | | |
|---|---|---|---|---|---|---|
| 8775650 | **128-2** | 120 | 2 | 10 | 70 | 10 |
| 8775730 | **128-3** | 120 | 3 | 10 | 67 | 10 |

## 129

### GROOVING CHISEL octagonal

- Acc. to DIN 6455
- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished




| Code | No. | L | a | s | | |
|---|---|---|---|---|---|---|
| 8776380 | **129-2** | 150 | 2 | 10 | 68 | 10 |
| 8776460 | **129-3** | 150 | 3 | 10 | 70 | 10 |
| 8776540 | **129-4** | 150 | 4 | 10 | 74 | 10 |
| 8776620 | **129-5** | 150 | 5 | 10 | 80 | 10 |
| 8776700 | **129-6** | 150 | 6 | 10 | 84 | 10 |

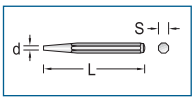
Quantities in packs may vary.

# DRIFT / CENTRE / PIN PUNCHES

## 99

### DRIFT PUNCH

- Acc. to DIN 6458
- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished
- Special types or sizes on request
- * not standardised

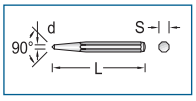



| Code | No. | * | L | s | d | | |
|---|---|---|---|---|---|---|---|
| 8708700 | **99 10-1** | | 120 | 10 | 1 | 60 | 10 |
| 8708970 | **99 10-2** | | 120 | 10 | 2 | 61 | 10 |
| 8709190 | **99 10-3** | | 120 | 10 | 3 | 63 | 10 |
| 8709350 | **99 10-4** | | 120 | 10 | 4 | 65 | 10 |
| 8709510 | **99 10-5** | | 120 | 10 | 5 | 63 | 10 |
| 8709780 | **99 10-6** | | 120 | 10 | 6 | 67 | 10 |
| 8710520 | **99 12-1** | | 120 | 12 | 1 | 84 | 10 |
| 8710790 | **99 12-2** | | 120 | 12 | 2 | 85 | 10 |
| 8710950 | **99 12-3** | | 120 | 12 | 3 | 88 | 10 |
| 8711170 | **99 12-4** | | 120 | 12 | 4 | 86 | 10 |
| 8711330 | **99 12-5** | | 120 | 12 | 5 | 91 | 10 |
| 8711410 | **99 12-6** | | 120 | 12 | 6 | 94 | 10 |
| 8711680 | **99 12-7** | | 120 | 12 | 7 | 96 | 10 |
| 8711760 | **99 12-8** | | 120 | 12 | 8 | 99 | 10 |
| 8711840 | **99 12-9** | * | 120 | 12 | 9 | 105 | 10 |
| 8711920 | **99 12-10** | * | 120 | 12 | 10 | 103 | 10 |
| 8713890 | **99 15-9** | | 150 | 12 | 9 | 132 | 10 |
| 8713970 | **99 15-10** | | 150 | 12 | 10 | 136 | 10 |
| 8714430 | **99 15-12** | * | 150 | 14 | 12 | 181 | 10 |
| 8714940 | **99 15-14** | * | 150 | 16 | 14 | 238 | 10 |

## 100

### CENTRE PUNCH

- Acc. to DIN 7250
- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished
- * not standardised

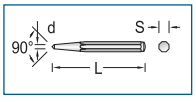



| Code | No. | * | L | s | d | | |
|---|---|---|---|---|---|---|---|
| 8721050 | **100-10** | | 120 | 10 | 4 | 63 | 10 |
| 8721130 | **100-12** | | 120 | 12 | 5 | 91 | 10 |
| 8721210 | **100-15** | | 150 | 12 | 5 | 119 | 10 |
| 8721480 | **100-16** | * | 150 | 16 | 8 | 216 | 10 |

## 100 A

### CENTRE PUNCH with carbide tip

- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7




| Code | No. | L | s | d | | |
|---|---|---|---|---|---|---|
| 8721720 | **100 A-10** | 120 | 10 | 4 | 63 | 10 |
| 1568396 | **100 A-12** | 130 | 12 | 4 | 89 | 10 |

## 101

### AUTOMATIC CENTRE PUNCH with tip

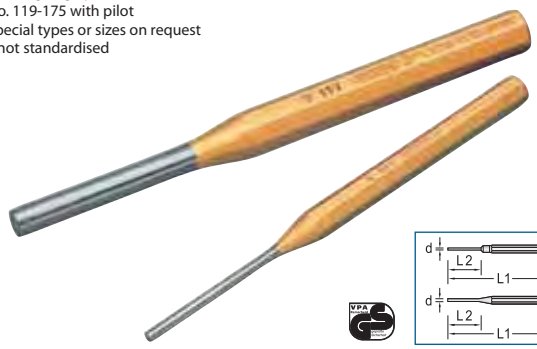
- For one hand operation
- With spring mechanism
- Impact power can be set by a screw thread
- With hand protection for comfortable and safe working
- Spare tip E 101

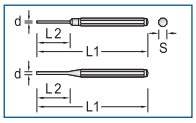
| Code | No. | L | s | d | | |
|---|---|---|---|---|---|---|
| 8722880 | **101** | 145 | 16 | 4 | 145 | 1 |
| 8870800 | **E 101** | | | 4 | 10 | 1 |

## 119

### PIN PUNCH

- Acc. to DIN 6450
- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished
- No. 119-175 with pilot
- Special types or sizes on request
- * not standardised






| Code | No. | * | $L_1$ | $L_2$ | d | s | | |
|---|---|---|---|---|---|---|---|---|
| 2004658 | **119-1,5** | * | 150 | 30 | 1.5 | 8 | 61 | 10 |
| 8758640 | **119-2** | | 150 | 30 | 2.0 | 10 | 70 | 10 |
| 8758720 | **119-2,5** | * | 150 | 30 | 2.5 | 10 | 69 | 10 |
| 8758800 | **119-3** | | 150 | 40 | 3.0 | 10 | 71 | 10 |
| 8758990 | **119-3,5** | * | 150 | 40 | 3.5 | 10 | 72 | 10 |
| 8759020 | **119-4** | | 150 | 50 | 4.0 | 10 | 61 | 10 |
| 8856220 | **119-4,5** | * | 150 | 50 | 4.5 | 10 | 65 | 10 |
| 8759290 | **119-5** | | 150 | 50 | 5.0 | 10 | 68 | 10 |
| 8759370 | **119-6** | | 150 | 50 | 6.0 | 10 | 73 | 10 |
| 8759450 | **119-7** | * | 150 | 50 | 7.0 | 12 | 103 | 10 |
| 8759530 | **119-8** | | 150 | 50 | 8.0 | 12 | 109 | 10 |
| 8759610 | **119-9** | * | 150 | 50 | 9.0 | 12 | 115 | 10 |
| 8759880 | **119-10** | * | 150 | 50 | 10.0 | 12 | 123 | 10 |
| 8759960 | **119-12** | * | 150 | 50 | 12.0 | 14 | 170 | 10 |
| 8859670 | **119-14** | * | 180 | 80 | 14.0 | 16 | 237 | 10 |
| 8761350 | **119-175** | | 175 | 85 | 6.0 | 10 | 70 | 10 |

## 114

### PIN PUNCH with guide sleeve

- Driving point made from material 115CrV3, hardened 55 - 59 HRC
- Shank knurled
- Fine grinded and polished

| Code | No. | L | d | | |
|---|---|---|---|---|---|
| 8755460 | **114-09** | 80 | 0.9 | 6 | 10 |
| 8755540 | **114-14** | 85 | 1.4 | 12 | 10 |
| 8755620 | **114-18** | 88 | 1.8 | 12 | 10 |
| 8755700 | **114-24** | 92 | 2.4 | 18 | 10 |
| 8755890 | **114-28** | 96 | 2.8 | 20 | 10 |
| 8755970 | **114-34** | 96 | 3.4 | 26 | 10 |
| 8756000 | **114-39** | 100 | 3.9 | 26 | 10 |
| 8756190 | **114-59** | 100 | 5.9 | 32 | 10 |



Quantities in packs may vary.

## 115

### PIN PUNCH SET 8 pieces

- In metal case with lid
- With movable guide sleeve, -59 with fix guide sleeve
- Driving point made from material 115CrV3, hardened 55 - 59 HRC
- Shank knurled
- Fine grinded and polished

| Code | No. | Contents | | |
|---|---|---|---|---|
| 8756780 | **115** | **114**-09 -14 -18 -24 -28 -34 -39 -59 | 350 | 1 |

# SETS

## 116 A - 116 L - 119 L

### PIN PUNCH SET 6 pieces

- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished
- 116 L / 119 L = long pattern

116 D

116

116 A

116 L

119 L

| Code | No. | Execution | Contents | | |
|---|---|---|---|---|---|
| 8757240 | **116** | wooden stand | **119**-3 -4 -5 -6 -7 -8 | 714 | 1 |
| 8758050 | **116 D** | metal case with lid | **119**-3 -4 -5 -6 -7 -8 | 820 | 1 |
| 8757670 | **116 A** | PVC holder | **119**-3 -4 -5 -6 -7 -8 | 530 | 1 |
| 8839990 | **116 L** | PVC holder | **119**-2 -3 -5 -175 -175-4 -175-6 | 475 | 1 |
| 8866290 | **119 L** | PVC holder | **119**-175-4 175-5 175-6 175-7 175-8 175-10 | 580 | 1 |

## 113 - 113 D

### DRIFT PUNCH SET 6 pieces

- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished

113

113 D

| Code | No. | Execution | Contents | | |
|---|---|---|---|---|---|
| 8753680 | **113** | PVC holder | **99** 10-1 2 3<br>**99** 12-4 5<br>**100**-10 | 460 | 1 |
| 8754060 | **113 D** | metal case with lid | **99** 10-1 2 3<br>**99** 12-4 5<br>**100**-10 | 755 | 1 |

## 106 - 106 D

### CHISEL AND PUNCH SET 6 pieces

- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished

106 D

106

| Code | No. | Execution | Contents | | |
|---|---|---|---|---|---|
| 8725200 | **106** | PVC holder | **97**-125 150<br>**98**-125 **99** 12-3<br>**100**-10 **119**-4 | 525 | 1 |
| 8725710 | **106 D** | Metal case with lid | **97**-125 150<br>**98**-125 **99** 12-3<br>**100**-10 **119**-4 | 805 | 1 |

## 102

### CHISEL AND PUNCH SET 6 pieces

- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished
- In wooden stand

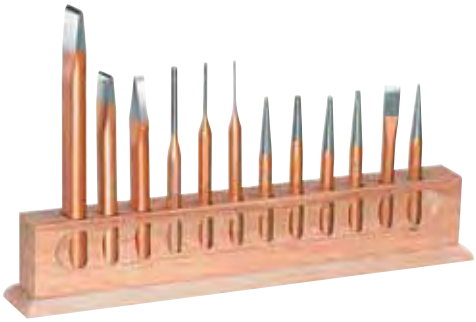
| Code | No. | Contents | | |
|---|---|---|---|---|
| 8723340 | **102** | **97**-125 150<br>**98**-125 **99** 12-3<br>**100**-10 **119**-4 | 695 | 1 |

Quantities in packs may vary.

## 107

### CHISEL AND PUNCH SET 12 pieces

- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished
- In wooden stand

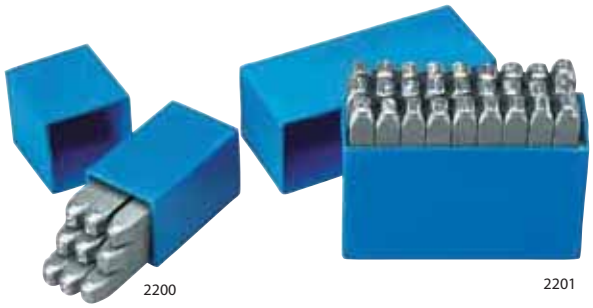


| Code | No. | Contents | | |
|---|---|---|---|---|
| 8726440 | **107** | **95**-150 200<br>**96**-150 **97**-125<br>**99** 10-2 3 4 5<br>**100**-10 **119**-2 3 5 | 2075 | 1 |

## 2200 - 2201

### LETTER AND NUMBER PUNCHES

- To label finished parts such as signs, tools, etc.
- Made from hardened steel with hardened handle and tempered striking head
- In blue plastic box
- No. 2200 = 9 numbers, 6 mm printing height
- No. 2201 = 27 letters, 6 mm printing height



2200 2201

| Code | No. | ⇤mm⇥ | ■ mm | | |
|---|---|---|---|---|---|
| 8605140 | **2200-6** | 70 | 9 | 415 | 1 |
| 8605220 | **2201-6** | 70 | 9 | 1240 | 1 |

# VARIOUS

## 206

### TILER'S SETTING TOOL

- Chrome-vanadium steel 59CrV4
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- Working edge polished and clear varnished

| Code | No. | ⇤mm⇥ | ■ mm | | |
|---|---|---|---|---|---|
| 8880600 | **206-150** | 150 | 8 | 70 | 10 |

## 90 HS

### RIVET SETTER octagonal

- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7, zinc-plated
- Carefully hardened and tempered along the full length
- Striking heads inductively tempered
- With black protective hand guard for safe comfortable working
- DBGM (= German Utility Patent)

| Code | No. | L | s | | |
|---|---|---|---|---|---|
| 8885830 | **90 HS-4** | 160 | 18 | 488 | 1 |
| 8886130 | **90 HS-6** | 160 | 18 | 488 | 1 |

## 208

### CARBIDE SCRIBER hexagonal

| Code | No. | ⇤mm⇥ | ■ mm | | |
|---|---|---|---|---|---|
| 8881680 | **208-150** | 150 | 6 | 40 | 10 |

## 126

### RIVETTING SETTER

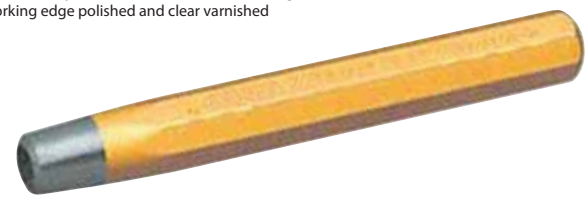
- Acc. to DIN 6434
- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Working edge polished and clear varnished

| Code | No. | for rivet shaft Ø mm | internal Ø | L | s | | |
|---|---|---|---|---|---|---|---|
| 8774090 | **126-2** | 2 | 2.5 | 100 | 10 | 63 | 10 |
| 8774170 | **126-3** | 3 | 3.5 | 100 | 10 | 61 | 10 |
| 8774250 | **126-4** | 4 | 4.5 | 100 | 12 | 81 | 10 |
| 8774330 | **126-5** | 5 | 6.0 | 110 | 12 | 132 | 10 |
| 8774410 | **126-6** | 6 | 7.0 | 110 | 14 | 130 | 10 |
| 8774680 | **126-8** | 8 | 9.0 | 120 | 16 | 185 | 10 |

## 127

### RIVETTING SNAP DIE

- Acc. to DIN 6435
- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Working edge polished and clear varnished



| Code | No. | for rivet shaft Ø mm | internal Ø | L | s | | |
|---|---|---|---|---|---|---|---|
| 8775060 | **127-2** | 2 | 3.5 | 100 | 10 | 62 | 10 |
| 8775140 | **127-3** | 3 | 5.2 | 100 | 10 | 63 | 10 |
| 8775220 | **127-4** | 4 | 7.0 | 100 | 12 | 90 | 10 |
| 8775300 | **127-5** | 5 | 8.8 | 110 | 14 | 133 | 10 |
| 8775490 | **127-6** | 6 | 10.5 | 110 | 16 | 173 | 10 |
| 8775570 | **127-8** | 8 | 14.0 | 120 | 20 | 326 | 10 |



Quantities in packs may vary.

## 125 B

### SET OF RIVETTING SETTERS AND SNAP DIES 6 pieces

- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Hardened in accordance with the technical specifications for striking tools to DIN 7255
- Working edge polished and clear varnished
- In PVC holder

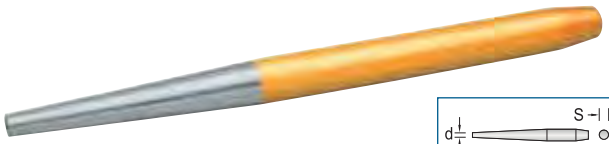
| Code | No. | Contents | | |
|---|---|---|---|---|
| 8773600 | **125 B** | **126**-2 3 4<br>**127**-2 3 4 | 470 | 1 |

# BENDING BARS / PRYBARS

## 135

### SETTING PUNCH

- Chrome-vanadium steel 59CrV4
- Hardened and tempered along the full length
- Special sizes available on request




| Code | No. | L | c | d | s | | |
|---|---|---|---|---|---|---|---|
| 8782350 | **135-5** | 180 | 110 | 5 | 12 | 110 | 1 |
| 8782430 | **135-6** | 200 | 120 | 6 | 13 | 150 | 1 |
| 8782510 | **135-8** | 200 | 130 | 8 | 16 | 225 | 1 |
| 8782780 | **135-9** | 200 | 130 | 9 | 20 | 340 | 1 |
| 8782860 | **135-10** | 230 | 140 | 10 | 22 | 490 | 1 |
| 8782940 | **135-11** | 250 | 155 | 11 | 25 | 620 | 1 |
| 8783080 | **135-12** | 280 | 170 | 12 | 27 | 890 | 1 |
| 8783160 | **135-14** | 315 | 190 | 14 | 30 | 1250 | 1 |
| 8783240 | **135-15** | 340 | 200 | 15 | 32 | 1570 | 1 |
| 8783320 | **135-16** | 380 | 220 | 16 | 36 | 2190 | 1 |

## 136

### TAPER PUNCH octagonal

- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length

| Code | No. | L | c | d | s | | |
|---|---|---|---|---|---|---|---|
| 8783400 | **136-500** | 500 | 170 | 5 | 20 | 1050 | 1 |

## 137

### BENDING BAR

- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length

| Code | No. | L | c | d | s | | |
|---|---|---|---|---|---|---|---|
| 8783590 | **137-600** | 600 | 120 | 5 | 20 | 1305 | 1 |

## 138

### BENDING TOOL

- Chrome-vanadium air hardening steel 59CrV4, nickel-plated
- Carefully hardened and tempered along the full length

| Code | No. | mm | | |
|---|---|---|---|---|
| 1396609 | **138-400** | 400 | 645 | 1 |

## 139

### PRYBAR

- Chrome-vanadium steel 31CrV3, nickel-plated

| Code | No. | mm | | |
|---|---|---|---|---|
| 1396595 | **139-400** | 400 | 480 | 1 |

## 140

### UNIVERSAL PRYBAR

- Made from special steel, hardened
- Cutting edge polished
- With three nail pullers

| Code | No. | mm | | |
|---|---|---|---|---|
| 8894310 | **140-380** | 380 | 650 | 1 |

## 141

### PRYBAR

- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7, chromated
- Hardened along the full length
- With plastic handle
- Very robust and resilient

| Code | No. | mm | mm | Ø | | |
|---|---|---|---|---|---|---|
| 1471945 | **141-300** | 300 | 11 | 10 | 230 | 1 |
| 1471937 | **141-390** | 390 | 13 | 12 | 390 | 1 |
| 1471929 | **141-600** | 600 | 20 | 14 | 785 | 1 |

Quantities in packs may vary.

## S 141-3

### PRYBAR SET 3 pieces

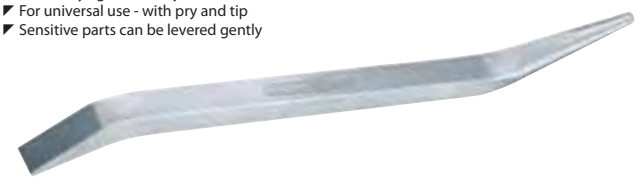
- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7, chromated
- Hardened along the full length
- With plastic handle
- Very robust and resilient
- Packed in cardboard box

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1525476 | **S 141-3** | **141**-300 390 600 | 1474 | 1 |

## 142

### ALUMINIUM PRYBAR

- Forged of high-class aluminium
- Extremely light and very robust
- For universal use - with pry and tip
- Sensitive parts can be levered gently



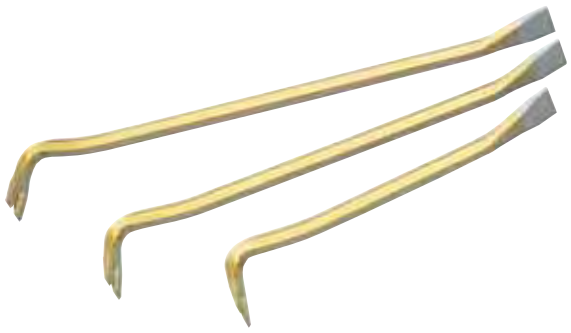
| Code | No. | mm | | |
|---|---|---|---|---|
| 1859188 | **142-430** | 430 | 405 | 1 |

# NAIL LIFTER / CROWBARS

## 120

### WRECKING BAR octagonal

- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length



| Code | No. | mm | octagonal | | |
|---|---|---|---|---|---|
| 8769330 | **120-350** | 350 | 18 | 840 | 1 |
| 8769410 | **120-500** | 500 | 18 | 1150 | 1 |
| 8769680 | **120-600** | 600 | 18 | 1355 | 1 |
| 8769760 | **120-700** | 700 | 18 | 1550 | 1 |
| 8769840 | **120-800** | 800 | 18 | 1770 | 1 |
| 8769920 | **120-1000** | 1000 | 18 | 2175 | 1 |

## 121

### NAIL LIFTER octagonal

- For lifting very long nails
- No underlay aids are necessary because of the ratchet function
- Chrome-molybdenum-vanadium air hardening steel 45CrMoV7
- Carefully hardened and tempered along the full length

| Code | No. | mm | octagonal | | |
|---|---|---|---|---|---|
| 8577930 | **121-600** | 600 | 18 | 1665 | 1 |

## 122

### CROWBAR

- With straight cutting edge and point

| Code | No. | mm | Ø | | |
|---|---|---|---|---|---|
| 8770500 | **122-1000** | 1000 | 30 | 5.3 | 1 |
| 8770690 | **122-1250** | 1250 | 30 | 6.9 | 1 |
| 8770770 | **122-1500** | 1500 | 30 | 8.3 | 1 |
| 8852580 | **122-2000** | 2000 | 30 | 11.0 | 1 |

## 123

### CROWBAR

- With curved cutting edge and point

| Code | No. | mm | Ø | | |
|---|---|---|---|---|---|
| 8771230 | **123-1000** | 1000 | 30 | 5.3 | 1 |
| 8771310 | **123-1250** | 1250 | 30 | 6.9 | 1 |
| 8771580 | **123-1500** | 1500 | 30 | 8.3 | 1 |
| 8852660 | **123-2000** | 2000 | 30 | 11.0 | 1 |

## 124

### CROWBAR

- With claw and point

| Code | No. | mm | Ø | | |
|---|---|---|---|---|---|
| 8772040 | **124-1000** | 1000 | 30 | 5.2 | 1 |
| 8772120 | **124-1250** | 1250 | 30 | 6.9 | 1 |
| 8772200 | **124-1500** | 1500 | 30 | 8.3 | 1 |
| 8852740 | **124-2000** | 2000 | 30 | 11.0 | 1 |

## 150

### CROWBAR

- Heavy-duty model, edged
- With curved cutting edge and point

| Code | No. | mm | | |
|---|---|---|---|---|
| 8823990 | **150-1000** | 1000 | 4.6 | 1 |
| 8824020 | **150-1250** | 1250 | 6.7 | 1 |
| 8824100 | **150-1500** | 1500 | 8.1 | 1 |
| 8824450 | **150-2000** | 2000 | 13.6 | 1 |

## 151

### CROWBAR

- Heavy-duty model
- With round head and cutting edge

| Code | No. | mm | Ø | | |
|---|---|---|---|---|---|
| 8824530 | **151-1000** | 1000 | 30 | 5.7 | 1 |
| 8824610 | **151-1250** | 1250 | 30 | 7.1 | 1 |
| 8824880 | **151-1500** | 1500 | 30 | 8.4 | 1 |

## 152

### CROWBAR

- Heavy-duty model
- With round head and point

| Code | No. | mm | Ø | | |
|---|---|---|---|---|---|
| 8824960 | **152-1000** | 1000 | 30 | 5.8 | 1 |
| 8825180 | **152-1250** | 1250 | 30 | 7.1 | 1 |
| 8825260 | **152-1500** | 1500 | 30 | 8.4 | 1 |



Quantities in packs may vary.

# FORESTRY AND CARPENTER'S TOOLS

## Out of the forge …

## … and into the forest

1. The forged blanks are sawn off from rolled C60 tempering steel.
2. The red-hot blank is shaped on a forging press and the hole is made for the eye. Excess burring is removed.
3. The glowing blade is beaten out on the forging roll.
4. Final shaping under the forging hammer. Trimming excess material and rough-grinding the axe.
5. Permanent marking by means of a stamp bearing the manufacturer's symbol. Tempering (hardening and tempering) the cutting edge ensures hardness and toughness.
6. Sand-blasting the surface. Fine-grinding the cutting edge. A crowned cut increases stability. Transparent varnish protects the axe head from corrosion.
7. Inserting and clamping the handle. The triple clamp provided by one wooden wedge and two ring wedges ensures a lasting and safe connection.

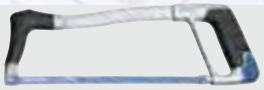
INFO@OCHSENKOPF.COM
WWW.OCHSENKOPF.COM

Quantities in packs may vary.

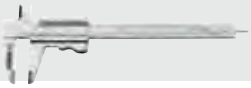
No. 8553
GEDORE

## For all occasions - the ideal tool


FILES 518

SAWS  519

PARALLEL VICES 520

MEASURING TOOLS  520 – 522

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WORK LIGHTS 534 – 537

AT WORK 538 – 541

# FILES

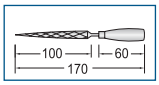
## 8729

### CONTACT FILE
- In blue PVC tear-off wallet

| Code | No. | "inch" | mm | Cut | | |
|---|---|---|---|---|---|---|
| 6771080 | **8729** | 6 | 150 | 2 | 9 | 10 |

## 8728

### KEY FILE SET 6 pieces
- Acc. to DIN 7283
- In blue plastic wallet




| Code | No. | 5 types | Cut | | |
|---|---|---|---|---|---|
| 6771910 | **8728** | ■▲●◡■ | 2 | 150 | 10 |

## 8730

### DEBURRER
- A valuable helper for removing burr on a wide range of different materials
- The small, free-turning deburring knife adjusts to the contour of the workpiece and removes burr

Consisting of:
- 676 Driving handle
- 699 Bit holder
- E-8730 Deburrer bit 1/4" hex

| Code | No. | Description | | |
|---|---|---|---|---|
| 2190907 | **8730** | Deburrer | 90 | 1 |
| 2190915 | **E-8730** | Deburrer bit 1/4" hex | 5 | 1 |

## 8701

### HAND FILE
- PVC handle
- DIN 7261, Form A
- Cut: 2

| Code | No. | L | L" | W | H | Cut | | |
|---|---|---|---|---|---|---|---|---|
| 6768020 | **8701 2-6** | 150 | 6 | 16 | 4 | 2 | 96 | 1 |
| 6768100 | **8701 2-8** | 200 | 8 | 20 | 5 | 2 | 183 | 1 |
| 6768290 | **8701 2-10** | 250 | 10 | 25 | 6 | 2 | 323 | 1 |

## 8719

### TRIANGULAR FILE
- PVC handle
- DIN 7261, Form C
- 2-6 = not standardised
- Cut: 2

| Code | No. | L | L" | W | Cut | | |
|---|---|---|---|---|---|---|---|
| 6769260 | **8719 2-6** | 150 | 6 | 10 | 2 | 81 | 1 |
| 6769340 | **8719 2-8** | 200 | 8 | 14 | 2 | 177 | 1 |
| 6769420 | **8719 2-10** | 250 | 10 | 17 | 2 | 304 | 1 |

## 8722

### ROUND FILE
- PVC handle
- DIN 7261, Form F
- Cut: 2

| Code | No. | L | L" | Ø | Cut | | |
|---|---|---|---|---|---|---|---|
| 6770000 | **8722 2-6** | 150 | 6 | 6.0 | 2 | 57 | 1 |
| 6770190 | **8722 2-8** | 200 | 8 | 7.5 | 2 | 112 | 1 |
| 6770270 | **8722 2-10** | 250 | 10 | 9.5 | 2 | 186 | 1 |

## 8725

### HALF-ROUND BLUNT FILE
- PVC handle
- DIN 7261, Form E
- Cut: 2

| Code | No. | L | L" | W | H | Cut | | |
|---|---|---|---|---|---|---|---|---|
| 6770350 | **8725 2-6** | 150 | 6 | 16 | 4.5 | 2 | 91 | 1 |
| 6770430 | **8725 2-8** | 200 | 8 | 20 | 6.0 | 2 | 170 | 1 |
| 6770510 | **8725 2-10** | 250 | 10 | 25 | 7.0 | 2 | 285 | 1 |


95 • 130 → 506 503

600 H → 480

420 → 597

Quantities in packs may vary.

# SAWS

## 401

### SMALL SAW FOR METAL

- Mini-hacksaw, bright nickel-plated
- Saw blade 401 A

| Code | No. | mm | inch | | |
|---|---|---|---|---|---|
| 6500050 | **401** | 350 | 13.3/4 | 226 | 1 |
| 5500000 | **401 A** | 200 | | 12 | 10 |

## 402

### KEYHOLE SAW

- Metal handle with two replaceable saw blades: one for metal (402 A), one for wood (402 B)
- Handle enamelled silver

| Code | No. | mm | inch | | |
|---|---|---|---|---|---|
| 6500130 | **402** | 380 | 14.3/8 | 221 | 1 |
| 5500190 | **402 A** | 260 | | 62 | 5 |
| 5500270 | **402 B** | 280 | | 50 | 1 |

## 403

### HACKSAW

- Adjustable tubular steel frame
- For 10" and 12" hacksaw blades, complete with No. 403 A-405 A
- Saw blades single-sided (403 A-405 A) and double-sided (403 B-405 B)
- Handle enamelled

| Code | No. | Description | mm | inch | | |
|---|---|---|---|---|---|---|
| 6500210 | **403** | Hacksaw | 410 | 18.1/2 | 411 | 1 |
| 5500350 | **403 A-405 A** | Saw blade, single-sided | | | 28 | 10 |
| 5500430 | **403 B-405 B** | Saw blade, double-sided | | | 41 | 10 |

## 404

### SMALL SAW FOR METAL PUK

- Bright nickel-plated
- Saw blade 404 A-406 A

| Code | No. | Description | mm | inch | | |
|---|---|---|---|---|---|---|
| 6500480 | **404** | Small saw for metal PUK | 290 | 11 | 107 | 1 |
| 5501080 | **404 A-406 A** | Saw blade | 145 | | 3 | 10 |

## 406

### HOBBY SAW

- For wood and metal
- Made from flat bar, 10 x 5 mm, zinc-plated
- Glass-fibre reinforced plastic handle
- Reach 50 mm
- For use with junior hacksaw blades 145 mm
- Saw blade 404 A-406 A

| Code | No. | Description | mm | inch | | |
|---|---|---|---|---|---|---|
| 6501020 | **406** | Hobby saw | 250 | 10 | 168 | 1 |
| 5501080 | **404 A-406 A** | Saw blade | 145 | | 3 | 10 |

## 407

### HACKSAW

- Very light hacksaw in pressure-cast aluminium
- Ergonomic soft rubber hand grips
- Fixing of the sawblade by simple turning the blue clamping element in the hand grip
- Clamping piece adjustable by 40°
- Saw blade bimetal 407 A

| Code | No. | Description | | |
|---|---|---|---|---|
| 1879375 | **407** | Hacksaw | 650 | 1 |
| 1879383 | **407 A** | Saw blade bimetal | 55 | 10 |

920

541

Quantities in packs may vary.

## PARALLEL VICES

### 409 - 410

**PARALLEL VICE**
- Welded
- Compact design, with large anvil surface
- Protected vice spindle with rolled thread

| Code | No. | mm | mm | | |
|---|---|---|---|---|---|
| 6500800 | **409** | 100 | 100 | 7.0 | 1 |
| 6500990 | **410** | 150 | 150 | 16.4 | 1 |

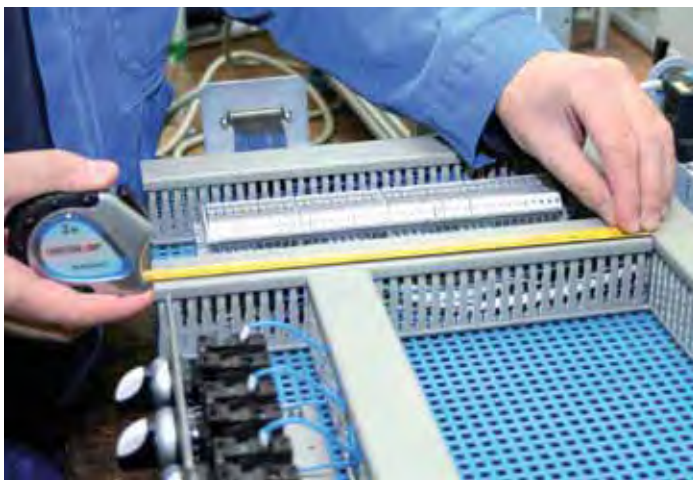
### 411

**PARALLEL VICE**
- Sturdy design
- Jaws, anvil plate and slides polished and induction hardened
- In heat-treated steel
- Stove enamelled blue

E-411A

411

| Code | No. | Description | mm | mm | | |
|---|---|---|---|---|---|---|
| 6501100 | **411-125** | Parallel vice 125x150 mm | 125 | 150 | 12480 | 1 |
| 6501290 | **411-150** | Parallel vice 150x200 mm | 150 | 200 | 18474 | 1 |
| 5704430 | **E-411 A-125** | Aluminium jaws 125 mm | 125 | | 186 | 1 |
| 5704510 | **E-411 A-150** | Aluminium jaws 150 mm | 150 | | 218 | 1 |
| 5704270 | **E-411 R-125** | Pipe-clamping jaws 125 mm | 125 | | 794 | 1 |
| 5704350 | **E-411 R-150** | Pipe-clamping jaws 150 mm | 150 | | 778 | 1 |



## MEASURING TOOLS

### 4533

**FOLDING RULE**
- Made of branch free beechwood with invisible metal fittings
- Riveted joint guarantees correct measurement even in humid or dry conditions
- With easy to read metric dual scale
- Accuracy class III
- EG-design approval for continuous mm division

**4533-1**
- Compact 1 m model
- Special for engineers, technicians, or businessmen
- Saves lots of place - suitable for jackets, suits or handbag
- Links 2.3 x 12 mm

**4533-2**
- Robust 2 m model with brass protective caps
- Most suitable for craftsmen or do-it-yourselfers
- Links 3.0 x 16 mm

4533-1

4533-2

| Code | No. | L m | | |
|---|---|---|---|---|
| 1837079 | **4533-1** | 1 | 31 | 1 |
| 1837087 | **4533-2** | 2 | 86 | 1 |

### 4534

**STEEL TAPE MEASURE**
- With belt clip and rewind stop
- mm-divisions
- Approved standard mark

| Code | No. | L m | mm | | |
|---|---|---|---|---|---|
| 6697920 | **4534-3** | 3 | 13 | 128 | 5 |
| 6698060 | **4534-5** | 5 | 19 | 220 | 5 |
| 6698140 | **4534-8** | 8 | 25 | 365 | 10 |

### 702

**FEELER GAUGE SET, FAN PATTERN**
- With protective handle, folding, blade length 100 mm
- **702** 22 A + **702** 26 A each increasing by 1/1000"
- Handle nickel-plated

| Code | No. | | | |
|---|---|---|---|---|
| 6547520 | **702 8 M** | 5 10 15 20 25 30 40 50/100 | 37 | 5 |
| 6547600 | **702 88 M** | 3 4 5 6 7 8 9 10/100 | 27 | 5 |
| 6547790 | **702 13 M** | 5 10 15 20 25 30 40 50 60 70 80 90 100/100 | 65 | 10 |
| 6547870 | **702 20 M** | 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100/100 | 100 | 10 |
| 6547950 | **702 21 M** | 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50/100 | 68 | 5 |
| 6548250 | **702 8 A** | .002 .004 .006 .008 .010 .012 .015 .020" | 33 | 10 |
| 6548410 | **702 11 A** | .0015 .002 .003 .004 .006 .008 .010 .012 .015 .020 .025" | 38 | 10 |
| 6548680 | **702 13 A** | .002 .003 .004 .005 .006 .008 .010 .012 .015 .020 .025 .030 .035" | 55 | 5 |
| 6548760 | **702 22 A** | .004 - .025" | 81 | 5 |
| 6548840 | **702 26 A** | .0015 - .025" | 80 | 10 |



Quantities in packs may vary.

## 717

### STEEL RULE

- Steel rule with millimetre and inch graduation acc. to DIN ISO 2768
- Top edge 1/64; 1/32 and 1/16 inch graduation, bottom edge 1/2 mm and 1/1 mm graduation
- Etched graduation for a legible reading
- Reading from left to right
- Flexible version
- Stainless spring-steel
- Satin non-glare finish

| Code | No. | mm | inch | | |
|---|---|---|---|---|---|
| 1965603 | **717-30** | 300 | 12 | 10 | 1 |

## 703 M

### VALVE FEELER GAUGE

- Blade length 75 mm

| Code | No. | | | |
|---|---|---|---|---|
| 6549140 | **703 M** | 10 15 20 25 30 35 40/100 | 11 | 10 |

## 705 M

### SPARK PLUG GAUGE

- With electrode adjuster
- Gauge wires in precision steel wire

| Code | No. | ∅ mm | | |
|---|---|---|---|---|
| 6549570 | **705 M** | 40 50 60 70 75 80 90 100/100 mm | 27 | 10 |

## 706

### THREAD GAUGE

- For metric and Whitworth threads
- Pitches 0.25-6.00 mm / 62-4 Step" W

| Code | No. | | |
|---|---|---|---|
| 6549730 | **706** | 83 | 10 |

## 710

### POCKET VERNIER CALLIPER

- DIN 862, Form A 2
- For internal and external measurements, with polished tips, depth gauge and high-speed setting
- Graduated in mm and inches, vernier 1/20 and 1/128"
- In leather wallet

| Code | No. | mm | mm | inch | | |
|---|---|---|---|---|---|---|
| 6555030 | **710** | 213 | 140 | 5.1/2 | 171 | 1 |

## 710-80

### VERNIER CALLIPER, SMALL

- With inside and outside jaws, ground tips, depth gauge
- In leather pouch

| Code | No. | mm | mm | inch | | |
|---|---|---|---|---|---|---|
| 1933205 | **710-80** | 114 | 80 | 3.1/8 | 100 | 1 |

## 711

### DIGITAL MEASURING CALLIPER

- Stainless steel, hardened
- Switchable from mm to inch
- Accuracy: 0.03 mm - 0.001 inch
- Reading: 0.01 mm - 0.001 inch
- In sturdy protective case

CE

| Code | No. | mm | mm | inch | | |
|---|---|---|---|---|---|---|
| 6550070 | **711** | 230 | 153 | 6 | 408 | 1 |

## 715

### CONTROL SQUARE

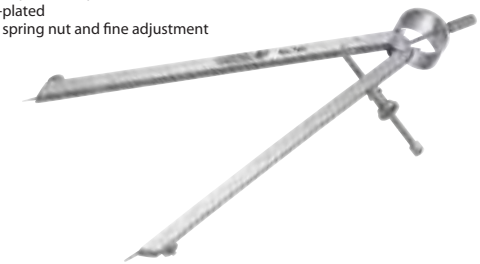
- Acc. to DIN 875 GG II
- For general use
- Stainless steel
- Finely polished
- No. 715-1 without stop
- No. 715-2 with stop

| Code | No. | | |
|---|---|---|---|
| 1965565 | **715-1** | 200 | 1 |
| 1965573 | **715-2** | 200 | 1 |

## 740

### SPRING DIVIDERS

- Steel, with hardened, replaceable points
- Square legs, chrome-plated
- With quick adjusting spring nut and fine adjustment



| Code | No. | | |
|---|---|---|---|
| 1965557 | **740** | 100 | 1 |

Quantities in packs may vary.

## 716

### ANGLE MEASURE with adjusting screw

- For general use
- Scaling non-glare matt chrome-plated
- Lasered scaling
- Angle graduation 0 - 180 degrees
- GEDORE special steel, chrome-plated
- Protective leather case
- Blade 150 mm long, bow-Ø 120 mm

| Code | No. | | |
|---|---|---|---|
| 1965581 | **716** | 200 | 1 |

## 745

### SCRIBER

- Made from special steel

| Code | No. | mm | | |
|---|---|---|---|---|
| 6559530 | **745** | 250 | 58 | 10 |

## 746

### CARBIDE SCRIBER

- Carbide, silver, with retractable, replaceable tip (E-746)

| Code | No. | mm | | |
|---|---|---|---|---|
| 6559610 | **746** | 140 | 22 | 10 |
| 5545100 | **E-746** | 35 | 2 | 10 |

## 720

### TWEEZERS

- With angled tips
- Bright nickel-plated

| Code | No. | mm | | |
|---|---|---|---|---|
| 6556270 | **720** | 150 | 25 | 5 |

## 721

### CROSS TWEEZERS

- With straight tips
- Bright nickel-plated

| Code | No. | mm | | |
|---|---|---|---|---|
| 6556350 | **721** | 160 | 33 | 10 |

## 722-1

### PRECISION TWEEZERS

- Flat, fine, long points
- Satin non-glare finish

| Code | No. | mm | | |
|---|---|---|---|---|
| 1881655 | **722-1** | 130 | 22 | 1 |

## 722-1 ESD

### PRECISION TWEEZERS ESD

- Flat, fine, long points
- Satin non-glare finish
- ESD = electrostatic discharge protection, black

| Code | No. | mm | | |
|---|---|---|---|---|
| 1881663 | **722-1 ESD** | 130 | 22 | 1 |

## 722-2

### PRECISION TWEEZERS

- Flat, fine points
- Satin non-glare finish

| Code | No. | mm | | |
|---|---|---|---|---|
| 1881671 | **722-2** | 95 | 10 | 1 |

## 722-3 / 722-4

### ELECTRONIC TWEEZERS

- Curved, fine, long points
- 722-4 double curved
- Satin non-glare finish

| Code | No. | mm | | |
|---|---|---|---|---|
| 1881698 | **722-3** | 122 | 16 | 1 |
| 1881701 | **722-4** | 122 | 16 | 1 |

## 722-5 / 722-6

### WATCHMAKER TWEEZERS

- 722-5 straight, fine, long points
- 722-6 bent, fine, long points
- Satin non-glare finish

| Code | No. | mm | | |
|---|---|---|---|---|
| 1881728 | **722-5** | 108 | 12 | 1 |
| 1881736 | **722-6** | 108 | 10 | 1 |

## 718

### INSPECTION MIRROR

- For inspection of areas that are not directly visible
- Mirror of resistant mineral glass, Ø 60 mm, swivels through 360°
- Telescope handle adjusts from 130 to 670 mm
- Brass handle, mirror frame from stainless steel
- Nickel-plated
- Resistant to oil, grease and brake fluid

| Code | No. | Ø | | |
|---|---|---|---|---|
| 1979841 | **718** | 60 | 40 | 1 |



Quantities in packs may vary.

# THREAD WORKINGS

## 8552

### SCREW EXTRACTOR SET

- For extracting broken screws and bolts with threads M5 - M16
- In handy plastic case, with twist drills, guide sleeves, extractor pins and extractor nuts
- Dimensions: 200 x 120 x 38 mm
- Complete with instructions

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6755550 | **8552-025** | Extractor pins size 1 2 3 4 5<br>Drilling sleeves 1 2 3 4 5 6 7 8 9 10<br>Extractor nuts size 10 11 13 14 17<br>Drills 8.7-11/32" 8-5/16" 6.4-1/4"<br>4.8-3/16" 3.2-1/8" | 790 | 1 |

## 140

### THREAD FILE

- For repairing damaged internal and external threads
- Chrome-vanadium steel, ISO-nickel-plated
- 140 metric threads
- 140 A inch threads
- 140 W Whitworth threads

| Code | No. | mm | for thread pitches | | |
|---|---|---|---|---|---|
| 6409640 | **140** | 230 | 0.80 1.00 1.25 1.50 1.75 2.00 2.50 3.00 mm | 125 | 1 |
| 6409720 | **140 A** | 230 | 24 20 18 16 14 13 12 11 inch | 125 | 1 |
| 6409800 | **140 W** | 230 | 24 20 18 16 14 12 11 10 Whitworth | 124 | 1 |

## 8551 S

### BOLT EXTRACTOR SET

- For removing broken screws, bolts and tube ends
- Made from high-grade chrome-vanadium steel, tempered, 54-56 HRC

8551 S-005

| Code | No. | Contents | | | |
|---|---|---|---|---|---|
| 2659336 | **8551 S-005** | **8551 S** 1 2 3 4 5 | M3-M18 | 125 | 1 |
| 2659344 | **8551 S-006** | **8551 S** 1 2 3 4 5 6 | M3-M24 | 230 | 1 |

## 8551

### BOLT EXTRACTOR SET

- In plastic case

| Code | No. | Contents | | | |
|---|---|---|---|---|---|
| 6759620 | **8551-55** | **8551** 1 2 3 4 5 | M3-M18 | 117 | 1 |
| 6759700 | **8551-66** | **8551** 1 2 3 4 5 6 | M3-M24 | 221 | 1 |
| 6759890 | **8551-88** | **8551** 1 2 3 4 5 6 7 8 | M3-M45 | 724 | 1 |

## 8551

### BOLT EXTRACTOR

- Operation:
- Drill a central hole into the broken bolt (see table)
- Turn the bolt extractor to the left into this hole until it grips and removes the bolt (penetrating oil may be necessary!)
- Always choose the largest possible extractor size

| Code | No. | | | Ø | Bore | ■ | mm | | |
|---|---|---|---|---|---|---|---|---|---|
| 6758490 | **8551 1** | M3 - M6 | 1/8-1/4 | 1,4-3,6 | 1,8 | 2.7 | 50 | 5 | 10 |
| 6758570 | **8551 2** | M6 - M8 | 1/4-5/16 | 2,1-4,9 | 2,6 | 3.8 | 57 | 9 | 10 |
| 6758650 | **8551 3** | M8 - M11 | 5/16-7/16 | 3,1-5,5 | 3,7 | 4.9 | 65 | 15 | 10 |
| 6758730 | **8551 4** | M11 - M14 | 7/16-9/16 | 4,8-8,8 | 5,5 | 7.0 | 70 | 30 | 10 |
| 6758810 | **8551 5** | M14 - M18 | 9/16-3/4 | 6,2-11,0 | 7,0 | 9.0 | 80 | 51 | 5 |
| 6759030 | **8551 6** | M18 - M24 | 3/4-1 | 9,4-15,0 | 10,3 | 12.0 | 85 | 98 | 5 |
| 6759110 | **8551 7** | M24 - M33 | 1-1.3/8 | 12,7-19,0 | 13,7 | 14.5 | 95 | 162 | 10 |
| 6759380 | **8551 8** | M33 - M45 | 1.3/8-1.3/4 | 17,5-24,0 | 18,6 | 18.0 | 100 | 283 | 10 |

1 B

132

Quantities in packs may vary.

## 8551 TG

### TAP WRENCH WITH RATCHET

- To operate bolt extractors in confined spaces
- Reversible for clockwise or counterclockwise operation
- Sliding T-handle
- With two-jaw chuck to hold square shanks
- All steel version, chrome-plated

8551 TG-2

8551 TG-1

8551 TG-3

| Code | No. | mm | M | mm | | |
|---|---|---|---|---|---|---|
| 2659433 | **8551 TG-1** | 2,0-5,0 | M3-M8 | 85 | 186 | 1 |
| 2659441 | **8551 TG-2** | 4,6-8,0 | M5-M12 | 110 | 315 | 1 |
| 2659468 | **8551 TG-3** | 9,0-12,5 | M13-M20 | 117 | 1040 | 1 |

## 8553

### TAP AND DIE SET

- In plastic case
- Dimensions: 275 x 150 x 42 mm
- For internal threads M3 - M6
- For external threads M3 - M6, max. 40 mm long
- Ratchet drive system with extension unit
- Additional guide sleeve for dies to ensure accurately aligned thread cutting along the bar axis, with swarf collector
- **Drives**: Ratchet with extension
- **Taps**: Quick-clamp tap wrench with M3-M6 taps
- **Dies**: Die handle with guide disc and M3-M6 dies
- **Accssories**: Fixing screws and angle screwdriver, instruction manual

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1939068 | **8553** | T-handle ratchet 2093 U-3 T<br>Hex socket key 2 mm<br>Extension, 1/4" 4 mm<br>Die holder<br>Quick-clamp tap wrench<br>Threaded stud M4x6<br>Backing washer<br>Guide disc M3 M4 M5 M6<br>Dies M3 M4 M5 M6<br>Taps M3 M4 M5 M6 | 510 | 1 |

# VARIOUS

## 8272

### UNIVERSAL PLIERS

- With adjustable joint and protection against clamping
- Non-slip handles, slightly angled jaw position
- In heat-treated steel as per EN 10083

| Code | No. | mm | inch | | |
|---|---|---|---|---|---|
| 6738620 | **8272-165 C** | 165 | 6 | 189 | 1 |
| 6738890 | **8272-200 C** | 200 | 8 | 259 | 1 |

## 644 - 646

### WIRE BRUSH

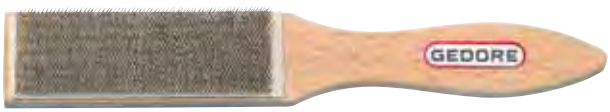
- With untreated wooden handle, angled pattern, smooth, cast steel wire bristles

| Code | No. | Execution | Bristle length | mm | | |
|---|---|---|---|---|---|---|
| 6531600 | **644** | 3-row | 23 | 290 | 137 | 5 |
| 6531870 | **646** | 6-row | 25 | 290 | 156 | 5 |

## 645

### FILE BRUSH

- With carded cover and wooden handle
- Bristle field 110 x 40 mm




| Code | No. | mm | Bristle length | | |
|---|---|---|---|---|---|
| 6531790 | **645** | 250 | 10 | 95 | 10 |

228 • 220

586 - 584



Quantities in packs may vary.

# TOOLS FOR BICYCLES

## 6002

### WRENCH FOR SPOKES

- Forged
- GEDORE vanadium steel 31CrV3, zinc-plated, chromated
- Applicable also for motorcycles

| Code | No. | ⌀ mm | | |
|---|---|---|---|---|
| 6451170 | **6002 3,3** | 3.3 | 30 | 1 |
| 6451410 | **6002 3,5** | 3.5 | 32 | 1 |
| 6451680 | **6002 3,9** | 3.9 | 32 | 1 |
| 6451760 | **6002 4** | 4.0 | 32 | 1 |
| 6451840 | **6002 4,3** | 4.3 | 32 | 1 |
| 6451920 | **6002 4,5** | 4.5 | 30 | 1 |
| 6452060 | **6002 4,6** | 4.6 | 28 | 1 |
| 6452140 | **6002 4,8** | 4.8 | 30 | 1 |
| 6452220 | **6002 5** | 5.0 | 32 | 1 |
| 6452300 | **6002 5,2** | 5.2 | 32 | 1 |
| 6452490 | **6002 5,5** | 5.5 | 30 | 10 |
| 6452570 | **6002 5,7** | 5.7 | 30 | 1 |
| 6452650 | **6002 6,1** | 6.1 | 28 | 10 |
| 6452730 | **6002 6,5** | 6.5 | 30 | 10 |

## 6003

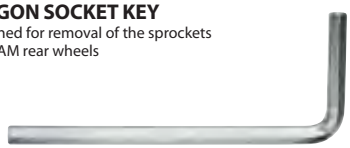
### ALIGNING TOOLS FOR TREADLES

| Code | No. | mm | | |
|---|---|---|---|---|
| 6451250 | **6003** | 504 | 1140 | 1 |

## 6004

### HEXAGON SOCKET KEY

- Designed for removal of the sprockets on SRAM rear wheels



| Code | No. | ⌀ mm | | |
|---|---|---|---|---|
| 6451330 | **6004** | 12 | 288 | 1 |

## 6101

### HUB CONE SPANNER

- Very flat forged open end spanners for different screw couplings
- For SRAM hubs
- GEDORE vanadium steel 31CrV3, phosphated

| Code | No. | ⌀ mm | Thickness of head | mm | | |
|---|---|---|---|---|---|---|
| 1549146 | **6101 13** | 13 | 2.2 | 193 | 74 | 1 |
| 1549154 | **6101 14** | 14 | 2.2 | 193 | 78 | 1 |
| 1549162 | **6101 15** | 15 | 2.2 | 193 | 76 | 1 |
| 1549170 | **6101 16** | 16 | 2.2 | 193 | 76 | 1 |
| 1549189 | **6101 17** | 17 | 2.2 | 193 | 70 | 1 |
| 1549197 | **6101 18** | 18 | 2.2 | 193 | 76 | 1 |
| 1582038 | **6101 19** | 19 | 2.2 | 193 | 74 | 1 |
| 1809741 | **6101 20** | 20 | 2.2 | 193 | 74 | 1 |
| 6451090 | **6101 22** | 22 | 3.0 | 193 | 111 | 1 |

## 6105

### WRENCH FOR PEDALS

- With same size each end and heads flat offset, head thickness 4.5 mm
- GEDORE vanadium steel 31CrV3, chrome-plated

| Code | No. | mm | ⌀ mm | | |
|---|---|---|---|---|---|
| 1549138 | **6105** | 340 | 15 | 210 | 1 |

## 6160

### HANDLE FOR FITTINGS

| Code | No. | mm | | |
|---|---|---|---|---|
| 1560778 | **6160** | 180 | 320 | 1 |

## 6161

### FITTINGS PARING SPANNER

- Tempered steel C45, chrome-plated

| Code | No. | ⌀ mm | ⌀ | mm | | |
|---|---|---|---|---|---|---|
| 1560719 | **6161** | 36 | 41 | 126 | 149 | 1 |

## 6162

### FITTINGS

- Tempered steel C45, chrome-plated

| Code | No. | ⌀ mm | mm | | |
|---|---|---|---|---|---|
| 1560727 | **6162 30** | 30 | 124 | 159 | 1 |
| 1578537 | **6162 32** | 32 | 124 | 151 | 1 |
| 1578545 | **6162 34** | 34 | 124 | 148 | 1 |
| 1578553 | **6162 35** | 35 | 124 | 147 | 1 |
| 1578561 | **6162 36** | 36 | 124 | 144 | 1 |
| 1578588 | **6162 40** | 40 | 124 | 138 | 1 |
| 1578596 | **6162 42** | 42 | 124 | 135 | 1 |

## 6163

### FITTING OPEN ENDED SPANNER

- Tempered steel C45, chrome-plated

| Code | No. | ⌀ mm | mm | | |
|---|---|---|---|---|---|
| 1560735 | **6163 15** | 15 | 124 | 173 | 1 |

## 6164

### FITTING HOOK SPANNER

- Tempered steel C45, chrome-plated

| Code | No. | Ø | mm | | |
|---|---|---|---|---|---|
| 1560743 | **6164** | 44 | 124 | 137 | 1 |

## 329001

### SIPHON TRAP PLIERS / SPRING HOOK WRENCH

- With plastic jaws

| Code | No. | ⌀ mm | mm | | |
|---|---|---|---|---|---|
| 1984381 | **329001** | 20-65 | 230 | 300 | 1 |

## 8386

### CONNECTOR PLIERS

- With lap joint
- 3 settings
- Protects sensitive surfaces
- Particularly suitable for Canon-Connectors or other screw connectors
- Plastic jaws bolted and replaceable (No. E-8386), jaw width 11 mm
- GEDORE high-performance hardened and tempered steel, chrome-plated
- Handles dip-insulated

| Code | No. | mm | | |
|---|---|---|---|---|
| 2003481 | **8386** | 20-60 | 300 | 1 |
| 2003694 | **E-8386** | | | 1 |

Quantities in packs may vary.

## 6166-18

### BICYCLE COMPACT TOOL 18 pieces

- Compact tool with 18 functions
- Intelligent division into 2 halves, easy handling of all functions
- Rounded, flat shape reduces the risk of injury in crashes, when carried in the jersey pocket
- 2 tyre levers integrated in hafts
- Chain tool - for up to 10-plate chains
- Box wrench 8, 10mm
- Screwdriver slotted / cross-slotted PH
- Spoke wrench G14, G15
- INBUS® wrench 2*, 2.5, 3, 4, 5, 6, 8
- TORX® wrench T20*, T25
- * Sizes supplied separately (for self-exchange)
- Made from Vanadium Plus steel
- Supplied in neoprene pouch for the jersey pocket, or carrying on a belt or saddle
- Dimensions: 98 x 50 x 25 mm
- TORX® = reg. trade mark of Acument Intellectual Properties, LLC. USA
- INBUS® = reg. trademark of Acument GmbH & Co. OHG, 56567 Neuwied, Germany

| Code | No. | | |
|---|---|---|---|
| 1953079 | **6166-18** | 223 | 1 |

## 6166-20

### BICYCLE COMPACT TOOL 20 pieces

- Compact tool with 20 functions
- 2 separate tyre levers made from hard-wearing plastic
- Chain tool
- Box wrench 6, 11, 12 and open wrench 8, 10, 13, 15
- Screwdriver slotted / cross-slotted PH
- Spoke wrench G14, G15
- INBUS® wrench 2.5, 3, 4, 5, 6, 8
- Made from Vanadium Plus steel
- Dimensions: 94 x 40 x 35 mm
- INBUS® = reg. trademark of Acument GmbH & Co. OHG, 56567 Neuwied, Germany

| Code | No. | | |
|---|---|---|---|
| 1888498 | **6166-20** | 235 | 1 |

## 6170-07

### TOOL SET FOR BICYCLE 7 pieces

- In plastic case
- Dimensions: 275 x 150 x 42 mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1888471 | **6170-07** | 1 handle No. 6160<br>1 fitting paring spanner No. 6161<br>1 fitting hexagon/octagon No. 6162 32<br>1 fitting hexagon/octagon No. 6162 36<br>1 fitting hexagon/octagon No. 6162 40<br>1 fitting open end spanner No. 6163 15<br>1 fitting hook spanner No. 6164 | 1400 | 1 |

## 8317

### BOWDEN CABLE CUTTER

- Crimping of bowden-cable sleeves and end-sleeves 1.5 mm and 2 mm
- For cutting wire rope up to 2 mm diameter and bowden-cable sleeves up to 5 mm diameter as well as for medium-hard wire
- With opening spring, transport lock and width adjustment
- Induction-hardened cutting edges
- Innovative GEDORE cutting form produces a precision cut
- Low overall weight
- DBGM (= German Utility Patent)

| Code | No. | mm | | |
|---|---|---|---|---|
| 2011638 | **8317-160 JC** | 170 | 150 | 1 |

## Torque wrenches and accessories

254 - 335



Quantities in packs may vary.

# INDUSTRIAL CUTLERY

- Cutlery is traditionally not made from tempering steel, but from plain carbon steel. Carbon steel is not stainless, but keeps its sharpness longer than stainless steel.
- All GEDORE scissors are hot, drop-forged.
- Precisely machined and hardened/tempered.
- The cutting-edge is manually ground
- Carbon steel, professional hardening/tempering and the hand-ground cutting edge ensure an optimum cut and cutting-sharpness longevity.

- **Please ask for our detailed priced leaflet!**

## SCISSORS

### 1104

**CRAFTSMAN SCISSORS**

- Outstanding cutting performance
- Suitable for textiles, rubber, wallpaper, plastic, etc.
- Forged, resharpenable
- Adjuster screw for later adjustment
- Fine-polished C45 carbon steel, varnished eyes, silicone dipped RAL 5015
- Chrome-plated
- Version L = for left-handers

| Code | No. | mm | | |
|---|---|---|---|---|
| 9118280 | **1104-18** | 180 | 142 | 5 |
| 9118360 | **1104-20** | 200 | 248 | 5 |
| 2082292 | **1104-20L** | 200 | 248 | 5 |
| 9118440 | **1104-23** | 230 | 300 | 5 |
| 9118520 | **1104-26** | 260 | 378 | 5 |
| 2082306 | **1104-26L** | 260 | 378 | 5 |
| 9118600 | **1104-29** | 290 | 446 | 5 |
| 9118790 | **1104-32** | 320 | 536 | 5 |

### 1114

**LEATHER SCISSORS**

- Ideal for all kind of leather
- 9° serrated section
- Adjuster screw for later adjustment
- Fine-polished C45 carbon steel, varnished eyes, silicone dipped RAL 5015
- Chrome-plated

| Code | No. | mm | | |
|---|---|---|---|---|
| 9118950 | **1114-23** | 230 | 282 | 5 |

### 1277

**INDUSTRIAL SCISSORS PROFESSIONAL**

- With two equal eyes
- For universal use
- Hand-ground
- Adjuster screw for later adjustment
- Fine-polished C45 carbon steel
- Chrome-plated

| Code | No. | mm | | |
|---|---|---|---|---|
| 9119680 | **1277-10** | 100 | 23 | 5 |
| 9119760 | **1277-12** | 120 | 40 | 5 |
| 9119840 | **1277-16** | 160 | 61 | 5 |
| 9119920 | **1277-18** | 180 | 88 | 5 |

### 1350

**INDUSTRIAL SCISSORS PROFESSIONAL**

- One large and one small eye for higher transmission of force
- For universal use
- Hand-ground
- Adjuster screw for later adjustment
- Fine-polished carbon steel
- Chrome-plated
- Version L = for left-handers

| Code | No. | mm | | |
|---|---|---|---|---|
| 9120770 | **1350-16** | 160 | 70 | 5 |
| 9120850 | **1350-18** | 180 | 94 | 5 |
| 2082314 | **1350-18L** | 180 | 94 | 5 |
| 9120930 | **1350-20** | 200 | 132 | 5 |

### 2123

**PAPER SCISSORS**

- With two equal eyes
- Suitable for the paper-processing industry and also for wallpapering and use in offices and warehouses
- Fine-polished C45 carbon steel
- Chrome-plated

| Code | No. | mm | | |
|---|---|---|---|---|
| 9123790 | **2123-26** | 260 | 178 | 5 |


**8250 • 8315**

363
364


Quantities in packs may vary.

## 52887 TE - 55108 TE

### SPECIAL SCISSORS

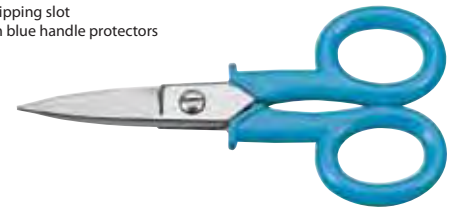
- Ideal for Kevlar®, aramid and glass fibre
- Extra hard blades, outside Teflon-coated, inside chrome-plated
- Fine-serrated on one side
- Pointed execution
- Plastic-coated handles
- Version L = for left-handers
- Kevlar® is a registered trademark of the company DuPont

| Code | No. | mm | | |
|---|---|---|---|---|
| 8017730 | **52887 TE-V-210** | 210 | 252 | 1 |
| 8017750 | **52887 TE-V-260** | 260 | 420 | 1 |
| 2082381 | **52887 TE-V-320** | 320 | 622 | 1 |
| 2082403 | **52999 TE-V-260L** | 260 | 360 | 1 |
| 2082330 | **53791 TE-V-210** | 210 | 272 | 1 |
| 2082373 | **55108 TE-V-130** | 130 | 62 | 1 |

## 8096

### SMALL UNIVERSAL SCISSORS

- With insulation stripping slot
- Nickel-plated, with blue handle protectors



| Code | No. | mm | | |
|---|---|---|---|---|
| 6707900 | **8096-140** | 140 | 75 | 1 |

# KNIVES

## 0021

### POCKET KNIFE

- Traditional working knife
- Folding
- Universal use
- Extremely sharp
- C75 carbon steel blade
- Weatherproof hardwood handle

| Code | No. | mm | | |
|---|---|---|---|---|
| 2016737 | **0021-07** | 70 | 57 | 10 |

## 0038

### POCKET KNIFE

- Anchor or dinghy knife for heavy-duty use
- Folding
- Universal use
- Extremely sharp
- C75 carbon steel blade
- Weatherproof hardwood handle

| Code | No. | mm | | |
|---|---|---|---|---|
| 9100580 | **0038-08** | 80 | 86 | 10 |

## 0042

### CABLE KNIFE

- With wire stripper
- Folding
- Universal use
- Extremely sharp
- C75 carbon steel blade
- Weatherproof hardwood handle

| Code | No. | mm | | |
|---|---|---|---|---|
| 9100660 | **0042-09** | 90 | 76 | 10 |

## 0047

### POCKET KNIFE

- With extremely wide blade for heavy-duty use
- Folding
- Universal use
- Extremely sharp
- C75 carbon steel blade
- Weatherproof hardwood handle

| Code | No. | mm | | |
|---|---|---|---|---|
| 9100740 | **0047-07** | 70 | 64 | 10 |
| 9100900 | **0047-75** | 75 | 86 | 10 |
| 9100820 | **0047-08** | 80 | 98 | 10 |

## 0056

### POCKET KNIFE

- Traditional working knife
- Folding
- Universal use
- Extremely sharp
- C75 carbon steel blade
- Plastic handle

| Code | No. | mm | | |
|---|---|---|---|---|
| 9101040 | **0056-07** | 70 | 66 | 10 |

## 0063

### CABLE KNIFE

- With wire stripper
- Folding
- Universal use
- Extremely sharp
- X46Cr13 stainless steel blade
- Plastic handle

| Code | No. | mm | | |
|---|---|---|---|---|
| 9101200 | **0063-08** | 80 | 92 | 10 |

## 0059 - 0067

### POCKET KNIFE

- Traditional working knife
- Folding
- Universal use
- Extremely sharp
- C75 carbon steel blade
- Weatherproof hardwood handle

| Code | No. | mm | | |
|---|---|---|---|---|
| 9101470 | **0067-07** | 70 | 61 | 10 |
| 9101390 | **0065-09** | 90 | 78 | 10 |
| 9101120 | **0059-10** | 100 | 102 | 10 |



Quantities in packs may vary.

## 0117

### WORK KNIFE

- Ideal as a packaging, boxing, warehousing or paper knife
- Extremely sharp
- C75 carbon steel blade
- Beech handle

| Code | No. | | | |
|---|---|---|---|---|
| 9102520 | **0117-10** | 100 | 70 | 10 |
| 9102600 | **0117-12** | 120 | 80 | 10 |
| 9102790 | **0117-16** | 160 | 106 | 10 |
| 9102870 | **0117-18** | 180 | 110 | 10 |

## 0246

### INDUSTRIAL KNIFE

- Wide blade with straight back
- Extremely sharp
- C75 carbon steel blade
- Beech handle

| Code | No. | mm | | |
|---|---|---|---|---|
| 9106860 | **0246-16** | 160 | 98 | 10 |

## 0291

### UNIVERSAL KNIFE

- Universal use
- Extremely sharp
- C75 carbon steel blade
- Beech handle

| Code | No. | | | | |
|---|---|---|---|---|---|
| 9107910 | **0291-06** | 60 | 175 | 37 | 10 |

## 0365

### UNIVERSAL KNIFE

- Stainless steel
- Handle made from cherrywood

| Code | No. | | | |
|---|---|---|---|---|
| 9109290 | **0365-07** | 70 | 39 | 10 |

## 0513

### CABLE KNIFE

- With wire stripper
- Folding
- Universal use
- Extremely sharp
- C70 carbon steel blade
- Weatherproof hardwood handle

| Code | No. | mm | | |
|---|---|---|---|---|
| 9113050 | **0513-09** | 90 | 80 | 10 |

## 4522

### ELECTRICIANS' CABLE KNIFE

- With wire stripper
- Folding blade
- Rosewood-faced handle

| Code | No. | | | | |
|---|---|---|---|---|---|
| 6690240 | **4522** | 85 | 195 | 75 | 10 |

## 6951

### SAFETY KNIFE

- Ideal for the logistics sector
- Wave-ground carbon steel blade
- Blade-shield to protect user from cuts
- Concealed safety foil blade, cuts only when the blue slider is pressed
- Polyamide handle

| Code | No. | Description | | |
|---|---|---|---|---|
| 2082411 | **6951-00** | Safety knife | 150 | 1 |
| 2082438 | **6951-20** | Wave-ground blade | 40 | 1 |
| 2082446 | **6951-50** | Dispender with 10 foil blades | 63 | 1 |

# SCRAPERS

## 0175

### SCRAPER

- Stamped blade
- Fine-polished, flexible C75 carbon steel
- Glazed beech handle
- Blade width 30 - 120 mm

| Code | No. | W | | |
|---|---|---|---|---|
| 9103840 | **0175-03** | 30 | 66 | 10 |
| 9103920 | **0175-04** | 40 | 68 | 10 |
| 9104060 | **0175-05** | 50 | 72 | 10 |
| 9104140 | **0175-06** | 60 | 80 | 10 |
| 9104220 | **0175-08** | 80 | 90 | 10 |
| 9104300 | **0175-10** | 100 | 110 | 10 |
| 9104490 | **0175-12** | 120 | 120 | 10 |

## 0179

### SCRAPER

- Professional version
- Fully forged
- Fine-polished, flexible C50 carbon steel
- Weatherproof hardwood handle
- Handle width 30 - 120 mm

| Code | No. | W | | |
|---|---|---|---|---|
| 9104570 | **0179-03** | 30 | 47 | 10 |
| 9104650 | **0179-04** | 40 | 63 | 10 |
| 9104730 | **0179-06** | 60 | 84 | 10 |
| 9104810 | **0179-08** | 80 | 120 | 10 |
| 2016745 | **0179-10** | 100 | 132 | 10 |
| 9105110 | **0179-12** | 120 | 144 | 10 |

Quantities in packs may vary.

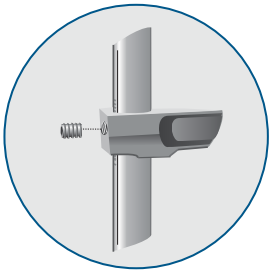
# Cast iron screw clamps

**for direct, secured clamping.**

Malleable cast iron fixed and sliding jaws. The subsequent graphitization gives the bars properties similar to tough steel.

Moveable pressure plate made from top-grade forged steel with replaceable plastic pads for soft gripping.

Tilting arrester screw to prevent unwanted slipping or releasing of the slide bar. Setscrew adjustment.



Spindle with extra deep trapezoidal threads. Lifetime smooth motion, maximum force transmission and wear resistance.

Hand-friendly beech grip, smoothly riveted to the spindle. With plastic ferrule to prevent injury.

Rolled hollow profile and flat profile bar with toothing on the reverse, high-bright galvanized for low-contamination working, made from hardened and tempered steel. For extreme bending strength and tensile strength.

## Clamping plates

**for screw clamps**

- Clamping plates for difficult edges and surfaces
- Universal size = suitable for all screw clamps
- With magnetic holder

# CAST IRON SCREW CLAMPS

- Pressure plate with exchangeable protective cap
- Deep trapezoidal thread for optimum transfer or force
- Clamping arms in sturdy malleable cast iron, with torsionally-resistant H-section
- With fixing screw for fine adjustment of pressure
- With beech wood handle or tommy bar with sliding lever handle

## DIS

### CAST IRON SCREW CLAMP with wooden handle

- To DIN 5117
- Professional clamp for universal use
- With strong profile-section bar in special steel and rear toothing
- Pressure plate with exchangeable protective cap
- Deep trapezoidal thread for optimum transfer or force
- Clamping arms in sturdy malleable cast iron, with torsionally-resistant H-section
- With fixing screw for fine adjustment of pressure
- With beech wood handle

| Code | No. | mm | mm | | |
|---|---|---|---|---|---|
| 1068849 | **DIS080016** | 80 | 160 | 25 x 6 | 0.7 |
| 1068938 | **DIS100020** | 100 | 200 | 30 x 8 | 1.3 |
| 1068989 | **DIS120025** | 120 | 250 | 30 x 8 | 1.7 |
| 1068997 | **DIS120030** | 120 | 300 | 30 x 8 | 1.8 |
| 1069004 | **DIS120040** | 120 | 400 | 30 x 8 | 2.2 |
| 1069012 | **DIS120050** | 120 | 500 | 30 x 8 | 2.3 |
| 1069020 | **DIS120060** | 120 | 600 | 30 x 8 | 2.4 |
| 1069039 | **DIS120080** | 120 | 800 | 30 x 8 | 2.8 |
| 1069047 | **DIS120100** | 120 | 1000 | 30 x 8 | 2.7 |
| 1401173 | **DIS120125** | 120 | 1250 | 35 x 11 | 3.2 |
| 1401181 | **DIS120150** | 120 | 1500 | 35 x 11 | 3.5 |
| 1401203 | **DIS120200** | 120 | 2000 | 35 x 11 | 4.5 |

## DIN

### CAST IRON SCREW CLAMP with wooden handle

- To DIN 5117
- Heavy-duty professional clamp for hard, everyday use
- Strong flat steel bar with rear toothing
- Pressure plate with exchangeable protective cap
- Deep trapezoidal thread for optimum transfer or force
- Clamping arms in sturdy malleable cast iron, with torsionally-resistant H-section
- With fixing screw for fine adjustment of pressure
- With beech wood handle

| Code | No. | mm | mm | | |
|---|---|---|---|---|---|
| 1170937 | **DIN050100** | 50 | 100 | 15 x 5 | 0.3 |
| 1171062 | **DIN060120** | 65 | 120 | 20 x 5 | 0.6 |
| 1171070 | **DIN060200** | 65 | 200 | 20 x 5 | 0.6 |
| 1171097 | **DIN060300** | 65 | 300 | 20 x 5 | 0.7 |
| 1069462 | **DIN140030** | 140 | 300 | 35 x 9 | 2.2 |
| 1069470 | **DIN140040** | 140 | 400 | 35 x 9 | 2.5 |
| 1069527 | **DIN175040** | 175 | 400 | 35 x 9 | 2.7 |
| 1069276 | **DIN121050** | 120 | 500 | 35 x 11 | 3.0 |
| 1069284 | **DIN121060** | 120 | 600 | 35 x 11 | 3.3 |
| 1069292 | **DIN121080** | 120 | 800 | 35 x 11 | 3.9 |
| 1069306 | **DIN121100** | 120 | 1000 | 35 x 11 | 4.5 |
| 1069314 | **DIN121120** | 120 | 1200 | 35 x 11 | 5.1 |
| 1069322 | **DIN121150** | 120 | 1500 | 35 x 11 | 5.9 |

## DISB

### CAST IRON SCREW CLAMP with tommy bar

- For fast, strong clamping with sliding lever handle
- With strong profile-section bar in special steel and rear toothing
- Pressure plate with exchangeable protective cap
- Deep trapezoidal thread for optimum transfer or force
- Clamping arms in sturdy malleable cast iron, with torsionally-resistant H-section
- With fixing screw for fine adjustment of pressure
- With tommy bar with sliding lever handle

| Code | No. | mm | mm | | |
|---|---|---|---|---|---|
| 1069055 | **DISB080016** | 80 | 160 | 25 x 6 | 0.7 |
| 1069144 | **DISB100020** | 100 | 200 | 30 x 8 | 1.3 |
| 1069195 | **DISB120025** | 120 | 250 | 30 x 8 | 1.7 |
| 1069209 | **DISB120030** | 120 | 300 | 30 x 8 | 1.8 |
| 1069217 | **DISB120040** | 120 | 400 | 30 x 8 | 2.2 |
| 1069225 | **DISB120050** | 120 | 500 | 30 x 8 | 2.3 |
| 1069233 | **DISB120060** | 120 | 600 | 30 x 8 | 2.4 |
| 1069241 | **DISB120080** | 120 | 800 | 30 x 8 | 2.8 |
| 1069268 | **DISB120100** | 120 | 1000 | 30 x 8 | 3.2 |

## DINB

### CAST IRON SCREW CLAMP with tommy bar

- For fast, strong clamping with sliding lever handle
- Strong flat steel bar with rear toothing
- Pressure plate with exchangeable protective cap
- Deep trapezoidal thread for optimum transfer or force
- Clamping arms in sturdy malleable cast iron, with torsionally-resistant H-section
- With fixing screw for fine adjustment of pressure
- With tommy bar with sliding lever handle

| Code | No. | mm | mm | | |
|---|---|---|---|---|---|
| 1069586 | **DINB121050** | 120 | 500 | 35 x 11 | 3.0 |
| 1069594 | **DINB121060** | 120 | 600 | 35 x 11 | 3.3 |
| 1069608 | **DINB121080** | 120 | 800 | 35 x 11 | 3.9 |
| 1069616 | **DINB121100** | 120 | 1000 | 35 x 11 | 4.5 |
| 1069624 | **DINB121120** | 120 | 1200 | 35 x 11 | 5.1 |
| 1069764 | **DINB140030** | 140 | 300 | 35 x 9 | 2.2 |

Quantities in packs may vary.

# All-steel screw clamps

## for optimum force transmission

**TGM, TGB, TGP, TGE all-steel screw clamps are primarily used in steel and vehicle construction. Particularly where heavy, sturdy parts need special clamping forces and a high degree of safety is essential.**

Moveable pressure plate made from top-grade forged steel with replaceable plastic pads for soft gripping.

Forged, hardened and tempered steel sliding jaw. Hollow profile and flat profile bars with toothing on the reverse, high-bright galvanized for low contamination working.

Spindle with extra deep trapezoidal threads. Lifetime smooth motion, maximum force transmission and wear resistance.

Moveable handle, with T-handle pivot for increased application of pressure.

Hand-friendly beech grip, smoothly riveted to the spindle. With plastic ferrule to prevent injury.

Profile bar with rolled profile steel fixed jaw, hot formed and hardened and tempered in one piece. Optimum stability under load.

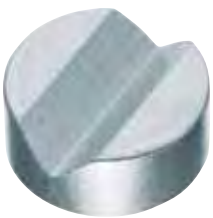
## CLAMPING PLATES FOR SCREW CLAMPS

### DP 621

**CLAMPING PLATES FOR SCREW CLAMPS**

- Clamping plates for difficult edges and surfaces
- Universal size = suitable for all screw clamps
- With magnetic holder
- **DP 621-1** With holding tips for uneven, smooth and slippery surfaces
- **DP 621-2** With internal angle for external edges
- **DP 621-3** With external angle for internal edges

DP 621-1



DP 621-2

DP 621-3

| Code | No. | Description | |
|---|---|---|---|
| 1564714 | **DP 621-1** | Clamping plate for holding tips | 162 |
| 1564757 | **DP 621-2** | Clamping plate with wedge | 162 |
| 1564803 | **DP 621-3** | Clamping plate with cone | 162 |



Quantities in packs may vary.

# ALL-STEEL SCREW CLAMPS

- With hollow-section bar and integral clamping arm
- In cold-drawn profile-section steel, hot-forged to shape and with optimum heat treatment guarantees torsion-free transference of the clamping force
- With forged clamping arm - fitted to slide perfectly
- Movable pressure plate with protective cap
- Deep trapezoidal thread for optimum transfer of force
- In special steel, hardened, bright zinc-plated - for good protection against corrosion and non-dirtying surface
- With beech wood handle or tommy bar with sliding lever handle

## TGM

### ALL-STEEL SCREW CLAMP with wooden handle

- The handy professional clamp for heavy-duty, flexible clamping
- With hollow-section bar and integral clamping arm
- In cold-drawn profile-section steel, hot-forged to shape and with optimum heat treatment guarantees torsion-free transference of the clamping force
- With forged clamping arm - fitted to slide perfectly
- Movable pressure plate with protective cap
- Deep trapezoidal thread for optimum transfer of force
- In special steel, hardened, bright zinc-plated - for good protection against corrosion and non-dirtying surface
- With beech wood handle

| Code | No. | mm | mm | | kg |
|---|---|---|---|---|---|
| 1070096 | **TGM080016** | 80 | 160 | 16 x 8 | 0.6 |
| 1070118 | **TGM100020** | 100 | 200 | 20 x 10 | 1.1 |
| 1070126 | **TGM121025** | 120 | 250 | 22 x 11 | 1.7 |
| 1070142 | **TGM122030** | 120 | 300 | 25 x 12 | 2.1 |
| 1070150 | **TGM122040** | 120 | 400 | 25 x 12 | 2.4 |
| 1070169 | **TGM122050** | 120 | 500 | 25 x 12 | 2.6 |
| 1070177 | **TGM122060** | 120 | 600 | 25 x 12 | 2.8 |
| 1070185 | **TGM124080** | 120 | 800 | 25 x 12 | 4.1 |
| 1070193 | **TGM124100** | 120 | 1000 | 25 x 12 | 4.7 |
| 1070207 | **TGM124125** | 120 | 1250 | 25 x 12 | 5.4 |
| 1070215 | **TGM126150** | 120 | 1500 | 25 x 12 | 7.6 |
| 1070134 | **TGM140030** | 140 | 300 | 25 x 12 | 2.3 |

## TGP

### ALL-STEEL SCREW CLAMP with pivot handle

- For all variable uses requiring sensivity and force
- The variable handle position permits a sensible combination of handle and tommy bar
- With hollow-section bar and integral clamping arm
- In cold-drawn profile-section steel, hot-forged to shape and with optimum heat treatment guarantees torsion-free transference of the clamping force
- With forged clamping arm - fitted to slide perfectly
- Movable pressure plate with protective cap
- Deep trapezoidal thread for optimum transfer of force
- In special steel, hardened, bright zinc-plated - for good protection against corrosion and non-dirtying surface
- With beech wood handle

| Code | No. | mm | mm | | kg |
|---|---|---|---|---|---|
| 1070460 | **TGP121025** | 120 | 250 | 22 x 11 | 1.7 |
| 1070479 | **TGP122030** | 120 | 300 | 25 x 12 | 2.1 |
| 1070541 | **TGP140030** | 140 | 300 | 25 x 12 | 2.1 |
| 1070487 | **TGP122040** | 120 | 400 | 25 x 12 | 2.4 |
| 1070495 | **TGP122050** | 120 | 500 | 25 x 12 | 2.6 |
| 1070509 | **TGP122060** | 120 | 600 | 25 x 12 | 2.8 |
| 1070517 | **TGP124080** | 120 | 800 | 28 x 14 | 4.1 |
| 1070525 | **TGP124100** | 120 | 1000 | 28 x 14 | 4.7 |
| 1070533 | **TGP124125** | 120 | 1200 | 28 x 14 | 5.4 |

## TGB

### ALL-STEEL SCREW CLAMP with tommy bar

- For fast, strong clamping - with sliding lever handle
- With hollow-section bar and integral clamping arm
- In cold-drawn profile-section steel, hot-forged to shape and with optimum heat treatment guarantees torsion-free transference of the clamping force
- With forged clamping arm - fitted to slide perfectly
- Movable pressure plate with protective cap
- Deep trapezoidal thread for optimum transfer of force
- In special steel, hardened, bright zinc-plated - for good protection against corrosion and non-dirtying surface
- With tommy bar with sliding lever handle

| Code | No. | mm | mm | | kg |
|---|---|---|---|---|---|
| 1070223 | **TGB080016** | 80 | 160 | 16 x 8 | 0.6 |
| 1070231 | **TGB100020** | 100 | 200 | 20 x 10 | 1.1 |
| 1070258 | **TGB121025** | 120 | 250 | 22 x 11 | 1.7 |
| 1070274 | **TGB122030** | 120 | 300 | 25 x 12 | 2.1 |
| 1070282 | **TGB122040** | 120 | 400 | 25 x 12 | 2.4 |
| 1070290 | **TGB122050** | 120 | 500 | 25 x 12 | 2.6 |
| 1070304 | **TGB122060** | 120 | 600 | 25 x 12 | 2.8 |
| 1070312 | **TGB124080** | 120 | 800 | 28 x 14 | 4.1 |
| 1070320 | **TGB124100** | 120 | 1000 | 28 x 14 | 4.7 |
| 1070339 | **TGB124125** | 120 | 1250 | 28 x 14 | 5.4 |
| 1070266 | **TGB140030** | 140 | 300 | 25 x 12 | 2.3 |

# QUICK-RELEASE LEVER CLAMPS

- With hollow-section bar and integral clamping arm
- In cold-drawn profile-section steel, hot-forged to shape and with optimum heat treatment guarantees torsion-free transference of the clamping force
- High-gloss zinc-plated - for good protection against corrosion and non-dirtying surface
- With fine tooth and pawl mechanism for careful, fast clamping action and high force transference due to lever action
- The clamping force cannot be released or reduced by vibration
- With easy-grip powder-coated handle incorporating a release lever
- The movable clamping arm has a drop-forged, torsion-resistant profile section, and a precise mechanism for providing the highest clamping pressure

## TGE

### QUICK-RELEASE LEVER CLAMP

- For secure, high-pressure clamping, even using only one hand
- With hollow-section bar and integral clamping arm
- In cold-drawn profile-section steel, hot-forged to shape and with optimum heat treatment guarantees torsion-free transference of the clamping force
- High-gloss zinc-plated - for good protection against corrosion and non-dirtying surface
- With fine tooth and pawl mechanism for careful, fast clamping action and high force transference due to lever action
- The clamping force cannot be released or reduced by vibration
- With easy-grip powder-coated handle incorporating a release lever
- The movable clamping arm has a drop-forged, torsion-resistant profile section, and a precise mechanism for providing the highest clamping pressure

| Code | No. | mm | mm | | kg |
|---|---|---|---|---|---|
| 1070347 | **TGE080016** | 80 | 160 | 16 x 8 | 1.0 |
| 1070355 | **TGE100020** | 100 | 200 | 20 x 10 | 1.4 |
| 1070363 | **TGE121025** | 120 | 250 | 22 x 11 | 1.9 |
| 1070398 | **TGE122030** | 120 | 300 | 25 x 12 | 2.6 |
| 1070401 | **TGE122040** | 120 | 400 | 25 x 12 | 2.8 |
| 1070428 | **TGE122050** | 120 | 500 | 25 x 12 | 3.0 |
| 1070436 | **TGE122060** | 120 | 600 | 25 x 12 | 3.3 |
| 1070444 | **TGE124080** | 120 | 800 | 28 x 14 | 4.6 |
| 1070452 | **TGE124100** | 120 | 1000 | 28 x 14 | 5.2 |
| 1070371 | **TGE140030** | 140 | 300 | 25 x 12 | 2.8 |

Quantities in packs may vary.

# WORK LIGHTS

- Work lights in industrial quality
- Protective jacket made of high quality rubber
- Protective tube made of polycarbonate or PMMA (also used for aircraft screens)

- GEDORE lamps are equipped with a Euro plug as per EN 50075 or with a shaped plug as per CEE 7/17
- Euro plugs can be used throughout Europe, except Britain, Ireland, Cyprus and Malta
- The particular geometry of the shaped plug allows the lamps to be used in more than 100 countries around the world
- International connectors and other connector variants are available on request

**Protection class I**
All electrically conductive parts of the equipment casing are connected to the equipment grounding conductor (earthing) system of the fixed electrical installation. Mobile or portable appliances with protection class I have a plug and socket connection with an equipment grounding contact, i.e. an earthing contact. The earthing connection is designed in such a way as to ensure that it is the first connection made, when the plug is inserted into the mains socket, and the last to be disconnected in the event of a fault. The power cable must be fitted with a mechanical strain-relief device at the point of entry into the equipment. If a fault occurs, in which a live conductor comes into contact with the casing, which is connected to earth, an earth contact is normally made, triggering the fuse and cutting the live power feed.

**Protection class II**
Equipment rated to protection class II has greater insulation or is double insulated, and is not connected to earth. This kind of safety measure is also referred to as protective insulation. Even if such equipment has electrically conductive surfaces, the increased level of insulation ensures that these surfaces are protected from coming into contact with live parts. Mobile or portable appliances with protection class II are not equipped with an earthed plug, that is to say: a three-pin plug is still used, but the earth pin is not connected.

**Protection class III**
Appliances rated to protection class III work with Safely Extra Low Voltage (SELV) and therefore need no explicit protection. Safely Extra Low Voltage (SELV) lamps are lamps rated at less than 50 V AC or 120 V DC, powered by a safety transformer as per DIN VDE 0551 (EN 60742) or by rechargeable or non-rechargeable batteries.

# HANDLAMPS

## 900 51

### HAND LAMP MINI 4

- Power 4 W
- Operating voltage of charger 230 V AC/50 Hz
- Luminous flux 140 lm
- Protection class II
- Protection classification IP20
- T5 bulb; nor replaceable
- Luminous paint: bright white, colour temperature 4000 Kelvin
- Permitted ambient temperature of the operating field: -10 to +40 °C
- With electronic ballast (EVG). The lamp starts without flickering thanks to the electronic ballast; gentle on the bulb
- With rotating suspension hook
- Flexible cable routing as a safeguard against cable fracture
- Hexagonal housing to stop any rolling away
- Euro plug with 5 metres cable
- LxWxH: 350x30x30 mm

| Code | No. | mm | | |
|---|---|---|---|---|
| 2279754 | **900 51** | 350 | 470 | 1 |

## 900 53

### HAND LAMP STANDARD 8

- Power 8 W
- Operating voltage 230 V AC/50 Hz
- Luminous flux 385 lm
- Protection class II
- Protection classification IP20
- T5 bulb; nor replaceable
- Luminous paint: bright white, colour temperature 4000 Kelvin
- Permitted ambient temperature of the operating field: -10 to +40 °C
- With electronic ballast (EVG). The lamp starts without flickering thanks to the electronic ballast; gentle on the bulb
- With rotating suspension hook
- Flexible cable routing as a safeguard against cable fracture
- Hexagonal housing to stop any rolling away
- Euro plug with 5 metres cable
- LxWxH: 500x30x30 mm

| Code | No. | mm | | |
|---|---|---|---|---|
| 2279770 | **900 53** | 500 | 490 | 1 |

## 900 52 LED

### HAND LAMP AKKU LED PRO

- Rechargeable battery capacity 7.2 V DC/950 mAh
- Operating voltage of charger 230 V AC/50 Hz
- Protection class III
- Protection classification IP54
- Permitted ambient temperature of the operating field: -10 to +40 °C
- 30 bright white LEDs
- Charging station with 12 V adapter for cigarette lighter and Euro plug
- Rechargeable battery Ni-MH, charging time 1.5 h
- Robust, high-grade housing
- Protection from rechargeable battery overloading and excessive voltage
- With rotating suspension hook
- LxWxH: 350x45x45 mm

| Code | No. | mm | | |
|---|---|---|---|---|
| 2279711 | **900 52 LED** | 305 | 600 | 1 |



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## 900 54 LED

### HAND LAMP PROFI QUICK 36 LED

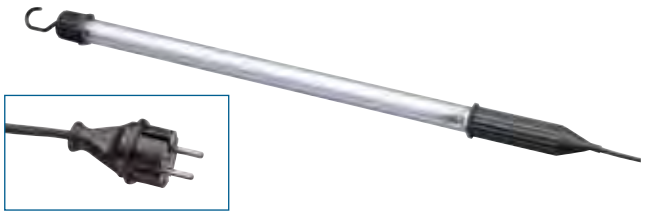
- Power 4.5 W
- Operating voltage 24 V DC
- Protection class III
- Protection classification IP54
- Permitted ambient temperature of the operating field: -10 to +40 °C
- 36 bright white LEDs
- With rotating suspension hook
- Flexible cable routing as a safeguard against cable fracture
- Hexagonal housing to stop any rolling away
- Inside reflector; with prism protective tub
- Euro plug with 5 metres of cable
- LxWxH: 525x30x50 mm

| Code | No. | mm | | |
|---|---|---|---|---|
| 2279797 | **900 54 LED** | 525 | 675 | 1 |

## 900 58

### HAND LAMP TRUCK 13

- Power 13 W
- Operating voltage 230 V AC/50 Hz
- Luminous flux 830 lm
- Protection class II
- Protection classification IP54
- T5 bulb; G5 tube socket; replaceable
- Luminous paint: bright white, colour temperature 4000 Kelvin
- Permitted ambient temperature of the operating field: -10 to +40 °C
- Robust aluminium inner profile
- With rotating suspension hook
- Shaped plug with 5 metres cable
- LxWxH: 800x33x33 mm

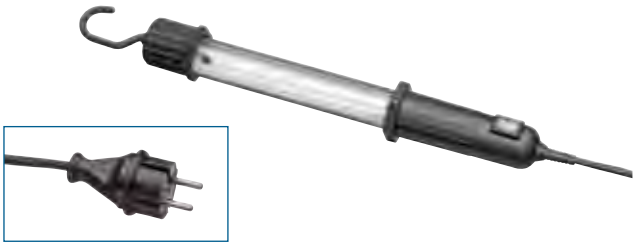


| Code | No. | | |
|---|---|---|---|
| 2279800 | **900 58** | 755 | 1 |

## 900 55

### HAND LAMP COMPACT 11

- Power 11 W
- Operating voltage 230 V AC/50 Hz
- Luminous flux 900 lm
- Protection class II
- Protection classification IP54
- Pl bulb; G23 tube socket; replaceable
- Luminous paint: bright white, colour temperature 4000 Kelvin
- Permitted ambient temperature of the operating field: -10 to +40 °C
- On/off switch
- Shaped plug with 5 metres cable
- LxWxH: 460x38x38 mm

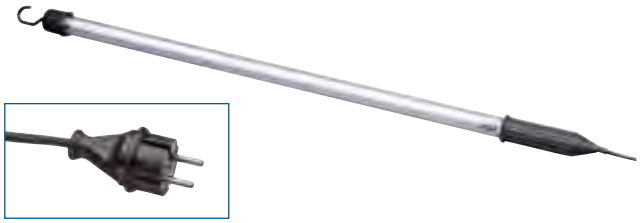


| Code | No. | | |
|---|---|---|---|
| 2279738 | **900 55** | 550 | 1 |

## 900 59

### HAND LAMP TRUCK 21

- Power 21 W
- Operating voltage 230 V AC/50 Hz
- Luminous flux 1900 lm
- Protection class II
- Protection classification IP54
- T5 bulb; G5 tube socket; replaceable
- Luminous paint: bright white, colour temperature 4000 Kelvin
- Permitted ambient temperature of the operating field: -10 to +40 °C
- Robust aluminium inner profile
- With rotating suspension hook
- Shaped plug with 5 metres cable
- LxWxH: 1140x33x33 mm



| Code | No. | | |
|---|---|---|---|
| 2279827 | **900 59** | 1500 | 1 |

## 900 56

### HAND LAMP PROFI QUICK

- Power 8 W
- Operating voltage 230 V AC/50 Hz
- Luminous flux 385 lm
- Protection class II
- Protection classification IP54
- T5 bulb; G5 tube socket; replaceable
- Luminous paint: bright white, colour temperature 4000 Kelvin
- Permitted ambient temperature of the operating field: -10 to +40 °C
- With electronic ballast (EVG). The lamp starts without flickering thanks to the electronic ballast; gentle on the bulb
- With rotating suspension hook
- Flexible cable routing as a safeguard against cable fracture
- Hexagonal housing to stop any rolling away
- Inside reflector
- Shaped plug with 5 metres cable
- LxWxH: 550x33x33 mm

| Code | No. | | |
|---|---|---|---|
| 2279789 | **900 56** | 665 | 1 |

## 900 60

### ENGINE SPACE LAMP

- Power 21 W
- Operating voltage 230 V AC/50 Hz
- Luminous flux 1900 lm
- Protection class II
- Protection classification IP54
- T5 bulb; G5 tube socket; replaceable
- Luminous paint: bright white, colour temperature 4000 Kelvin
- With anti-shatter foil
- Permitted ambient temperature of the operating field: -10 to +40 °C
- Dazzle-free lighting of the entire operating area
- Flexible quick-clamp device extendable from 115 - 190 cm
- Fully rubber-protected clamp for trouble-free and rapid fastening
- From aluminium
- Shaped plug with 10 metres cable
- LxWxH: 1140x33x33 mm

| Code | No. | | |
|---|---|---|---|
| 2279746 | **900 60** | 2700 | 1 |

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## H 900 60

### TELESCOPIC BONNET SUPPORT

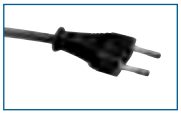
- Flexible quick-clamp device extendable from 115 - 190 cm
- Fully rubber-protected clamp for trouble-free and rapid fastening
- From aluminium
- Spare part for no. 900 60

| Code | No. | mm | | |
|---|---|---|---|---|
| 2279762 | **H 900 60** | 1150-1900 | 1400 | 1 |

## 900 61

### HAND LAMP PRO AKKU DUO LED

- Rechargeable battery capacity 3.7 V DC/2400 mAh
- Operating voltage of charger 230 V AC/50 Hz
- Protection class II
- Protection classification IP68
- Permitted ambient temperature of the operating field: -10 to +40 °C
- 3 bright-white LEDs with a minimum 50,000 h service life
- With a 80° angle of reflected beam, illuminates a four-fold larger working angle than comparable LED inspection lamps
- Three-fold greater light efficiency than comparable LED inspection lamps
- Charging unit with euro plug
- Li-polymer rechargeable battery; max. operating time 4 h
- Contact-free induction charge, charging time 4 h
- Break-proof housing



| Code | No. | | |
|---|---|---|---|
| 2288672 | **900 61** | 815 | 1 |

## H 900

### MAGNETIC HOLDER

- Magnetic system in flat pattern
- Housing zinc-plated
- Temperature of use up to 200 °C

| Code | No. | Tensile force kp | Adhesive force N | Ø | | |
|---|---|---|---|---|---|---|
| 2279819 | **H 900 01** | 25 | 245 | 50 | 130 | 1 |
| 2279843 | **H 900 02** | 28 | 275 | 63 | 250 | 1 |

# WORKLAMPS

## 901 57

### WORKLAMP MEGA POWER 72

- Power 2x 36 W
- Operating voltage 230 V AC/50 Hz
- Luminous flux 5600 lm
- Protection class I
- Protection classification IPX4
- PL bulb; 2G10 bulb socket; replaceable
- Luminous paint: bright white, colour temperature 4000 Kelvin
- Permitted ambient temperature of the operating field: -10 to +40 °C
- With electronic ballast (EVG). The lamp starts without flickering thanks to the electronic ballast; gentle on the bulb
- 2 on/off switches for separate control
- 2 CEE pattern power points
- Adjustable support bracket
- Special reflector
- Can be mounted on tripod stand ST 901 57 (order separately)
- Shaped plug with 5 metres cable
- Dimensions: L 320 x W 320 X H 140 mm

| Code | No. | | |
|---|---|---|---|
| 2279835 | **901 57** | 3852 | 1 |



Any prices shown are not firm commitments. They are recommended list prices per set or per piece and do not include Value Added Tax. Quantities in packs may vary.

## ST 901 57

### TRIPOD STAND, ZINC-PLATED

- For worklamp no. 901 57
- Height-adjustable between 1.1 m to 2.7 m
- Base stand retractable
- Incl. fixing screws for height adjustment
- Fully zinc-plated

| Code | No. | | |
|---|---|---|---|
| 2279851 | **ST 901 57** | 6500 | 1 |

## 901 58

### WORKLAMP MEGA POWER 36

CE

- Power 2x 18 W
- Operating voltage 230 V AC/50 Hz
- Luminous flux 2400 lm
- Protection class II
- Protection classification IP44
- PL bulb; 2G10 bulb socket; replaceable
- Luminous paint: bright white, colour temperature 4000 Kelvin
- Permitted ambient temperature of the operating field: -10 to +40 °C
- 2 on/off switches for separate control
- Adjustable support bracket
- Shaped plug with 5 metres cable
- Dimensions: L 350 x W 335 X H 230 mm

| Code | No. | | |
|---|---|---|---|
| 2288680 | **901 58** | 3500 | 1 |

# BULBS

## LM 900 08

### SPARE BULB 8 W

- Power 8 W
- Luminous flux 385 lm
- For tube socket G5
- Luminous paint: bright white, colour temperature 4000 Kelvin
- For hand light Profi Quick 900 56

| Code | No. | mm | Ø | |
|---|---|---|---|---|
| 2279878 | **LM 900 08** | 288 | 16 | 1 |

## LM 900 13

### SPARE BULB 13 W

- Power 13 W
- Luminous flux 830 lm
- For tube socket G5
- Luminous paint: bright white, colour temperature 4000 Kelvin
- For worklamp Truck 900 58

| Code | No. | mm | Ø | |
|---|---|---|---|---|
| 2279886 | **LM 900 13** | 517 | 16 | 1 |

## LM 900 21

### SPARE BULB 21 W

- Power 21 W
- Luminous flux 1900 lm
- For tube socket G5
- Luminous paint: bright white, colour temperature 4000 Kelvin
- For worklamp Truck 900 59

| Code | No. | mm | Ø | |
|---|---|---|---|---|
| 2279894 | **LM 900 21** | 849 | 16.0 | 1 |

## LM 900 21 S

### SPARE BULB 21 W FOR 900 60

- Power 21 W
- Luminous flux 1900 lm
- For tube socket G5
- Luminous paint: bright white, colour temperature 4000 Kelvin
- With anti-shatter foil
- For engine space lamp no. 900 60

| Code | No. | mm | Ø | |
|---|---|---|---|---|
| 2329921 | **LM 900 21 S** | 849 | 16.0 | 1 |

## LM 900 36

### SPARE BULB 36 W

- Power 36 W
- Luminous flux 2800 lm
- Für bulb type PL
- For bulb socket 2G10
- Luminous paint: bright white, colour temperature 4000 Kelvin
- For worklamp Mega Power no. 901 57
- With electronic ballast (EVG). The lamp starts without flickering thanks to the electronic ballast; gentle on the bulb

| Code | No. | |
|---|---|---|
| 2279908 | **LM 900 36** | 1 |

## WT 1056 1

### HEAVY-DUTY BELT WITH CUSHION

- Fits waist size from 80-120 cm (32"-48")
- Strongly cushioned for maximum comfort
- Made from leather

| Code | No. | L | W | |
|---|---|---|---|---|
| 1802410 | **WT 1056 1** | 1330 | 145 | 450 |

## WT 1056 2

### UNIVERSAL POUCH

- Leather pocket for knives
- Hammer holder with metal hooks
- Hook for tape measure

| Code | No. | W | H | |
|---|---|---|---|---|
| 1811096 | **WT 1056 2** | 290 | 290 | 340 |

## WT 1056 3

### DRILL HOLSTER

- Suitable for drill-machines and battery-drills
- With pockets for screws and bits
- Securing loop as loss-proof

| Code | No. | W | H | |
|---|---|---|---|---|
| 1818147 | **WT 1056 3** | 210 | 320 | 150 |

## WT 1056 4

### HAMMER HOLDER WITH METAL HOOKS

- Holds any claw hammer at a comfortable angle
- Enables boundless freedom of movement
- Polyester and blue suede
- Stainless tab

| Code | No. | W | H | |
|---|---|---|---|---|
| 1818155 | **WT 1056 4** | 100 | 160 | 100 |

## WT 1056 5

### THREE-POUCH BELT SET

- Fits waist size from 80-120 cm (32"-48")
- 4 holsters, 5 storage pockets and 1 eyelet for tape measure

| Code | No. | W | H | |
|---|---|---|---|---|
| 1818163 | **WT 1056 5** | 690 | 270 | 750 |

Quantities in packs may vary.

## WT 1056 6

### ELECTRICIANS' POUCH

- Generous pouch space
- 8 pockets for screwdrivers
- Extra pocket for insulation stripping knife
- Holding shackle for insulating tape

| Code | No. | W | H | |
|---|---|---|---|---|
| 1818171 | **WT 1056 6** | 240 | 320 | 500 |

## WT 1056 7

### HEAVY-DUTY BELT SET

- Heavily padded belt for superior comfort when fully loaded
- Fits waist size from 80-120 cm (32"-48")
- Basic belt from leather
- All inclusive: Holster, hammer holder, 2 pockets and mobile phone holder (available separately WT 1056 7-1)

WT 10567-1

| Code | No. | ⟷ mm ⟷ | |
|---|---|---|---|
| 1818198 | **WT 1056 7** | 1330 | 1600 |
| 1963171 | **WT 1056 7-1** | | 52 |

## WT 1056 8

### DUO POUCH

- Leather pocket for knives
- 2 large storage pockets

| Code | No. | W | H | |
|---|---|---|---|---|
| 1818201 | **WT 1056 8** | 240 | 280 | 360 |

## WT 1056 9

### ROLL-COVER

- With 12 inside pockets for slim tools, e.g. combination spanners or screwdrivers
- Delivery without tools

| Code | No. | W | H | |
|---|---|---|---|---|
| 1818228 | **WT 1056 9** | 320 | 350 | 120 |

## WT 1056 10

### KNEE PADS, PAIR

- Made of strong synthetic leather with rubber
- Soft lining for comfortable kneeling
- Hook and loop fastener
- Universal size

| Code | No. | |
|---|---|---|
| 1818236 | **WT 1056 10** | 200 |

Quantities in packs may vary.

## WT 1056 11

### TOOL RUCKSACK PROFI

- With extra large capacities
- Practical and ergonomic arrangement of the internal and external pockets
- Ideal for transport and storage of tools, accessories and documents
- Strong zippers
- Reinforced back, padded adjustable shoulder straps and additional practical handle on the top
- Tear-resistant polyester fabric with 3M reflective stripes, suede
- Spray-water repellent, resistant to chemical agents
- Inured to temperature changes
- Delivery without tools

| Code | No. | W | H | D | |
|---|---|---|---|---|---|
| 1818244 | **WT 1056 11** | 300 | 400 | 120 | 2800 |

## WT 1056 12

### TOOL RUCKSACK SOFT

- SOFT rucksack, extremely light and yet strong
- Tear-resistant polyester fabric and suede
- Strong and watertight
- Practical and ergonomic arrangement of the internal and external pockets
- Ideal for transport and storage of tools, accessories and documents
- Strong zippers
- Padded adjustable shoulder straps and additional practical handle on the top
- Delivery without tools

| Code | No. | W | H | D | |
|---|---|---|---|---|---|
| 1818252 | **WT 1056 12** | 380 | 410 | 70 | 1900 |

## WT 1056 13

### TOOL VEST

- Multifunctional tool vest with many pockets and holsters
- Universal size with 4 lateral buckles
- Padded pouches of different dimensions for tools and small components
- Mobile phone holder and reinforced tab to hang a hammer
- Wide back pouch
- Net insert in the back for a better transpiration
- Compartment with window for an identity card
- Tear-resistant polyester fabric with 3M reflective stripes, suede
- Spray-water repellent, resistant to chemical agents
- Inured to temperature changes
- Delivery without tools

| Code | No. | W | H | |
|---|---|---|---|---|
| 1818260 | **WT 1056 13** | 480 | 660 | 1000 |



Quantities in packs may vary.

# SAFETY AT WORK

## 923

### SAFETY SPECTACLES

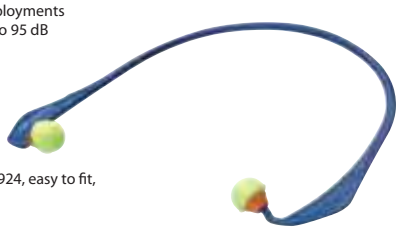
- GEDORE safety spectacles with UVEX technology as per DIN EN 166:2006
- Uncompromising safety, design and wearer comfort for continuous wear
- Optimum adjustment to the facial features by individually adjustable arms and lens tilt. Additional skin-friendly soft-component pads mould to the sensitive contact areas on the nose, ears and temple
- Scratchproof, mist-proof coated lenses with "NanoClean" effect ensure clear vision and are easy to clean
- Advantages of the different lens colours (availability depends on model):
- No. 923-1 colourless: 100% protection against UVA, UVB and UVC radiation as per DIN EN 166 and DIN EN 170
- No. 923-2 blue: 100% protection against UV radiation (UVA, UVB, UVC)
- Complies with DIN EN 172 requirements for the perception of signal colours.
- A slight bluish tint gives a very soothing effect on the human eye, aiding relaxed vision.
- Suitable for all workplaces - without colour check.
- Supplied in a black nylon bag

| Code | No. | Execution | | |
|---|---|---|---|---|
| 1959468 | **923-1** | clear | 40 | 1 |
| 1959484 | **923-2** | blue | 40 | 1 |

## 924

### EAR PLUGS WITH HEAD BAND

- Universal size
- Ideal for off-site and short-term deployments
- Designed for continuous noise up to 95 dB and pulsed noise up to 100 dB
- Secure-fit headband design
- The convex shape of the ear plugs allows them to be hygienically set down with no contact between the ear plugs and the rest
- Lightweight - just 8 g
- Signal yellow replacement plugs E-924, easy to fit, 5 pairs, hygienically packed



| Code | No. | | |
|---|---|---|---|
| 1959646 | **924** | 80 | 10 |
| 1959751 | **E-924** | 20 | 1 |

# WORK GLOVES

## 920

### WORK GLOVES FASTFIT

- For universal use
- Close fitting for retention of feel and dexterity
- Stage 5 classification as per EN 420/03 (scale from 0 - 5)
- Kind on the skin
- Rugged imitation leather and synthetic material

| Code | No. | Size | | |
|---|---|---|---|---|
| 1938576 | **920 8** | S/8 | 70 | 1 |
| 1938584 | **920 9** | M/9 | 70 | 1 |
| 1938592 | **920 10** | L/10 | 80 | 1 |
| 1938606 | **920 11** | XL/11 | 80 | 1 |
| 1938614 | **920 12** | XXL/12 | 80 | 1 |

## 921

### WORK GLOVES ORIGINAL

- For heavy duty use
- Close fitting for retention of feel and dexterity
- Stage 5 classification as per EN 420/03 (scale from 0 - 5)
- Rubber reinforced finger tips
- Adjustable Velcro fasteners on the cuffs
- Rugged imitation leather and synthetic material

| Code | No. | Size | | |
|---|---|---|---|---|
| 1938622 | **921 5** | XXXS/5 | 70 | 1 |
| 1938630 | **921 6** | XXS/6 | 70 | 1 |
| 1938649 | **921 7** | XS/7 | 70 | 1 |
| 1938657 | **921 8** | S/8 | 70 | 1 |
| 1938665 | **921 9** | M/9 | 80 | 1 |
| 1938673 | **921 10** | L/10 | 80 | 1 |
| 1938681 | **921 11** | XL/11 | 90 | 1 |
| 1938703 | **921 12** | XXL/12 | 90 | 1 |
| 1938711 | **921 13** | XXXL/13 | 90 | 1 |

## 922

### WORK GLOVES M-PACT

- For heavy duty use
- Close fitting for retention of feel and dexterity
- Stage 5 classification as per EN 420/03 (scale from 0 - 5)
- Rubber reinforced finger tips
- Adjustable Velcro fasteners on the cuffs
- Additional knuckle protectors
- Ergonomic palm reinforcement
- Rugged imitation leather and synthetic material

| Code | No. | Size | | |
|---|---|---|---|---|
| 1938738 | **922 8** | S/8 | 80 | 1 |
| 1938746 | **922 9** | M/9 | 80 | 1 |
| 1938754 | **922 10** | L/10 | 80 | 1 |
| 1938762 | **922 11** | XL/11 | 90 | 1 |
| 1938770 | **922 12** | XXL/12 | 90 | 1 |

Quantities in packs may vary.

130
GEDORE
MADE IN GERMANY

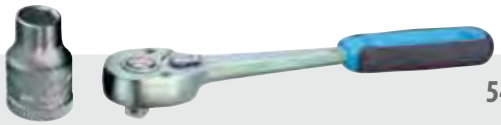
**Ideal in harsh weather + innovative corrosion protection NC COROSTOP**


SERVICE / FEATURES 544

COROSTOP NC SLOGGING SPANNERS 545

COROSTOP NC SPANNERS 545

COROSTOP NC SOCKETS + ACCESSORIES 546 – 547



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COROSTOP NC PLIERS 549

COROSTOP NC PULLERS 550

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# NC Tools
## An innovation by GEDORE

### What is COROSTOP?

COROSTOP (NC) is a special process of surface treatment for preventing corrosion on tools used in wet areas. The tools are specially electroplated to provide corrosion proofing many times greater (at least 500 %) than our conventionally coated tools. The protective COROSTOP coating reliably protects the tool, even when it sustains slight surface damage.

All tools NC marked are COROSTOP-coated!

### NC Use

This method ensures COROSTOP tools are ideally suited to a wide range of marine applications, work on drilling rigs - in fact everywhere where water is present or used in the process and robust tools are required for sustained use.

### Comparative test - effect of NC in salt water

After 10 days in salty seawater:

1 NC NC spanner
The surface shows no trace of corrosion

2 Conventional spanner
The surface has clear traces of rust film

### Care notes:

After use, rinse the tools with tap water (fresh water) and then wipe dry. This will maintain corrosion proofing over a long period.

# COROSTOP NC SPANNERS

## Ring slogging spanner LOCK-ON NC 306 S

**A safe solution...**

**... for those firmly-seated connections**

- GEDORE's ring slogging spanner NC 306 S embodying the new safety technology.
- The spanner is safely secured to the work, and this is done by fixing the ring slogging spanner in position with a small screw on the ring head.

- Optimum protection against injuries
- The spanner is safely secured to the work
- Noticeably greater impact effect when used - this means more effective use of the ring slogging spanner
- COROSTOP coating for long-life corrosion proofing

**The principle:**

- A small adjusting screw through the head of the slogging spanner grips the side of the bolt to be released. After the slogging spanner has done its job, the screw is slackened off again.

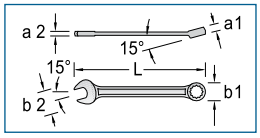
**NC 306 S Available in all usual sizes:**

- 24, 27, 30, 32, 34, 36, 41, 46, 50, 55, 60, 65, 70, 80, 90, 95, 100, 115, 120, 130, 135, 145, 150, 155, 165, 170, 175 mm
- Prices and further sizes on request (mm, inch)

## NC 7

### COMBINATION SPANNER NC with same size each end

- Acc. to DIN 3113 Form A, ISO 3318, ISO 7738
- Ring 15° offset from shaft, shaft in girder pattern
- GEDORE vanadium steel 31CrV3, with COROSTOP coating, polished rings
- * not standardised



mm

| Code | No. | * | mm | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1669613 | **NC 7 6** | | 6 | 100 | 5.0 | 3.4 | 10.0 | 16.2 | 14 | 1 |
| 1669621 | **NC 7 7** | | 7 | 110 | 5.5 | 3.6 | 11.5 | 17.5 | 17 | 1 |
| 1669648 | **NC 7 8** | | 8 | 120 | 6.0 | 3.8 | 12.7 | 19.8 | 24 | 1 |
| 1669656 | **NC 7 9** | | 9 | 130 | 6.5 | 4.0 | 14.0 | 21.5 | 28 | 1 |
| 1669664 | **NC 7 10** | | 10 | 140 | 7.0 | 4.2 | 15.5 | 23.0 | 33 | 1 |
| 1669680 | **NC 7 12** | | 12 | 160 | 8.0 | 4.8 | 18.5 | 27.5 | 50 | 1 |
| 1669699 | **NC 7 13** | | 13 | 170 | 8.5 | 5.0 | 19.5 | 30.0 | 58 | 1 |
| 1669702 | **NC 7 14** | | 14 | 180 | 9.0 | 5.2 | 21.0 | 31.8 | 69 | 1 |
| 1669710 | **NC 7 15** | | 15 | 190 | 9.5 | 5.5 | 22.5 | 34.0 | 80 | 1 |
| 1669729 | **NC 7 16** | | 16 | 200 | 10.0 | 5.8 | 23.0 | 35.0 | 92 | 1 |
| 1669737 | **NC 7 17** | | 17 | 210 | 10.5 | 6.0 | 25.0 | 38.0 | 111 | 1 |
| 1669745 | **NC 7 18** | | 18 | 220 | 11.0 | 6.2 | 26.0 | 40.0 | 121 | 1 |
| 1669753 | **NC 7 19** | | 19 | 230 | 11.5 | 6.5 | 28.0 | 42.0 | 140 | 1 |
| 1669761 | **NC 7 20** | * | 20 | 240 | 12.0 | 6.8 | 29.0 | 44.2 | 170 | 1 |
| 1669796 | **NC 7 21** | | 21 | 252 | 12.5 | 7.0 | 30.0 | 45.5 | 182 | 1 |
| 1669818 | **NC 7 22** | | 22 | 262 | 13.0 | 7.2 | 32.0 | 48.0 | 200 | 1 |
| 1669826 | **NC 7 24** | | 24 | 282 | 14.0 | 8.0 | 35.0 | 52.5 | 264 | 1 |
| 1669834 | **NC 7 27** | | 27 | 310 | 15.5 | 8.5 | 39.0 | 59.5 | 344 | 1 |
| 1669842 | **NC 7 30** | | 30 | 340 | 17.0 | 9.0 | 43.0 | 63.0 | 428 | 1 |
| 1669850 | **NC 7 32** | | 32 | 370 | 18.0 | 9.5 | 46.0 | 68.0 | 535 | 1 |

### COMBINATION SPANNER NC with same size each end

- Ring 15° offset from shaft, shaft in girder pattern
- GEDORE vanadium steel 31CrV3, with COROSTOP coating, polished rings

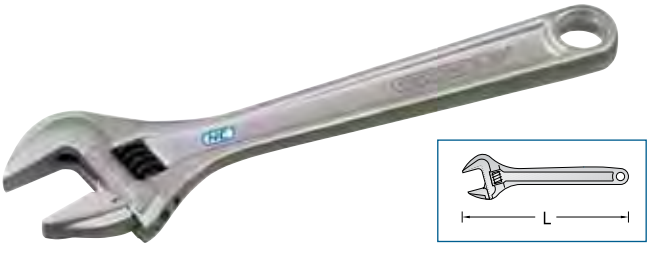
"AF

| Code | No. | "AF | L | $a_1$ | $a_2$ | $b_1$ | $b_2$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 1803603 | **NC 7 1/4AF** | 1/4 | 100 | 5.0 | 3.4 | 10.0 | 16.2 | 14 | 1 |
| 1803611 | **NC 7 5/16AF** | 5/16 | 120 | 6.0 | 3.8 | 12.7 | 19.8 | 24 | 1 |
| 1884115 | **NC 7 11/32AF** | 11/32 | 130 | 6.5 | 4.0 | 14.0 | 21.5 | 30 | 1 |
| 1803638 | **NC 7 3/8AF** | 3/8 | 140 | 7.0 | 4.2 | 15.5 | 23.0 | 38 | 1 |
| 1803646 | **NC 7 7/16AF** | 7/16 | 150 | 7.5 | 4.5 | 17.0 | 26.0 | 40 | 1 |
| 1803654 | **NC 7 1/2AF** | 1/2 | 170 | 8.5 | 5.0 | 19.5 | 30.0 | 56 | 1 |
| 1803662 | **NC 7 9/16AF** | 9/16 | 180 | 9.0 | 5.2 | 21.0 | 31.8 | 62 | 1 |
| 1803670 | **NC 7 5/8AF** | 5/8 | 200 | 10.0 | 5.8 | 23.0 | 35.0 | 106 | 1 |
| 1803689 | **NC 7 11/16AF** | 11/16 | 220 | 11.0 | 6.2 | 26.0 | 40.0 | 122 | 1 |
| 1803697 | **NC 7 3/4AF** | 3/4 | 230 | 11.5 | 6.5 | 28.0 | 42.0 | 154 | 1 |
| 1803700 | **NC 7 7/8AF** | 7/8 | 262 | 13.0 | 7.2 | 32.0 | 48.0 | 198 | 1 |
| 1803719 | **NC 7 1AF** | 1 | 302 | 15.0 | 8.2 | 36.0 | 56.5 | 288 | 1 |

## NC 60 P

### ADJUSTABLE WRENCH NC open end

- Acc. to ISO 6787
- Swedish pattern, roller with left hand thread
- Jaw set at 15°
- With scale
- GEDORE vanadium steel 31CrV3, with COROSTOP coating, polished heads




| Code | No. | Size " | L | mm | "inch | | | |
|---|---|---|---|---|---|---|---|---|
| 1670220 | **NC 60 P 8** | 8 | 205 | 25 | 1 | 0-25 | 134 | 1 |
| 1669958 | **NC 60 P 12** | 12 | 305 | 36 | 1.7/16 | 0-36 | 716 | 1 |

Quantities in packs may vary.

# COROSTOP NC SOCKETS + ACCESSORIES

## NC 30

### SOCKET NC 3/8" hexagon

- Acc. to DIN 3124, ISO 2725-1
- Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- GEDORE vanadium steel 31CrV3, with COROSTOP coating

| Code | No. | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 1670239 | **NC 30 8** | 8 | 28 | 12.1 | 17.5 | 9.0 | 28 | 1 |
| 1670247 | **NC 30 10** | 10 | 28 | 14.7 | 17.5 | 9.0 | 28 | 1 |
| 1670255 | **NC 30 12** | 12 | 28 | 17.2 | 18.3 | 9.0 | 33 | 1 |
| 1670263 | **NC 30 13** | 13 | 28 | 18.5 | 17.5 | 9.0 | 32 | 1 |
| 1670271 | **NC 30 14** | 14 | 29 | 19.7 | 18.4 | 11.0 | 38 | 1 |
| 1670298 | **NC 30 15** | 15 | 30 | 21.0 | 19.7 | 12.5 | 44 | 1 |
| 1670301 | **NC 30 16** | 16 | 30 | 22.2 | 21.0 | 12.5 | 49 | 1 |
| 1670328 | **NC 30 17** | 17 | 30 | 23.5 | 22.3 | 12.5 | 57 | 1 |
| 1670336 | **NC 30 18** | 18 | 30 | 24.7 | 23.0 | 12.5 | 62 | 1 |
| 1670344 | **NC 30 19** | 19 | 30 | 26.0 | 23.7 | 12.5 | 68 | 1 |
| 1670352 | **NC 30 20** | 20 | 31 | 27.2 | 24.5 | 12.5 | 78 | 1 |
| 1670360 | **NC 30 21** | 21 | 31 | 28.5 | 25.8 | 13.5 | 86 | 1 |
| 1670379 | **NC 30 22** | 22 | 32 | 29.7 | 26.3 | 14.5 | 92 | 1 |

### SOCKET NC 3/8" hexagon

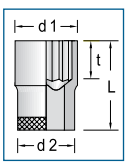
- Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- GEDORE vanadium steel 31CrV3, with COROSTOP coating

| Code | No. | "AF | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 1803840 | **NC 30 1/4AF** | 1/4 | 28 | 10.1 | 17.5 | 5 | 23 | 1 |
| 1803859 | **NC 30 5/16AF** | 5/16 | 28 | 12.1 | 17.5 | 9 | 25 | 1 |
| 1803867 | **NC 30 11/32AF** | 11/32 | 28 | 13.1 | 17.5 | 9 | 25 | 1 |
| 1803875 | **NC 30 3/8AF** | 3/8 | 28 | 14.1 | 17.5 | 9 | 26 | 1 |

## NC D 30

### SOCKET NC 3/8" UD profile

- Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- GEDORE vanadium steel 31CrV3, with COROSTOP coating



| Code | No. | "AF | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 1803883 | **NC D 30 7/16AF** | 7/16 | 28 | 16.1 | 17.5 | 9.0 | 27 | 1 |
| 1803891 | **NC D 30 1/2AF** | 1/2 | 28 | 18.1 | 19.2 | 9.0 | 34 | 1 |
| 1803905 | **NC D 30 9/16AF** | 9/16 | 29 | 20.1 | 18.7 | 12.0 | 36 | 1 |
| 1884107 | **NC D 30 19/32AF** | 19/32 | 30 | 21.0 | 19.7 | 12.5 | 42 | 1 |
| 1803913 | **NC D 30 5/8AF** | 5/8 | 30 | 22.1 | 20.7 | 12.5 | 44 | 1 |
| 1803921 | **NC D 30 11/16AF** | 11/16 | 30 | 24.0 | 22.7 | 12.5 | 53 | 1 |
| 1803948 | **NC D 30 3/4AF** | 3/4 | 30 | 26.0 | 23.7 | 12.5 | 61 | 1 |

## NC 3087

### SLIDING T BAR NC 3/8"

- Acc. to DIN 3122, ISO 3315
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, ball locking device
- GEDORE vanadium steel 31CrV3, with COROSTOP coating

| Code | No. | ■ " | ■ | mm | | |
|---|---|---|---|---|---|---|
| 1670395 | **NC 3087** | 3/8 | 10 | 163 | 130 | 1 |

## NC 3090

### EXTENSION NC 3/8"

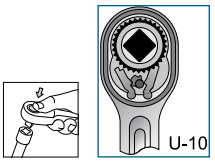
- Acc. to DIN 3123, ISO 3316
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, ball locking device
- GEDORE vanadium steel 31CrV3, with COROSTOP coating

| Code | No. | ■ " | ■ | mm | | |
|---|---|---|---|---|---|---|
| 1670409 | **NC 3090-5** | 3/8 | 10 | 125 | 110 | 10 |

## NC 3093 U-10

### REVERSIBLE RATCHET NC 3/8"

- Acc. to DIN 3122, ISO 3315
- With lever change and push-button release
- Locks in middle position
- For hand-operated sockets and accessories with square drive as per DIN 3120 - C 10, ISO 1174, ball locking device
- GEDORE vanadium steel 31CrV3, with COROSTOP coating



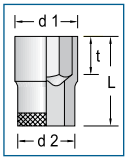

| Code | No. | ■ " | ■ | ° | mm | | | |
|---|---|---|---|---|---|---|---|---|
| 1670387 | **NC 3093 U-10** | 3/8 | 10 | 11,25 | 200 | 30.2 | 246 | 1 |

Quantities in packs may vary.

## NC 19

### SOCKET NC 1/2" hexagon

- Acc. to DIN 3124, ISO 2725-1
- Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- GEDORE vanadium steel 31CrV3, with COROSTOP coating

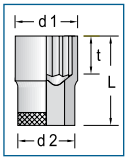


| Code | No. | mm | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 1670417 | **NC 19 10** | 10 | 38.0 | 15.5 | 22.5 | 13.5 | 56 | 1 |
| 1670425 | **NC 19 12** | 12 | 38.0 | 18.0 | 22.5 | 12.5 | 58 | 1 |
| 1670433 | **NC 19 13** | 13 | 38.0 | 19.2 | 22.5 | 12.5 | 61 | 1 |
| 1670441 | **NC 19 14** | 14 | 38.0 | 20.5 | 22.5 | 12.5 | 63 | 1 |
| 1670468 | **NC 19 16** | 16 | 39.5 | 22.5 | 23.8 | 15.0 | 75 | 1 |
| 1670476 | **NC 19 17** | 17 | 39.5 | 24.0 | 22.5 | 15.0 | 74 | 1 |
| 1670484 | **NC 19 18** | 18 | 39.5 | 25.5 | 23.0 | 17.0 | 73 | 1 |
| 1670492 | **NC 19 19** | 19 | 40.0 | 26.7 | 24.2 | 17.0 | 85 | 1 |
| 1670506 | **NC 19 22** | 22 | 41.5 | 30.5 | 26.3 | 18.5 | 112 | 1 |
| 1670514 | **NC 19 24** | 24 | 41.5 | 33.0 | 28.0 | 18.5 | 132 | 1 |
| 1670522 | **NC 19 27** | 27 | 41.5 | 36.7 | 30.0 | 18.5 | 157 | 1 |
| 1670530 | **NC 19 30** | 30 | 43.0 | 40.5 | 32.5 | 20.5 | 193 | 1 |
| 1670549 | **NC 19 32** | 32 | 44.5 | 43.0 | 34.5 | 22.5 | 218 | 1 |

## NC D 19

### SOCKET NC 1/2" UD profile

- Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- Hand-operated, knurled grip
- GEDORE vanadium steel 31CrV3, with COROSTOP coating



| Code | No. | "AF | L | $d_1$ | $d_2$ | t | | |
|---|---|---|---|---|---|---|---|---|
| 1803727 | **NC D 19 5/16AF** | 5/16 | 38.0 | 13.0 | 22.5 | 7.0 | 52 | 1 |
| 1803735 | **NC D 19 11/32AF** | 11/32 | 38.0 | 13.9 | 22.5 | 8.0 | 54 | 1 |
| 1803743 | **NC D 19 3/8AF** | 3/8 | 38.0 | 14.9 | 22.5 | 15.0 | 55 | 1 |
| 1803751 | **NC D 19 13/32AF** | 13/32 | 38.0 | 15.9 | 22.5 | 12.5 | 55 | 1 |
| 1803778 | **NC D 19 7/16AF** | 7/16 | 38.0 | 16.7 | 22.5 | 12.5 | 56 | 1 |
| 1803786 | **NC D 19 1/2AF** | 1/2 | 38.0 | 18.7 | 22.5 | 12.5 | 58 | 1 |
| 1803794 | **NC D 19 9/16AF** | 9/16 | 38.0 | 20.7 | 22.5 | 12.5 | 61 | 1 |
| 1803808 | **NC D 19 19/32AF** | 19/32 | 39.5 | 21.7 | 22.5 | 15.0 | 70 | 1 |
| 1803816 | **NC D 19 5/8AF** | 5/8 | 39.5 | 22.5 | 23.8 | 15.0 | 73 | 1 |
| 1803824 | **NC D 19 11/16AF** | 11/16 | 39.5 | 24.7 | 22.5 | 17.0 | 66 | 1 |
| 1803832 | **NC D 19 3/4AF** | 3/4 | 40.0 | 26.7 | 24.5 | 17.0 | 84 | 1 |

## NC 1987

### SLIDING T BAR NC 1/2"

- Acc. to DIN 3122, ISO 3315
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, ball locking device
- GEDORE vanadium steel 31CrV3, with COROSTOP coating

| Code | No. | " | | mm | | |
|---|---|---|---|---|---|---|
| 1670565 | **NC 1987** | 1/2 | 12.5 | 292 | 374 | 1 |

## NC 1990

### EXTENSION NC 1/2"

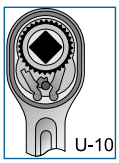
- Acc. to DIN 3123, ISO 3316
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, ball locking device
- GEDORE vanadium steel 31CrV3, with COROSTOP coating

| Code | No. | " | | mm | | |
|---|---|---|---|---|---|---|
| 1670573 | **NC 1990-5** | 1/2 | 12.5 | 125 | 184 | 1 |
| 1670581 | **NC 1990-10** | 1/2 | 12.5 | 250 | 354 | 1 |

## NC 1993 U-10 T

### REVERSIBLE RATCHET NC 1/2"

- Acc. to DIN 3122, ISO 3315
- With recessed lever change
- Push-button release
- Locks in the middle position: When the lever is flipped, it automatically engages for clockwise or counterclockwise operation
- For hand-operated sockets and accessories with square drive as per DIN 3120 - C 12.5, ISO 1174, ball locking device
- GEDORE vanadium steel 31CrV3, with COROSTOP coating




| Code | No. | " | | ° | mm | | | |
|---|---|---|---|---|---|---|---|---|
| 1670557 | **NC 1993 U-10 T** | 1/2 | 12.5 | 11,25 | 270 | 39 | 592 | 1 |

Further sizes with NC finish on request

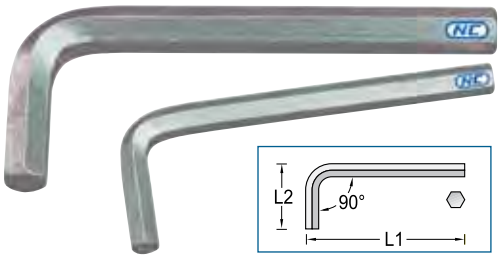
Quantities in packs may vary.

# COROSTOP NC SCREWDRIVER

## NC 42

### HEXAGON SOCKET KEY NC for in-hex screws

- Acc. to DIN ISO 2936
- GEDORE vanadium plus steel with COROSTOP coating




mm

| Code | No. | mm | $L_1$ | $L_2$ | | |
|---|---|---|---|---|---|---|
| 1670077 | **NC 42 1,3** | 1.3 | 41.0 | 13.0 | 1 | 1 |
| 1670093 | **NC 42 1,5** | 1.5 | 46.5 | 15.5 | 1 | 1 |
| 1670107 | **NC 42 2 (5/64AF)** | 2.0 | 52.0 | 18.0 | 2 | 1 |
| 1670115 | **NC 42 2,5** | 2.5 | 58.5 | 20.5 | 2 | 1 |
| 1670123 | **NC 42 3** | 3.0 | 66.0 | 23.0 | 4 | 1 |
| 1670131 | **NC 42 4** | 4.0 | 74.0 | 29.0 | 10 | 1 |
| 1670158 | **NC 42 5** | 5.0 | 85.0 | 33.0 | 18 | 1 |
| 1670174 | **NC 42 6** | 6.0 | 96.0 | 38.0 | 30 | 1 |
| 1670182 | **NC 42 8** | 8.0 | 108.0 | 44.0 | 58 | 1 |
| 1670190 | **NC 42 10** | 10.0 | 122.0 | 50.0 | 104 | 1 |

"AF

| Code | No. | "AF | $L_1$ | $L_2$ | | |
|---|---|---|---|---|---|---|
| 1884158 | **NC 42 3/32AF** | 3/32 | 56.5 | 20.5 | 3 | 1 |
| 1884166 | **NC 42 1/8AF** | 1/8 | 60.0 | 23.0 | 5 | 1 |
| 1884174 | **NC 42 5/32AF** | 5/32 | 67.0 | 26.0 | 8 | 1 |
| 1884182 | **NC 42 3/16AF** | 3/16 | 73.0 | 30.0 | 15 | 1 |
| 1884190 | **NC 42 7/32AF (5,5MM)** | 7/32 | 82.0 | 32.0 | 20 | 1 |
| 1803956 | **NC 42 1/4AF** | 1/4 | 92.0 | 36.5 | 32 | 1 |
| 1803964 | **NC 42 5/16AF** | 5/16 | 102.0 | 43.0 | 56 | 1 |
| 1803972 | **NC 42 3/8AF** | 3/8 | 115.0 | 49.0 | 88 | 1 |
| 1803980 | **NC 42 1/2AF** | 1/2 | 142.0 | 61.0 | 196 | 1 |
| 1803999 | **NC 42 9/16AF** | 9/16 | 154.0 | 66.0 | 264 | 1 |
| 1804006 | **NC 42 5/8AF** | 5/8 | 168.0 | 76.0 | 366 | 1 |
| 1804014 | **NC 42 3/4AF** | 3/4 | 199.0 | 89.0 | 600 | 1 |

## NC H 42-10

### HEXAGON SOCKET KEY SET NC for in-hex screws

- In blue PVC wallet
- GEDORE vanadium plus steel with COROSTOP coating

mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1689541 | **NC H 42-10** | 1,3 1,5 2 2,5 3 4 5 6 8 10 | 262 | 1 |

## NC H 42-88 A

### HEXAGON SOCKET KEY SET NC for in-hex screws

- In blue PVC wallet
- GEDORE vanadium plus steel with COROSTOP coating

"AF

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1884131 | **NC H 42-88 A** | 5/64 3/32 1/8 5/32 3/16 7/32 1/4 5/16" | 171 | 1 |

## NC SCL 43 TX-80

### HEXAGON SOCKET KEY SET NC for recessed TORX® screws

- In robust metal clip
- GEDORE vanadium plus steel with COROSTOP coating
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1670026 | **NC SCL 43 TX-80** | T9 T10 T15 T20 T25 T27 T30 T40 | 286 | 1 |

## NC 2150

### 3C-SCREWDRIVER NC for slotted head screws

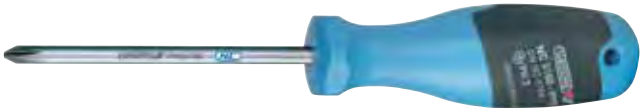
- Acc. to DIN ISO 2380-2, blade tip DIN ISO 2380-1 Form A
- 3-component handle with hanging hole
- Blade in vanadium plus steel with COROSTOP coating

| Code | No. | | | Ø | | | | |
|---|---|---|---|---|---|---|---|---|
| 1669893 | **NC 2150 3** | 0.5 | 3.0 | 3 | 80 | 160 | 26 | 1 |
| 1669907 | **NC 2150 5,5** | 1.0 | 5.5 | 5 | 125 | 225 | 70 | 1 |
| 1669915 | **NC 2150 8** | 1.2 | 8.0 | 7 | 175 | 295 | 136 | 1 |

## NC 2160 PH

### 3C-SCREWDRIVER NC for cross-slotted head screws PH

- Acc. to DIN 8764, tip to DIN ISO 8764-1 PH
- 3-component handle with hanging hole
- Blade in vanadium plus steel with COROSTOP coating



| Code | No. | PH | M | Ø | | | | |
|---|---|---|---|---|---|---|---|---|
| 1884417 | **NC 2160 PH 0** | 0 | M1,6 - M2 | 3,0 | 60 | 140 | 25 | 1 |
| 1669923 | **NC 2160 PH 1** | 1 | M2 - M3 | 4,5 | 80 | 180 | 60 | 1 |
| 1669931 | **NC 2160 PH 2** | 2 | M3,5 - M5 | 6,0 | 100 | 210 | 90 | 1 |



Quantities in packs may vary.

# COROSTOP NC PLIERS

## NC 137

### GRIP WRENCH NC

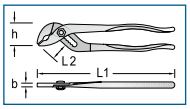
- With adjustment screw and release lever
- Forged, hardened and tempered jaws, special jaw shape for secure gripping, clamping and holding
- GEDORE vanadium steel 31CrV3, with COROSTOP coating

| Code | No. | mm | inch | mm | inch | | |
|---|---|---|---|---|---|---|---|
| 1670050 | **NC 137 10** | 240 | 10 | 32 | 1/32 | 506 | 1 |

## NC 145

### WATER PUMP PLIERS NC

- 7-way adjustable
- Acc. to DIN ISO 8976, Form A
- Lay-on slip joint and toothed recess
- Induction-rehardened serrated faces, with finger protection
- GEDORE vanadium steel 31CrV3, with COROSTOP coating

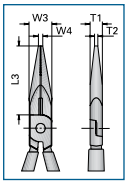



| Code | No. | $L_1$ | $L_2$ | b | h | mm | | |
|---|---|---|---|---|---|---|---|---|
| 1670069 | **NC 145 10** | 250 | 41 | 7.8 | 47 | 39 | 398 | 1 |

## NC 8132

### TELEPHONE PLIERS NC

- Acc. to DIN ISO 5745
- Long, flat-round jaws, straight gripping faces, serrated
- Induction-hardened precision cutting edges
- GEDORE special hardened and tempered steel, with COROSTOP coating

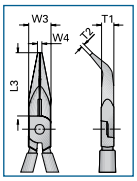



| Code | No. | L | $L_3$ | $W_3$ | $W_4$ | $T_1$ | $T_2$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 1669982 | **NC 8132-160 J** | 160 | 50 | 16.5 | 3.2 | 9 | 2.5 | 150 | 1 |

## NC 8132 AB

### BENT NOSE TELEPHONE PLIERS NC

- Similar to DIN ISO 5745
- Flat-round jaws, angled gripping faces, serrated
- Induction-hardened precision cutting edges
- GEDORE special hardened and tempered steel, with COROSTOP coating

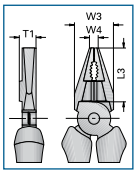


| Code | No. | L | $L_3$ | $W_3$ | $W_4$ | $T_1$ | $T_2$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 1884123 | **NC 8132 AB-160 J** | 160 | 46 | 16.5 | 3.2 | 9 | 2.5 | 140 | 1 |

## NC 8210

### COMBINATION PLIERS NC German pattern

- Acc. to DIN ISO 5746
- Lay-on cutter box
- For medium-hard and hard wire
- Induction-hardened precision cutting edges
- GEDORE special hardened and tempered steel, with COROSTOP coating



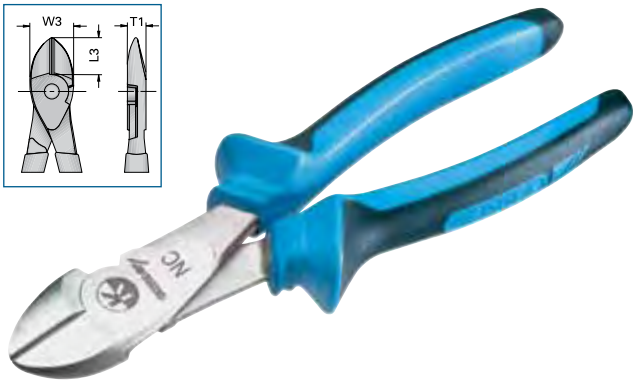
| Code | No. | L | $L_3$ | $W_3$ | $W_4$ | $T_1$ | | |
|---|---|---|---|---|---|---|---|---|
| 1669966 | **NC 8210-180 J** | 180 | 38 | 27 | 6.4 | 11.8 | 266 | 1 |

## NC 8316

### POWER SIDE CUTTER NC American pattern

- Acc. to DIN ISO 5749
- For hard wire, including piano wire
- Induction-hardened precision cutting edges, hardness 63 - 65 HRC
- GEDORE special hardened and tempered steel, with COROSTOP coating



| Code | No. | L | $L_3$ | $W_3$ | $T_1$ | Ø | | |
|---|---|---|---|---|---|---|---|---|
| 1669974 | **NC 8316-160 J** | 160 | 19 | 24.5 | 10 | 1,6 | 218 | 1 |

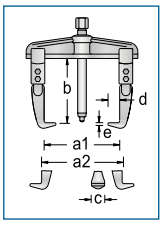
Quantities in packs may vary.

# COROSTOP NC PULLER

## NC 1.04

### PULLER NC 2-arm pattern

- COROSTOP coating protects against corrosion
- Cross-beam reinforces bending moment
- Cantilever hook enhances power
- Quick-release legs
- Spindle with replaceable ball and tip point
- Spindle thermo-chemically hardened
- Upgradeable with hydraulic spindle (see table)



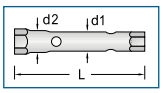
| Code | No. | $a_1$ | $a_{2\,min}$ | $a_{2\,max}$ | b | | | mm | c | d | e | max. t | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1829521 | **NC 1.04/1A** | 130 | 70 | 170 | 100 | M 14x1,5 x 140 | | 17 | 22 | 15 | 3.0 | 3.0 | 1.2 | 1 |
| 1829548 | **NC 1.04/2A** | 200 | 110 | 260 | 150 | G 1/2 x 210 | 1.06/HSP1 | 22 | 30 | 25 | 4.5 | 5.0 | 3.4 | 1 |
| 1829556 | **NC 1.04/3A** | 350 | 150 | 420 | 200 | G 3/4 x 280 | 1.06/HSP2 | 27 | 36 | 33 | 6.0 | 7.5 | 8.7 | 1 |

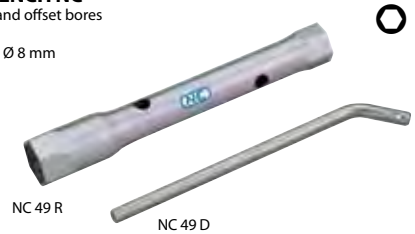
# COROSTOP NC PARTS

## NC 49

### SPARK PLUG SOCKET WRENCH NC

- With rubber spark-plug gripper and offset bores
- Forged and hardened
- With angled tommy bar no. 49 D Ø 8 mm
- With COROSTOP coating



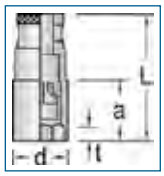




| Code | No. | mm | AF | L | $d_1$ | $d_2$ | | |
|---|---|---|---|---|---|---|---|---|
| 1669990 | **NC 49 R** | 16 x 20,8 | 5/8 x 13/16 | 190 | 24 | 25 | 256 | 1 |
| 1670018 | **NC 49 D** | | | 175 | 8 | | 70 | 1 |

## NC 50 - NC 54

### SPARK PLUG SOCKET NC

- With retention spring
- For use with socket drivers with 3/8" or 1/2" square drive or Ø 8 mm tommy bar
- GEDORE vanadium steel 31CrV3, with COROSTOP coating



| Code | No. | mm | AF | □" | L | a | t | d | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1669869 | **NC 50** | 20.8 | 13/16 | 1/2 | 63.5 | 25.5 | 7 | 27.5 | 128 | 1 |
| 1670204 | **NC 52** | 20.8 | 13/16 | 3/8 | 63.5 | 25.5 | 7 | 27.5 | 140 | 1 |
| 1670212 | **NC 53** | 16.0 | 5/8 | 3/8 | 63.5 | 20.5 | 7 | 21.5 | 96 | 1 |
| 1669885 | **NC 54** | 16.0 | 5/8 | 1/2 | 63.5 | 20.5 | 7 | 21.5 | 92 | 1 |

## NC 59 GK

### GLOW PLUG SOCKET NC 3/8"

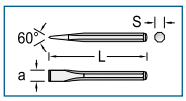
- For diesel engines
- With COROSTOP coating

| Code | No. | mm | □" | L | $a_1$ | | |
|---|---|---|---|---|---|---|---|
| 2000288 | **NC 59 GK 10x70** | 10 | 3/8 | 70 | 30 | 70 | 1 |

## NC 97

### FLAT COLD CHISEL NC octagonal

- GEDORE chrome-molybdenum-vanadium steel 45CrMoV7, with COROSTOP coating

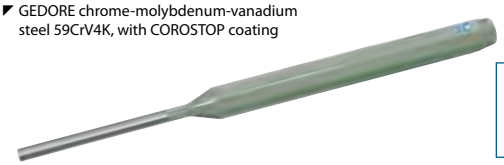


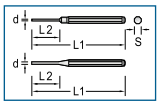

| Code | No. | L | a | s | | |
|---|---|---|---|---|---|---|
| 1670034 | **NC 97-150** | 150 | 16 | 12 | 126 | 1 |

## NC 119

### PIN PUNCH NC octagonal

- Acc. to DIN 6450, Form C
- GEDORE chrome-molybdenum-vanadium steel 59CrV4K, with COROSTOP coating






| Code | No. | $L_1$ | $L_2$ | d | s | | |
|---|---|---|---|---|---|---|---|
| 1670042 | **NC 119-4** | 150 | 50 | 4 | 10 | 64 | 1 |

# ACCESSORIES

## 4900

### WEATHER PROOF MULTI TOOL for NAUTIC-Sets 502+503

- Multi tool, includes:
- Variable open ended spanner 0-19 mm
- Mechanic's pliers
- Knife
- Saw with file and screwdriver blade
- Screwdriver cruciform head size PH 1
- Delivery in wallet

| Code | No. | mm | | |
|---|---|---|---|---|
| 1669532 | **4900** | 161.5 | 308 | 1 |



Quantities in packs may vary.

## COROSTOP TOOL SETS

Tools in metric or inch sizes. Supplied in watertight, offshore-yellow cases, temperature-stable from -25 °C to +80 °C. The cases float and can give a person overboard additional buoyancy. Depending on its size, the case complete with tools has a buoyancy of arround 10 N - 100 N. The majority of the tools have the special COROSTOP (= NC) coating to give long-term corrosion-proofing.

## NC SET METRIC

### 502 M

**NAUTIC SET DHINGY 11 pieces**

- This set contains the basic tools required on a small sailing boat
- In watertight, offshore-yellow cases, dimensions: 255 x 180 x 80 mm
- The buoyancy of the case including tools is more than 20 N
- Temperature resistant from -25 °C to +80 °C
- First-Aid-Kit in lid
- Delivery package does not contain any extras (glasses, watch, mobile phone etc.)

mm

| Code | No. | Contents | Buoyancy N | | |
|---|---|---|---|---|---|
| 1657453 | **502 M** | **NC 42** 2.5 4 5 6 8<br>**NC 2150** 5.5<br>**NC 2160 PH** 2<br>**NC 8210**-180 J<br>**4900**<br>**E-502/503 EH** First-Aid-Kit<br>**E-502 P** Plastic box | 20 | 1.7 | 1 |

### 502 P

**NAUTIC SET DHINGY PLUS 17 pieces**

- This set contains only the tools required on a small sailing boat
- In watertight, offshore-yellow cases, dimensions: 255 x 180 x 80 mm
- The buoyancy of the case including tools is more than 20 N
- Temperature resistant from -25 °C to +80 °C
- First-Aid-Kit in lid

mm

| Code | No. | Contents | Buoyancy N | | |
|---|---|---|---|---|---|
| 1884395 | **502 P** | **NC H 42**-10 (1.3 1.5 2 2.5 3 4 5 6 8 10)<br>**4900**<br>**NC 145** 10<br>**NC 2160 PH** 0 1 2<br>**247 H-30-200**<br>**E-502/503 EH** First-Aid-Kit | 20 | 1.7 | 1 |

Quantities in packs may vary.

## 503 M

### NAUTIC SET MOTORBOAT 22 pieces

- The MOTORBOAT set is aimed at skippers of small to medium-sized motorboats
- It contains all the tools required to carry out maintenance and minor engine repairs
- In watertight, offshore-yellow cases, dimensions: 255 x 180 x 80 mm
- The buoyancy of the case including tools is more than 20 N
- Temperature resistant from -25 °C to +80 °C
- First-Aid-Kit in lid

mm

| Code | No. | Contents | Buoyancy N | | |
|---|---|---|---|---|---|
| 1657461 | **503 M** | **NC H 42**-10 (1.3 1.5 2 2.5 3 4 5 6 8 10)<br>**NC 49** D, **NC 49** R<br>**NC 145** 10<br>**NC 2150** 5.5<br>**NC 2160 PH** 2<br>**NC 8210**-180 J<br>**4900**<br>**648**<br>**4610**<br>**4629**<br>**8729**<br>**E-502/503 EH** First-Aid-Kit | 10 | 2.6 | 1 |

## 504 M

### NAUTIC SET YACHT 65 pieces

- The YACHT set is aimed at skippers of large motor and sailing yachts, enabling them to carry out repairs away from the marina
- In watertight, offshore-yellow cases, dimensions: 380 x 250 x 120 mm
- The buoyancy of the case including tools is around 100 N
- Temperature resistant from -25 °C to +80 °C

3/8"

mm

| Code | No. | Contents | Buoyancy N | | |
|---|---|---|---|---|---|
| 1658344 | **504 M** | **NC 7** 6 7 8 9 10 12 13 14 15 16 17 18 19<br>**NC H 42**-10 (1.3 1.5 2 2.5 3 4 5 6 8 10)<br>**NC SCL 43** TX-80 (T9 T10 T15 T20 T25 T27 T30 T40)<br>**NC 52 NC 53**<br>**NC 60 P** 8<br>**NC 30** 8 10 12 13 14 15 16 17 18 19 20 21 22<br>**NC 3087**<br>**NC 3090**-5<br>**NC 3093** U-10<br>**NC 137** 10<br>**NC 2150** 3 5.5 8<br>**NC 2160 PH** 1 2<br>**406**<br>**4522**<br>**4534**-3<br>**4610**<br>**4629**<br>**NC 8132**-160 J<br>**NC 8210**-180 J<br>**NC 8316**-160 J<br>**247 H**-30 | 100 | 8.0 | 1 |

## 505 M

### NAUTIC SET CARGO SHIP 73 pieces

- The CARGO SHIP set is aimed at skippers of vessels from small fishing smacks up to cargo ships, enabling them to carry out repairs out of port
- In watertight, offshore-yellow cases, dimensions: 420 x 305 x 170 mm
- The buoyancy of the case including tools is around 100 N
- Temperature resistant from -25 °C to +80 °C

1/2"

mm

| Code | No. | Contents | Buoyancy N | | |
|---|---|---|---|---|---|
| 1658336 | **505 M** | **NC 7** 6 7 8 9 10 12 13 14 16 17 18 19 22 24 27 30 32<br>**NC H 42**-10 (1.3 1.5 2 2.5 3 4 5 6 8 10)<br>**NC SCL 43 TX**-80 (T9 T10 T15 T20 T25 T27 T30 T40)<br>**NC 50**<br>**NC 54**<br>**NC 19** 10 12 13 14 16 17 18 19 22 24 27 30 32<br>**NC 1987**<br>**NC 1990**-5 -10<br>**NC 1993** U-10 T<br>**NC 60 P** 12<br>**NC 137** 10<br>**NC 145** 10<br>**NC 97** 150<br>**NC 119**-4<br>**NC 2150** 3 5.5 8<br>**NC 2160 PH** 1 2<br>**406 4522**<br>**4534**-3<br>**4610**<br>**4629**<br>**NC 8132**-160 J<br>**NC 8210**-180 J<br>**NC 8316**-160 J<br>**247 H**-30 | 100 | 13.5 | 1 |



Quantities in packs may vary.

# NC SET INCH

## 504 A

### NAUTIC SET YACHT AF 58 pieces

- The YACHT set is aimed at skippers of large motor and sailing yachts, enabling them to carry out repairs away from the marina
- Tools in inch sizes
- In watertight, offshore-yellow cases, dimensions: 380 x 250 x 120 mm
- The buoyancy of the case including tools is around 100 N
- Temperature resistant from -25 °C to +80 °C

3/8"

"AF

| Code | No. | Contents | Buoyancy N | | |
|---|---|---|---|---|---|
| 1884239 | **504 A** | **NC 7** 1/4 5/16 11/32 3/8 7/16 1/2 9/16 5/8 11/16 3/4" **NC H 42**-88 A (5/64 3/32 1/8 5/32 3/16 7/32 1/4 5/16") **NC SCL 43 TX**-80 (T9 T10 T15 T20 T25 T27 T30 T40) **NC 52 NC 53** **NC 60 P** 8 **NC 30** 1/4 5/16 11/32 3/8" **NC D 30** 7/16 1/2 9/16 19/32 5/8 11/16 3/4" **NC 3087** **NC 3090-5** **NC 3093 U**-10 **NC 137** 10 **NC 2150** 3 5,5 8 **NC 2160 PH** 1 2 **406** **4522** **4534**-3 **4610** **4629** **NC 8132 AB**-160 J **NC 8210**-180 J **NC 8316**-160 J **247 H**-30 | 100 | 6.5 | 1 |

## 505 A

### NAUTIC SET CARGO SHIP AF 64 pieces

- The CARGO SHIP set is aimed at skippers of vessels from small fishing smacks up to cargo ships, enabling them to carry out repairs out of port
- Tools in inch sizes
- In watertight, offshore-yellow cases, dimensions: 420 x 305 x 170 mm
- The buoyancy of the case including tools is around 100 N
- Temperature resistant from -25 °C to +80 °C

1/2"

"AF

| Code | No. | Contents | Buoyancy N | | |
|---|---|---|---|---|---|
| 1884220 | **505 A** | **NC 7** 1/4 5/16 11/32 3/8 7/16 1/2 9/16 5/8 11/16 3/4 7/8 1" **NC H 42**-88 A (5/64 3/32 1/8 5/32 3/16 7/32 1/4 5/16") **NC SCL 43 TX**-80 (T9 T10 T15 T20 T25 T27 T30 T40) **NC 50** **NC 54** **NC D 19** 5/16 11/32 3/8 13/32 7/16 1/2 9/16 19/32 5/8 11/16 3/4" **NC 1987** **NC 1990**-5 -10 **NC 1993** U-10 T **NC 60 P** 12 **NC 137** 10 **NC 145** 10 **NC 97** 150 **NC 119**-4 **NC 2150** 3 5,5 8 **NC 2160 PH** 1 2 **406** **4522** **4534**-3 **4610** **4629** **NC 8132 AB**-160 J **NC 8210**-180 J **NC 8316**-160 J **247 H**-30 | 100 | 10.0 | 1 |

**More NC tools on request!**
**Haven't you found the right tool?**
**Ask us about custom-orders.**
**Your problems are our assignments.**

Quantities in packs may vary.

GEDORE
AUSTRIA
Schneide: Induktiv
gehärtet
Härte: 62–64HRC
VDE 0680 • 2KV •
GEDORE
8250-200
AUSTRIA

## VDE special purpose use up to 1000 V +


SERVICE / FEATURES 556 – 557

VDE SPANNERS 558

VDE TORQUE WRENCHES 558

VDE SOCKETS + ACCESSORIES 559

VDE SCREWDRIVER 560

VDE PLIERS 560 – 566

VDE ASSORTMENTS 567 – 569

VDE TOOL CABINET 569

VDE ACCESSORIES 570 – 571


Sheath-stripping, wire-stripping, crimping tools etc. can be found on pages 382 – 387.

# VDE Insulated Safety Tools

1000 V

- Only tools bearing this test mark are classed as insulated tools
- VDE insulation: insulated up to 1000 V acc. to EN 60900/IEC 60900:2004
- Safe working in high-voltage areas
- Up to 1000 V AC (alternating current)
- Up to 1500 V DC (direct current)

- The GS symbol is a symbol defined in the law on technical equipment and consumer products (German Equipment and Product Safety Act/GSPG). It may only be used with the name given of the testing and certification office.

- The VDE symbol points to the VDE Test Institute as having carried out the test. As a result, GEDORE and the VDE Test Institute vouch for the fulfilment of the tool and safety standards and thus meet the requirements of the German equipment safety law.

- Tools marked with the double triangle are individually tested = testing at 10,000 V AC based on EN 60900/IEC 60900:2004

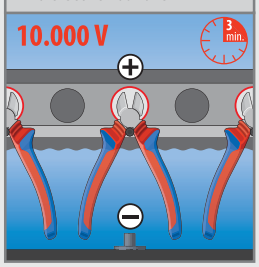
**Note:**
- Double triangle and 1000 V particulars in association with the GEDORE log point to a tool tested and insulated by GEDORE.
- Texts: All DIN EN 60900-tested tools must be marked with the manufacturer's name, model or type designation, the year of manufacture and the double triangle lightning symbol with the 1000 V detail.

**Note:**
- All mechanical requirements such as hardness, torque and forces must comply with the DIN-ISO tolerances.
- To ensure the high safety standard of the insulated GEDORE VDE tools, independent, authorised testing centres, such as the VDE association, carry out both type examinations as well as manufacturing and storage inspections.

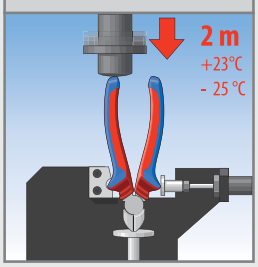
## VDE Regulations / Test specifications

- All GEDORE VDE safety tools - given their proper use - are manufactured to dependably protect the user from any electrical shock currents.
- For this to be ensured, major testing steps up a to a 100 % testing of the electrical insulating property at the 10,000 V high-voltage test facility are prescribed.
- With the test passed, GEDORE VDE-tools then have a 10-fold safety from electrical shock currents and are approved of for working under voltages up to AC 1000 V and DC 1500 V.
- For these properties to be realized a host of requirements must be adhered to. They are listed in DIN EN 60900:2004. They include:

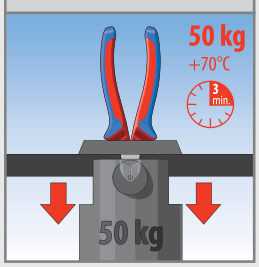
**Voltage test**
- No electric breakdown
- Leakage current below the norm
- No electric flashover



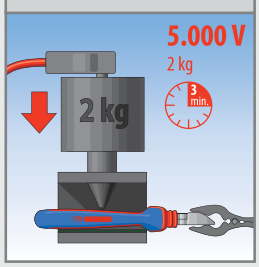

**Shock test**
- No flaking
- No cracks
- No fractures



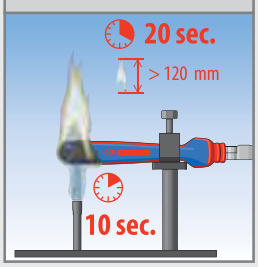

**Bonding test**
- No detaching of the insulation




**Penetration test**
- No electric flashover
- No electric breakdown
- No detaching of the insulation

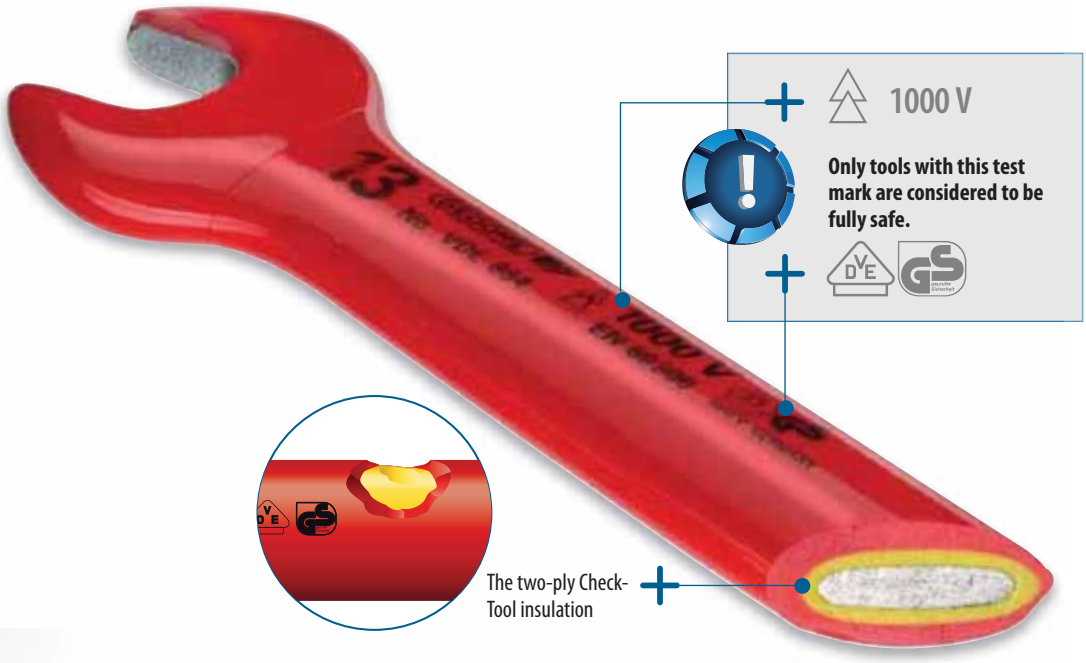



**Burning behavior test**
- Flame height below the norm



## VDE Check-Tool Insulation

- All GEDORE VDE soft-plastic insulated safety tools have the Check-Tool insulation.
- The two-colour multi-layer insulation - red on the outside, yellow on the inside - complies with the BGV A3 (VBG-4) regulation.
- The tool must not show any discernable damage.
- For technical reasons, Check-Tool insulation cannot be applied on tools with sprayed insulation.



## Safety Notes

- Work on electrically live equipment must be carried out only by trained electricians!
- Only tools and safety equipment marked with the double triangle or bell 1000 V symbol (refer to BGV A3) must be used.
- Before commencing any work, check the insulation for damage.
- Damaged tools must not be used!
- The regulations of the employers' liability insurance associations and power supply companies must be complied with!
- GEDORE VDE tools are approved for work on live circuits at voltages up to 1000 V AC and 1500 V DC.
- Tools must not be combined unless they are designed to be securely joined together.

## VDE accessories

- Some items in our VDE accessories range are marked with the usual test mark for protective equipment.

# VDE SPANNERS

## VDE 2 E

### VDE SINGLE ENDED RING SPANNER deep offset

- GEDORE vanadium steel 31CrV3
- VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900:2004, two-ply Check-Tool insulation

1000 V

| Code | No. | ⌀ mm | ↔ mm ↔ | | |
|---|---|---|---|---|---|
| 6035890 | **VDE 2 E 8** | 8 | 170 | 61 | 5 |
| 6035970 | **VDE 2 E 9** | 9 | 170 | 74 | 5 |
| 6036000 | **VDE 2 E 10** | 10 | 170 | 97 | 5 |
| 6036190 | **VDE 2 E 11** | 11 | 180 | 93 | 5 |
| 6036270 | **VDE 2 E 12** | 12 | 190 | 147 | 5 |
| 6036350 | **VDE 2 E 13** | 13 | 190 | 130 | 5 |
| 6036430 | **VDE 2 E 14** | 14 | 210 | 151 | 5 |
| 6036510 | **VDE 2 E 15** | 15 | 215 | 155 | 5 |
| 6036780 | **VDE 2 E 17** | 17 | 220 | 199 | 5 |
| 6036860 | **VDE 2 E 19** | 19 | 240 | 244 | 5 |
| 6036940 | **VDE 2 E 22** | 22 | 260 | 319 | 5 |
| 6037080 | **VDE 2 E 24** | 24 | 280 | 446 | 5 |
| 6037160 | **VDE 2 E 27** | 27 | 295 | 506 | 5 |
| 6037240 | **VDE 2 E 30** | 30 | 310 | 592 | 5 |
| 6037320 | **VDE 2 E 32** | 32 | 330 | 683 | 5 |

## VDE 894

### VDE SINGLE OPEN ENDED SPANNER

- GEDORE vanadium steel 31CrV3
- VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900:2004, two-ply Check-Tool insulation
- Jaw set at 15 °

1000 V

| Code | No. | ⌀ mm | ↔ mm ↔ | | |
|---|---|---|---|---|---|
| 6572040 | **VDE 894 9** | 9 | 105 | 30 | 5 |
| 6572120 | **VDE 894 10** | 10 | 105 | 34 | 5 |
| 6572200 | **VDE 894 11** | 11 | 115 | 44 | 5 |
| 6572390 | **VDE 894 12** | 12 | 125 | 52 | 5 |
| 6572470 | **VDE 894 13** | 13 | 135 | 67 | 5 |
| 6572550 | **VDE 894 14** | 14 | 145 | 81 | 5 |
| 6572630 | **VDE 894 15** | 15 | 150 | 93 | 5 |
| 6572710 | **VDE 894 16** | 16 | 155 | 108 | 5 |
| 6572980 | **VDE 894 17** | 17 | 160 | 117 | 5 |
| 6573010 | **VDE 894 19** | 19 | 175 | 161 | 5 |
| 6573280 | **VDE 894 22** | 22 | 200 | 210 | 5 |
| 6573360 | **VDE 894 24** | 24 | 220 | 268 | 5 |
| 6573440 | **VDE 894 27** | 27 | 245 | 396 | 5 |
| 6573520 | **VDE 894 30** | 30 | 265 | 486 | 5 |
| 6574920 | **VDE 894 32** | 32 | 280 | 558 | 5 |

## V 60 CP

### ADJUSTABLE WRENCH open end, 1000 V

- Chrome-plated
- Dip-insulated up to 1000 V
- Not certified acc. to VDE

1000 V

| Code | No. | Size " | mm | | |
|---|---|---|---|---|---|
| 2179040 | **V 60 CP 6** | 6 | 20 | 170 | 1 |
| 2179059 | **V 60 CP 8** | 8 | 25 | 330 | 1 |
| 2179067 | **V 60 CP 10** | 10 | 30 | 520 | 1 |
| 2179075 | **V 60 CP 12** | 12 | 36 | 880 | 1 |

## VDE 2133

### VDE SOCKET WRENCH with 3C-handle

- With hanging hole
- Head depth 25 mm, blade length 125 mm
- GEDORE vanadium steel 31CrV3
- VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900:2004

1000 V

| Code | No. | ⌀ mm | | | Head Ø | | |
|---|---|---|---|---|---|---|---|
| 1747045 | **VDE 2133 3** | 3 | 125 | 225 | 9 | 95 | 10 |
| 1747053 | **VDE 2133 4** | 4 | 125 | 225 | 10 | 97 | 10 |
| 1747061 | **VDE 2133 5** | 5 | 125 | 225 | 11 | 98 | 10 |
| 1747088 | **VDE 2133 6** | 6 | 125 | 225 | 12 | 100 | 10 |
| 1747096 | **VDE 2133 7** | 7 | 125 | 235 | 14 | 134 | 10 |
| 1747118 | **VDE 2133 8** | 8 | 125 | 235 | 15 | 136 | 10 |
| 1747126 | **VDE 2133 9** | 9 | 125 | 235 | 16 | 136 | 10 |
| 1747134 | **VDE 2133 10** | 10 | 125 | 235 | 17 | 143 | 10 |
| 1747142 | **VDE 2133 11** | 11 | 125 | 245 | 19 | 173 | 10 |
| 1747150 | **VDE 2133 12** | 12 | 125 | 245 | 20 | 176 | 10 |
| 1747169 | **VDE 2133 13** | 13 | 125 | 245 | 21 | 179 | 10 |
| 1747177 | **VDE 2133 14** | 14 | 125 | 245 | 22 | 178 | 10 |
| 1747185 | **VDE 2133 17** | 17 | 125 | 245 | 26 | 202 | 10 |

# VDE TORQUE WRENCHES

## VDE 4507

### VDE TORQUE WRENCH 1/2" 5-50 N·m / 4-37 lbf·ft

- Automatic short-way release and acoustic signal
- Manually adjustable dual scale with metric and SAE values
- Fine toothed ratchet with square drive as per DIN 3120 - A 12.5, ISO 1174
- VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900:2004, two-ply Check-Tool insulation

1000 V

| Code | No. | ■ " | ■ | ↔ mm ↔ | | |
|---|---|---|---|---|---|---|
| 6681920 | **VDE 4507-4** | 1/2 | 12.5 | 370 | 1251 | 1 |



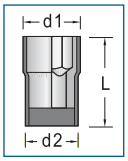
Quantities in packs may vary.

# VDE SOCKETS + ACCESSORIES

## VDE 19

### VDE SOCKET 1/2"

- Hexagon socket wrench, hand-operated
- With square drive according to DIN 3120 - C 12.5, ISO 1174
- GEDORE vanadium steel 31CrV3
- VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900:2004, two-ply Check-Tool insulation
- 10 - 12 mm insulation overhang must be added to the lengths stated
- Sizes 27, 30 and 32: diameter $d_1$ is not standardised



1000 V

| Code | No. | mm | $d_1$ | $d_2$ | L | | |
|---|---|---|---|---|---|---|---|
| 6122510 | **VDE 19 10** | 10 | 19.5 | 27 | 54.0 | 70 | 5 |
| 6122780 | **VDE 19 11** | 11 | 20.7 | 27 | 54.0 | 67 | 5 |
| 6122860 | **VDE 19 12** | 12 | 22.0 | 27 | 54.0 | 70 | 5 |
| 6122940 | **VDE 19 13** | 13 | 23.2 | 27 | 54.0 | 69 | 5 |
| 6123080 | **VDE 19 14** | 14 | 24.5 | 27 | 54.0 | 73 | 5 |
| 6123160 | **VDE 19 15** | 15 | 25.7 | 27 | 55.5 | 88 | 5 |
| 1439294 | **VDE 19 16** | 16 | 27.0 | 27 | 55.5 | 86 | 5 |
| 6123240 | **VDE 19 17** | 17 | 28.2 | 27 | 55.5 | 84 | 5 |
| 6123320 | **VDE 19 19** | 19 | 30.7 | 27 | 56.0 | 92 | 5 |
| 6123400 | **VDE 19 22** | 22 | 34.5 | 27 | 57.5 | 121 | 5 |
| 6123590 | **VDE 19 24** | 24 | 37.0 | 27 | 57.5 | 146 | 5 |
| 6123670 | **VDE 19 27** | 27 | 40.7 | 27 | 57.5 | 174 | 5 |
| 6123750 | **VDE 19 30** | 30 | 44.5 | 27 | 59.0 | 212 | 5 |
| 6123830 | **VDE 19 32** | 32 | 47.0 | 27 | 60.5 | 250 | 5 |

## VDE IN 19

### VDE SCREWDRIVER BIT SOCKET 1/2" for in-hex screws

- With pressed-in pin
- With square drive according to DIN 3120 - C 12.5, with ball groove
- Tips GEDORE vanadium special steel
- VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900:2004, two-ply Check-Tool insulation
- Sockets can only be combined with VDE 1989 T, VDE 1991, VDE 1993 U and VDE 4507

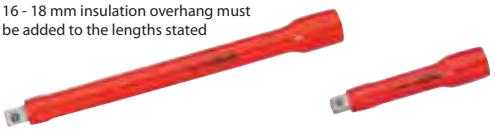
1000 V

| Code | No. | mm | mm | Ø | | |
|---|---|---|---|---|---|---|
| 6124480 | **VDE IN 19 5** | 5 | 106 | 27 | 83 | 5 |
| 6124560 | **VDE IN 19 6** | 6 | 106 | 27 | 95 | 5 |
| 6124640 | **VDE IN 19 8** | 8 | 106 | 27 | 109 | 5 |

## VDE 1990

### VDE EXTENSION 1/2"

- For hand-operated sockets with square drive as per DIN 3120, ISO 1174
- With lock screw for holding the socket wrenches
- VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900:2004, two-ply Check-Tool insulation
- Not suited for use with VDE IN 19
- 16 - 18 mm insulation overhang must be added to the lengths stated



1000 V

| Code | No. | " | | mm | | |
|---|---|---|---|---|---|---|
| 6124050 | **VDE 1990-5** | 1/2 | 12.5 | 125 | 213 | 5 |
| 6124130 | **VDE 1990-10** | 1/2 | 12.5 | 250 | 411 | 5 |

## VDE 1991

### VDE EXTENSION 1/2"

- With hollow shaft, especially suitable for screwdriver bit sockets VDE IN 19
- Max. torque 370 N·m
- VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900:2004, two-ply Check-Tool insulation

1000 V

| Code | No. | " | | mm | | |
|---|---|---|---|---|---|---|
| 1507516 | **VDE 1991** | 1/2 | 12.5 | 125 | 204 | 5 |

## VDE 1988 - VDE 1989 T

### VDE T-HANDLE for 1/2" VDE tools

- VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900:2004, two-ply Check-Tool insulation
- VDE 1988 with screw locking, not suited for use with VDE IN 19
- VDE 1989 T with pull locking

1000 V

| Code | No. | " | | mm | | |
|---|---|---|---|---|---|---|
| 6124210 | **VDE 1988** | 1/2 | 12.5 | 200 | 455 | 5 |
| 6124720 | **VDE 1989 T** | 1/2 | 12.5 | 200 | 355 | 5 |

## VDE 1993 U

### VDE REVERSIBLE RATCHET 1/2" with push-button release

- Robust, with smooth action
- Sockets held absolutely securely by push-button lock with ball in the square drive
- Direction changed by 2 push-buttons, marked R and L, on the shaft
- Square drive acc. to DIN 3120 - A 12.5, ISO 1174, chrome-vanadium steel 31CrV3
- VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900:2004

1000 V

| Code | No. | " | | mm | | |
|---|---|---|---|---|---|---|
| 6123910 | **VDE 1993 U** | 1/2 | 12.5 | 270 | 546 | 5 |

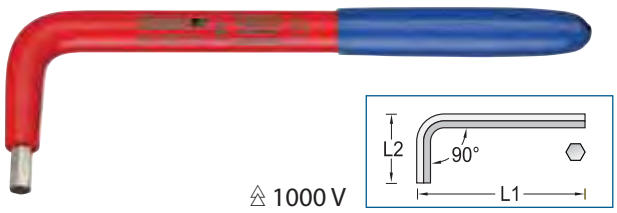
Quantities in packs may vary.

# VDE SCREWDRIVER

## VDE 42

### VDE HEXAGON ALLEN KEY for in-hex screws

- Acc. to DIN ISO 2936
- Particularly suitable for cable branch clamping rings
- Oil-hardened
- GEDORE vanadium special steel
- VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900:2004




1000 V

| Code | No. | mm | $L_1$ | $L_2$ | | |
|---|---|---|---|---|---|---|
| 2324849 | **VDE 42 3** | 3 | 130 | 23.5 | 20 | 1 |
| 2324857 | **VDE 42 4** | 4 | 120 | 40.0 | 25 | 1 |
| 2324865 | **VDE 42 5** | 5 | 140 | 48.0 | 45 | 1 |
| 2324873 | **VDE 42 6** | 6 | 140 | 48.0 | 60 | 1 |
| 2324881 | **VDE 42 8** | 8 | 150 | 51.0 | 110 | 1 |
| 2324903 | **VDE 42 10** | 10 | 220 | 51.0 | 230 | 1 |
| 2324911 | **VDE 42 12** | 12 | 260 | 61.5 | 350 | 1 |

## VDE 42 T

### VDE HEXAGON ALLEN KEY WITH T-HANDLE for in-hex screws

- Insulated acc. to IEC 60900:2004
- With Check-Tool insulation
- GEDORE chrome-vanadium steel 59CrV4

1000 V

| Code | No. | mm | mm | | |
|---|---|---|---|---|---|
| 2661225 | **VDE 42 T 4** | 4 | 160 | 145 | 1 |
| 2661233 | **VDE 42 T 5** | 5 | 160 | 250 | 1 |
| 2661241 | **VDE 42 T 6** | 6 | 160 | 250 | 1 |
| 2661268 | **VDE 42 T 8** | 8 | 160 | 260 | 1 |
| 2661276 | **VDE 42 T 10** | 10 | 200 | 390 | 1 |
| 2661284 | **VDE 42 T 11** | 11 | 200 | 400 | 1 |
| 2661292 | **VDE 42 T 12** | 12 | 200 | 420 | 1 |

## VDE 2170

### VDE SCREWDRIVER for slotted head screws

- VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900:2004, fully insulated blade
- Blade tip to DIN ISO 2380-1 form A
- With impact resistant handle
- Blade in chrome-vanadium steel, with black tip

1000 V

| Code | No. | mm | mm | | | | |
|---|---|---|---|---|---|---|---|
| 1612220 | **VDE 2170 2,5** | 0.4 | 2.5 | 75 | 155 | 29 | 10 |
| 1612239 | **VDE 2170 3** | 0.5 | 3.0 | 100 | 180 | 33 | 10 |
| 1612247 | **VDE 2170 3,5** | 0.6 | 3.5 | 100 | 190 | 46 | 10 |
| 1612255 | **VDE 2170 4** | 0.8 | 4.0 | 100 | 190 | 49 | 10 |
| 1612271 | **VDE 2170 5,5** | 1.0 | 5.5 | 125 | 225 | 81 | 10 |
| 1612298 | **VDE 2170 6,5** | 1.2 | 6.5 | 150 | 260 | 116 | 10 |
| 1612301 | **VDE 2170 8** | 1.2 | 8.0 | 175 | 195 | 158 | 10 |
| 1612336 | **VDE 2170 10** | 1.6 | 10.0 | 200 | 320 | 188 | 10 |

## VDE 2160 PH

### VDE SCREWDRIVER for cross-slotted head screws PH

- VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900:2004, fully insulated blade
- Blade tip to DIN ISO 8764-1 PH
- With impact-resistant handle
- Blade in chrome-vanadium steel, with black tip

1000 V

| Code | No. | PH | M | | | | |
|---|---|---|---|---|---|---|---|
| 1612107 | **VDE 2160 PH 0** | 0 | M1,6 - M2 | 60 | 140 | 30 | 10 |
| 1612115 | **VDE 2160 PH 1** | 1 | M2 - M3 | 80 | 180 | 68 | 10 |
| 1612123 | **VDE 2160 PH 2** | 2 | M3,5 - M5 | 100 | 210 | 101 | 10 |
| 1612131 | **VDE 2160 PH 3** | 3 | M5,5 - M7 | 150 | 270 | 168 | 10 |
| 1612158 | **VDE 2160 PH 4** | 4 | M8 - M10 | 200 | 320 | 249 | 10 |

## VDE 2160 PZ

### VDE SCREWDRIVER for cross-slotted head screws PZ

- VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900:2004, fully insulated blade
- Blade tip to DIN ISO 8764-1 PZ
- With impact-resistant handle
- Blade in chrome-vanadium steel, with black tip

1000 V

| Code | No. | PZ | M | | | | |
|---|---|---|---|---|---|---|---|
| 1612166 | **VDE 2160 PZ 0** | 0 | M1,6 - M2 | 60 | 140 | 29 | 10 |
| 1612182 | **VDE 2160 PZ 1** | 1 | M2 - M3 | 80 | 180 | 68 | 10 |
| 1612190 | **VDE 2160 PZ 2** | 2 | M3,5 - M5 | 100 | 210 | 102 | 10 |
| 1612204 | **VDE 2160 PZ 3** | 3 | M5,5 - M7 | 150 | 270 | 168 | 10 |
| 1612212 | **VDE 2160 PZ 4** | 4 | M8 - M10 | 200 | 320 | 250 | 10 |

## VDE 2170-2160 PH-077

### VDE SCREWDRIVER SET 7 pieces

- Packed in environmentally-friendly cardboard box
- For slotted and cross-slotted head screws PH
- VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900:2004, fully insulated blade
- With impact-resistant handle

1000 V

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1616048 | **VDE 2170-2160 PH-077** | ⊖ **VDE 2170** 2,5 4 5,5 6,5<br>⊕ **VDE 2160 PH** 0 1 2 | 575 | 1 |



Quantities in packs may vary.

## V 4614 PLUS

### VOLTAGE TESTER 1000 V two-pole with LED display

- For 6 - 1000 V AC
- Optical warning of life-threatening voltage above 35 V
- Acoustic and visual continuity testing from 0 to 500 kΩ
- Phase testing > 100 V AC
- Phase sequence indicator
- RCD triggering by automatic load function, Is ~30 mA, ED (DT) = max. 30 sec.
- Safety outlet and CEE one-hand operation
- Removable 4 mm tip adaptor
- Undetachable test tip protection
- Protection classification IP65, dust-proof, hose-proof
- Integrated LED torch (white)
- 2x batteries type AAA Micro
- Automatic on/off function
- CAT IV 1000 V
- TÜV/GS tested and approved, IEC/EN 61243-3, DIN VDE 0682 Part 401

1000 V

| Code | No. | | |
|---|---|---|---|
| 2241137 | **V 4614 PLUS** | 270 | 1 |

## VDE 8094

### VDE CABLE SHEARS with VDE dipped insulation

- For cutting multi-strand copper and aluminium cables up to Ø 20 mm
- When using first and final cuts, the diameter increases to Ø 25 mm
- The handle width remains within the range of ergonomic single-hand operation
- First cut: Use the front blade to cut the cable sheath
- Final cut: Place the cable in the back blade and separate the wire(s)
- Cutting edges additionally inductively hardened
- Precision ground for optimum action, new cutting-edge geometry
- Adjustable screw joint with finger protection
- Not suitable for steel wire or hard-drawn copper wire
- Special tool steel, forged, gun-metal finish
- Handles with VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900:2004, two-ply Check-Tool insulation

1000 V

| Code | No. | Ø | mm² | mm | inch | | |
|---|---|---|---|---|---|---|---|
| 6725050 | **VDE 8094** | 20 | 70 | 200 | 8.1/2 | 423 | 1 |

# VDE PLIERS

## 180

### CABLE SHEARS

- Cuts cable up to 27 mm, solid material up to 200 mm²
- Suitable for use up to 1000 V
- Not certified acc. to VDE

1000 V

| Code | No. | mm | | |
|---|---|---|---|---|
| 6430330 | **V 180 23** | 620 | 2125 | 1 |

## V 8091

### CABLE CUTTER

- For cutting copper and aluminium cables
- Genuine single-hand operation, with optimum transfer of force. Handles ergonomically designed for fatigue-free constant use. Little hand pressure required even at maximum loading. For step-by-step cutting with burr-free cut, may be opened in every cutting position. With locking lever.
- Tool body in high-tensile special steel
- Cutting edges and important functional parts tempered or specially hardened
- Red plastic handles insulated
- Suitable for use up to 1000 V
- Not certified acc. to VDE
- V 8091-320: single-strand cable, max. Ø 25 mm (1"), multi-strand cable, max. Ø 32 mm (1.1/4")
- V 8091-500: multi-strand cable, max. Ø 52 mm (2.1/2")

V 8091-320

V 8091-500

1000 V

| Code | No. | mm | | |
|---|---|---|---|---|
| 6725130 | **V 8091-320** | 280 | 792 | 1 |
| 6725210 | **V 8091-500** | 280 | 999 | 1 |

- The different cutting-edge geometry is ideal for plastic-coatings or copper and aluminium strands.

**First cut/coat cut:**

- Even with larger cable diameters the single-hand operation is retained.

**Second cut / dividing wires:**

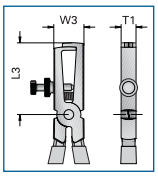
- For larger cable diameters the change into the second cut enables the final separation of the strands in single-hand operation.

Quantities in packs may vary.

## VDE 8098

### VDE STRIPPING PLIERS with VDE dipped insulation

- Opening stop, spring and brass adjusting screw for wires 0.8 - 6.0 mm²
- GEDORE special hardened and tempered steel, chrome-plated
- Handles with VDE dipped insulation up to 1000 V, acc. to EN 60900/IEC 60900:2004, two-ply Check-Tool insulation



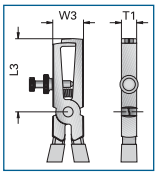
1000 V

| Code | No. | L | $L_3$ | $W_3$ | $T_1$ | mm² | | |
|---|---|---|---|---|---|---|---|---|
| 6708980 | **VDE 8098-160** | 160 | 43.5 | 18.5 | 8.5 | 0,8-6 | 217 | 1 |

## VDE 8098 H

### VDE STRIPPING PLIERS with VDE insulating sleeves

- Opening stop, spring and brass adjusting screw for wires 0.8 - 6.0 mm²
- GEDORE special hardened and tempered steel, chrome-plated
- Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/IEC 60900:2004



1000 V

| Code | No. | L | $L_3$ | $W_3$ | $T_1$ | mm² | | |
|---|---|---|---|---|---|---|---|---|
| 1552074 | **VDE 8098-160 H** | 160 | 43.5 | 18.5 | 8.5 | 0,8-6 | 204 | 1 |

## VDE 8099

### VDE STRIPPING PLIERS STRIP-FIX with VDE dipped insulation

- Self-adjusting, for wires 0.5 - 5.0 mm²
- GEDORE special hardened and tempered steel, oil-hardened, chrome-plated
- Handles with VDE dipped insulation up to 1000 V, acc. to EN 60900/IEC 60900:2004, two-ply Check-Tool insulation
- E-8099 = Pair of spare knives

1000 V

| Code | No. | mm | inch | mm² | | |
|---|---|---|---|---|---|---|
| 6709600 | **VDE 8099-160** | 160 | 6.1/2 | 0,5-5 | 226 | 1 |
| 5709580 | **E-8099** | | | | 12 | 1 |

## VDE 8099 H

### VDE STRIPPING PLIERS STRIP-FIX with VDE insulating sleeves

- Self-adjusting, for wires 0.5 - 5.0 mm²
- V-shaped cutting jaws for stripping the plastic insulation of single and multi-strand conductors
- GEDORE special hardened and tempered steel, oil-hardened, chrome-plated
- Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/IEC 60900:2004

1000 V

| Code | No. | mm | inch | mm² | | |
|---|---|---|---|---|---|---|
| 1552082 | **VDE 8099-160 H** | 160 | 6.1/2 | 0,5-5 | 211 | 1 |

## VDE 146

### VDE UNIVERSAL PLIERS 7 settings

- Gripping pliers with safety box joint and finger protection
- GEDORE special chrome-vanadium steel
- Handles with VDE dipped insulation up to 1000 V, acc. to EN 60900/IEC 60900:2004, two-ply Check-Tool insulation

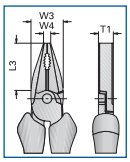
1000 V

| Code | No. | mm | mm | | |
|---|---|---|---|---|---|
| 6120140 | **VDE 146 10** | 250 | 31 | 485 | 1 |

## VDE 8250

### VDE HEAVY DUTY COMBINATION PLIERS with VDE dipped insulation

- For heavy continuous use
- Good lever action for easy cutting
- Induction-hardened precision cutting edges, hardness 62 - 64 HRC
- For flat and round material
- To cut all wire types including piano wire, 1.6 mm
- GEDORE special hardened and tempered steel, chrome-plated
- Handles with VDE dipped insulation up to 1000 V, acc. to EN 60900/IEC 60900:2004, two-ply Check-Tool insulation



1000 V

| Code | No. | L | $L_3$ | $W_3$ | $W_4$ | $T_1$ | | |
|---|---|---|---|---|---|---|---|---|
| 1429582 | **VDE 8250-160** | 160 | 35.0 | 22.8 | 5.8 | 10.4 | 236 | 1 |
| 6720090 | **VDE 8250-180** | 180 | 38.5 | 25.6 | 6.5 | 11.0 | 312 | 1 |
| 6720250 | **VDE 8250-200** | 200 | 39.5 | 27.0 | 6.5 | 12.4 | 365 | 1 |
| 6720330 | **VDE 8250-225** | 225 | 42.2 | 27.7 | 6.5 | 13.0 | 485 | 1 |



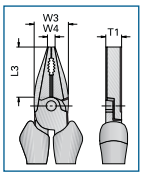
Quantities in packs may vary.

## VDE 8250 H

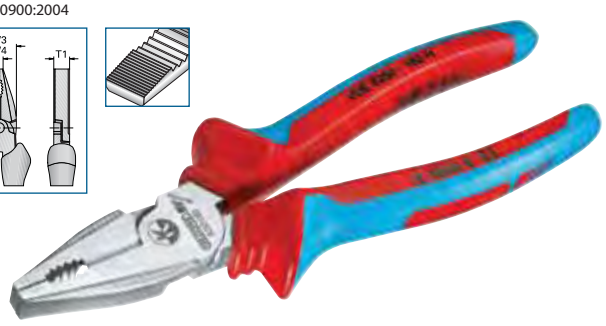
### VDE HEAVY DUTY COMBINATION PLIERS with VDE insulating sleeves

- For heavy continuous use
- Good lever action for easy cutting
- Induction-hardened precision cutting edges, hardness 62 - 64 HRC
- For flat and round material
- To cut all wire types including piano wire, 1.6 mm
- GEDORE special hardened and tempered steel, chrome-plated
- Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/ IEC 60900:2004

1000 V





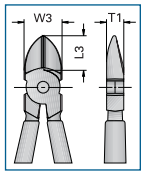
| Code | No. | L | $L_3$ | $W_3$ | $W_4$ | $T_1$ | | |
|---|---|---|---|---|---|---|---|---|
| 1550942 | **VDE 8250-160 H** | 160 | 35.0 | 22.8 | 5.8 | 10.4 | 228 | 1 |
| 1550950 | **VDE 8250-180 H** | 180 | 38.5 | 25.6 | 6.5 | 11.0 | 288 | 1 |
| 1550969 | **VDE 8250-200 H** | 200 | 39.5 | 27.0 | 6.5 | 12.4 | 369 | 1 |

## VDE 8314

### VDE SIDE CUTTER with VDE dipped insulation

- With slender head - ideal for confined spaces
- Induction-hardened precision cutting edges, hardness 63 - 65 HRC
- For medium-hard wire, 1.6 mm
- GEDORE special hardened and tempered steel, chrome-plated
- Handles with VDE dipped insulation up to 1000 V, acc. to EN 60900/ IEC 60900:2004, two-ply Check-Tool insulation

1000 V



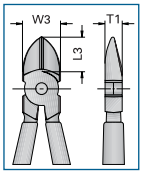
| Code | No. | L | $L_3$ | $W_3$ | $T_1$ | Ø | | |
|---|---|---|---|---|---|---|---|---|
| 6743540 | **VDE 8314-140** | 140 | 18.5 | 18.5 | 9.5 | 1,6 | 199 | 1 |
| 6743620 | **VDE 8314-160** | 160 | 19.0 | 22.0 | 10.0 | 1,6 | 253 | 1 |

## VDE 8314 H

### VDE SIDE CUTTER with VDE insulating sleeves

- With slender head - ideal for confined spaces
- Induction-hardened precision cutting edges, hardness 63 - 65 HRC
- For medium-hard wire, 1.6 mm
- GEDORE special hardened and tempered steel, chrome-plated
- Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/ IEC 60900:2004

1000 V

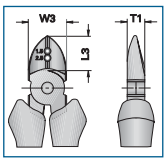


| Code | No. | L | $L_3$ | $W_3$ | $T_1$ | Ø | | |
|---|---|---|---|---|---|---|---|---|
| 1552155 | **VDE 8314-140 H** | 140 | 18.5 | 18.5 | 9.5 | 1,6 | 177 | 1 |
| 1552163 | **VDE 8314-160 H** | 160 | 19.0 | 22.0 | 10.0 | 1,6 | 231 | 1 |

## VDE 8315 H

### VDE ELECTRICIANS' SIDE CUTTER with VDE insulating sleeves

- Double-function electricians' side cutters for cutting and wire stripping
- Stripping holes for single or multi-strand conductors 1.5 and 2.5 $mm^2$
- Induction-hardened precision cutting edges
- GEDORE special hardened and tempered steel, chrome-plated
- Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/ IEC 60900:2004



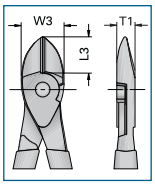
1000 V

| Code | No. | L | $L_3$ | $W_3$ | $T_1$ | $mm^2$ | Ø | | |
|---|---|---|---|---|---|---|---|---|---|
| 1742582 | **VDE 8315-160 H** | 160 | 19 | 22 | 10 | 1,5 / 2,5 | 1,6 | 231 | 1 |

## VDE 8316

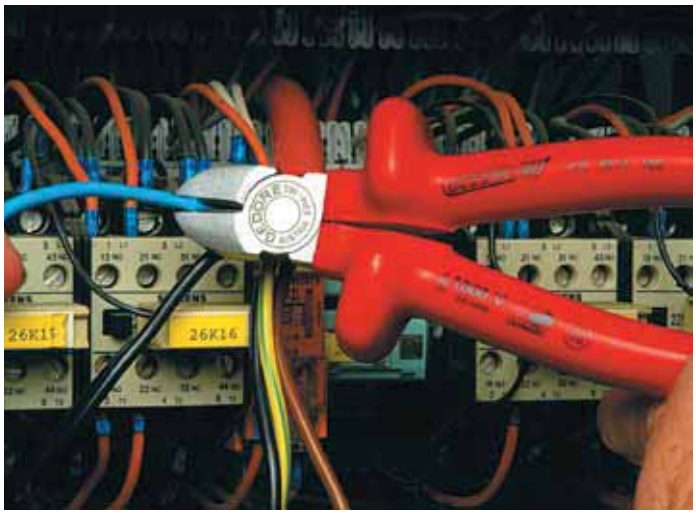
### VDE POWER SIDE CUTTER with VDE dipped insulation

- Good lever action for easy cutting
- Induction-hardened precision cutting edges, hardness 63 - 65 HRC
- For hard wire/piano wire - values see table
- Max. cutting capacity Ø 1.8 - 2.0 mm
- GEDORE special hardened and tempered steel, chrome-plated
- Handles with VDE dipped insulation up to 1000 V, acc. to EN 60900/ IEC 60900:2004, two-ply Check-Tool insulation



1000 V

| Code | No. | L | $L_3$ | $W_3$ | $T_1$ | Ø | | |
|---|---|---|---|---|---|---|---|---|
| 1429590 | **VDE 8316-180** | 180 | 22.6 | 26 | 11 | 1,8 | 285 | 1 |
| 6742570 | **VDE 8316-200** | 200 | 22.0 | 28 | 11 | 2,0 | 341 | 1 |

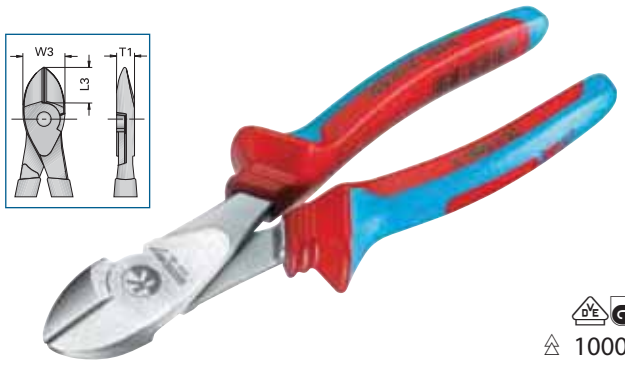



Quantities in packs may vary.

## VDE 8316 H

### VDE POWER SIDE CUTTER with VDE insulating sleeves

- Good lever action for easy cutting
- Induction-hardened precision cutting edges, hardness 63 - 65 HRC
- For hard wire/piano wire - values see table
- Max. cutting capacity Ø 1.8 - 2.0 mm
- GEDORE special hardened and tempered steel, chrome-plated
- Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/ IEC 60900:2004



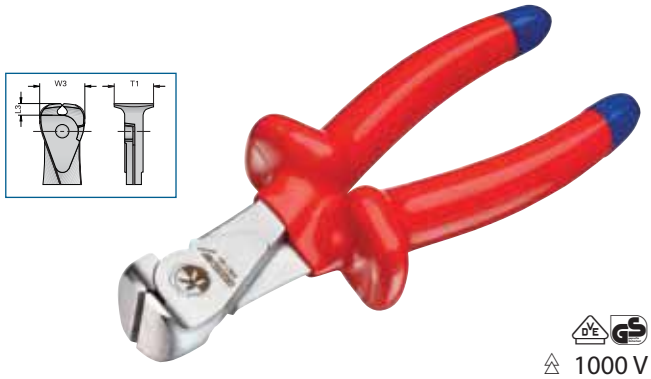

1000 V

| Code | No. | L | $L_3$ | $W_3$ | $T_1$ | Ø | | |
|---|---|---|---|---|---|---|---|---|
| 1550993 | **VDE 8316-180 H** | 180 | 22.6 | 26 | 11 | 1,8 | 267 | 1 |
| 1551000 | **VDE 8316-200 H** | 200 | 22.0 | 28 | 11 | 2,0 | 344 | 1 |

## VDE 8367

### VDE HEAVY DUTY END CUTTING NIPPERS

- Good lever action for easy cutting
- Induction-hardened precision cutting edges, hardness 63 - 65 HRC
- For hard wire/piano wire 1.6 mm
- GEDORE special hardened and tempered steel, drop-forged, oil-hardened and annealed
- Handles with VDE dipped insulation up to 1000 V, acc. to EN 60900/ IEC 60900:2004, two-ply Check-Tool insulation




1000 V

| Code | No. | L | $L_3$ | $W_3$ | $T_1$ | Ø | | |
|---|---|---|---|---|---|---|---|---|
| 2324830 | **VDE 8367-160** | 160 | 6.9 | 27 | 23.5 | 1,6 | 220 | 1 |

## VDE 8120

### VDE FLAT NOSE PLIERS with VDE dipped insulation

- Long, flat jaws and serrated gripping surfaces
- GEDORE special hardened and tempered steel, chrome-plated
- Handles with VDE dipped insulation up to 1000 V, acc. to EN 60900/ IEC 60900:2004, two-ply Check-Tool insulation

1000 V

| Code | No. | L | $L_3$ | $W_3$ | $W_4$ | $T_1$ | | |
|---|---|---|---|---|---|---|---|---|
| 6715330 | **VDE 8120-160** | 160 | 51 | 16.5 | 3.4 | 9 | 185 | 1 |

## VDE 8120 H

### VDE FLAT NOSE PLIERS with VDE insulating sleeves

- Long, flat jaws and serrated gripping surfaces
- GEDORE special hardened and tempered steel, chrome-plated
- Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/ IEC 60900:2004

1000 V

| Code | No. | L | $L_3$ | $W_3$ | $W_4$ | $T_1$ | | |
|---|---|---|---|---|---|---|---|---|
| 1552090 | **VDE 8120-160 H** | 160 | 51 | 16.5 | 3.4 | 9 | 175 | 1 |

## VDE 8122

### VDE ROUND NOSE PLIERS with VDE dipped insulation

- Long, round jaws and serrated gripping surfaces
- GEDORE special hardened and tempered steel, chrome-plated
- Handles with VDE dipped insulation up to 1000 V, acc. to EN 60900/ IEC 60900:2004, two-ply Check-Tool insulation

1000 V

| Code | No. | L | $L_3$ | $W_3$ | $D_1$ | $T_1$ | | |
|---|---|---|---|---|---|---|---|---|
| 6717110 | **VDE 8122-160** | 160 | 48 | 16.5 | 2.5 | 8.7 | 170 | 1 |

## VDE 8122 H

### VDE ROUND NOSE PLIERS with VDE insulating sleeves

- Long, round jaws and serrated gripping surfaces
- GEDORE special hardened and tempered steel, chrome-plated
- Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/IEC 60900:2004

1000 V

| Code | No. | L | $L_3$ | $W_3$ | $D_1$ | $T_1$ | | |
|---|---|---|---|---|---|---|---|---|
| 1552104 | **VDE 8122-160 H** | 160 | 48 | 16.5 | 2.5 | 8.7 | 154 | 1 |

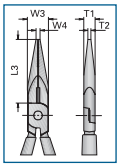


Quantities in packs may vary.

## VDE 8132

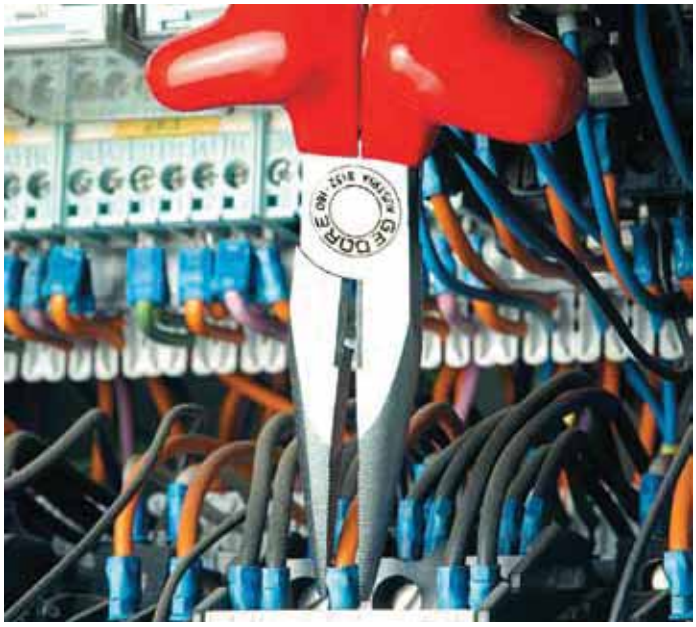
### VDE TELEPHONE PLIERS with VDE dipped insulation, straight pattern

- Long, flat-round jaws, straight gripping faces, serrated
- Induction-hardened precision cutting edges, hardness 61 - 63 HRC
- GEDORE special hardened and tempered steel, chrome-plated
- Handles with VDE dipped insulation up to 1000 V, acc. to EN 60900/ IEC 60900:2004, two-ply Check-Tool insulation



1000 V

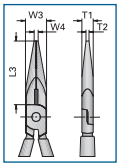
| Code | No. | L | $L_3$ | $W_3$ | $W_4$ | $T_1$ | $T_2$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 6721570 | **VDE 8132-160** | 160 | 50.0 | 16.5 | 3.2 | 9.0 | 2.5 | 193 | 1 |
| 6721650 | **VDE 8132-200** | 200 | 75.7 | 18.5 | 3.7 | 9.5 | 2.8 | 248 | 1 |



## VDE 8132 H

### VDE TELEPHONE PLIERS with VDE insulating sleeves, straight pattern

- Long, flat-round jaws, straight gripping faces, serrated
- Induction-hardened precision cutting edges, hardness 61 - 63 HRC
- GEDORE special hardened and tempered steel, chrome-plated
- Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/ IEC 60900:2004



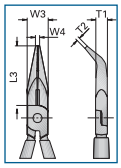
1000 V

| Code | No. | L | $L_3$ | $W_3$ | $W_4$ | $T_1$ | $T_2$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 1552112 | **VDE 8132-160 H** | 160 | 50.0 | 16.5 | 3.2 | 9.0 | 2.5 | 164 | 1 |
| 1552120 | **VDE 8132-200 H** | 200 | 75.7 | 18.5 | 3.7 | 9.5 | 2.8 | 235 | 1 |

## VDE 8132 AB

### VDE BENT NOSE TELEPHONE PLIERS with VDE dipped insulation, angled pattern

- Long, flat-round jaws, angled gripping surfaces, serrated
- Induction-hardened precision cutting edges, hardness 61 - 63 HRC
- GEDORE special hardened and tempered steel, chrome-plated
- Handles with VDE dipped insulation up to 1000 V, acc. to EN 60900/ IEC 60900:2004, two-ply Check-Tool insulation



1000 V

| Code | No. | L | $L_3$ | $W_3$ | $W_4$ | $T_1$ | $T_2$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 6721730 | **VDE 8132 AB-160** | 160 | 46.0 | 16.5 | 3.2 | 9.0 | 2.5 | 177 | 1 |
| 6721810 | **VDE 8132 AB-200** | 200 | 70.5 | 18.5 | 3.7 | 9.5 | 2.8 | 252 | 1 |

## VDE 8132 AB H

### VDE BENT NOSE TELEPHONE PLIERS with VDE insulating sleeves, angled pattern

- Long, flat-round jaws, angled gripping surfaces, serrated
- Induction-hardened precision cutting edges, hardness 61 - 63 HRC
- GEDORE special hardened and tempered steel, chrome-plated
- Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/IEC 60900:2004

1000 V

| Code | No. | L | $L_3$ | $W_3$ | $W_4$ | $T_1$ | $T_2$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 1552139 | **VDE 8132 AB-160 H** | 160 | 46.0 | 16.5 | 3.2 | 9.0 | 2.5 | 173 | 1 |
| 1552147 | **VDE 8132 AB-200 H** | 200 | 70.5 | 18.5 | 3.7 | 9.5 | 2.8 | 235 | 1 |

Quantities in packs may vary.

## VDE S 8003

### VDE PLIERS SET WITH VDE DIPPED INSULATION 3 pieces

- Packed in environmentally-friendly cardboard box
- Handles with VDE dipped insulation up to 1000 V, acc. to EN 60900/ IEC 60900:2004, two-ply Check-Tool insulation

1000 V

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6708120 | **VDE S 8003** | **VDE 8132**-160<br>**VDE 8250**-180<br>**VDE 8314**-160 | 760 | 1 |

## VDE S 8003 H

### VDE PLIERS SET WITH VDE INSULATING SLEEVES 3 pieces

- Packed in environmentally-friendly cardboard box
- Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/ IEC 60900:2004

1000 V

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1550594 | **VDE S 8003 H** | **VDE 8132**-160 H<br>**VDE 8250**-180 H<br>**VDE 8314**-160 H | 747 | 1 |

## RZB2-11

### VDE PLIERS SET 3 pieces

- In rugged plastic case
- Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/IEC 60900:2004

1000 V

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1692291 | **RZB2-11** | **VDE 8132**-160 H<br>**VDE 8250**-180 H<br>**VDE 8314**-160 H | 865 | 1 |

## RZB2-5

### VDE PLIERS SET 3 pieces

- In rugged plastic case
- Handles with VDE insulating sleeves up to 1000 V, acc. to EN 60900/ IEC 60900:2004

1000 V

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1708244 | **RZB2-5** | **VDE 8098**-160 H<br>**VDE 8250**-180 H<br>**VDE 8314**-160 H | 835 | 1 |

## RZB1-17

### VDE TOOL SET 8 pieces

- In rugged plastic case

1000 V

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1828045 | **RZB1-17** | **VDE 8132**-200 H<br>**VDE 8250**-180 H<br>**VDE 8314**-160 H<br>**VDE 2170** 4 5,5<br>**VDE 2160 PH** 1 2<br>**4615** 3 | 1700 | 1 |

| | Contents |
|---|---|
| | **VDE 8132** -200 H |
| | **VDE 8250** -180 H |
| | **VDE 8314** -160 H |
|  | **VDE 2170** 4 5,5 |
|  | **VDE 2160 PH** 1 2 |
|  | **4615** 3 |



Quantities in packs may vary.

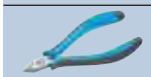
## S 1023

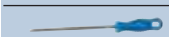
### TOOL ASSORTMENT FOR MECHANICAL ENGINEERS 120 pieces

- Practical entry-level toolset
- The range includes mechanical and electrical engineering tools
- Recommended hook assortment 1500 HS-1023 (53 pieces)
- Also available in tool trolley or on tool boards

| Code | No. | Contents | |
|---|---|---|---|
| 1999060 | **S 1023** | 118 tools in metric sizes | 13.0 |
| 2657619 | **1023-1450-2** | Tool set S 1023 + 2x tool panel 1450 L + hook assortment 1500 HS-1023 | 27.3 |
| 2657627 | **1023-1578** | Tool set S 1023 + tool trolley 1578 | 56.5 |

| | Contents |
|---|---|
| | **1 B** 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 |
| | **D 20** 4 5 6 7 8 9 10 11 12 13 |
| | **680** 4 5,5 6,5 |
| | **685** 3 4 5 6 |
| | **685 X** 5 6 8 |
| | **687 TX** T10 T15 T20 T25 T27 T30 T40 |
| | **690** 1 2 |
| | **690 PZD** 1 2 3 |
| | **620** |
| | **676** |
| | **699** |
|  | **2090** -4 |
| | **2093 U** -20 |
| | **1993 U** -10 T |
| | **19** 8 9 10 11 12 13 14 15 16 17 19 22 24 27 30 32 |
| | **1987** |

| | Contents |
|---|---|
| | **1990** -5 -10 |
| | **1995** |
| | **VDE 8132** -200 H |
| | **VDE 8250** -180 H |
| | **VDE 8314** -160 H |
| | **VDE 2170** 4 5,5 |
| | **VDE 2160 PH** 1 2 |
| | **V 4614 PLUS** |
|  | **4615** 3 |
|  | **171 IS** 1,2 1,5 2 |
| | **165 PH** 00 0 |
| | **8305** -2 |
|  | **8306** -5 |
| | **42** 1,3 1,5 2 (5/64AF) 2,5 3 4 5 6 8 10 |
| | **97** -150 |

| | Contents |
|---|---|
|  | **100** -10 |
| | **119** -3 -5 |
| | **600 H** -500 |
| | **248 ST** -30 |
|  | **8701** 2-8 |
|  | **8719** 2-8 |
|  | **8722** 2-8 |
| | **403** |
| | **4528** |
| | **710** |
|  | **745** |
| | **4534** -3 |
| | **298** -04 |
| | **8354** -1 |
| | **8139** -220 TL |

## S 1093

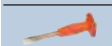
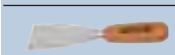
### VDE TOOL ASSORTMENT 26 pieces

- Particularly suited as the initial outfit for electrical specialists
- The GEDORE tool case or tool trolley are suited for mobile assignments
- Recommended hook assortment 1500 HS-1093 (26 pieces)
- Also available with case or on tool board

| Code | No. | Contents | |
|---|---|---|---|
| 2319942 | **S 1093** | 26 tools in metric sizes | 4.8 |
| 2657317 | **1093** | Tool set S 1093 + tool case WK 1091 L | 9.0 |
| 2657309 | **1093-1450** | Tool set S 1093 + tool panel 1450 L + hook assortment 1500 HS-1093 | 11.1 |

| | Contents |
|---|---|
|  | **142** 10 C |
| | **VDE 8250** -180 H |
| | **VDE 8132** -160 H |
| | **VDE 8314** -160 H |
|  | **VDE 2170** 4 5,5 6,5 8 |
|  | **VDE 2160 PZ** 1 2 |

| | Contents |
|---|---|
| | **V 4614 PLUS** |
| | **42** 2 (5/64AF) 2,5 3 4 5 6 8 10 |
| | **4533** -2 |
| | **4528** |

| | Contents |
|---|---|
| | **8097** |
| | **600 H** -500 |
|  | **112 A** -250 |
|  | **110 HS** -318 |
|  | **0175** -06 |

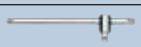
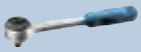
Quantities in packs may vary.

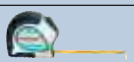
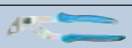
## 1090

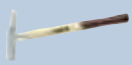
### TOOL CASE ELECTRICIAN 90 pieces

- The perfect tool set for the electrician or property manager
- A thoughtful assortment for the work to be done
- Packed in a strong plastic case with aluminium frame
- Three steel hinges, screwed handle, fitted with built in locks
- May be used wherever the right tools have to be always at hand
- GEDORE vanadium tools, chrome-plated
- Dimensions: W 460 x D 380 x H 200 mm

| Code | No. | Contents | |
|---|---|---|---|
| 6601590 | **1090** | Tool set S 1090<br>+ tool case WK 1090 L | 13.2 |

| | Contents |
|---|---|
| | **401** |
| | **401 A** [10×] |
| | **6** 14x17 18x19 21x23 22x24 |
| | **8** 4 4,5 5 5,5 6 7 8 9 10 11 12 13 |
| | **20** 4 4,5 5 5,5 6 7 8 9 10 11 13 |
|  | **2087** |
| | **2095** |
| | **2098** |
| | **2090** -4 |
|  | **2093 U** -3 |
| | **42** 2 (5/64AF) 2,5 3 4 5 6 7 8 10 |
| | **60 CP** 10 |
| | **156 S** |

| | Contents |
|---|---|
| | **2153** 5,5 |
| | **2161 PH** 1 |
| | **2160 PZ** 1 2 |
| | **VDE 2160 PH** 1 2 |
| | **VDE 2170** 3,5 4 5,5 6,5 |
| | **4615** 3,5 |
| | **173** 5,5 8 |
| | **174** 1 |
|  | **745** |
| | **4522** |
|  | **4534** -3 |
|  | **145** 10 JC |
| | **8096** -140 |

| | Contents |
|---|---|
| | **VDE 8098** -160 |
| | **VDE 8120** -160 |
| | **VDE 8250** -180 |
| | **VDE 8132 AB** -160 |
| | **VDE 8316** -200 |
|  | **95** -175 |
|  | **99** 10-2 10-4 |
| | **101** |
|  | **112 A** -250 |
| | **112 S** |
| | **600 H** -300 |
|  | **72 H** -100 |
| | **E-1090** LK LZ LF LS |

## 1091

### ELECTRICIANS TOOL CASE 18 pieces

- Robust tool case with 18-piece basic assortment
- **Particularly suitable for beginners in electronic professions**
- From eco-friendly tanned cowhide
- Carefully processed with strong industrial seams
- Base insert from zinc-plated sheet steel
- Edges reinforced with aluminium angle brackets, metal parts durable riveted
- With feet to protect sensitive surfaces
- Front part can be lowered for quick access to the tools, with two key locks to prevent inadvertent opening
- Removable carrying strap with shoulder protector and sturdy carrying handle
- Anti-theft protection due to two lockable notches, delivery includes two keys
- Document partition
- Interior measurements 430 x 200 x 290 mm

| Code | No. | Contents | |
|---|---|---|---|
| 1953710 | **1091** | Tool set S 1091<br>+ tool case WK 1091 L | 8.3 |

| | Contents |
|---|---|
| | **VDE 2133** 7 8 10 |
| | **VDE 2160 PH** 1 2 3 |
| | **VDE 2170** 3 4 5,5 |
| | **4528** |
| | **4533** -2 |

| | Contents |
|---|---|
| | **V 4614 PLUS** |
| | **4629** |
| | **8097** |

| | Contents |
|---|---|
| | **VDE 8132** -160 H |
| | **VDE 8250** -180 H |
| | **VDE 8316** -180 H |
|  | **E-1091 ST** |



Quantities in packs may vary.

## VDE 1001

### VDE TOOL SET 14 pieces

- With practical foam insert in sturdy PVC case
- Dimensions: 380 x 285 x 70 mm
- Cranked allen socket screwdriver no. 42 is for locking the adjusting screw of extension VDE 1990, not VDE insulated

1000 V

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6602560 | **VDE 1001** | **VDE 19** 10 12 13 14 17 19 22 24<br>**VDE 1993** U<br>**VDE 1990**-5 -10<br>**VDE 1989** T<br>**VDE 2170** 5,5<br>**42** 2,5 | 3.5 | 1 |

| | Contents |
|---|---|
| | **VDE 19** 10 12 13 14 17 19 22 24 |
| | **VDE 1993 U** |
| | **VDE 1990** -5 -10 |

| | Contents |
|---|---|
| | **VDE 1989 T** |
| | **VDE 2170** 5,5 |
| | **42** 2,5 |

## VDE 1030

### VDE TOOL CABINET 108 pieces

- Complete with a selection of VDE tools
- Dimensions: 190 x 500 x 750 mm

1000 V

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6602130 | **VDE 1030** | 108 tools in cabinet | 46.0 | 1 |
| 5600730 | **VDE 1030 L** | Cabinet, empty | 20.0 | 1 |

| | Contents |
|---|---|
| | **VDE 2133** 5 6 7 8 9 10 11 12 13 |
| | **VDE 19** 10 11 12 13 14 15 17 19 22 24 27 30 32 |
| | **VDE IN 19** 5 6 8 |
| | **VDE 1990** -5 -10 |
| | **VDE 1993 U** |
| | **VDE 2170** 2,5 4 5,5 6,5 |
| | **VDE 2160 PH** 0 1 2 |
| | **VDE 894** 10 11 12 13 14 15 16 17 19 |
| | **VDE 8098** -160 H |
| | **VDE 8132** -160 H |

| | Contents |
|---|---|
| | **VDE 8250** -160 H |
| | **VDE 8314** -160 H |
| | **VDE 4507** -4 |
| | **647** |
| | **171 IS** 1,2 1,5 2 |
| | **165 PH** 00 0 |
| | **8305** -2 |
| | **8306** -5 |
| | **4 K** -500 |
| | **1500 H** 1-50 [6x] 2-13 [17x] 3 [27x] |

Quantities in packs may vary.

# VDE ACCESSORIES

## VDE 910

### VDE RUBBER COVER SHEET

- VDE protective equipment acc. to VDE 0680, Part 1
- Thickness: 1.6 mm

| Code | No. | L | W | | |
|---|---|---|---|---|---|
| 1826816 | **VDE 910 13** | 130 | 130 | 40 | 1 |
| 1826832 | **VDE 910 25** | 250 | 350 | 210 | 1 |
| 1827030 | **VDE 910 50** | 500 | 500 | 430 | 1 |
| 1828193 | **VDE 910 60** | 600 | 600 | 700 | 1 |
| 1828207 | **VDE 910 100** | 1000 | 1000 | 1800 | 1 |
| 1828215 | **VDE 910 120** | 1200 | 1200 | 2950 | 1 |

## VDE 911

### VDE INSULATION MAT

- VDE protective equipment acc. to VDE 0303
- Thickness: 4.5 mm

| Code | No. | L | W | | |
|---|---|---|---|---|---|
| 1828258 | **VDE 911 100** | 1000 | 1000 | 6.0 | 1 |
| 1828266 | **VDE 911 1000** | 10000 | 1000 | 60.0 | 1 |

## VDE 912

### VDE ELECTRICIANS' SAFETY GLOVES

- Acc. to DIN EN 60903
- Made of natural latex

1000 V

| Code | No. | | |
|---|---|---|---|
| 1828274 | **VDE 912 9** | 215 | 1 |
| 1828282 | **VDE 912 10** | 215 | 1 |

## VDE 912

### UNDER-GLOVES for VDE 912

| Code | No. | | |
|---|---|---|---|
| 1828290 | **VDE 912 50** | 50 | 1 |

## V 915

### NH-FUSE INSERTION GLOVE WITH SLEEVE

- To work on NH fuse inserts sizes 00 to 3
- To insert and remove low-tension high-performance fuses (NH fuse inserts)
- Can also be used for other devices applied instead of the fuse inserts, e.g. earthing and short-circuiting devices, inserting or removing blind fuse elements
- With contact blades to DIN 43620 Part 1, sizes 00 - 3 for nominal voltage to 600 V alternating voltage

1000 V

| Code | No. | | |
|---|---|---|---|
| 2661314 | **V 915** | 460 | 1 |

## V 916

### PROTECTIVE BOOTS (PU)

- From polyurethane (PU) with steel cap
- To CE-EN 345-1

1000 V

| Code | No. | Size | | |
|---|---|---|---|---|
| 2661322 | **V 916 39-40** | 39-40 / 6-6.1/2 | 3000 | 1 |
| 2661330 | **V 916 41** | 41 / 7.1/2 | 3000 | 1 |
| 2661349 | **V 916 42** | 42 / 8 | 3000 | 1 |
| 2661357 | **V 916 43** | 43 / 9 | 3000 | 1 |
| 2661365 | **V 916 44-45** | 44-45 / 9.1/2-10.1/2 | 3000 | 1 |
| 2661373 | **V 916 46** | 46 / 11 | 3000 | 1 |
| 2661381 | **V 916 47** | 47 / 12 | 3000 | 1 |

## VDE 913

### VDE PLASTIC CLAMP

- VDE protective equipment acc. to VDE 0680, Part 1

VDE 913 80

VDE 913 160

| Code | No. | mm | | |
|---|---|---|---|---|
| 1828304 | **VDE 913 80** | 80 | 30 | 1 |
| 1828312 | **VDE 913 160** | 160 | 70 | 1 |

- More VDE tools on request!
- Haven't you found the right tool?
- Ask us about custom-orders.
- Your problems are our assignments.



Quantities in packs may vary.

## VDE 914

### VDE METER CONNECTION FITTINGS

- For insulating single cores
- Conical form
- Made from resilient plastic
- VDE 914 1 with Designation 1
- VDE 914 2 with Designation 2
- VDE 914 3 with Designation 3

1000 V

| Code | No. | mm | Ø | |
|---|---|---|---|---|
| 2324938 | **VDE 914 1** | 80 | 10 | 1 |
| 2324946 | **VDE 914 2** | 80 | 10 | 1 |
| 2324954 | **VDE 914 3** | 80 | 10 | 1 |

## V 917

### CABLE SPLITTING WEDGE

- Insulated acc. to IEC 60900:2004
- From polyamide
- Suitable for mounting cable feeder terminals and splaying primary conductor cables
- Assistance when cutting cable cores, no slipping

1000 V

| Code | No. | |
|---|---|---|
| 2661462 | **V 917** | 1 |

## V 4533

### FOLDING RULE

- Insulated folding rule for work on live circuits
- From glass-fibre reinforced plastic
- No metal parts
- Compact 1 m model

| Code | No. | L m | | |
|---|---|---|---|---|
| 2661403 | **V 4533-1** | 1 | 48 | 1 |

## VDE VARIOUS

## VDE 4522

### VDE CABLE KNIFE

- Strong, straight blade made from hardened and tempered steel
- Tough, resilient plastic handle
- VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900:2004

1000 V

| Code | No. | | | | |
|---|---|---|---|---|---|
| 6690400 | **VDE 4522** | 50 | 180 | 104 | 5 |

## VDE 4522 K

### VDE CABLE KNIFE

- Strong, straight blade made from hardened and tempered steel
- 2-component plastic handle
- VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900:2004

1000 V

| Code | No. | | |
|---|---|---|---|
| 2661497 | **VDE 4522 K** | 105 | 1 |

## VDE 4527

### VDE CABLE KNIFE with hooked blade

- For slitting and stripping damp-proof installation cables
- With blade protector
- VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900:2004

1000 V

| Code | No. | | | | |
|---|---|---|---|---|---|
| 6698490 | **VDE 4527** | 40 | 203 | 98 | 1 |

## VDE 4527 K

### VDE CABLE KNIFE with hooked blade

- For slitting and stripping damp-proof installation cables
- Blade from hardened and tempered steel
- With blade protector
- VDE insulation up to 1000 V, acc. to EN 60900/IEC 60900:2004

1000 V

| Code | No. | | |
|---|---|---|---|
| 2661489 | **VDE 4527 K** | 105 | 1 |

## V 406

### HACKSAW

- For pinned hacksaw blades, 148 mm
- Insulated handle up to 1000 V
- Not certified acc. to VDE

1000 V

| Code | No. | mm | | |
|---|---|---|---|---|
| 6120060 | **V 406** | 265 | 229 | 1 |

Quantities in packs may vary.

78

## Tools for pipes a strong grip


| | | |
|---|---|---|
| SERVICE / FEATURES | | 574 – 575, 583 |
| CHAIN PIPE WRENCHES | | 576 – 580 |
| STRAP WRENCHES | | 580 |
| WATER PUMP / UNIVERSAL PLIERS | | 581 – 582 |
| PIPE CUTTERS FOR STEEL AND CAST IRON PIPES | | 583 – 584 |
| PIPE CUTTERS / PIPE DEBURRING REAMER FOR STAINLESS STEEL PIPES | | 584 – 585 |
| PIPE CUTTERS / PIPE DEBURRING REAMER / CALIBRATING TOOL FOR COPPER PIPES | | 586 – 587 |
| PIPE CUTTERS FOR PLASTIC PIPES | | 588 – 589 |
| FLARING TOOLS | | 590 – 591 |
| INSTALLATION TOOLS | | 592 |
| BASIN WRENCHES | | 593 |
| PLUMBING WRENCHES | | 593 – 594 |
| TAP RESEATING TOOLS | | 594 |
| STEPPED KEYS / VALVE SPANNER | | 594 – 595 |
| SHEET METAL FORMING TOOLS | | 596 |
| TIN SNIPS | | 597 |
| ARC PUNCHES | | 598 |
| PIPE CLEANING TOOLS | | 599 |

## Top quality to meet maximum requirements

- Use of the most up-to-date machinery and environmentally-friendly production processes
- Everything is based on tightly controlled and selected materials
- Experienced and reliable specialists vouch for precision-like processing
- Stringent quality checks after each production step ensure a constantly high level
- High-grade industrial quality for the toughest forms of continuous use and safety in everyday work

## Precision, dimensioned accuracy and fitting exactness

- The most important requirements for non-taxing and safe working

## Everything handled down to a tee

- The absence of Chrome 6 in the tools is simply a matter of course for us and has been so for many years.
- Best-possible results are down to the unique manufacturing processes and special treatment for tools

## GEDORE pipe wrenches

## Pipe wrenches subject to full hardening/ tempering

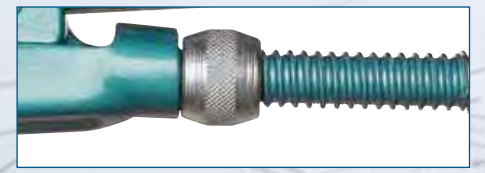
- All GEDORE Swedish pipe wrenches are hardened and tempered across their entire length and cross-section.

## Serrated face flame-hardening

- All GEDORE Swedish pipe wrenches are additionally flame-hardened at the teeth by a hardness unit developed by our Special Machinery Construction section. A uniform distribution of temperature across the entire jaw surface ensures a stress-relieved additional hardening of the surface of the teeth. The DIN specified hardness values are surpassed with ease by GEDORE pipe wrenches. The grip holds up for years even under the rough and tough daily routine.

## Round thread with undetachable adjusting nut

- A non-detachable adjusting nut with round thread ensures a width adjustment. A round thread stands up better than other thread types to mechanical damage and soiling. It allows the adjusting nut on the pliers shaft to run rapidly, evenly and precisely.



## Self-clamping serrated face

- The self-clamping serrated face grips reliably and firmly and this is intensified as the turning resistance is increase. There is no need to press the handles together. GEDORE Swedish pipe wrenches have that non-slip grip - even on smooth pipes.

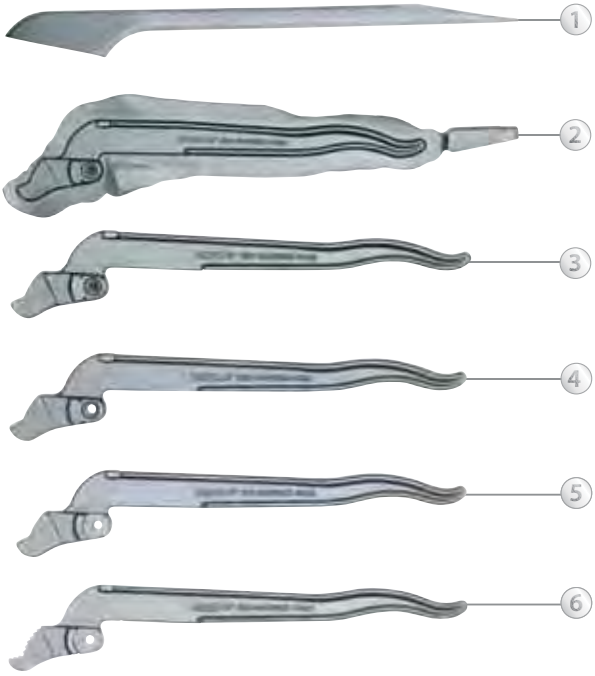
# Manufacturing process for pipe wrenches

The pipe pliers comprise a hook, shaft, sleeve, knurled nut and locking ring. The individual parts are initially manufactured separately. Final machining is carried out on the assembled pipe wrench.

## The Head

1. The blank is stamped in an eccentric press from steel flat stock. The steel used is GEDORE chrome-vanadium special steel. The thick head and slim shaft can already be identified
2. The blank is heated precisely to forging temperature in the continuous furnace and then forged in a forging die
3. The excess material is removed by de-burring. Scale is removed by sand blasting and grinding
4. Thread cutting
5. The slot for the shaft is milled. The teeth are broached

## The Shaft



1. The blank is stamped in an eccentric press from steel flat stock. The steel used is GEDORE chrome-vanadium special steel. The thick head and slim shaft can already be identified.
2. The blank is heated precisely to forging temperature in the continuous furnace and then forged in a forging die.
3. The excess material is removed by de-burring. Scale is removed by sand blasting and grinding.
4. The rivet hole for the sleeve is drilled.
5. The joint is machined to its final geometry in the machining centre.
6. The teeth are broached.

## The Sleeve

1. The sleeve is stamped from steel
2. The sleeve is pre-bent
3. The stamped geometry gives the finished sleeve high flexural strength. It is subsequently hardened in the continuous furnace

## Assembly and end machining:

1. In the area of the slot, the hook is widened and pushed through the shaft. Once this is done, the hook is pressed back to its original size
2. In the continuous furnace, the pipe wrench is heated to hardening temperature, quenched in a water bath and completely hardened through. To achieve the optimum combination of hardness and toughness, the wrench is annealed throughout. The teeth of GEDORE pipe wrenches are then once again flame hardened. The additional hardness this achieves ensures a long tool life. The sleeve is pushed on the shaft and riveted to the hook. Before entering the paint shop, the pipe wrench is straightened, descaled and degreased
3. The pipe wrench is stove enamelled. The side surfaces of the head are ground and treated with a corrosion-protection agent. The final step is to screw on the knurled nut and the locking ring

# Eck-Schwede-snap® - the swedish

Tried and tested bestseller with a powerful grip for more than 50 years

The mouth of the jaw opening is always narrower than the pipe diameter, reliably preventing the workpiece from slipping out. Securely grips pipes and screw couplings

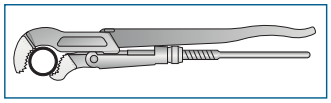
The special, supplementary flame hardening of the teeth increases and improves the grip and durability of the snap®

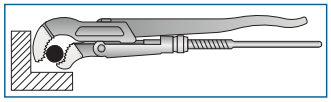
Force is always applied by snap® simultaneously at three points, ensuring a secure grip with low hand pressure

Hook and leg made from drop-forged GEDORE chrome-vanadium special steel, hardened and tempered

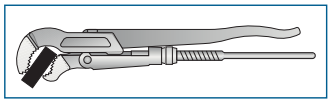
Stove enamelling guarantees long-life protection

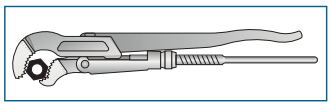
## Working principle





The jaw form of the snap® reliably prevents the workpiece slipping out, and ensures maximum freedom of movement in confined spaces



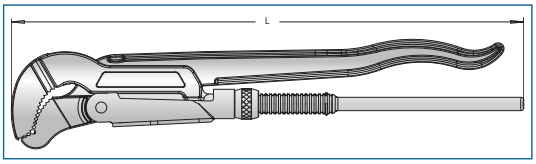


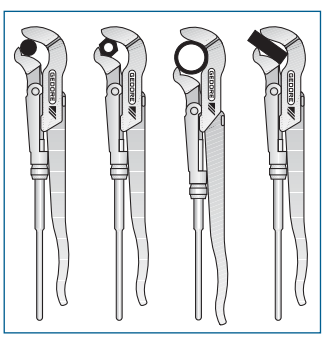
The curvature of the jaws adapts ideally to different profiles, enabling the snap® to grip hexagonal nuts - gently and securely

## 100

### ELBOW PIPE WRENCH ECK-SCHWEDE-SNAP® - THE SWEDISH THE ORIGINAL

- Acc. to DIN 5234, Form C
- Heavy-duty pipe wrench with three-point grip
- For working in confined spaces
- GEDORE chrome-vanadium special steel
- Drop forged
- Tempered, teeth additionally hardened
- Teeth offset against direction of rotation
- Roller secured against loss
- Stove enamelled blue, head ground





| Code | No. | Size | mm | L | | |
|---|---|---|---|---|---|---|
| 4500060 | **100 1/2** | 1/2 | 35 | 245 | 380 | 1 |
| 4500140 | **100 1** | 1 | 48 | 320 | 800 | 1 |
| 4500220 | **100 1.1/2** | 1.1/2 | 60 | 420 | 1400 | 1 |
| 4500300 | **100 2** | 2 | 80 | 550 | 2240 | 1 |
| 4500490 | **100 3** | 3 | 110 | 630 | 3580 | 1 |

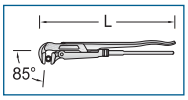


Quantities in packs may vary.

## 175

### PIPE WRENCH Swedish pattern

- Acc. to DIN 5234 Form A
- Especially sturdy type for heavy use
- Head angled 85°
- GEDORE chrome-vanadium special steel
- Drop forged
- Tempered, teeth additionally hardened
- Teeth offset against direction of rotation
- Roller secured against loss
- Stove enamelled blue

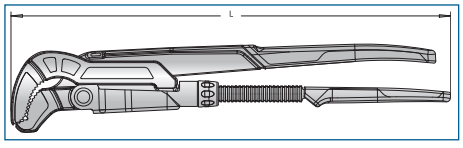



| Code | No. | Size | mm | L | | |
|---|---|---|---|---|---|---|
| 6437260 | **175 3/4** | 3/4 | 38 | 280 | 505 | 1 |
| 6437340 | **175 1** | 1 | 44 | 320 | 695 | 1 |
| 6437420 | **175 1.1/2** | 1.1/2 | 62 | 430 | 1470 | 1 |
| 6437500 | **175 2** | 2 | 76 | 580 | 2550 | 1 |
| 6437690 | **175 3** | 3 | 105 | 670 | 3780 | 1 |
| 6437770 | **175 4** | 4 | 130 | 760 | 5635 | 1 |

## 9100

### PIPE WRENCH S

- Acc. to DIN 5234, Form C
- For working in confined spaces
- GEDORE chrome-vanadium special steel
- Drop forged
- Tempered, teeth additionally hardened
- Teeth offset against direction of rotation
- Non-slip surfaces, in sizes 1" and 1.1/2" with 2-component handles
- Roller secured against loss
- Stove enamelled blue




| Code | No. | Size | mm | L | | |
|---|---|---|---|---|---|---|
| 2530252 | **9100 1/2** | 1/2 | 35 | 245 | 400 | 1 |
| 2530260 | **9100 1** | 1 | 48 | 320 | 800 | 1 |
| 2530279 | **9100 1.1/2** | 1.1/2 | 60 | 420 | 1400 | 1 |
| 2530287 | **9100 2** | 2 | 80 | 550 | 2200 | 1 |
| 2530295 | **9100 3** | 3 | 110 | 630 | 3600 | 1 |

## 176

### ELBOW PIPE WRENCH

- Acc. to DIN 5234 Form B
- For working in confined spaces
- Narrow head, multi-grip jaw pattern, angled 52°
- GEDORE chrome-vanadium special steel
- Drop forged
- Tempered, teeth additionally hardened
- Teeth offset against direction of rotation
- Roller secured against loss
- Stove enamelled blue

| Code | No. | Size | mm | L | | |
|---|---|---|---|---|---|---|
| 6438070 | **176 3/4** | 3/4 | 38 | 280 | 445 | 1 |
| 6438150 | **176 1** | 1 | 44 | 320 | 775 | 1 |
| 6438230 | **176 1.1/2** | 1.1/2 | 62 | 430 | 1405 | 1 |
| 6438310 | **176 2** | 2 | 76 | 580 | 2570 | 1 |
| 6438580 | **176 3** | 3 | 105 | 670 | 3640 | 1 |

## E-100 / E-175 / E-9100

### SET OF SPARES

- A = Adjuster screw
- B = Locking ring

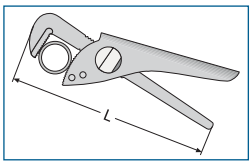
| Code | No. | | | | | | |
|---|---|---|---|---|---|---|---|
| 2133792 | **E-100 A 1/2** | 1/2 | | | | 10 | 1 |
| 1682938 | **E-100 A 1** | 1 | | 1 | | 30 | 1 |
| 1737597 | **E-100 A 1.1/2** | 1.1/2 | | 1.1/2 | | 40 | 1 |
| 1628984 | **E-100 A 2** | 2 + 3 | | 2 | | 70 | 1 |
| 5435000 | **E-175 A 3/4** | | 3/4 | 3/4 | | 10 | 1 |
| 5435190 | **E-175 A 1** | | 1 | | | 30 | 1 |
| 5435270 | **E-175 A 1.1/2** | | 1.1/2 | | | 40 | 1 |
| 5435350 | **E-175 A 2** | | 2 | | | 70 | 1 |
| 5435430 | **E-175 A 3** | | 3 | 3 | | 70 | 1 |
| 1391607 | **E-175 A 4** | | 4 | | | 80 | 1 |
| 2601028 | **E-9100 A 1/2** | | | | 1/2 | 3 | 1 |
| 2601273 | **E-9100 A 1** | | | | 1 | 10 | 1 |
| 2601281 | **E-9100 A 1.1/2** | | | | 1.1/2 | 12 | 1 |
| 2601311 | **E-9100 A 2** | | | | 2 + 3 | 25 | 1 |
| 5436240 | **E-100 B 1/2** | 1/2 | 3/4 + 1 | 3/4 | 1/2 | 1 | 1 |
| 5436400 | **E-100 B 1** | 1 | 1.1/2 | 1 | | 1 | 1 |
| 5436590 | **E-100 B 1.1/2** | 1.1/2 | 2 | 1.1/2 | | 1 | 1 |
| 5436670 | **E-100 B 2** | 2 + 3 | 3 + 4 | 2 + 3 | 2 + 3 | 1 | 1 |

Quantities in packs may vary.

## 152

### HIGH-SPEED PIPE WRENCH with screw adjuster

- GEDORIT powder-coated blue hammer finish
- Forged components
- Induction-rehardened serrated faces
- Quick and easy setting with screw adjuster - single-hand adjustment
- Gripping faces selfinhibiting

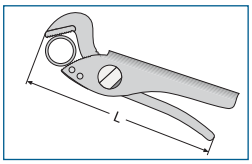



| Code | No. | L | L" | mm | "inch | Pipes | Sockets | | |
|---|---|---|---|---|---|---|---|---|---|
| 6419280 | **152 7** | 178 | 7 | 35 | 1.3/8 | 1" | 3/4" | 300 | 1 |
| 6419360 | **152 9** | 228 | 9 | 42 | 1.5/8 | 1.1/4" | 1" | 531 | 1 |
| 6419440 | **152 11** | 281 | 11 | 61 | 2.3/8 | 2" | 1.3/4" | 851 | 1 |
| 6419520 | **152 12** | 315 | 12 | 74 | 3 | 2.1/2" | 2" | 1038 | 1 |
| 6419600 | **152 14** | 360 | 14 | 90 | 3.9/16 | 3" | – | 1656 | 1 |

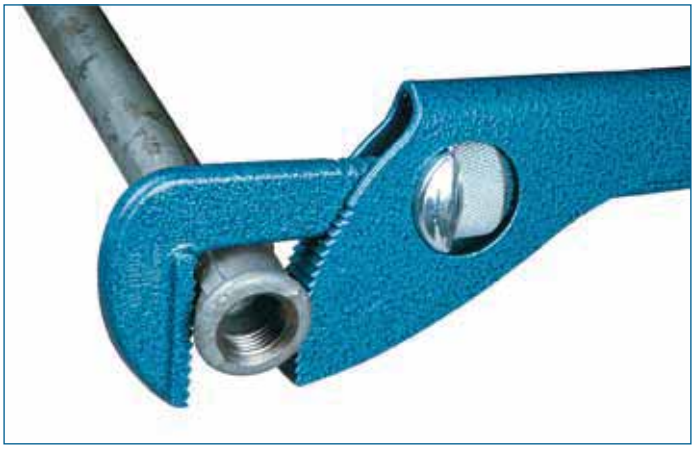
## 152 G

### HIGH-SPEED PIPE WRENCH curved, with screw adjuster

- GEDORIT powder-coated blue hammer finish
- Forged components
- Induction-rehardened serrated faces
- Quick and easy setting with screw adjuster - single-hand adjustment
- Gripping faces selfinhibiting



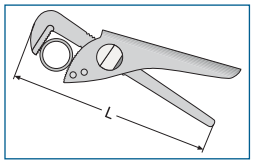

| Code | No. | L | L" | mm | "inch | Pipes | Sockets | | |
|---|---|---|---|---|---|---|---|---|---|
| 1394835 | **152 G-7** | 175 | 7 | 35 | 1.3/8 | 1" | 3/4" | 273 | 1 |
| 1394843 | **152 G-9** | 225 | 9 | 42 | 1.5/8 | 1.1/4" | 1" | 556 | 1 |
| 1394851 | **152 G-12** | 300 | 12 | 74 | 3 | 2" | 2" | 1033 | 1 |



## 152 NI

### HIGH-SPEED PIPE WRENCH NICKEL-PLATED with screw adjuster

- Nickel-plated
- Forged components
- Induction-rehardened serrated faces
- Quick and easy setting with screw adjuster - single-hand adjustment
- Gripping faces selfinhibiting




| Code | No. | L | L" | mm | "inch | Pipes | Sockets | | |
|---|---|---|---|---|---|---|---|---|---|
| 1826700 | **152 9 NI** | 228 | 9 | 42 | 1.5/8 | 1.1/4" | 1" | 520 | 1 |
| 1826727 | **152 12 NI** | 315 | 12 | 74 | 3 | 2.1/2" | 2" | 1000 | 1 |

Quantities in packs may vary.

## 225

### PIPE WRENCH STILLSON

- Stillson type, forged parts tempered
- Teeth offset against direction of rotation and induction-hardened
- GEDORE special hardened and tempered steel
- Ground upto and including 24"

| Code | No. | mm | inch | mm | inch | Ø inch | | |
|---|---|---|---|---|---|---|---|---|
| 6450280 | **225 8** | 180 | 8 | 27 | 1.1/16 | 3/4 | 297 | 1 |
| 6450360 | **225 10** | 240 | 10 | 35 | 1.3/8 | 1 | 584 | 1 |
| 6450440 | **225 12** | 280 | 12 | 44 | 1.3/4 | 1.1/4 | 760 | 1 |
| 6450520 | **225 14** | 320 | 14 | 48 | 1.7/8 | 1.1/2 | 1097 | 1 |
| 6450600 | **225 18** | 410 | 18 | 60 | 2.3/8 | 2 | 1691 | 1 |
| 6450790 | **225 24** | 540 | 24 | 76 | 3 | 2.1/2 | 2825 | 1 |
| 6450870 | **225 36** | 920 | 36 | 100 | 4 | 3.1/2 | 6995 | 1 |
| 6450950 | **225 48** | 1220 | 48 | 145 | 5.3/4 | 5 | 11125 | 1 |

## 227

### PIPE WRENCH American pattern

- Extra heavy type
- Forged parts tempered
- Teeth offset against direction of rotation and induction-hardened
- Handle made from malleable cast iron
- GEDORE special hardened and tempered steel, ground
- Handles stove enamelled

| Code | No. | mm | mm | Ø inch | | |
|---|---|---|---|---|---|---|
| 6453030 | **227 8** | 190 | 38 | 1 | 440 | 1 |
| 6453110 | **227 10** | 245 | 48 | 1.1/2 | 850 | 1 |
| 6453460 | **227 14** | 325 | 60 | 2 | 1751 | 1 |
| 6453540 | **227 18** | 415 | 76 | 2.1/2 | 2701 | 1 |
| 6453620 | **227 24** | 560 | 89 | 3 | 4280 | 1 |

## E-225

### PARTS

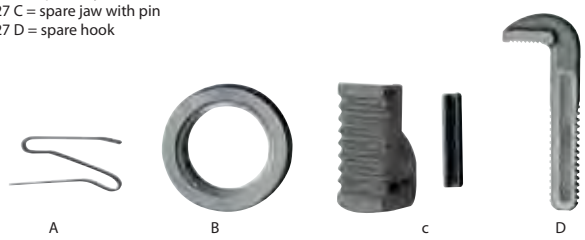
- Combine the spare part order no. with the correct size:
- E-225 AD = housing and rivet
- E-227 B = roller
- E-227 C = jaw
- E-227 D = rivet and spring

| Code | No. | Description | |
|---|---|---|---|
| 1490923 | **E-225 AD 8** | Housing and rivet 8" | 50 |
| 1490931 | **E-225 AD 10** | Housing and rivet 10" | 117 |
| 1490958 | **E-225 AD 12** | Housing and rivet 12" | 156 |
| 1490966 | **E-225 AD 14** | Housing and rivet 14" | 130 |
| 1490974 | **E-225 AD 18** | Housing and rivet 18" | 250 |
| 1490982 | **E-225 AD 24** | Housing and rivet 24" | 430 |
| 5440860 | **E-225 AD 36** | Housing and rivet 36" | 660 |
| 5440940 | **E-225 AD 48** | Housing and rivet 48" | 860 |
| 1490834 | **E-225 B 8** | Roller 8" | 10 |
| 1490842 | **E-225 B 10** | Roller 10" | 25 |
| 1490850 | **E-225 B 12** | Roller 12" | 35 |
| 1490869 | **E-225 B 14** | Roller 14" | 45 |
| 1490877 | **E-225 B 18** | Roller 18" | 60 |
| 1490885 | **E-225 B 24** | Roller 24" | 135 |
| 5448840 | **E-225 B 36** | Roller 36" | 240 |
| 5448920 | **E-225 B 48** | Roller 48" | 310 |
| 1490753 | **E-225 C 8** | Jaw 8" | 85 |
| 1490761 | **E-225 C 10** | Jaw 10" | 190 |
| 1490788 | **E-225 C 12** | Jaw 12" | 260 |
| 1490796 | **E-225 C 14** | Jaw 14" | 340 |
| 1490818 | **E-225 C 18** | Jaw 18" | 470 |
| 1490826 | **E-225 C 24** | Jaw 24" | 830 |
| 5449730 | **E-225 C 36** | Jaw 36" | 1600 |
| 5449810 | **E-225 C 48** | Jaw 48" | 2500 |
| 1490990 | **E-225 EF 8** | Rivet and spring 8" | 3 |
| 1491008 | **E-225 EF 10** | Rivet and spring 10" | 3 |
| 1491016 | **E-225 EF 12** | Rivet and spring 12" | 3 |
| 1491040 | **E-225 EF 14** | Rivet and spring 14" | 3 |
| 1491024 | **E-225 EF 18** | Rivet and spring 18" | 3 |
| 1491032 | **E-225 EF 24** | Rivet and spring 24" | 3 |
| 5452870 | **E-225 EF 36** | Rivet and spring 36" | 10 |
| 5452950 | **E-225 EF 48** | Rivet and spring 48" | 10 |

## E-227

### PARTS

- Combine the spare part order no. with the correct size:
- E-227 A = spare spring
- E-227 B = spare adjuster screw
- E-227 C = spare jaw with pin
- E-227 D = spare hook




| Code | No. | Description | |
|---|---|---|---|
| 1491245 | **E-227 A 8** | Spring 8" | 1 |
| 1491253 | **E-227 A 10** | Spring 10" | 2 |
| 1491261 | **E-227 A 14** | Spring 14" | 5 |
| 1491296 | **E-227 A 18** | Spring 18" | 6 |
| 1491318 | **E-227 A 24** | Spring 24" | 8 |
| 1491121 | **E-227 B 8** | Roller 8" | 12 |
| 1491148 | **E-227 B 10** | Roller 10" | 25 |
| 1491164 | **E-227 B 14** | Roller 14" | 50 |
| 1491172 | **E-227 B 18** | Roller 18" | 80 |
| 1491180 | **E-227 B 24** | Roller 24" | 140 |
| 1491199 | **E-227 C 8** | Jaw with pin 8" | 25 |
| 1491202 | **E-227 C 10** | Jaw with pin 10" | 35 |
| 1491210 | **E-227 C 14** | Jaw with pin 14" | 60 |
| 1491229 | **E-227 C 18** | Jaw with pin 18" | 85 |
| 1491237 | **E-227 C 24** | Jaw with pin 24" | 150 |
| 1491067 | **E-227 D 8** | Hook 8" | 110 |
| 1491075 | **E-227 D 10** | Hook 10" | 210 |
| 1491091 | **E-227 D 14** | Hook 14" | 440 |
| 1491105 | **E-227 D 18** | Hook 18" | 720 |
| 1491113 | **E-227 D 24** | Hook 24" | 1000 |


137 • 138 • 139

394 – 396

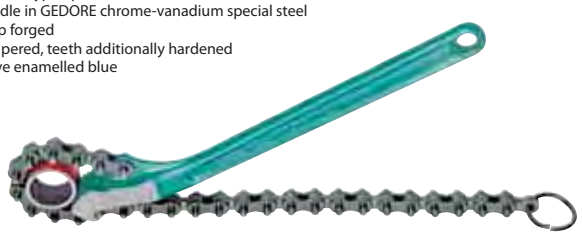

Quantities in packs may vary.

# CHAIN PIPE WRENCHES

## 120

### CHAIN PIPE WRENCH BOSS

- Ideal for use in areas with restricted access
- Ratchet-type operation
- Handle in GEDORE chrome-vanadium special steel
- Drop forged
- Tempered, teeth additionally hardened
- Stove enamelled blue



| Code | No. | Size | Ø mm | ↔mm↔ | | |
|---|---|---|---|---|---|---|
| 4502350 | **120000** | 3/8-4 | 17-114 | 300 | 720 | 1 |

## E 120

### SPARE CHAIN BOSS

| Code | No. | ↔mm↔ | | |
|---|---|---|---|---|
| 4535280 | **120200** | 450 | 320 | 1 |

## 122

### CHAIN PIPE WRENCH American pattern

- High efficiency due to maximum-possible lever action
- Tempered steel acc. to EN 10083
- With hardened exchangeable jaws, toothed on both sides
- Stove enamelled blue

| Code | No. | Size | Ø mm | ↔"inch↔ | ↔mm↔ | | |
|---|---|---|---|---|---|---|---|
| 4535360 | **122002** | 1/8-2 | 10-60 | 20 | 510 | 2.5 | 1 |
| 4535440 | **122003** | 1/4-3 | 13-89 | 28 | 710 | 4.0 | 1 |
| 4502430 | **122004** | 3/4-4 | 27-114 | 37 | 940 | 6.6 | 1 |
| 4502510 | **122006** | 1-6 | 33-168 | 43 | 1090 | 9.1 | 1 |
| 4548340 | **122008** | 1.1/2-8 | 48-219 | 50 | 1275 | 13.0 | 1 |
| 4548420 | **122012** | 2-12 | 60-324 | 63 | 1600 | 22.1 | 1 |

## E 122

### PARTS

- Spare chain no. 122202 - 122212
- Spare jaws (pair) no. 122302 - 122312

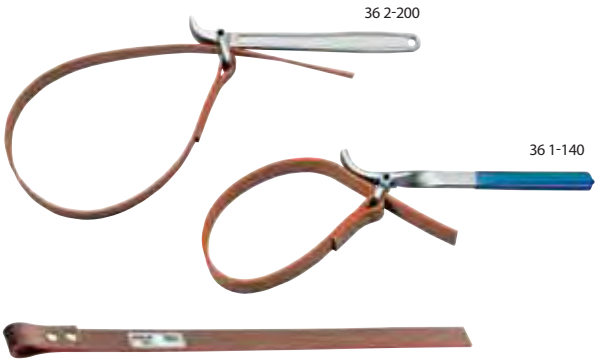
| Code | No. | Description | ↔mm↔ | | |
|---|---|---|---|---|---|
| 4548500 | **122202** | Spare chain 1/8-2" | 380 | 0.7 | 1 |
| 4548690 | **122203** | Spare chain 1/4-3" | 490 | 1.0 | 1 |
| 4548770 | **122204** | Spare chain 3/4-4" | 610 | 1.4 | 1 |
| 4548850 | **122206** | Spare chain 1-6" | 850 | 2.2 | 1 |
| 4548930 | **122208** | Spare chain 1.1/2-8" | 1080 | 3.3 | 1 |
| 4549070 | **122212** | Spare chain 2-12" | 1450 | 5.7 | 1 |
| 4549150 | **122302** | Spare jaws (pair) 1/8-2" | | 0.3 | 1 |
| 4549230 | **122303** | Spare jaws (pair) 1/4-3" | | 1.0 | 1 |
| 4549310 | **122304** | Spare jaws (pair) 3/4-4" | | 1.5 | 1 |
| 4549580 | **122306** | Spare jaws (pair) 1-6" | | 2.1 | 1 |
| 4549660 | **122308** | Spare jaws (pair) 1.1/2-8" | | 2.6 | 1 |
| 4549740 | **122312** | Spare jaws (pair) 2-12" | | 4.5 | 1 |

# STRAP WRENCHES

## 36

### STRAP WRENCH

- With strong, non-slip fabric strap, extra wide = 25 mm
- 36 1-140 made from C45 steel
- 36 2-200 made from GEDORE vanadium steel 31CrV3
- Chrome-plated
- Spare straps E-36 1 / E-36 2




| Code | No. | mm | ↔mm↔ | Ø mm | Ø inch | | |
|---|---|---|---|---|---|---|---|
| 6327320 | **36 1-140** | 25 | 220 | 140 | 9/64 | 278 | 1 |
| 6327400 | **36 2-200** | 25 | 285 | 200 | 13/64 | 578 | 1 |
| 5327380 | **E-36 1-140** | 25 | 480 | | | 62 | 1 |
| 5327460 | **E-36 2-200** | 25 | 900 | | | 104 | 1 |

## 126

### STRAP WRENCH

- Very gentle to surfaces, particularly suitable for chrome-plated fittings and polished surfaces
- Handle in light metal, enamelled blue
- With high-strength nylon strap

| Code | No. | mm | Ø inch | Ø mm | ↔mm↔ | | |
|---|---|---|---|---|---|---|---|
| 1468308 | **126008** | 27 | 8 | 220 | 300 | 325 | 1 |

## E 126

### SPARE STRAP

- High-strength nylon strap

| Code | No. | mm | ↔mm↔ | | |
|---|---|---|---|---|---|
| 1468316 | **126208** | 27 | 950 | 35 | 1 |

36 Z

635

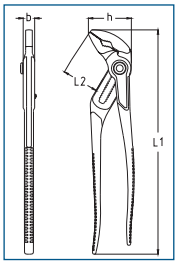
Quantities in packs may vary.

# WATER PUMP / UNIVERSAL PLIERS

## 142

### UNIVERSAL PLIERS

- Acc. to DIN ISO 8976 Form C
- With safety box joint and protection against blocking
- Fine adjustment
- 142 10 = 15 settings
- 142 12 = 17 settings
- Single-hand push-button adjustment
- Long slim jaws
- Model C = slim handles with forged serrations
- Model TL = clear varnished, with blue dipped handle protectors
- Model JC = chrome-plated, 2-component handles
- Offset gripping faces for self-gripping of nuts and pipes
- GEDORE chrome-vanadium special steel
- Induction-rehardened serrated faces




| Code | No. | $L_1$ | $L_2$ | b | h | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6416180 | **142 10 TL** | 255 | 39 | 7.5 | 48 | 38 | 371 | 5 |
| 6416260 | **142 10 C** | 250 | 39 | 7.5 | 48 | 38 | 380 | 5 |
| 6416340 | **142 10 JC** | 260 | 39 | 7.5 | 48 | 38 | 417 | 5 |
| 1995413 | **142 12 TL** | 309 | 43 | 8.5 | 55 | 44 | 550 | 1 |
| 1995553 | **142 12 C** | 300 | 43 | 8.5 | 55 | 44 | 530 | 1 |

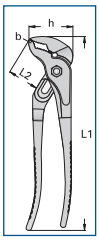
920 • 923

541

## 143

### UNIVERSAL PLIERS 6 settings

- Acc. to DIN ISO 8976 Form B
- Slim head
- Forged twin-groove lay-on slip joint and toothed recess
- Offset gripping faces for self-gripping of nuts and pipes
- With finger protection
- For pipes up to 1.1/2" and nuts up to 38 mm
- GEDORE chrome-vanadium special steel, chrome-plated
- Induction-rehardened serrated faces
- Model C = slim handles with forged serrations
- Model JC = chrome-plated, 2-component handles

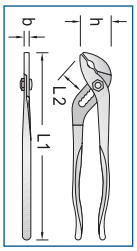



| Code | No. | $L_1$ | $L_2$ | b | h | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6410650 | **143 10 C** | 256 | 40 | 10.6 | 56 | 38 | 340 | 5 |
| 6415880 | **143 10 JC** | 262 | 40 | 10.6 | 56 | 38 | 390 | 5 |

## 144

### MECHANICS PLIERS 7 settings

- Acc. to DIN ISO 8976 Form A
- Lay-on slip joint and straight, serrated jaws
- GEDORE chrome-vanadium special steel
- Induction-rehardened serrated faces



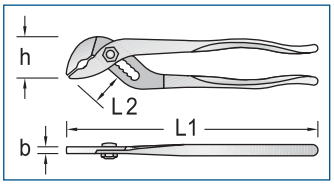

| Code | No. | $L_1$ | $L_2$ | b | h | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6411110 | **144 4.1/2 C** | 113 | 13 | 3.8 | 23 | 16 | 42 | 1 |
| 6411380 | **144 7 C** | 175 | 22 | 5.5 | 35 | 26 | 138 | 1 |

Quantities in packs may vary.

## 145

### WATER PUMP PLIERS

- Acc. to DIN ISO 8976 Form A
- Lay-on slip joint and toothed recess
- Induction-rehardened serrated faces, with finger protection
- GEDORE chrome-vanadium special steel, chrome-plated
- Model C = handles cross-hatched
- Model JC = with 2-component handle sleeves
- 145 10 = 7 settings, with extra narrow jaws
- 145 15 = 9 settings
- 145 20 = 11 settings




| Code | No. | $L_1$ | $L_2$ | b | h | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6412000 | **145 10 C** | 250 | 41 | 7.8 | 47 | 39 | 365 | 5 |
| 6415610 | **145 10 JC** | 260 | 41 | 7.8 | 47 | 39 | 425 | 5 |
| 6412190 | **145 15 C** | 375 | 46 | 10.4 | 72 | 50 | 854 | 1 |
| 6412270 | **145 20 C** | 500 | 55 | 13.8 | 98 | 65 | 1747 | 1 |

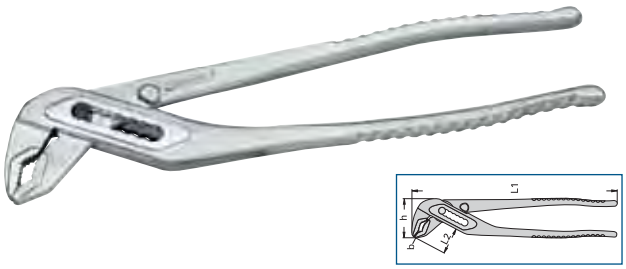
8248 • 8250

361
363

## 146

### UNIVERSAL PLIERS 7 settings

- Acc. to DIN ISO 8976 Form C
- With safety box joint and finger protection
- Automatic clamping with offset gripping surfaces
- GEDORE chrome-vanadium special steel, chrome-plated, with polished surface
- Induction-rehardened serrated faces
- Model C = slim handles with forged serrations
- Model JC = chrome-plated, 2-component handles



| Code | No. | | $L_1$ | $L_2$ | b | h | mm | | |
|---|---|---|---|---|---|---|---|---|---|
| 6413240 | **146 10 C** | | 250 | 32.5 | 4.8 | 48 | 31 | 335 | 5 |
| 2672626 | **146 10 JC** | | 250 | 32.5 | 4.8 | 48 | 31 | | 5 |

## 146 B

### SPECIAL WATER PUMP PLIERS 5 settings

- Acc. to DIN ISO 8976 Form C
- With fast adjustment and tooth-lock box joint and toothed aperture
- Absolutely safe - no slipping out of adjustment during work
- With finger protection
- GEDORE chrome-vanadium special steel, chrome-plated, polished

| Code | No. | $L_1$ | $L_2$ | b | h | mm | | |
|---|---|---|---|---|---|---|---|---|
| 6412510 | **146 B 10** | 250 | 45 | 8 | 55 | 50 | 485 | 1 |

## 9144

### WATER PUMP PLIERS

- To DIN ISO 8976
- Chrome-vanadium steel
- With box joint
- Drop forged

| Code | No. | $L_1$ | $L_2$ | b | h | mm | | |
|---|---|---|---|---|---|---|---|---|
| 4533230 | **914417** | 175 | 28 | 7.0 | 33 | 26 | 150 | 5 |
| 4533310 | **914424** | 240 | 35 | 7.5 | 40 | 33 | 290 | 5 |
| 4533580 | **914430** | 300 | 40 | 9.0 | 60 | 45 | 480 | 5 |



Quantities in packs may vary.

## Applications of the GEDORE pipe cutters

| | No. 210 | No. 217 | No. 218 | No. 220 | No. 222 | No. 224 | No. 225010 | 225011 | No. 226100 | No. 226535 | No. 2268 | No. 227 | No. 228 | No. 229 | No. 2300 | No. 2303 | No. 231 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Steel pipes | 3"-8"* | | | 1/8"-4"* | 1/8"-4"* | | | | | | | | | | | | |
| Cast iron pipes EN 545 | DN80-250* | | | DN40-100* | DN40-100* | | | | | | | | | | | | |
| SML pipes EN 877 | DN80-250* | | | DN40-100* | DN40-100* | | | | | | | | | | | | |
| Electrical installation pipes EN 60423 | | | M 12-50* | | | M 12-50* | | M 12-32 | | | | | | | | M 12-63* | |
| Multi-layer composite pipes | | 6-67 mm | | | | | | | | bis 35 mm | bis 63 mm* | 6-140 mm* | | | | | |
| Plastic pipes | | 6-67mm | | | | | | | 16-25 mm | bis 35 mm | bis 63 mm* | 6-140 mm* | | | | | |
| Copper pipes EN 1057 | | | 4-60 mm* | | | 16-66 mm* | 6-35 mm | 6-35 mm | | | | | 6-140 mm* | 4-35 mm | 4-65 mm* | 4-65 mm* | 4-16 mm |
| Sheathed copper pipes | | | * | | | * | * | * | | | | | * | * | * | 4-65 mm* | * |
| Thin-walled NF pipes | | | 4-60 mm* | | | 16-66 mm* | 6-35 mm | 6-35 mm | | | | | 6-140 mm* | 4-35 mm | 4-65 mm* | 4-65 mm* | 4-16 mm |
| Hydraulic pipes EN 10305-1 (DIN 2391) | | | 4-60 mm* | 10-114 mm* | 10-114 mm* | 16-66 mm* | 6-35 mm | 6-35 mm | | | | | 6-140 mm* | 4-35 mm | 4-65 mm* | 4-65 mm* | 4-16 mm |
| Precision steel pipes EN 10305-3 (DIN 2394) | | | 4-60 mm* | 10-114 mm* | 10-114 mm* | 16-66 mm* | 6-35 mm | 6-35 mm | | | | | 6-140 mm* | 4-35 mm | 4-65 mm* | 4-65 mm* | 4-16 mm |
| Stainless steel pipes EN 10088-3 (DIN 17 440) | | | 4-60 mm* | | | 16-66 mm* | | 6-35 mm | | | | | | | | 4-65 mm* | |

*) depending on size / finish / pipe properties

# PIPE CUTTERS FOR STEEL AND CAST IRON PIPES

## 210

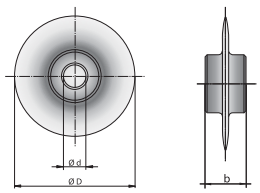
### LINK PIPE CUTTER for steel, SML and cast iron pipes

- Low space requirements due to ratchet-type operation
- Depending on requirements, may be shortened or extended
- Usable for pipes from approx. 80 mm internal diameter
- Stove enamelled blue

| Code | No. | up to Ø mm | Cutting wheels | | |
|---|---|---|---|---|---|
| 4536170 | **210010** | 100 | 3 | 4.9 | 1 |
| 4550910 | **210012** | 125 | 4 | 5.3 | 1 |
| 4536250 | **210015** | 150 | 5 | 5.7 | 1 |
| 4551050 | **210017** | 175 | 6 | 6.1 | 1 |
| 4536330 | **210020** | 200 | 7 | 6.5 | 1 |
| 4551130 | **210025** | 250 | 9 | 7.3 | 1 |
| 4551210 | **210030** | 300 | 11 | 8.1 | 1 |

## E 210

### SPARE PARTS




| Code | No. | Ø D | b | Ø d | | |
|---|---|---|---|---|---|---|
| 4536410 | **210200** Cutting wheel for steel | 50 | 11 | 11 | 80 | 1 |
| 4551480 | **210500** Spare link | | | | 290 | 1 |
| 4536680 | **210600** Spare bolt | | | | 27 | 1 |

920 • 923

541

Quantities in packs may vary.

## 220

### PIPE CUTTER TUBEX® for steel, SML and cast iron pipes

- Heavy-duty pipe cutter with 1 cutting wheel
- In sizes 2" and 4", by exchanging the cutting wheels, may also be used for stainless steel pipes
- Frame in malleable cast steel, size 1.1/4 forged from steel
- With elastic feed using especially-installed spring system (size 2")
- Spindle protected by sleeve extension
- Stove enamelled blue, spindle gun-metal finished

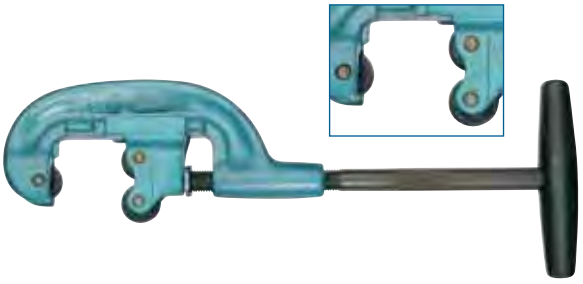
- Version with 3 cutting wheels see no. 222

| Code | No. | Size | Ø mm | mm | | |
|---|---|---|---|---|---|---|
| 4503320 | **220012** | 1/8-1.1/4 | 10-42 | 275 | 1.3 | 1 |
| 4503400 | **220020** | 1/8-2 | 10-60 | 380 | 2.9 | 1 |
| 4503590 | **220040** | 1.1/4-4 | 42-114 | 520 | 5.0 | 1 |

## 222

### PIPE CUTTER TUBEX® for steel, SML and cast iron pipes

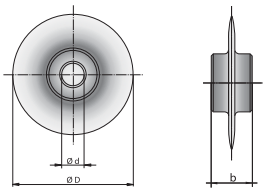
- Heavy-duty pipe cutter with 3 cutting wheels
- Ideal for working in confined, hard-to-reach places, since the cutter does not need to be turned through 360°
- In sizes 2" and 4", by exchanging the cutting wheels, may also be used for stainless steel pipes
- Frame in malleable cast steel, size 1.1/4" forged
- With elastic feed using especially-installed spring system (size 2")
- Spindle protected by sleeve extension
- Stove enamelled blue, spindle gun-metal finished



| Code | No. | Size | Ø mm | mm | | |
|---|---|---|---|---|---|---|
| 4553260 | **222012** | 1/8-1.1/4 | 10-42 | 275 | 1.2 | 1 |
| 4537060 | **222020** | 1/8-2 | 10-60 | 380 | 2.7 | 1 |
| 4553420 | **222040** | 1.1/4-4 | 42-114 | 520 | 4.8 | 1 |

## E 220 - E 223

### SPARE PARTS




| Code | No. | Ø D | b | Ø d | | |
|---|---|---|---|---|---|---|
| 4503670 | **220212** Cutting wheel 1/8-1.1/4" | 25 | 14 | 7,5 | 13 | 1 |
| 4503750 | **220220** Cutting wheel 1/8-2" | 32 | 19 | 9,0 | 28 | 1 |

| Code | No. | Ø D | b | Ø d | | |
|---|---|---|---|---|---|---|
| 1524038 | **220221** Cutting wheel for niro 1/8-2" | 32 | 19 | 9,0 | 28 | 1 |
| 4503830 | **220240** Cutting wheel 1.1/4-4" | 41 | 19 | 9,0 | 38 | 1 |
| 1516884 | **220241** Cutting wheel for niro 1.1/4-4" | 41 | 19 | 9,0 | 40 | 1 |
| 4552370 | **220612** Wheel and pressure roller bolt 1/8-1.1/4" | | | | 8 | 1 |
| 4552450 | **220620** Wheel bolt 1/8-2" | | | | 15 | 1 |
| 4552530 | **220640** Wheel and pressure roller bolt 1.1/4-4" | | | | 19 | 1 |

# PIPE CUTTERS FOR STAINLESS STEEL PIPES

## 224

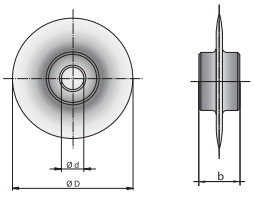
### RATCHET PIPE CUTTER NIRO for stainless steel pipes

- Low space requirements, therefore highly suitable for working on vehicle exhaust gas systems
- Body in zinc-plated pressure-cast aluminium
- Easy handling via ratchet feed with automatic infeed of the cutting wheel with every rotation
- For pipes 16 - 35 mm Ø (size 1) or 35 - 66 mm Ø (size 2)
- Cutting wheel made from high-alloy stainless steel, with high service life
- One spare cutting wheel in addition

| Code | No. | Ø mm | mm | | |
|---|---|---|---|---|---|
| 1600877 | **224011** | 16-35 | 260 | 930 | 1 |
| 1600885 | **224021** | 25-66 | 360 | 1710 | 1 |

## E 224

### SPARE PARTS




| Code | No. | Ø D | b | Ø d | | |
|---|---|---|---|---|---|---|
| 1621440 | **224211** Cutting wheel size 1 + 2 | 26 | 6.3 | 4,8 | 7 | 1 |
| 1621459 | **224611** Wheel bolt size 1 + 2 | | | | 3 | 1 |



Quantities in packs may vary.

## 218

### HEAVY-DUTY PIPE CUTTER for stainless steel pipes

- Easy cutting due to ball-bearing pressure rollers and cutting wheels
- Body in pressure-cast aluminium
- Cutting wheel with high service life
- No. 218030 with quick-release

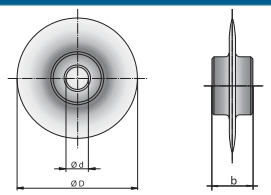
218030

218010

| Code | No. | Ø mm | mm | | |
|---|---|---|---|---|---|
| 1949748 | **218010** | 4-32 | 140 | 310 | 1 |
| 1949764 | **218020** | 5-45 | 170 | 390 | 1 |
| 1949772 | **218030** | 16-60 | 225 | 1100 | 1 |

## E 218

### SPARE PARTS




| Code | No. | Ø D | b | Ø d | | |
|---|---|---|---|---|---|---|
| 1949780 | **218210**<br>Cutting wheel for 218010+020 | 22.0 | 7.9 | 5 | 5 | 1 |
| 1949799 | **218230**<br>Cutting wheel for 218030 | 27.5 | 7.9 | 5 | 7 | 1 |
| 1974025 | **218610**<br>Spare bolt for 218010+020 | | | | 3 | 1 |
| 1974033 | **218630**<br>Spare bolt for 218030 | | | | 5 | 1 |

## 225

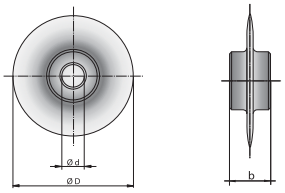
### PIPE CUTTER NIRO for stainless steel pipes

- Special compact design
- Body in pressure-cast zinc
- With retractable deburring tool, spare cutting wheel in handle
- Cutting wheel with high service life
- Enamelled blue

| Code | No. | Ø mm | mm | | |
|---|---|---|---|---|---|
| 1568418 | **225011** | 6-35 | 185 | 435 | 1 |

## E 225

### SPARE PARTS




| Code | No. | Ø D | b | Ø d | | |
|---|---|---|---|---|---|---|
| 2304414 | **225211**<br>Cutting wheel for stainless steel | 20 | 4.8 | 5,1 | 5 | 1 |
| 1467840 | **225610**<br>Wheel bolt | | | | 3 | 1 |

## 2303

### PIPE CUTTER QUICK AUTOMATIC NIRO for stainless steel pipes

- Body in pressure-cast zinc
- Cutting wheel made from high-alloy stainless steel, with high service life
- Automatic infeed by plate springs
- Enamelled blue

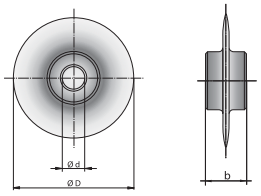
Gr. 2

Gr. 1

| Code | No. | Size | Ø mm | mm | | |
|---|---|---|---|---|---|---|
| 1154990 | **230311** | 1 | 4-32 | 165 | 430 | 1 |
| 1154850 | **230321** | 2 | 13-65 | 275 | 1420 | 1 |

## E 2303

### SPARE PARTS




| Code | No. | for size | Ø D | b | Ø d | | |
|---|---|---|---|---|---|---|---|
| 1154710 | **230411**<br>Cutting wheel for stainless steel | 1 | 20 | 4.8 | 5,1 | 5 | 1 |
| 1154680 | **230421**<br>Cutting wheel for stainless steel | 2 | 32 | 9.9 | 6,1 | 18 | 1 |
| 1154656 | **230611**<br>Wheel bolt | 1 | | | | 3 | 1 |
| 1154540 | **230621**<br>Wheel bolt | 2 | | | | 3 | 1 |

# PIPE DEBURRING REAMER FOR STAINLESS STEEL PIPES

## 2325

### PIPE DEBURRING REAMER for stainless steel pipes

- For internal and external deburring of stainless steel pipes
- Aluminium body
- Hardened taper section with 40 deburring blades

| Code | No. | Ø mm | mm | | |
|---|---|---|---|---|---|
| 1857681 | **232501** | 8-35 | 60 | 180 | 1 |
| 1419684 | **232500** | 10-56 | 85 | 420 | 1 |

Quantities in packs may vary.

# PIPE CUTTERS FOR COPPER PIPES

## 225

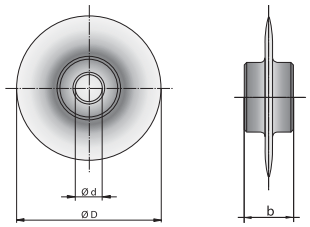
### PIPE CUTTER for copper pipes

- Special compact design
- Body in pressure-cast zinc
- For copper, brass, and light-alloy pipes, PVC hard plastic and plastic-coated pipes, thin-walled steel pipes, (precision steel and hydraulic pipes), composite pipes
- With retractable deburring tool, spare cutting wheel in handle
- Enamelled blue

| Code | No. | Ø mm | mm | | |
|---|---|---|---|---|---|
| 1460412 | **225010** | 6-35 | 185 | 435 | 1 |

## E 225

### SPARE PARTS




| Code | No. | Ø D | b | Ø d | | |
|---|---|---|---|---|---|---|
| 1467824 | **225210** Cutting wheel | 19.5 | 4.8 | 5 | 5 | 1 |
| 1467840 | **225610** Wheel bolt | | | | 3 | 1 |

## 228

### PIPE CUTTER for copper pipes

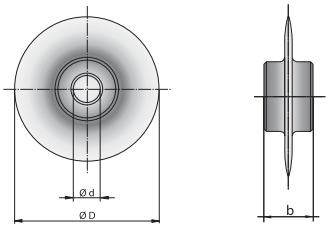
- With high-speed adjustment feature
- Frame in light-alloy
- No. 228020 with retractable deburring knife and spare cutting wheel in the handle
- Cutting wheels for plastic pipes can be used

228020

| Code | No. | Ø mm | mm | | |
|---|---|---|---|---|---|
| 4629770 | **228020** | 6-50 | 175 | 375 | 1 |
| 4629930 | **228055** | 50-140 | 350 | 1345 | 1 |

## E 228

### SPARE PARTS




| Code | No. | Ø D | b | Ø d | | |
|---|---|---|---|---|---|---|
| 4630000 | **228220** Cutting wheel for copper | 18 | 6.1 | 4,9 | 4 | 1 |
| 4630190 | **228230** Cutting wheel for copper | 23 | 11.0 | 8,0 | 11 | 1 |
| 4632130 | **227620** Wheel bolt for 227020 + 228020 | | | | 3 | 1 |
| 4632210 | **227630** Wheel bolt for 227055 + 228055 | | | | 10 | 1 |

## 229

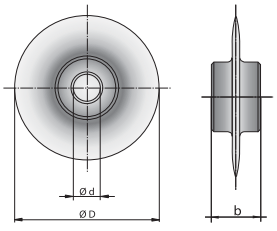
### PIPE CUTTER for copper pipes

- Body in pressure-cast zinc
- With mill in handle
- Stove enamelled blue

| Code | No. | Ø mm | mm | | |
|---|---|---|---|---|---|
| 4503910 | **229010** | 4-35 | 135 | 350 | 1 |

## E 229

### SPARE PARTS




| Code | No. | Ø D | b | Ø d | | |
|---|---|---|---|---|---|---|
| 4504640 | **230210** Cutting wheel | 20 | 4.8 | 5,1 | 5 | 1 |
| 1154656 | **230611** Wheel bolt | | | | 3 | 1 |

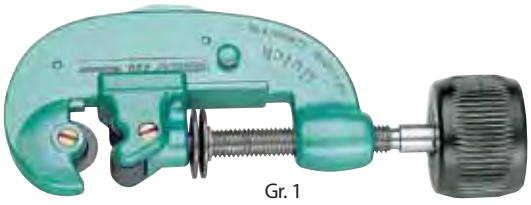


Quantities in packs may vary.

## 2300

### PIPE CUTTER QUICK AUTOMATIC

- Tool body in pressure-cast zinc
- Cutting wheels in chrome-alloyed stainless steel
- For cutting copper, brass, and light-alloy pipes, PVC hard plastic and plastic-coated (WICU®) pipes, thin-walled steel pipes, (e.g. Ermeto pipes), composite pipes, stainless steel pipes
- With automatic infeed by plate springs, retractable deburring knife
- Stove enamelled blue



Gr. 1

Gr. 2

| Code | No. | Size | Ø mm | mm | | |
|---|---|---|---|---|---|---|
| 4504050 | **230010** | 1 | 4-32 | 165 | 435 | 1 |
| 4504130 | **230020** | 2 | 13-65 | 275 | 1460 | 1 |

## 231

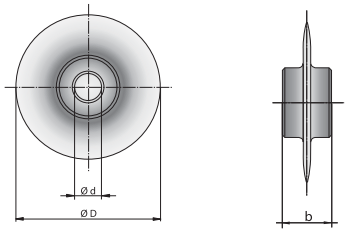
### MINIATURE PIPE CUTTER MINI-QUICK

- Particularly suitable for barely accessible places
- For copper, brass, and light-alloy pipes, thin-walled steel pipes (precision steel and hydraulic pipes)
- Body in pressure-cast zinc
- Cutting wheel in chrome-alloyed stainless steel
- Stove enamelled blue

| Code | No. | Ø mm | mm | | |
|---|---|---|---|---|---|
| 4504560 | **231000** | 4-16 | 50 | 125 | 1 |

## E 2300

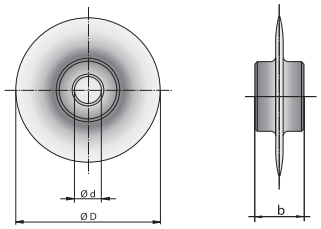
### SPARE PARTS




| Code | No. | for size | Ø D | b | Ø d | | |
|---|---|---|---|---|---|---|---|
| 4504640 | **230210** Cutting wheel | 1 | 20 | 4.8 | 5,1 | 5 | 1 |
| 4504800 | **230220** Cutting wheel | 2 | 32 | 9.9 | 6,1 | 18 | 1 |
| 1154656 | **230611** Wheel bolt | 1 | | | | 3 | 1 |
| 1154540 | **230621** Wheel bolt | 2 | | | | 3 | 1 |

## E 231

### SPARE PARTS




| Code | No. | Ø D | b | Ø d | | |
|---|---|---|---|---|---|---|
| 4504640 | **230210** Cutting wheel | 20 | 4.8 | 5,1 | 5 | 1 |
| 1154710 | **230411** Cutting wheel for stainless steel | 20 | 4.8 | 5,1 | 5 | 1 |
| 1154656 | **230611** Wheel bolt | | | | 3 | 1 |

# CALIBRATING TOOLS FOR COPPER PIPES

## 239

### CALIBRATING TOOL

- For exact calibrating of tube ends
- For semi-hard and soft copper pipes
- Gun-metal finish

| Code | No. | Ø mm | | |
|---|---|---|---|---|
| 4506260 | **239010** | 10 x 1 | 62 | 1 |
| 4506340 | **239012** | 12 x 1 | 67 | 1 |
| 4506420 | **239015** | 15 x 1 | 138 | 1 |
| 4506500 | **239018** | 18 x 1 | 179 | 1 |
| 4506690 | **239022** | 22 x 1 | 270 | 1 |
| 4506770 | **239028** | 28 x 1,5 | 485 | 1 |

# PIPE DEBURRING REAMER FOR COPPER PIPES

## 2320

### PIPE DEBURRING REAMER

- For internal and external deburring of thin-walled pipes
- Plastic body

| Code | No. | Ø mm | mm | | |
|---|---|---|---|---|---|
| 1439510 | **232001** | 4-32 | 45 | 30 | 1 |

Quantities in packs may vary.

# PIPE CUTTERS FOR PLASTIC PIPES

## 217

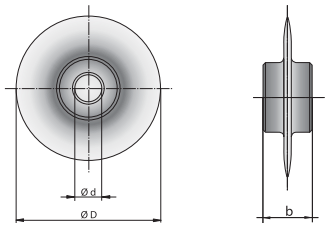
### PIPE CUTTER MSR for composite pipes

- With quick-release
- To cleanly cut multi-layer composite pipes
- Wide field of application for the most common pipe dimensions

| Code | No. | Ø mm | mm | | |
|---|---|---|---|---|---|
| 2599201 | **217** | 6-67 | 250 | 880 | 1 |

## E-217

### SPARE PARTS




| Code | No. | Ø D | b | Ø d | | |
|---|---|---|---|---|---|---|
| 2599228 | **E-217 A**<br>Cutting wheel | 26 | 6.1 | 5,0 | 7 | 1 |
| 2599236 | **E-217 B**<br>Wheel and pressure roller bolt | | | | 3 | 1 |

922 → 541

2784 • 286 • 258 → 609 618 626

## 2261

### SHEARS SET for plastic pipes

- To cleanly cut hard and soft plastic pipes, rubber hoses with or without textile reinforcement, and as well as various plastic profiled sections, such as cable ducts, for example
- Contains form blocks for 16, 19 and 25 mm pipes, 1 prism for profiles and 1 angle stop adjustable up to 45°
- Delivery in plastic case no. 226090

| Code | No. | | |
|---|---|---|---|
| 1637983 | **226100** | 1.1 | 1 |

## E 2261

### PARTS

| Code | No. | | |
|---|---|---|---|
| 1680137 | **226005**<br>Spare knife | 50 | 1 |

## 2265

### PIPE CUTTER for plastic pipes

- Body in pressure-cast aluminium
- For clean and chip-free cutting of PVC pipes, synthetic-resin pipes, water hose, etc.
- Cutting knife driven via ratchet feed
- Easy replacement of the cutting knife no. 226635 without dismantling the cutter
- Enamelled blue

| Code | No. | up to Ø mm | mm | | |
|---|---|---|---|---|---|
| 1220470 | **226535** | 35 | 195 | 680 | 1 |

## E 2265

### SPARE PARTS

| Code | No. | | |
|---|---|---|---|
| 1231162 | **226635**<br>Spare knife for 226535 | 30 | 1 |



Quantities in packs may vary.

## 2268

### PIPE SHEARS for plastic pipes

- Smooth and accurate cutting, one hand operation
- Suitable to cut plastic pipes PE, PP, PVC, PVDF, PB and VPE
- Also suitable for hoses
- Body from aluminium

226836

226842

226863

| Code | No. | up to Ø mm | mm | | |
|---|---|---|---|---|---|
| 2304465 | **226836** | 36 | 195 | 280 | 1 |
| 1746073 | **226842** | 42 | 225 | 500 | 1 |
| 1952684 | **226863** | 63 | 275 | 650 | 1 |

## E 2268

### SPARE PARTS

| Code | No. | | |
|---|---|---|---|
| 2312263 | **226936**<br>Spare knife for 226836 | 50 | 1 |
| 1952692 | **226942**<br>Spare knife for 226842 | 80 | 1 |
| 1952706 | **226963**<br>Spare knife for 226863 | 160 | 1 |

## 227

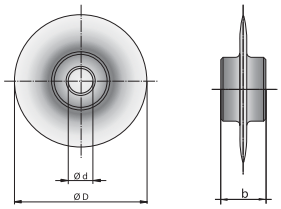
### PIPE CUTTER for plastic pipes

- With high-speed adjustment feature
- Frame in light-alloy
- No. 227020 with fold-out deburring knife and spare cutting wheel in the handle
- Cutting wheels for copper pipes no. 228220 + 228230 can be used

| Code | No. | Ø mm | mm | | |
|---|---|---|---|---|---|
| 4629260 | **227020** | 6-50 | 175 | 375 | 1 |
| 4629180 | **227055** | 50-140 | 350 | 1345 | 1 |

## E 227

### SPARE PARTS




| Code | No. | Ø D | b | Ø d | | |
|---|---|---|---|---|---|---|
| 4629420 | **227220**<br>Cutting wheel for 227020 | 22 | 6.1 | 4,9 | 5 | 1 |
| 4629690 | **227255**<br>Cutting wheel for 227055 | 53 | 11.0 | 8,0 | 20 | 1 |
| 4632130 | **227620**<br>Wheel bolt for 227020 + 228020 | | | | 3 | 1 |
| 4632210 | **227630**<br>Wheel bolt for 227055 + 228055 | | | | 10 | 1 |

Quantities in packs may vary.

# FLARING TOOLS

## 2333

### FLARING TOOL SET BOERDEX®

- For flaring copper and light-alloy pipes of various hardnesses
- Body in pressure-cast zinc, stove enamelled blue
- Flange cone 90° hardened
- Clamping jaws made from steel, smooth inside, phosphated
- Opening angle 90° = 45° angled from pipe
- With cone no. 233200 for 180° flaring = 90° angle from pipe
- Delivery in sheet steel case no. 233909

- Flaring tools for brake lines see no. 234

| Code | No. | | |
|---|---|---|---|
| 4555550 | **233301**<br>**for metric pipes** 4, 4,75, 6, 8, 10, 12, 14 mm<br>1 basic frame No. 233000<br>1 clamping jaw 4-14 mm No. 233101<br>1 pipe cutter 4-32 mm No. 230010<br>1 cone 180° No. 233200<br>1 sheet steel case No. 233909 | 2.9 | 1 |
| 1919733 | **233309**<br>**for metric pipes** 15, 16, 17, 18, 19 mm<br>1 basic frame No. 233000<br>1 clamping jaw 15-19 mm No. 233109<br>1 pipe cutter 4-32 mm No. 230010<br>1 cone 180° No. 233200<br>1 sheet steel case No. 233909 | 2.9 | 1 |
| 4556280 | **233307**<br>**for inch pipes** 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4"<br>1 basic frame No. 233000<br>1 clamping jaw 3/16-3/4" No. 233107<br>1 pipe cutter 4-32 mm No. 230010<br>1 cone 180° No. 233200<br>1 sheet steel case No. 233909 | 3.0 | 1 |

## 2330

### FLARING TOOL BOERDEX®

- For flaring copper and light-alloy pipes of various hardnesses
- Body in pressure-cast zinc, stove enamelled blue
- Flange cone 90° hardened
- Clamping jaws made from steel, smooth inside, phosphated
- Opening angle 90° = 45° angled from pipe

- Flaring tools for brake lines see no. 234

| Code | No. | | |
|---|---|---|---|
| 4537300 | **233001**<br>**for metric pipes** 4, 4,75, 6, 8, 10, 12, 14 mm<br>1 basic frame No. 233000<br>1 clamping jaw 4-14 mm No. 233101 | 1.4 | 1 |
| 1919725 | **233009**<br>**for metric pipes**15, 16, 17, 18, 19 mm<br>1 basic frame No. 233000<br>1 clamping jaw 15-19 mm No. 233109 | 1.4 | 1 |
| 4554660 | **233007**<br>**for inch pipes** 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4"<br>1 basic frame No. 233000<br>1 clamping jaw 3/16-3/4" No. 233107 | 1.5 | 1 |

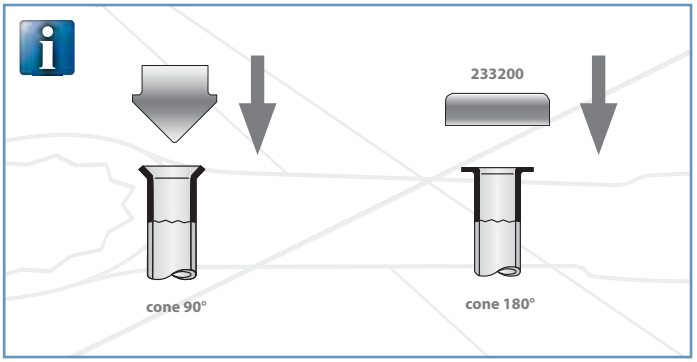
## E 233

### PARTS

233101-109

233200

| Code | No. | | |
|---|---|---|---|
| 4554150 | **233000**<br>Flaring tool | 660 | 1 |
| 4554820 | **233101**<br>Clamping jaw 4-14 mm | 620 | 1 |
| 1885162 | **233109**<br>Clamping jaw 15-19 mm | 560 | 1 |
| 4555470 | **233107**<br>Clamping jaw 3/16" - 3/4" | 680 | 1 |
| 4505450 | **233200**<br>Cone for 180° flaring (= 90° angled from pipe) | 15 | 1 |
| 4504050 | **230010**<br>Pipe cutter QUICK AUTOMATIC 4-32 mm | 435 | 1 |
| 4556360 | **233909**<br>Sheet steel case | 1040 | 1 |





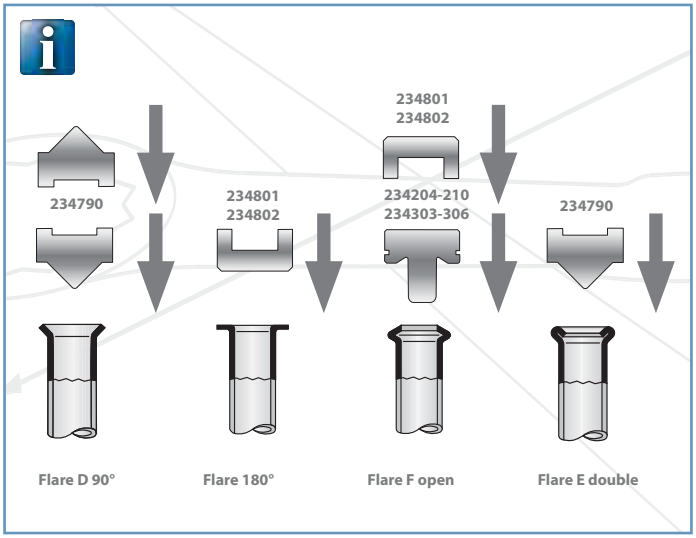

Quantities in packs may vary.

## 234

### DOUBLE FLARING TOOL SET

- For standard-compliant (DIN 74234) double flaring tools on brake lines, coolant lines, hydraulic and pneumatic pipes with a wall thickness of 0.7 to 1.0 mm
- Body in tempered cast iron GTW 40, stove enamelled blue
- Clamping jaws made from steel, smooth inside, phosphated
- Complete set for metric and/or inch pipes
- Delivery in sheet steel case no. 234901

| Code | No. | | |
|---|---|---|---|
| 4505530 | **234001**<br>**for metric pipes**<br>1 basic frame No. 234000<br>1 clamping jaw metric No. 234101<br>6 cones 4,75-10 mm No. 234204-234210<br>2 cones, No. 234790 + 234801<br>1 miniature pipe cutter 4-16 mm No. 231000<br>1 pipe deburring reamer 4-32 mm No. 232001<br>1 sheet steel case No. 234901 | 3.0 | 1 |
| 4537570 | **234002**<br>**for inch pipes**<br>1 basic frame No. 234000<br>1 clamping jaw inch No. 234102<br>4 cones 3/16-3/8" No. 234303-234306<br>2 cones No. 234790 + 234802<br>1 miniature pipe cutter 4-16 mm No. 231000<br>1 pipe deburring reamer 4-32 mm No. 232001<br>1 sheet steel case No. 234901 | 3.0 | 1 |
| 4662980 | **234013**<br>**for metric + inch pipes**<br>1 basic frame No. 234000<br>2 clamping jaws No. 234101 + 234102<br>6 cones 4,75-10 mm No. 234204-234210<br>4 cones 3/16-3/8" No. 234303-234306<br>3 cones No. 234790 + 234801-802<br>1 miniature pipe cutter 4-16 mm No. 231000<br>1 pipe deburring reamer 4-32 mm No. 232001<br>1 sheet steel case No. 234901 | 4.2 | 1 |




## E 234

### PARTS

2340 + 2341

2341

2342/2343

234790

2348

| Code | No. | | |
|---|---|---|---|
| 4556440 | **234000**<br>Basic frame | 880 | 1 |
| 4556520 | **234101**<br>Clamping jaw metric | 760 | 1 |
| 4556600 | **234102**<br>Clamping jaw inch | 760 | 1 |
| 4556790 | **234204**<br>Cone 4,75 mm for flare types E + F | 18 | 1 |
| 4556870 | **234205**<br>Cone 5 mm for flare types E + F | 18 | 1 |
| 4556950 | **234206**<br>Cone 6 mm for flare types E + F | 18 | 1 |
| 4557090 | **234208**<br>Cone 8 mm for flare types E + F | 18 | 1 |
| 4557170 | **234209**<br>Cone 9 mm for flare types E + F | 18 | 1 |
| 4557250 | **234210**<br>Cone 10 mm for flare types E + F | 18 | 1 |
| 4557330 | **234303**<br>Cone 3/16" for flare types E + F | 18 | 1 |
| 4557410 | **234304**<br>Cone 1/4" for flare types E + F | 18 | 1 |
| 4557680 | **234305**<br>Cone 5/16" for flare types E + F | 18 | 1 |
| 4557760 | **234306**<br>Cone 3/8" for flare types E + F | 18 | 1 |
| 4557840 | **234790**<br>Cone (adjustment gauge) for flare types 90° + 180° and cone 90° + flare E | 16 | 1 |
| 4557920 | **234801**<br>Cone (adjustment gauge), metric, 180°, for flare types E + F | 11 | 1 |
| 4558060 | **234802**<br>Cone (adjustment gauge), inch, 180°, for flare types E+F | 11 | 1 |
| 4504560 | **231000**<br>Pipe cutter MINI-QUICK, 4-16 mm | 125 | 1 |
| 1439510 | **232001**<br>Pipe deburring reamer 4-32 mm | 30 | 1 |
| 4558140 | **234901**<br>Sheet steel case | 1040 | 1 |

923

541

Quantities in packs may vary.

# INSTALLATION TOOLS

## 312

### VALVE HOLDER VENTI-QUICK

- In aluminium
- Drain valve holder and screw-in wrench for eccentric and standard valves 1.1/4"
- Usable from top or bottom

| Code | No. | mm | | |
|---|---|---|---|---|
| 4508980 | **312000** | 120 | 260 | 1 |

## 314

### CORNER VALVE SOCKET WRENCH

- Chrome-vanadium steel 31CrV3, hardened, zinc-plated
- For surface-protective assembling of all usual corner valves
- With chamfered driving edges
- 1/2" internal square drive

| Code | No. | mm | | |
|---|---|---|---|---|
| 1147471 | **314000** | 82 | 150 | 1 |

## 3170

### INSTALLATION WRENCH

- For bathroom fittings attachment (stud screws) M10 or M12
- Open end spanner size 17x19 mm

| Code | No. | for stud screws | Size | mm | | |
|---|---|---|---|---|---|---|
| 4509360 | **317000** | M10 | 17x19 mm | 220 | 260 | 1 |
| 4609310 | **317012** | M12 | 17x19 mm | 220 | 315 | 1 |

## 3175

### INSTALLATION WRENCH

- For corner valves and bathroom fittings attachment (stud screws) M10 or M12
- With reversible ratchet ring wrench size 17 mm or 19 mm and open ended spanner size 19 mm with special jaw design
- Chrome-vanadium steel 31CrV3, matt chrome-plated

| Code | No. | for stud screws | Size | mm | | |
|---|---|---|---|---|---|---|
| 4509520 | **317500** | M10 | 17x19 mm | 235 | 270 | 1 |
| 4609580 | **317512** | M12 | 19x19 mm | 235 | 260 | 1 |

## 3171

### STUD SCREW WRENCH

- For bathroom fittings attachment (stud screws) M6, M8, M10, M12
- With pivotable thread insert
- Nickel-plated

| Code | No. | mm | | |
|---|---|---|---|---|
| 4509440 | **317100** | 220 | 300 | 1 |

## 3173 - 3174

### STUD SCREW INSERTER

- Self-gripping
- For the fast and easy insertion and removal of studs, bolts, etc.
- No. 3173 with exchangeable hexagon drive
- No. 3174 with SDS-PLUS® holder

| Code | No. | Size | | |
|---|---|---|---|---|
| 1523171 | **317306** with hexagon drive | M6 | 130 | 1 |
| 1523198 | **317308** with hexagon drive | M8 | 130 | 1 |
| 1523201 | **317310** with hexagon drive | M10 | 130 | 1 |
| 1523228 | **317312** with hexagon drive | M12 | 130 | 1 |
| 1523236 | **317406** with SDS-plus holder | M6 | 130 | 1 |
| 1523244 | **317408** with SDS-plus holder | M8 | 130 | 1 |
| 1523252 | **317410** with SDS-plus holder | M10 | 130 | 1 |
| 1523260 | **317412** with SDS-plus holder | M12 | 130 | 1 |



Quantities in packs may vary.

## BASIN WRENCHES

## PLUMBING WRENCHES

### 315

**BASIN PLIERS**

- Chrome-vanadium steel 31CrV3, drop-forged
- Applicable from size 13 to 36 mm
- Enamelled blue

| Code | No. | mm | | |
|---|---|---|---|---|
| 4509010 | **315000** | 270 | 565 | 1 |

### 316

**BASIN WRENCH**

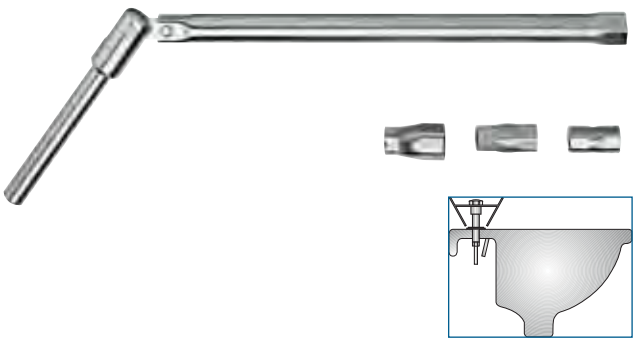
- Chrome-vanadium steel 31CrV3
- With pivoted hook for right or left hand operation
- For use up to size 36 mm
- Enamelled blue

| Code | No. | mm | | |
|---|---|---|---|---|
| 4509280 | **316000** | 235 | 500 | 1 |

### 3165

**BASIN WRENCH**

- For single lever taps
- With 13 mm hexagon drive
- With adaptors for 10, 11, 14 mm



| Code | No. | mm | | |
|---|---|---|---|---|
| 4624110 | **316500** | 260 | 300 | 1 |

### 320

**WRENCH FOR PLUMBING FITTINGS**

- With pawl clamp
- With exchangeable plastic jaws no. 320100, width 8 mm
- For nickel-plated and chrome-plated fittings
- Chrome-vanadium steel 31CrV3, hardened, chrome-plated
- Handle enamelled blue

| Code | No. | mm | mm | mm | | |
|---|---|---|---|---|---|---|
| 4509600 | **320000** | 65 | 45 | 275 | 720 | 1 |
| 4540520 | **320100** | | | | 10 | 1 |

### 321

**QUICK-CLAMP FITTINGS WRENCH FIXO-SPANN®**

- Quick adjustment by ratchet and pawl clamp
- With exchangeable protective brass jaws no. 321100, width 10 mm
- For nickel-plated and chrome-plated fittings
- Quality steel, hardened, nickel-plated

| Code | No. | mm | mm | mm | | |
|---|---|---|---|---|---|---|
| 4509790 | **321000** | 65 | 45 | 290 | 790 | 1 |
| 4540600 | **321100** | | | | 25 | 1 |

### 322

**PLUMBING WRENCH**

- From aluminium
- For special surface protection
- Easy handling due to quick-release
- Load capacity max. 100 N·m

| Code | No. | mm | mm | mm | | |
|---|---|---|---|---|---|---|
| 1949802 | **322000** | 73 | 35 | 260 | 280 | 1 |

Quantities in packs may vary.

## 328

### GRIP WRENCH

- For secure, damage-free gripping and holding of pipes
- With exchangeable special plastic jaws no. 328100, 15 mm wide
- In malleable cast iron
- Stove enamelled blue

| Code | No. | ∅ mm | mm | | |
|---|---|---|---|---|---|
| 4510100 | **328000** | 16-50 | 300 | 615 | 1 |
| 4609660 | **328100** | | | 30 | 1 |

## 329

### SPECIAL SIPHON PLIERS

- For tightening and removing screwed PVC pipe joints with round union nuts
- With lap joint and three locking positions, jaw width 10 mm
- No. 329001 with plastic jaws for special surface protection
- Stove enamelled blue

| Code | No. | ∅ mm | mm | | |
|---|---|---|---|---|---|
| 4510290 | **329000** | 20-65 | 230 | 300 | 1 |
| 1984381 | **329001** | 20-65 | 230 | 300 | 1 |

# TAP RESEATING TOOLS

## 365

### TAP RESEATING TOOL

- Cylindrical pattern
- For the plane milling of leaky water-tap valves up to 1" without removing the tap

| Code | No. | | |
|---|---|---|---|
| 4540950 | **365006**<br>Basic tool, flat mills 1/4", 3/8", 1/2", 3/4", 1" in plastic case | 535 | 1 |

## E 365

### PARTS

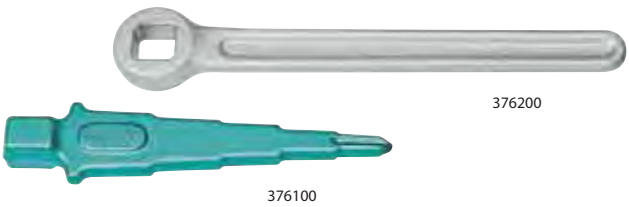
| Code | No. | | |
|---|---|---|---|
| 4610160 | **365100**<br>Basic tool, without mills and plastic case | 300 | 1 |
| 4610240 | **365101**<br>Flat mill 1/4" | 5 | 1 |
| 4610320 | **365103**<br>Flat mill 3/8" | 5 | 1 |
| 4610400 | **365105**<br>Flat mill 1/2" | 5 | 1 |
| 4610590 | **365107**<br>Flat mill 3/4" | 15 | 1 |
| 4625270 | **365110**<br>Flat mill 1" | 25 | 1 |
| 4610080 | **365090**<br>Plastic case | 205 | 1 |

# STEPPED KEYS / VALVE SPANNER

## 376

### STEPPED KEY

- For the installation and removal of valve nipples 3/8", 1/2", 3/4", 1", 1.1/4"
- Drive with 18 mm square




| Code | No. | | |
|---|---|---|---|
| 4512580 | **376000**<br>Stepped key with handle | 630 | 1 |
| 4541250 | **376100**<br>Stepped keys 3/8", 1/2", 3/4", 1", 1.1/4", enamelled blue | 245 | 1 |
| 4541330 | **376200**<br>Handle with 18 mm square, 240 mm long, zinc-plated | 385 | 1 |

## 3785

### PLUMBER'S WRENCH

- With 14 functions for tap extensions 3/8", 1/2", 3/4", 1"
- Depth up to 100 mm
- For the installation and removal of radiator valves and runback screwed unions
- For stud screws M6, M8, M10, M12 and for screw plugs 3/8", 1/2"
- Hexagon drive nut size 17, 22 mm
- Chrome-plated

| Code | No. | mm | | |
|---|---|---|---|---|
| 4512820 | **378500** | 220 x 220 | 670 | 1 |



Quantities in packs may vary.

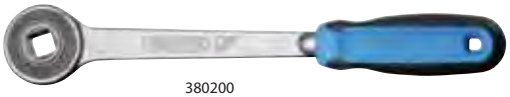
## 380

### COMBINATION STEPPED KEY

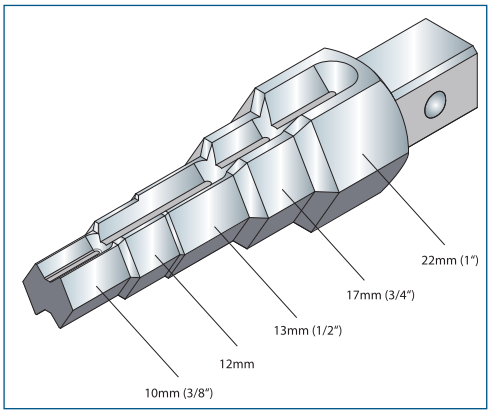
- For the installation and removal of radiator valves, runback screwed unions 3/8" - 1" and short tap extensions
- With pin, hexagon and bi-hexagon nut drive
- 1/2" square drive
- Nickel-plated

380100

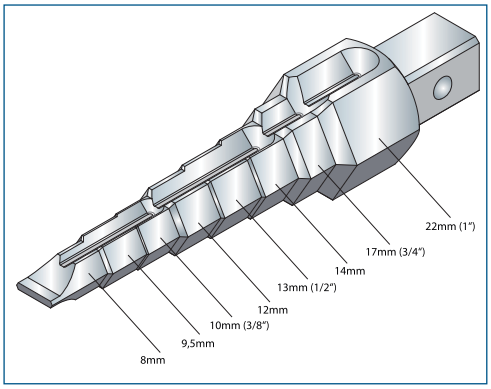
380150



380200




380100




380150

| Code | No. | | |
|---|---|---|---|
| 4512900 | **380000**<br>Combi-stepped key No. 380100 with ratchet 1/2" No. 380200 | 555 | 1 |
| 4630940 | **380001**<br>Combi-stepped key No. 380150 with ratchet 1/2" No. 380200 | 555 | 1 |
| 4513040 | **380100**<br>Combi-stepped key with 5 steps 3/8"-1" | 135 | 1 |
| 4611130 | **380150**<br>Combi-stepped key with 8 steps | 135 | 1 |
| 4513120 | **380200**<br>Ratchet 1/2" | 420 | 1 |

## 3810

### RADIATOR VALVE SPANNER

- Spanner for tightening and removing Euro-cone radiator compression fittings with A/F 30 mm cam lock and hex nuts
- Short, flat version with ratchet
- Ratchet facilitates tightening of straight and elbow compression fittings underneath radiators
- Head end socket for 1/2" extension. The extension is used as a handle and also provides higher torque
- Side socket for 1/2" extension for working with the ratchet in front of the radiator
- Socket for no. 3801 combination stepped key 3/4" radiator valve nipples
- DBGM (= German Utility Patent)

381000

381030

| Code | No. | | |
|---|---|---|---|
| 2233673 | **381000**<br>1 Radiator valve spanner no. 381030<br>1 Extension 1/2" no. 1990-5 | 390 | 1 |
| 2233665 | **381030**<br>Radiator valve spanner 30 mm | 225 | 1 |
| 4513040 | **380100**<br>Combi-stepped key with 5 steps 3/8" - 1" | 135 | 1 |
| 6143860 | **1990-5**<br>Extension 1/2" 125 mm | 188 | 10 |

1993 U-20

204

Quantities in packs may vary.

# SHEET METAL FORMING TOOLS

## 303

### UNIVERSAL SEAMING PLIERS

- Forged
- Adjustable in six steps from 0-90°
- Jaws exchangeable
- Jaw width 60 mm

| Code | No. | mm | mm | | |
|---|---|---|---|---|---|
| 4508470 | **303060** | 60 | 265 | 785 | 1 |

## 304 - 305

### SEAMING PLIERS

- Forged
- Jaw width 60 mm
- No. 304 Straight pattern
- No. 305 Bent pattern, bending angle 45°

304060

305060

| Code | No. | mm | mm | | |
|---|---|---|---|---|---|
| 4508550 | **304060** | 60 | 265 | 590 | 1 |
| 4508630 | **305060** | 60 | 265 | 630 | 1 |

## 340

### GUTTER BENDING PLIERS

- Open pattern
- With adjustment screw
- Strong tube handles
- Enamelled blue

| Code | No. | for gutters | mm | | |
|---|---|---|---|---|---|
| 4510530 | **340006** | 6 x 40 | 640 | 3.080 | 1 |
| 4510610 | **340008** | 8 x 40 | 640 | 3.250 | 1 |

## 373

### BORDERING PLIERS FOR WELDERS

- For making fillets on welding edges on pipe joints
- Adjustable in 5 steps from 0°-180°
- With hidden spring
- Zinc-plated

| Code | No. | mm | mm | Jaw width | mm | | |
|---|---|---|---|---|---|---|---|
| 4611050 | **373001** | 5.5 | 20 | 8-10 | 290 | 500 | 1 |
| 4511770 | **373002** | 6.0 | 30 | 10-20 | 300 | 540 | 1 |

## 384

### SINGLE PUNCH

- With 3 cutting edges
- For sheet metal up to 1.5 mm thickness, VA sheet up to 1.2 mm thickness
- In chrome-alloyed stainless steel, hardened, gun-metal finish

- Sizes 28 and 33 mm see no. 385

| Code | No. | Ø mm | | |
|---|---|---|---|---|
| 4513470 | **384035** | 35 | 270 | 1 |
| 4513550 | **384042** | 42 | 400 | 1 |

## 385

### DOUBLE PUNCH

- With 3 cutting edges
- Size 28 x 33 mm
- For sheet metal up to 1.5 mm thickness, VA sheet up to 1.2 mm thickness
- In chrome-alloyed stainless steel, hardened, gun-metal finish

- Sizes 35 and 42 mm see no. 384

| Code | No. | Ø mm | | |
|---|---|---|---|---|
| 4513630 | **385007** | 28 x 33 | 460 | 1 |

## 369

### ANGLE REAMER

- Four- and five-edged, for reaming holes in sheet metal
- Also suitable for producing measurement openings for exhaust gas analysis
- Round shaft
- Enamelled blue, working surface bright metal

| Code | No. | mm | | |
|---|---|---|---|---|
| 4511500 | **369000** | 150 | 170 | 5 |

8532 • 8533

646

Quantities in packs may vary.

# TIN SNIPS

## 420

### TIN SNIPS
- Right hand cutting
- For long straight cuts
- Berlin pattern
- Ground cutting edges
- Sheet thickness max. 1.0 mm at strength 600 N/mm²
- Black varnished, handles blue expoxy coated

| Code | No. | Execution | mm | | |
|---|---|---|---|---|---|
| 4513710 | **420020** | right hand cutting | 225 | 330 | 1 |
| 4513980 | **420025** | right hand cutting | 250 | 470 | 1 |
| 4514010 | **420030** | right hand cutting | 300 | 740 | 1 |

## 421

### HOLE CUTTING SNIPS
- For short straight and figure cuts (great radii)
- Polished cutting edges
- Sheet thickness max. 1.0 mm at strength 600 N/mm²
- Black varnished, handles blue expoxy coated

| Code | No. | Execution | mm | | |
|---|---|---|---|---|---|
| 4514280 | **421025** | right hand cutting | 250 | 490 | 1 |
| 4514360 | **421027** | right hand cutting | 275 | 520 | 1 |
| 4514440 | **421030** | right hand cutting | 300 | 610 | 1 |
| 4514520 | **421125** | left hand cutting | 250 | 500 | 1 |
| 4514600 | **421127** | left hand cutting | 275 | 520 | 1 |
| 4514790 | **421130** | left hand cutting | 300 | 620 | 1 |

## 422

### IDEAL PATTERN SNIPS
- For straight continuous and figure cuts
- Polished cutting edges
- Sheet thickness max. 1.0 mm at strength 600 N/mm²
- Black varnished, handles blue expoxy coated

| Code | No. | Execution | mm | | |
|---|---|---|---|---|---|
| 4514870 | **422026** | right hand cutting | 260 | 510 | 1 |
| 4514950 | **422028** | right hand cutting | 280 | 580 | 1 |
| 4515090 | **422126** | left hand cutting | 260 | 565 | 1 |
| 4515170 | **422128** | left hand cutting | 280 | 600 | 1 |

## 423

### PELICAN PATTERN SNIPS
- Right hand cutting
- For long straight continuous and figure cuts
- Polished cutting edges
- Sheet thickness max. 1.0 mm at strength 600 N/mm²
- Black varnished, handles blue expoxy coated

| Code | No. | Execution | mm | | |
|---|---|---|---|---|---|
| 4515250 | **423030** | right hand cutting | 300 | 730 | 1 |
| 4515330 | **423035** | right hand cutting | 350 | 850 | 1 |

## 8531

### TIN SNIPS English pattern
- Left hand cutting
- With special strong cutting edges
- Polished cutting edges
- Handles blue expoxy coated

| Code | No. | Execution | mm | inch | | |
|---|---|---|---|---|---|---|
| 6757840 | **8531 8** | left hand cutting | 200 | 8 | 312 | 1 |
| 6757920 | **8531 10** | left hand cutting | 250 | 10 | 518 | 1 |
| 6758060 | **8531 12** | left hand cutting | 300 | 12 | 740 | 1 |

## 424 - 8524 SS

### IDEAL PATTERN SNIPS
- For straight continuous and figure cuts
- With lever action
- Self-opening with installed spring, with lock
- Polished cutting edges
- Sheet thickness max. 1.2 mm at strength 600 N/mm²
- Model 8524 SS especially wear-resistant, extra hard
- Non-slip 2-component handles

| Code | No. | Execution | mm | | |
|---|---|---|---|---|---|
| 4515410 | **424026** | right hand cutting | 260 | 530 | 1 |
| 4515680 | **424126** | left hand cutting | 260 | 530 | 1 |
| 6756520 | **8524 SS** | right hand cutting | 260 | 581 | 1 |

## 425 - 8526 SS

### FIGURE SNIPS
- For straight continuous and figure cuts
- With lever action
- Self-opening with installed spring, with lock
- Polished cutting edges
- Sheet thickness max. 1.2 mm at strength 600 N/mm²
- Model 8526 SS especially wear-resistant, extra hard
- Non-slip 2-component handles

| Code | No. | Execution | mm | | |
|---|---|---|---|---|---|
| 4515760 | **425026** | right hand cutting | 260 | 480 | 1 |
| 4515840 | **425126** | left hand cutting | 260 | 480 | 1 |
| 6756950 | **8526 SS** | right hand cutting | 260 | 547 | 1 |

177 • 9850

398
399

Quantities in packs may vary.

## 5700

### ARC PUNCH

- To DIN 7200 Form A
- For stamping out cardboard, leather, rubber, sealing materials and other soft materials
- Cutting edge hardened
- Shaft enamelled blue

| Code | No. | Ø mm | Ø inch | mm | | |
|---|---|---|---|---|---|---|
| 4542300 | **570002** | 2 | 1/16 | 105 | 45 | 5 |
| 4542490 | **570003** | 3 | 1/8 | 105 | 45 | 5 |
| 4542570 | **570004** | 4 | 5/32 | 105 | 50 | 5 |
| 4542650 | **570005** | 5 | 3/16 | 110 | 70 | 5 |
| 4542730 | **570006** | 6 | 1/4 | 110 | 70 | 5 |
| 4542810 | **570007** | 7 | | 120 | 90 | 5 |
| 4543030 | **570008** | 8 | 5/16 | 120 | 90 | 5 |
| 4543110 | **570009** | 9 | 11/32 | 120 | 90 | 5 |
| 4543380 | **570010** | 10 | 3/8 | 130 | 125 | 5 |
| 4543460 | **570011** | 11 | 7/16 | 130 | 130 | 5 |
| 4543540 | **570012** | 12 | 15/32 | 130 | 130 | 5 |
| 4543620 | **570013** | 13 | 1/2 | 140 | 165 | 5 |
| 4626590 | **570014** | 14 | 9/16 | 140 | 170 | 5 |
| 4543890 | **570015** | 15 | 19/32 | 140 | 180 | 5 |
| 4543970 | **570016** | 16 | 5/8 | 140 | 180 | 5 |
| 4544000 | **570017** | 17 | 21/32 | 145 | 230 | 5 |
| 4544190 | **570018** | 18 | 11/16 | 145 | 230 | 5 |
| 4544270 | **570019** | 19 | 3/4 | 145 | 240 | 5 |
| 4544350 | **570020** | 20 | 25/32 | 160 | 315 | 5 |
| 4546560 | **570021** | 21 | 13/16 | 160 | 315 | 1 |
| 4545670 | **570022** | 22 | 7/8 | 160 | 320 | 1 |
| 4545750 | **570023** | 23 | 29/32 | 170 | 375 | 1 |
| 4540440 | **570024** | 24 | 15/16 | 170 | 375 | 1 |
| 4618300 | **570025** | 25 | 1 | 170 | 400 | 1 |
| 4618490 | **570026** | 26 | 1.1/32 | 170 | 375 | 1 |
| 4618570 | **570027** | 27 | 1.1/16 | 175 | 475 | 1 |
| 4618650 | **570028** | 28 | 1.3/32 | 175 | 500 | 1 |
| 4618730 | **570029** | 29 | 1.1/8 | 175 | 450 | 1 |
| 4618810 | **570030** | 30 | 1.3/16 | 190 | 590 | 1 |
| 4619030 | **570031** | 31 | | 190 | 580 | 1 |
| 4619110 | **570032** | 32 | 1.1/4 | 190 | 580 | 1 |
| 4619380 | **570033** | 33 | | 195 | 660 | 1 |
| 4619460 | **570034** | 34 | 1.5/16 | 195 | 675 | 1 |
| 4619540 | **570035** | 35 | 1.3/8 | 195 | 690 | 1 |
| 4619620 | **570036** | 36 | | 200 | 700 | 1 |
| 4619700 | **570037** | 37 | 1.7/16 | 205 | 700 | 1 |
| 4619890 | **570038** | 38 | 1.1/2 | 205 | 770 | 1 |
| 4619970 | **570039** | 39 | | 205 | 770 | 1 |
| 4620040 | **570040** | 40 | 1.9/16 | 205 | 860 | 1 |
| 4620120 | **570041** | 41 | 1.5/8 | 205 | 860 | 1 |
| 4620200 | **570042** | 42 | | 220 | 970 | 1 |
| 4620390 | **570043** | 43 | 1.11/16 | 220 | 980 | 1 |
| 4620470 | **570044** | 44 | | 220 | 980 | 1 |
| 4620550 | **570045** | 45 | 1.3/4 | 220 | 1020 | 1 |
| 4620630 | **570046** | 46 | 1.13/16 | 220 | 1110 | 1 |
| 4620710 | **570047** | 47 | 1.7/8 | 230 | 1180 | 1 |
| 4620980 | **570048** | 48 | | 230 | 1180 | 1 |
| 4621010 | **570049** | 49 | 1.15/16 | 230 | 1190 | 1 |
| 4621280 | **570050** | 50 | | 230 | 1200 | 1 |
| 4621360 | **570055** | 55 | | 240 | 1850 | 1 |
| 4621790 | **570060** | 60 | | 260 | 2000 | 1 |
| 4621950 | **570065** | 65 | | 260 | 2250 | 1 |
| 4622090 | **570070** | 70 | 2.3/4 | 300 | 4000 | 1 |
| 4622170 | **570075** | 75 | | 340 | 4400 | 1 |
| 4622250 | **570080** | 80 | 3.1/4 | 340 | 4400 | 1 |
| 4622330 | **570090** | 90 | | 345 | 5300 | 1 |
| 4622410 | **570100** | 100 | 4 | 380 | 8700 | 1 |

## 5703

### SET OF ARC PUNCHES

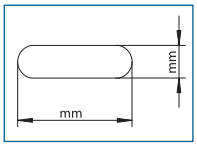
- To DIN 7200 Form A
- For stamping out cardboard, leather, rubber, sealing materials and other soft materials
- Cutting edge hardened
- Shaft enamelled blue
- In plastic wallet no. 570390

| Code | No. | | |
|---|---|---|---|
| 1549502 | **570303**<br>10 pieces, consisting of 1 piece each<br>Arc punch 3, 5, 7, 8, 10, 13, 16, 19, 22 and 25 mm | 1850 | 1 |
| 1549510 | **570304**<br>8 pieces, consisting of 1 piece each<br>Arc punch 3, 6, 8, 10, 12, 16, 20 and 25 mm | 1470 | 1 |
| 2646382 | **570307**<br>7 pieces, consisting of 1 piece each<br>4, 6, 8, 10, 12, 14, 16 mm | 960 | 1 |
| 1549758 | **570390**<br>Plastic wallet, empty | 110 | 1 |

## 572

### HOLLOW PUNCH

- For stamping out cardboard, leather, rubber, sealing materials and other soft materials
- Cutting edge hardened
- Shaft enamelled blue



| Code | No. | Length of hole | Width of hole | mm | | |
|---|---|---|---|---|---|---|
| 1404393 | **572 12x3** | 12.0 | 3 | | 130 | 1 |
| 2646307 | **572 16x3** | 16.0 | 3 | | 150 | 1 |
| 2646315 | **572 17x11** | 17.0 | 11 | | 300 | 1 |
| 2646323 | **572 18x4** | 18.0 | 4 | | 315 | 1 |
| 1408712 | **572 20x4** | 20.0 | 4 | | 315 | 1 |
| 2646331 | **572 22,5x13** | 22.5 | 13 | | 590 | 1 |
| 2646358 | **572 25x4** | 25.0 | 4 | | 590 | 1 |
| 1408704 | **572 30x14** | 30.0 | 14 | | 590 | 1 |
| 1506048 | **572 40x10** | 40.0 | 10 | | 860 | 1 |
| 2646366 | **572 40x20** | 40.0 | 20 | | 620 | 1 |
| 2646374 | **572 42x22** | 42.0 | 22 | | 860 | 1 |



Quantities in packs may vary.

# PIPE CLEANING TOOLS

## 841

### FLEXIBLE PIPE CLEANING SHAFT

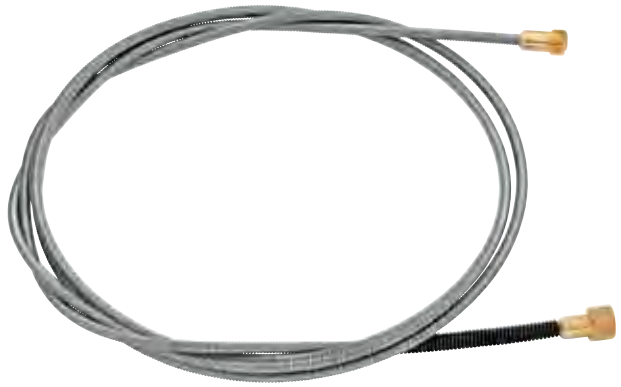
- For normal drain pipes up to 70 mm Ø resp. up to 100 or 200 mm Ø
- Hot-dip galvanised spring-steel wire
- Wound in 2 layers
- With replaceable crank
- 3-blade claw
- May also be used with extension shafts no. 842

| Code | No. | Ø mm | Length m | for pipe Ø | | |
|---|---|---|---|---|---|---|
| 4648130 | **841005** | 10 | 5 | 50-70 | 3.1 | 1 |
| 4652160 | **841010** | 10 | 10 | 50-70 | 5.4 | 1 |
| 4658280 | **841205** | 12 | 5 | 60-100 | 4.5 | 1 |
| 4652240 | **841210** | 12 | 10 | 60-100 | 8.1 | 1 |
| 4648210 | **841510** | 15 | 10 | 100-200 | 11.0 | 1 |

## 842

### EXTENSION SHAFT

- With coupling
- For pipe cleaning shafts no. 841



| Code | No. | Ø mm | Length m | for pipe Ø | | |
|---|---|---|---|---|---|---|
| 4648480 | **842005** | 10 | 5 | 50-70 | 2.8 | 1 |
| 4652320 | **842205** | 12 | 5 | 60-100 | 4.2 | 1 |
| 4648560 | **842505** | 15 | 5 | 100-200 | 5.5 | 1 |

## 870

### DRAIN PIPE CLEANER

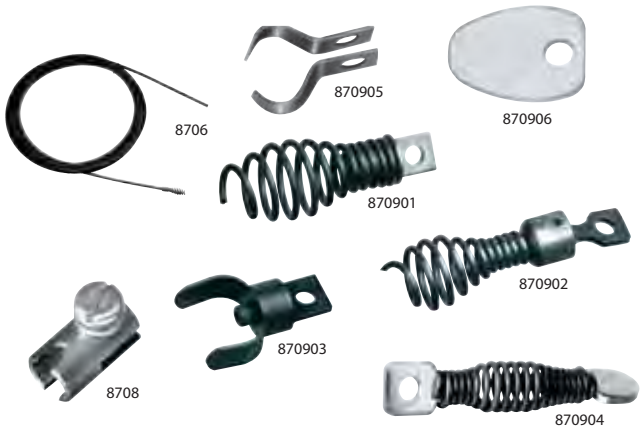
CE

- Compact design
- Electric motor 230 V, 0-600 rpm
- With Flexikern®-shaft
- By pressing the feed lever the shaft runs into the pipe, when the motor is reversed, the shaft retracts
- Shafts 8-10 mm interchangeable without disassembling
- Contains 1 piece each pipe cleaning heads no. 870901, 870902, 870903, 870904, 870905, 870906
- Optional available with plastic case

| Code | No. | Ø mm | Length m | for pipe Ø | | |
|---|---|---|---|---|---|---|
| 1467271 | **870080** | 8 | 7.5 | 40-50 | 11.9 | 1 |
| 1467298 | **870100** | 10 | 10.5 | 50-75 | 13.6 | 1 |

## E 870

### PARTS




| Code | No. | Description | | |
|---|---|---|---|---|
| 1467301 | **870608** | Flexikern®-shaft 8 mm x 7.5 m with coupling | 2000 | 1 |
| 1467328 | **870611** | Flexikern®-shaft 10 mm x 10.5 m with coupling | 3800 | 1 |
| 1467336 | **870801** | Coupling for shafts 8 mm | 22 | 1 |
| 1467239 | **870802** | Coupling for shafts 10 mm | 20 | 1 |
| 1467247 | **870901** | Drilling head 30 mm for shafts with coupling | 50 | 1 |
| 1467255 | **870902** | Swivel drilling head 25 mm for shafts with coupling | 40 | 1 |
| 1467263 | **870903** | Fork drilling head 40 mm for shafts with coupling | 50 | 1 |
| 1467344 | **870904** | Spring milling head 16 mm | 50 | 1 |
| 1467352 | **870905** | Cutting knife 30 mm | 40 | 1 |
| 1601849 | **870906** | Milling tip 25 mm | 40 | 1 |
| 1467816 | **870090** | Plastic case | 3100 | 1 |

## Flexikern® shafts

All pipe cleaners are only as good as the shafts which are mounted. That is why our hand-turned plumber's snakes and pipe cleaners are only fitted out with the patented Flexikern® pipe cleaning shafts. Strong spring-steel wire is firmly wound and hardened around a 42-core special steel cable. This ensures an unattainable strength together with the right flexibility of the shaft. Under normal torque conditions the patented design keeps the shaft flexible. However when a further torque is set up, the shaft wrings itself around the stabilising steel cable core and, in turn, is stiffened into a unit.

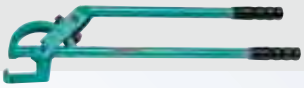
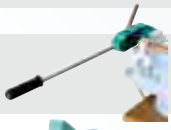
95 • 100 • 119

506
510

Quantities in packs may vary.

GEDORE

## Tools for pipes a strong grip


| | | |
|---|---|---|
| USEFUL INFORMATION | | 602 – 603 |
| HOW DO I FIND THE RIGHT BENDING TOOL | | 604 – 605 |
| PIPE BENDING SPRINGS NO. 2450 | | 606 |
| PIPE BENDING PLIERS NO. 241-242 |  | 606 |
| MANUAL PIPE BENDER – DRAW BENDING OPERATION | | |
| MANUAL BENDING TOOL SETS NO. 243 | | 607 |
| MANUAL BENDING TOOL SETS NO. 244 | | 608 |
| MANUAL BENDING TOOL SETS NO. 278 | | 609 – 611 |
| MANUAL BENDING TOOL SETS NO. 240 |  | 612 |
| UNIVERSAL MANUAL PIPE BENDER NO. 276 | | 612 |
| MANUAL PIPE BENDER – PUSHING BENDING OPERATION NO. 2454-2456 | | 613 – 614 |
| PIPE BENDING MACHINES – DRAW BENDING OPERATION | | |
| PIPE BENDING MACHINES HYDRAULIC NO. 246 | | 615 |
| PIPE BENDING MACHINES HYDRAULIC NO. 249 | | 616 |
| PIPE BENDING MACHINES – PUSHING BENDING OPERATION NO. 255-260 | | 617 – 622 |
| ECCENTRIC ANGLE BENDERS NO. 280 | | 623 – 625 |
| RING BENDING MACHINE NO. 285 | | 626 |
| PIPE STRAIGHTENING TOOL NO. 286 | | 626 |

## Top quality to meet maximum requirements

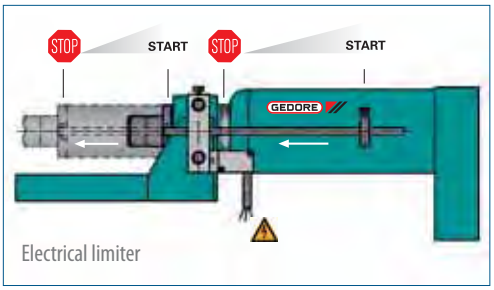
- Use of the most up-to-date machinery and environmentally-friendly production processes
- Everything is based on tightly controlled and selected materials
- Experienced and reliable specialists vouch for precision-like processing
- Stringent quality checks after each production step ensure a constantly high level
- High-grade industrial quality for the toughest forms of continuous use and safety in everyday work

## Everything handled down to a tee

- The absence of Chrome 6 in the tools is simply a matter of course for us and has been so for many years.
- Best-possible results are down to the unique manufacturing processes and special treatment for tools

## Precision, dimensioned accuracy and fitting exactness

- The most important requirements for non-taxing and safe working



Electrical limiter

## GEDORE Pipe bending systems

### Advantages and benefits

**Features that make the difference...**

- Durable quality for heavy professional use
- Gentle handling of workpieces
- Suitable for solving problems, a variety of materials and applications
- From simple bending pliers to a electro-hydraulic bending machine for 3" pipes
- Hand-operated, hydraulic and electro-hydraulic
- For the complete range of standard pipe grades
- Solving problems is our strength - Please ask us!

# Useful information

## How do i find the right bending tool?

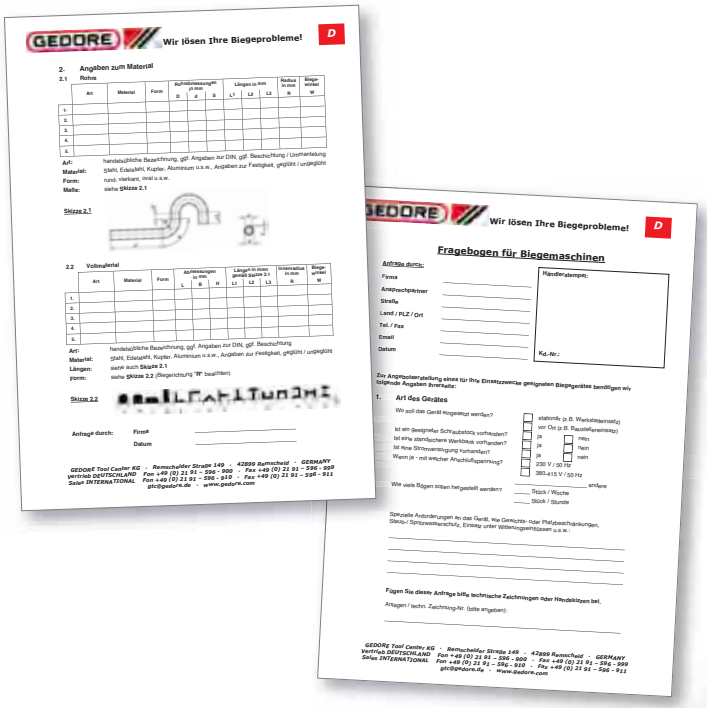
**You need to consider the following points when choosing your bending machine:**

- Do you want to bend by hand?
- Do you want to use a vice?
- Is the machine to be hydraulically operated?
- Is the machine to be electrically operated, and if so at what voltage?

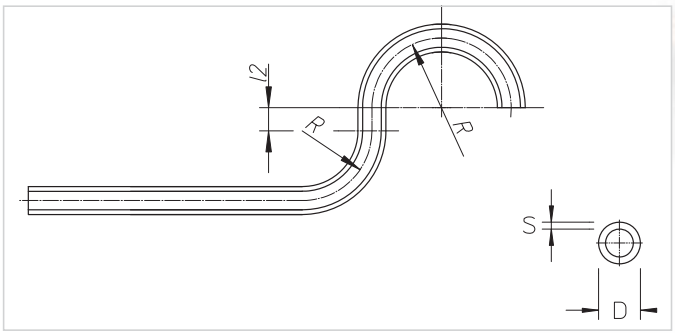
**The following points also need to be taken into account; refer to adjacent sketch:**

- The shape of the pipe to be bent (round-section, square-section, etc.)
- The outside diameter "D" of the pipe
- The wall thickness "S" of the pipe
- The pipe grade (e.g. steel, stainless steel, NF metals, etc.)
- The required bending angle (e.g. 90°, 180° ... etc.)
- Are bending radii "R" specified? (Example: 3 x D = R - this corresponds to a 25 mm outside diameter pipe with a bending radius of 75 mm)
- Important: the radius is measured to the middle of the tube = neutral area
- Details of the length "L" of the overall pipe
- Are a number of bends to be made in succession? - If so, it is essential to state the distance between the pipe bends, "L2"
- Are there any specifications for the pipe or the finished pipe bends which go beyond the details listed here (e.g. in power-station construction, the food industry or similar)?

- A more detailed overview of the possible uses of our pipe bending machines and tools is given in the next pages.

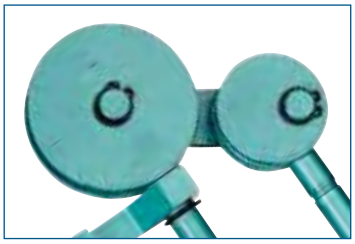

GEDORE Wir lösen Ihre Biegeprobleme! D

Fragebogen für Biegemaschinen



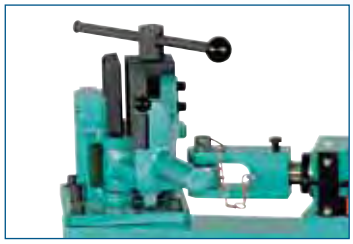
## Service

- Make use of our qualified advice to solve your technical problems.
- We will willingly assist you in making your choice of the most suitable tool - from standard solutions up to and including customised manufacture for specific uses.
- Our customer service operators will answer all your questions about products, including technical enquiries, fast and efficiently.



# Applications of the GEDORE pipe bender

| Size | Outer diameter | Wall thickness | No. 2400 2405 | No. 241 | No. 2415 | No. 2420 2423 2424 2425 | No. 243 | No. 244 | No. 2454 2455 2456 | No. 246 | No. 249 | No. 255 256 | No. 257 258 | No. 259 260 | No. 276 | No. 2784 2785 2786 2787 | No. 285 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Gas and water pipes EN 10255-M (DIN 2440) | | | | | | | | | | | | | | | | | |
| 1/8″ | 10,2 mm | 2,00 mm | | | | | | | | | | | | | 180° | | |
| 1/4″ | 13,5 mm | 2,35 mm | | | | | | | | | | | | | 180° | | |
| 3/8″ | 17,2 mm | 2,35 mm | | | | | | | | 180° | | 90° | 90° | 90° | 180° | | |
| 1/2″ | 21,3 mm | 2,65 mm | | | | | | | | 180° | | 90° | 90° | 90° | 180° | | |
| 3/4″ | 26,9 mm | 2,65 mm | | | | | | | | 180° | | 90° | 180°* | 90° | 180° | | |
| 1″ | 33,7 mm | 3,25 mm | | | | | | | | | | 90° | 180°* | 90° | | | |
| 1.1/4″ | 42,4 mm | 3,25 mm | | | | | | | | | | 90° | 180°* | 90° | | | |
| 1.1/2″ | 48,3 mm | 3,25 mm | | | | | | | | | | | 180°* | 90° | | | |
| 2″ | 60,3 mm | 3,65 mm | | | | | | | | | | | 90° | 90° | | | |
| 2.1/2″ | 76,1 mm | 3,65 mm | | | | | | | | | | | | 90° | | | |
| 3″ | 88,9 mm | 4,05 mm | | | | | | | | | | | | 90° | | | |
| Gas and water pipes EN 10255-H (DIN 2441) | | | | | | | | | | | | | | | | | |
| 1/8″ | 10,2 mm | 2,65 mm | | | | | | | | | | | | | 180° | | |
| 1/4″ | 13,5 mm | 2,90 mm | | | | | | | | | | | | | 180° | | |
| 3/8″ | 17,2 mm | 2,90 mm | | | | | | | | | | 90° | 90° | 90° | 180° | | |
| 1/2″ | 21,3 mm | 3,25 mm | | | | | | | | | | 90° | 90° | 90° | 180° | | |
| 3/4″ | 26,9 mm | 3,25 mm | | | | | | | | | | 90° | 180°* | 90° | 180° | | |
| 1″ | 33,7 mm | 4,05 mm | | | | | | | | | | 90° | 180°* | 90° | | | |
| 1.1/4″ | 42,4 mm | 4,05 mm | | | | | | | | | | 90° | 180°* | 90° | | | |
| 1.1/2″ | 48,3 mm | 4,05 mm | | | | | | | | | | | 180°* | 90° | | | |
| 2″ | 60,3 mm | 4,50 mm | | | | | | | | | | | 90° | 90° | | | |
| 2.1/2″ | 76,1 mm | 4,50 mm | | | | | | | | | | | | 90° | | | |
| 3″ | 88,9 mm | 4,85 mm | | | | | | | | | | | | 90° | | | |
| Distilling pipes EN 10220 (DIN 2448) | | | | | | | | | | | | | | | | | |
| 3/8″ | 17,2 mm | 1,80 mm | | | | | | | | | | 90° | 90° | 90° | 180° | | |
| 1/2″ | 21,3 mm | 2,00 mm | | | | | | | | | | 90° | 90° | 90° | 180° | | |
| | 25,0 mm | 2,00 mm | | | | | | | | | | 90° | 90° | 90° | 180° | | |
| 3/4″ | 26,9 mm | 2,30 mm | | | | | | | | | | 90° | 90° | 90° | 180° | | |
| | 30,0 mm | 2,60 mm | | | | | | | | | | 90° | 90° | 90° | 180° | | |
| | 31,8 mm | 2,60 mm | | | | | | | | | | 90° | 90° | 90° | | | |
| 1″ | 33,7 mm | 2,60 mm | | | | | | | | | | 90° | 90° | 90° | | | |
| | 38,0 mm | 2,60 mm | | | | | | | | | | | 90° | 90° | | | |
| 1.1/4″ | 42,4 mm | 2,60 mm | | | | | | | | | | | 90° | 90° | | | |
| | 44,5 mm | 2,60 mm | | | | | | | | | | | 90° | 90° | | | |
| 1.1/2″ | 48,3 mm | 2,60 mm | | | | | | | | | | | 90° | 90° | | | |
| | 51,0 mm | 2,60 mm | | | | | | | | | | | 90° | 90° | | | |
| | 57,0 mm | 2,90 mm | | | | | | | | | | | | 90° | | | |
| 2″ | 60,3 mm | 2,90 mm | | | | | | | | | | | | 90° | | | |
| | 63,5 mm | 2,90 mm | | | | | | | | | | | | 90° | | | |
| | 70,0 mm | 2,90 mm | | | | | | | | | | | | 90° | | | |
| 2.1/2″ | 76,1 mm | 2,90 mm | | | | | | | | | | | | 90° | | | |



# Applications of the GEDORE pipe bender

| Size | Outer | diameter Wall | No. 2400 2405 | No. 241 | No. 2415 | No. 2420 2423 2424 2425 | No. 243 | No. 244 | No. 2454 2455 2456 | No. 246 | No. 249 | No. 255 256 | No. 257 258 | No. 259 260 | No. 276 | No. 2784 2785 2786 2787 | No. 285 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Electrical installation pipes EN 60423 | | | | | | | | | | | | | | | | | |
| M 12 | 12,0 mm | 1,00 mm | | | | | | | | | 90° | 90° | 90° | 90° | 180° | | |
| M 16 | 16,0 mm | 1,00 mm | | | | | | | | | 90° | 90° | 90° | 90° | 180° | | |
| M 20 | 20,0 mm | 1,00 mm | | | | | | | | | 90° | 90° | 90° | 90° | 180° | | |
| M 25 | 25,0 mm | 1,20 mm | | | | | | | | | 90° | | 90° | 90° | 180° | | |
| M 32 | 32,0 mm | 1,20 mm | | | | | | | | | 90° | | 90° | 90° | 180° | | |
| M 40 | 40,0 mm | 1,20 mm | | | | | | | | | 90° | | 90° | 90° | | | |
| M 50 | 50,0 mm | 1,20 mm | | | | | | | | | 90° | | | 90° | | | |
| Banister-rail tubes | | | | | | | | | | | | | | | | | |
| 3/8" | 17,2 mm | 1,75 mm | | | | | | | | | 90° | 90° | 90° | 90° | 180° | | |
| 1/2" | 21,3 mm | 1,75 mm | | | | | | | | | 90° | 90° | 90° | 90° | 180° | | |
| 3/4" | 26,9 mm | 2,00 mm | | | | | | | | | 90° | 90° | 90° | 90° | 180° | | |
| 1" | 33,7 mm | 2,00 mm | | | | | | | | | 90° | | 90° | 90° | | | |
| 1.1/4" | 42,4 mm | 2,00 mm | | | | | | | | | 90° | | 90° | 90° | | | |
| 1.1/2" | 48,3 mm | 2,00 mm | | | | | | | | | 90° | | | 90° | | | |
| 2" | 60,3 mm | 2,00 mm | | | | | | | | | | | | 90° | | | |
| Multi-layer composite pipes | | | | | | | | | | | | | | | | | |
| | 14,0 mm | 2,00 mm | | | | 90° | | | 90° | 180° | | | | | 180° | | |
| | 16,0 mm | 2,00 mm | | | | 90° | | | 90° | 180° | 90° | | | | 180° | 180° (2784) | |
| | 18,0 mm | 2,00 mm | 180° | | | 90° | | | 90° | 180° | 90° | | | | 180° | | |
| | 20,0 mm | 2,00 mm | 180° | | | 90° | | | 90° | 180° | 90° | | | | 180° | 180° (2784) | |
| | 26,0 mm | 3,00 mm | | | | | | | 90° | | | | | | 180° | | |
| | 32,0 mm | 3,00 mm | | | | | | | 90° | | 90° | | | | 180° | | |
| | 40,0 mm | 3,50 mm | | | | | | | | | 90° | | 90° (258) | | | | |
| | 50,0 mm | 4,00 mm | | | | | | | | | 90° | | 90° (258) | | | | |
| | 63,0 mm | 4,50 mm | | | | | | | | | | | 90° (258) | | | | |
| Copper pipes EN 1057 half-hard in mm | | | 12-22* | | | 10-22* | | | | 6-28* | 12-35 | | | | 6-22 | | 6-18* |
| Copper pipes EN 1057 soft in mm | | | 12-22 | 4,75-12 | 4,75-10 | 10-22* | 6-16* | 10-22 | 5-22 | 6-28* | 12-35 | | | | 6-22 | | 6-18* |
| Sheathed copper pipes in mm | | | * | | | * | * | | * | | * | | | | * | | |
| Thin-walled NF pipes in mm | | | 12-22 | 4,75-12 | 4,75-10 | 10-22* | 6-16* | 10-30 | | 12-28* | 12-42 | | | | 10-32 | | |
| Hydraulic pipes EN 10305-1 (DIN 2391) in mm | | | 10-15 (2405) | 4,75-12 | | 10-18* | 6-12* | 10-22 | 5-18* | 12-22* | 12-42 | 14-32* | 14-50* | 14-76,1* | 6-28* | 3-25* | 6-18* |
| Precision steel pipes EN 10305-3 (DIN 2394) in mm | | | 10-15 (2405) | 4,75-12 | | 10-18* | 6-12* | 10-22 | 5-18* | 12-22* | 12-54 | 14-32* | 14-50* | 14-76,1* | 6-28* | 3-25* | 6-18* |
| Stainless steel pipes EN 10088-3 (DIN 17 440) in mm | | | | | | 10-18* | | | 5-18* | 12-22* | 12-42* | 14-32* | 14-40* | 14-60,3* | 6-28* | 3-25* | |

*) depending on size / finish / pipe properties - see article description

# PIPE BENDING SPRINGS

## 2450

### COPPER PIPE BENDING SPRING

- From 6.5 to 16 mm
- For soft copper pipes EN 1057

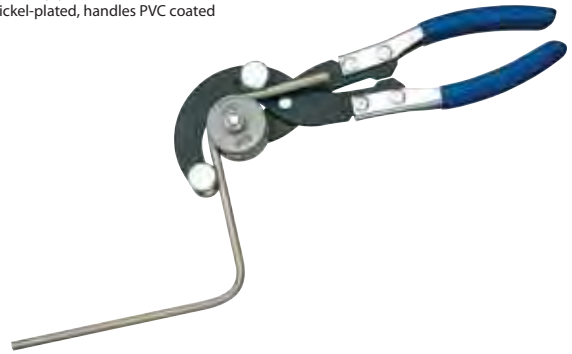
| Code | No. | Ø mm | mm | | |
|---|---|---|---|---|---|
| 4573610 | **245006** | 6,5 | 250 | 55 | 5 |
| 4538460 | **245008** | 8,0 | 250 | 90 | 5 |
| 4538540 | **245010** | 10,0 | 275 | 110 | 5 |
| 4538620 | **245012** | 12,0 | 300 | 180 | 5 |
| 4538700 | **245015** | 15,0 | 300 | 200 | 5 |
| 4574180 | **245016** | 16,0 | 300 | 275 | 5 |

# PIPE BENDING PLIERS

## 2415

### PIPE BENDING PLIERS

- Sizes from 4.75 - 10 mm Ø up to 90°
- With 2 reversible bending forms 3/16" - 1/4" Ø (4,75 - 6 mm Ø) and 8 - 10 mm Ø
- For soft copper pipes EN 1057, all non-ferrous metal pipes as well as thin-walled precision steel pipes and brake lines
- Bright nickel-plated, handles PVC coated



| Code | No. | Ø mm | Ø inch | mm | | |
|---|---|---|---|---|---|---|
| 1442007 | **241500** | 4,75-10,0 | 3/16-3/8 | 260 | 580 | 1 |

## E 2415

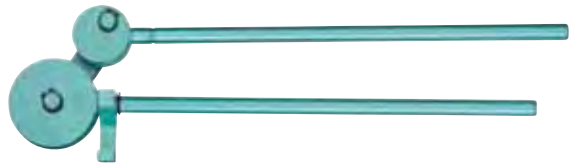
### SPARE BENDING FORMER

| Code | No. | Ø mm | Ø inch | r = mm | | |
|---|---|---|---|---|---|---|
| 1442910 | **241506** | 4,75-6,0 | 3/16-1/4 | 15 | 40 | 1 |
| 1442929 | **241510** | 8,0-10,0 | 5/16-3/8 | 15 | 40 | 1 |

## 2410

### PIPE BENDING PLIERS

- Sizes from 4.75 to 12 mm Ø up to 180°
- For soft copper pipes EN 1057, non-ferrous metal pipes as well as thin-walled precision steel pipes and brake lines
- Stove enamelled blue



| Code | No. | Ø mm | r = mm | mm | | |
|---|---|---|---|---|---|---|
| 4564460 | **241005** | 4,75-5,0 | 18 | 255 | 525 | 1 |
| 4564540 | **241006** | 6,0 | 18 | 275 | 520 | 1 |
| 4564620 | **241008** | 8,0 | 28 | 340 | 780 | 1 |
| 4564700 | **241010** | 10,0 | 28 | 400 | 1110 | 1 |
| 4634690 | **241012** | 12,0 | 35 | 400 | 1800 | 1 |

## 2420

### PIPE BENDING PLIERS with bending rail

- Sizes from 10 to 22 mm Ø, bends up to 90°
- With small radii
- For soft copper pipes EN 1057 and soft steel pipes (also with fixed coating)
- Blue powder-coated, handles PVC coated

| Code | No. | Ø mm | r = mm | mm | | |
|---|---|---|---|---|---|---|
| 1461516 | **242010** | 10 | 30 | 420 | 1.4 | 1 |
| 1461524 | **242012** | 12 | 30 | 420 | 1.4 | 1 |
| 1409417 | **242015** | 15 | 45 | 560 | 2.2 | 1 |
| 1461540 | **242016** | 16 | 60 | 560 | 2.2 | 1 |
| 1409433 | **242018** | 18 | 74 | 820 | 3.0 | 1 |
| 1461567 | **242020** | 20 | 75 | 820 | 4.3 | 1 |
| 1461575 | **242022** | 22 | 75 | 820 | 4.3 | 1 |

## 2423

### PIPE BENDING PLIERS with roller

- Sizes from 10 to 22 mm Ø, bends up to 90°
- For bendable steel and stainless steel pipes (max. wall thickness 1.5 mm) as well as soft, heat-insulated copper pipes EN 1057
- Enamelled blue

| Code | No. | Ø mm | r = mm | mm | | |
|---|---|---|---|---|---|---|
| 4564890 | **242310** | 10 | 43 | 420 | 1.4 | 1 |
| 4564970 | **242312** | 12 | 43 | 420 | 1.4 | 1 |
| 4565000 | **242315** | 15 | 60 | 560 | 2.1 | 1 |
| 4565190 | **242318** | 18 | 74 | 820 | 2.9 | 1 |
| 4538030 | **242320** | 20 | 86 | 820 | 3.6 | 1 |
| 4565270 | **242322** | 22 | 86 | 820 | 4.2 | 1 |

## 2424

### PIPE BENDING PLIERS with bending rail

- Sizes from 10 to 22 mm Ø, bends up to 90°
- For thin-walled, bendable steel pipes (max. wall thickness 1.5 mm) as well as soft copper pipes EN 1057 (also with fixed coating)
- Enamelled blue, slide rail powder-coated

| Code | No. | Ø mm | r = mm | mm | | |
|---|---|---|---|---|---|---|
| 4565350 | **242410** | 10 | 43 | 420 | 1.4 | 1 |
| 4626670 | **242412** | 12 | 43 | 420 | 1.4 | 1 |
| 4565430 | **242415** | 15 | 60 | 560 | 2.1 | 1 |
| 4565510 | **242418** | 18 | 74 | 820 | 2.9 | 1 |
| 4565780 | **242420** | 20 | 86 | 820 | 3.6 | 1 |
| 4565860 | **242422** | 22 | 86 | 820 | 4.3 | 1 |

## 2425

### PIPE BENDING PLIERS HH with plastic slide rail

- Sizes from 12 to 22 mm Ø, up to 90°
- Especially for semi-hard and soft copper pipes EN 1057
- Enamelled blue, with plastic slide rail

| Code | No. | Ø mm | r = mm | mm | | |
|---|---|---|---|---|---|---|
| 1224689 | **242512** | 12 | 43 | 420 | 1.4 | 1 |
| 1224670 | **242515** | 15 | 60 | 560 | 2.0 | 1 |
| 1224050 | **242518** | 18 | 74 | 820 | 2.8 | 1 |
| 1223690 | **242522** | 22 | 86 | 820 | 4.1 | 1 |



Quantities in packs may vary.

# MANUAL PIPE BENDER – DRAW BENDING OPERATION

## 243

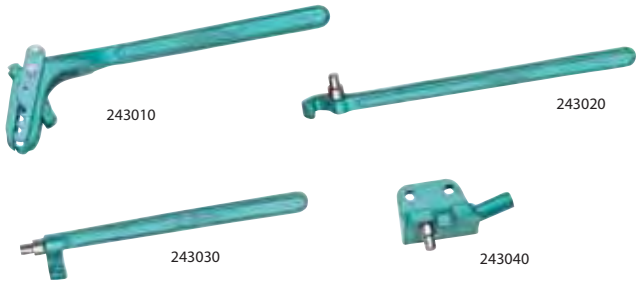
### MANUAL BENDING TOOL SET

- In different sizes up to 90° or 180°
- For soft copper pipes EN 1057 (also with fixed coating), thin-walled precision steel pipes as well as pipes in non-ferrous metals
- Single-hand use of the benders with hand lever no. 243020 / 243030 or clamped to a vice with stationary holder no. 243040
- Stove enamelled blue
- Delivery in sheet steel case no. 243090
- Special sets may be assembled to order

| Code | No. | |
|---|---|---|
| 4568450 | **243100**<br>1 bending lever No. 243010<br>1 hand lever 90° No. 243020<br>1 hand lever 180° No. 243030<br>1 bending former holder, stationary No. 243040<br>5 bending formers 8, 10, 12, 14, 15 mm<br>1 pipe cutter 4-32 mm Ø No. 230010<br>1 sheet steel case No. 243090 | 9.4 |
| 4538380 | **243200**<br>1 bending lever No. 243010<br>1 hand lever 90° No. 243020<br>4 bending formers for pipes with Ø 8, 10, 12, 15 mm<br>1 sheet steel case No. 243090 | 6.6 |
| 4568530 | **243600**<br>1 bending lever No. 243010<br>1 hand lever 90° No. 243020<br>1 hand lever 180° No. 243030<br>1 bending former holder, stationary No. 243040<br>5 bending formers 5/16, 3/8, 7/16, 1/2, 5/8"<br>1 pipe cutter 4-32 mm Ø No. 230010<br>1 sheet steel case No. 243090 | 9.4 |
| 4568610 | **243700**<br>1 bending lever No. 243010<br>1 hand lever 90° No. 243020<br>4 bending formers for pipes with Ø 5/16, 3/8, 1/2, 5/8"<br>1 sheet steel case No. 243090 | 6.7 |

## E 243

### PARTS




| Code | No. | | |
|---|---|---|---|
| 4566320 | **243010**<br>Bending lever | 980 | 1 |
| 4566400 | **243020**<br>Hand lever 90 degrees | 920 | 1 |
| 4566590 | **243030**<br>Hand lever 180 degrees | 920 | 1 |
| 4566670 | **243040**<br>Bending former holder, stationary | 950 | 1 |
| 4504050 | **230010**<br>Pipe cutter QUICK AUTOMATIC 4-32 mm | 435 | 1 |
| 4568370 | **243090**<br>Sheet steel case | 3460 | 1 |

## E 243

### BENDING FORMER

| Code | No. | Ø inch | Ø mm | r = mm | | |
|---|---|---|---|---|---|---|
| 4566750 | **243050** | | 6,0 | 28 | 225 | 1 |
| 4566830 | **243051** | | 8,0 | 28 | 200 | 1 |
| 4567050 | **243053** | | 10,0 | 35 | 320 | 1 |
| 4567210 | **243055** | | 12,0 | 35 | 300 | 1 |
| 4567560 | **243057** | | 14,0 | 45 | 460 | 1 |
| 4567640 | **243058** | | 15,0 | 45 | 420 | 1 |
| 4567720 | **243059** | | 16,0 | 45 | 405 | 1 |
| 4567800 | **243065** | 5/16 | 7,94 | 28 | 220 | 1 |
| 4567990 | **243066** | 3/8 | 9,53 | 35 | 340 | 1 |
| 4568020 | **243067** | 7/16 | 11,11 | 35 | 315 | 1 |
| 4568100 | **243068** | 1/2 | 12,7 | 45 | 495 | 1 |
| 4568290 | **243069** | 5/8 | 15,88 | 45 | 410 | 1 |

Quantities in packs may vary.

## 244

### MANUAL BENDING TOOL SET

- In different sizes up to 180°
- For soft copper pipes EN 1057, hydraulic and precision steel pipes as well as pipes in non-ferrous metals
- For use in a vice
- Power-saving lever mechanism for easy operation
- Stove enamelled blue
- Delivery in sheet steel case no. 244090
- Special sets may be assembled to order

| Code | No. | |
|---|---|---|
| 4571750 | **244100**<br>1 basic unit No. 244070<br>1 bending lever No. 244080<br>6 bending formers for pipes with Ø 15, 16, 18, 20, 22, 28 mm<br>1 pipe cutter 4-32 mm Ø No. 230010<br>1 sheet steel case No. 244090 | 25.4 |
| 4571830 | **244200**<br>1 basic unit No. 244070<br>1 bending lever No. 244080<br>4 bending tools for pipes with Ø 15, 18, 22, 28 mm<br>1 sheet steel case No. 244090 | 22.4 |
| 4573450 | **244600**<br>1 basic unit No. 244070<br>1 bending lever No. 244080<br>4 bending tools for pipes with Ø 5/8, 3/4, 7/8, 1"<br>1 pipe cutter 4-32 mm Ø No. 230010<br>1 sheet steel case No. 244090 | 22.8 |
| 4568880 | **244010**<br>1 basic unit No. 244070<br>1 bending lever No. 244080<br>1 sheet steel case No. 244090<br>without bending tools | 14.3 |

## E 244

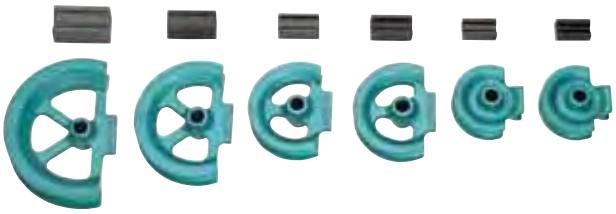
### PARTS

| Code | No. | | |
|---|---|---|---|
| 4569930 | **244070**<br>Basic unit | 4.9 | 1 |
| 4571590 | **244080**<br>Bending lever | 2.4 | 1 |
| 4504050 | **230010**<br>Pipe cutter QUICK AUTOMATIC 4-32 mm | 0.4 | 1 |
| 4571670 | **244090**<br>Sheet steel case | 7.0 | 1 |

## E 244

### BENDING TOOLS

- Consisting of bending former and bending rail



| Code | No. | Ø inch | Ø mm | r = mm | | |
|---|---|---|---|---|---|---|
| 4571910 | **244210** | | 10,00 | 40 | 0.9 | 1 |
| 4572050 | **244212** | | 12,00 | 40 | 0.9 | 1 |
| 4572210 | **244214** | | 14,00 | 50 | 1.2 | 1 |
| 4572480 | **244215** | | 15,00 | 50 | 1.1 | 1 |
| 4572560 | **244216** | | 16,00 | 50 | 1.1 | 1 |
| 4572720 | **244218** | | 18,00 | 65 | 1.5 | 1 |
| 4572800 | **244220** | | 20,00 | 65 | 1.4 | 1 |
| 4572990 | **244222** | | 22,00 | 85 | 2.3 | 1 |
| 4573100 | **244225** | | 25,00 | 100 | 3.5 | 1 |
| 4573290 | **244228** | | 28,00 | 100 | 3.2 | 1 |
| 4573370 | **244230** | | 30,00 | 100 | 3.1 | 1 |
| 4568960 | **244035** | 5/8 | 15,88 | 50 | 1.1 | 1 |
| 4569180 | **244036** | 3/4 | 19,05 | 65 | 1.5 | 1 |
| 4569260 | **244037** | 7/8 | 22,22 | 85 | 2.1 | 1 |
| 4569340 | **244038** | 1 | 25,40 | 100 | 3.4 | 1 |

921

541

923

541

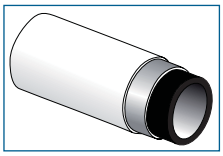


Quantities in packs may vary.

## 2784

### MANUAL BENDING TOOL SET for composite pipes

- Sizes from 16 and 20 mm up to 180°
- For multi-layer composite pipes
- For clamping in a vice
- Enamelled blue, with black plastic handles



| Code | No. | |
|---|---|---|
| 2536706 | **278400**<br>1 basic tool body No. 278470<br>1 bending lever No. 278480<br>2 aluminium bending formers for pipes with Ø 16, 20 mm | 1.8 |

## E 2784

### PARTS

| Code | No. | | |
|---|---|---|---|
| 2536757 | **278470**<br>Basic tool body MSR | 800 | 1 |
| 2536765 | **278480**<br>Bending lever MSR | 500 | 1 |

## E 2784

### BENDING FORMER

- From high-quality aluminium

| Code | No. | Ø mm | r = mm | | |
|---|---|---|---|---|---|
| 2536773 | **278416** | 16 | 32 | 200 | 1 |
| 2536781 | **278420** | 20 | 40 | 300 | 1 |

## 2785

### MANUAL BENDING TOOL SET

- Sizes from 3 to 10 mm up to 180°
- For precision steel pipes EN 10305-3 (DIN 2394), hydraulic pipes EN 10305-1 (DIN 2391), and bendable stainless steel pipes with 0.75 - 1.0 mm wall thicknesses
- For clamping in a vice or useable as bending pliers
- Enamelled blue, with black plastic handles

278501

| Code | No. | |
|---|---|---|
| 1589830 | **278500**<br>1 basic tool body No. 278570<br>1 bending lever No. 278581<br>4 aluminium bending formers for pipes with Ø 3-4, 5-6, 7-8, 10 mm | 1.2 |
| 1589849 | **278501**<br>1 basic tool body No. 278570<br>1 bending lever No. 278581<br>4 aluminium bending formers for pipes with Ø 3-4, 5-6, 7-8, 10 mm<br>1 miniature pipe cutter 4-16 mm No. 231000<br>1 pipe deburring reamer 4-32 mm No. 232001<br>1 sheet steel case No. 278090 | 2.4 |

## E 2785

### PARTS

278080

278070

| Code | No. | | |
|---|---|---|---|
| 2293625 | **278570**<br>Basic tool body size 0 | 640 | 1 |
| 2293641 | **278581**<br>Bending lever size 0 | 380 | 1 |
| 1526189 | **278090**<br>Sheet steel case for 278501 | 1040 | 1 |

## E 2785

### BENDING FORMER

- From high-quality aluminium

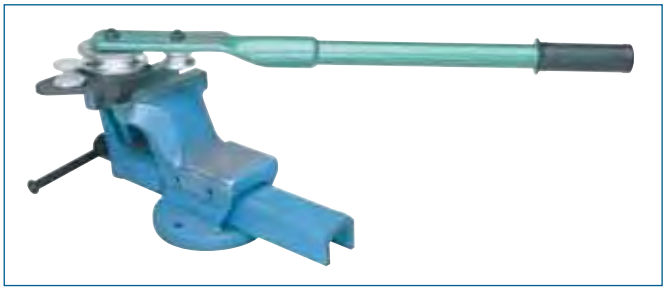
| Code | No. | Ø mm | r = mm | | |
|---|---|---|---|---|---|
| 1576798 | **278504** | 3-4 | 14 | 20 | 1 |
| 1576801 | **278506** | 5-6 | 16 | 25 | 1 |
| 1576828 | **278508** | 7-8 | 24 | 55 | 1 |
| 1576836 | **278510** | 10 | 29 | 85 | 1 |

Quantities in packs may vary.

## 2786

### MANUAL BENDING TOOL SET

- Sizes from 6 to 18 mm up to 180°
- For precision steel pipes EN 10305-3 (DIN 2394), hydraulic pipes EN 10305-1 (DIN 2391) and bendable stainless steel pipes with 1.0 - 2.0 mm wall thicknesses
- For clamping in a vice
- Enamelled blue, with black plastic handles, type 278601 with pluggable aluminium bending lever



278601

| Code | No. | |
|---|---|---|
| 1589857 | **278600**<br>1 basic tool body No. 278670, 1 bending lever No. 278681, 6 aluminium bending formers for pipes with Ø 6-8, 10-12, 14, 15, 16, 18 mm | 5.3 |
| 1611526 | **278601**<br>1 basic tool body No. 278670, 1 bending lever pluggable No. 278680, 6 aluminium bending formers for pipes with Ø<br>1 pipe cutter 4-35 mm No. 229010, 1 pin punch 3 mm, 1 sheet steel case No. 278190 | 8.3 |

## E 2786

### PARTS

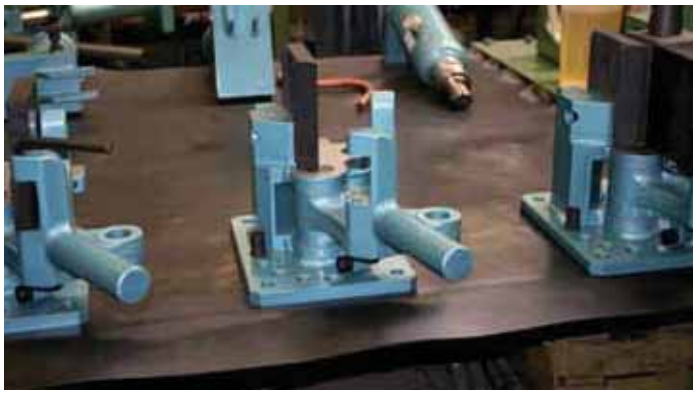
| Code | No. | | |
|---|---|---|---|
| 1677209 | **278670**<br>Basic tool body size 1 | 1240 | 1 |
| 2293692 | **278681**<br>Bending lever size 1 | 2300 | 1 |
| 1626043 | **278680**<br>Bending lever size 1 pluggable | 1930 | 1 |
| 1611534 | **278190**<br>Sheet steel case for 278601 | 4180 | 1 |

## E 2786

### BENDING FORMER

- From high-quality aluminium

| Code | No. | Ø mm | r = mm | | |
|---|---|---|---|---|---|
| 1576844 | **278608** | 6-8 | 32 | 200 | 1 |
| 1576852 | **278612** | 10-12 | 36 | 220 | 1 |
| 1576879 | **278614** | 14 | 36 | 200 | 1 |
| 1576887 | **278615** | 15 | 43 | 320 | 1 |
| 1576895 | **278616** | 16 | 43 | 320 | 1 |
| 1576909 | **278618** | 18 | 50 | 450 | 1 |





Quantities in packs may vary.

## 2787

### MANUAL BENDING TOOL SET

- Sizes from 20 to 25 mm up to 180°
- For precision steel pipes EN 10305-3 (DIN 2394), hydraulic pipes EN 10305-1 (DIN 2391) and bendable stainless steel pipes with 1.5 - 2.5 mm wall thicknesses
- For clamping in a vice
- Enamelled blue, with black plastic handles

| Code | No. | |
|---|---|---|
| 1589865 | **278700**<br>1 basic tool body No. 278770, 1 bending lever No. 278781, 3 aluminium bending formers for pipes with Ø 20, 22, 25 mm | 13.0 |

## E 2787

### PARTS

| Code | No. | | |
|---|---|---|---|
| 2293706 | **278770**<br>Basic tool body size 2 | 4140 | 1 |
| 2293722 | **278781**<br>Bending lever size 2 | 3000 | 1 |

## E 2787

### BENDING FORMER

- From high-quality aluminium

| Code | No. | Ø mm | r = mm | | |
|---|---|---|---|---|---|
| 1576917 | **278720** | 20 | 85 | 2000 | 1 |
| 1576925 | **278722** | 22 | 85 | 1950 | 1 |
| 1576933 | **278725** | 25 | 85 | 1950 | 1 |

258

618

Quantities in packs may vary.

## 240

### PIPE BENDER SET with slide rail / with roller

- Sizes from 12 to 22 mm Ø up to 180°
- No. 2400: With slide rail for semi-hard and soft copper pipes EN 1057, soft steel pipes (also with fixed coating) as well as aluminium and brass pipes
- No. 2405: With rollers for semi-hard and soft copper pipes EN 1057, hydraulic pipes EN 10305-1 (DIN 2391), precision steel pipes EN 10305-3 (DIN 2394) as well as soft steel, aluminium and brass pipes
- For use in a vice
- Delivery in assembly case no. 240090

| Code | No. | |
|---|---|---|
| 4537730 | **240001**<br>4 pipe bending tools with slide rail<br>for pipe-Ø 12, 15, 18, 22 mm<br>1 pipe cutter 4-35 mm No. 229010<br>1 pipe deburring reamer 4-32 mm No. 232001<br>1 assembly case No. 240090 | 17.9 |
| 4632800 | **240501**<br>4 pipe bending tools with roller<br>for pipe-Ø 12, 15, 18, 22 mm<br>1 pipe cutter 4-35 mm No. 229010<br>1 pipe deburring reamer 4-32 mm No. 232001<br>1 assembly case No. 240090 | 17.9 |
| 4562250 | **240090**<br>Assembly case, empty | 4.6 |

## 240

### PIPE BENDER with slide rail / with roller

- Sizes from 10 to 22 mm Ø up to 180°
- No. 2400: With slide rail for semi-hard and soft copper pipes EN 1057, soft steel pipes (also with fixed coating) as well as aluminium and brass pipes
- No. 2405: With rollers for semi-hard and soft copper pipes EN 1057, hydraulic pipes EN 10305-1 (DIN 2391), precision steel pipes EN 10305-3 (DIN 2394) as well as soft steel, aluminium and brass pipes
- For use in a vice

2400

2405

| Code | No. | ∅ mm | r = mm | | |
|---|---|---|---|---|---|
| 2001284 | **240010** | 10 | 45 | 1.7 | 1 |
| 4561790 | **240012** | 12 | 45 | 1.7 | 1 |
| 4561950 | **240015** | 15 | 65 | 2.1 | 1 |
| 4562170 | **240018** | 18 | 80 | 3.5 | 1 |
| 4537810 | **240022** | 22 | 80 | 4.4 | 1 |
| 2001292 | **240510** | 10 | 45 | 1.7 | 1 |
| 4633020 | **240512** | 12 | 45 | 1.7 | 1 |
| 4633290 | **240515** | 15 | 65 | 2.1 | 1 |
| 4633450 | **240518** | 18 | 80 | 3.5 | 1 |
| 4633610 | **240522** | 22 | 80 | 4.4 | 1 |

## 276

### UNIVERSAL PIPE BENDER

- Sizes from 6 to 32 mm Ø and 1/8 to 3/4" up to 180°
- For semi-hard and soft copper pipes EN 1057 up to 22 mm Ø, stainless steel pipes EN 10088-3 (DIN 17 440) up to 28 x 1.5 mm, hydraulic pipes EN 10305-1 (DIN 2391) and precision steel pipes EN 10305-3 (DIN 2394) up to 28 mm, electrical installation pipes EN 60423 up to M 32, composite pipes up to 32 mm, non-ferrous metal pipes and insulated pipes as well as gas and water pipes EN 10255 (DIN 2440/2441) up to 3/4"
- For use in a vice or installation on the workbench
- Set up for connecting to a length and angle stop as well as bending lever extension possible (not included)
- Enamelled blue

280130

276001

276000

| Code | No. | |
|---|---|---|
| 4600010 | **276000**<br>Basic equipment with bending lever extension no. 268230, without bending tools | 16.7 |
| 4600280 | **276001**<br>Angled stop | 1.8 |
| 4606210 | **280130**<br>Length stop | 0.7 |

## E 276

### BENDING TOOLS

- No. 276506-276920: Bending former with aluminium slide rail for metric pipes
- No. 276101-276107: Bending former for gas and water pipes EN 10255 (DIN 2440/2441), use with pressure roller no. 276003 (1/8-3/4")

276506-920

276101-107

276003

| Code | No. | Size | ∅ mm | r = mm | Electrical installation ducts EN 60423 | | |
|---|---|---|---|---|---|---|---|
| 4600950 | **276506** | | 6,0 | 40 | | 1.5 | 1 |
| 4601090 | **276508** | | 8,0 | 40 | | 1.4 | 1 |
| 4601170 | **276510** | | 10,0 | 40 | | 1.4 | 1 |
| 4601250 | **276512** | | 12,0 | 40 | | 1.4 | 1 |
| 1553682 | **276912** | | 12,0 | 81 | M12 | 6.5 | 1 |
| 4601330 | **276514** | | 14,0 | 50 | | 1.9 | 1 |
| 4601410 | **276515** | | 15,0 | 50 | | 1.8 | 1 |
| 4601680 | **276516** | | 16,0 | 68 | | 4.7 | 1 |
| 1553690 | **276916** | | 16,0 | 81 | M16 | 6.5 | 1 |
| 4601760 | **276518** | | 18,0 | 68 | | 4.7 | 1 |
| 4601840 | **276519** | | 19,0 | 68 | | 4.6 | 1 |
| 4601920 | **276520** | | 20,0 | 68 | | 4.6 | 1 |
| 1553704 | **276920** | | 20,0 | 105 | M20 | 4.8 | 1 |
| 4602060 | **276522** | | 22,0 | 81 | | 6.5 | 1 |
| 4602140 | **276525** | | 25,0 | 105 | M25 | 4.7 | 1 |
| 4602300 | **276528** | | 28,0 | 126 | | 5.4 | 1 |
| 4602490 | **276530** | | 30,0 | 153 | | 7.0 | 1 |
| 4602570 | **276532** | | 32,0 | 153 | M32 | 7.0 | 1 |
| 4600440 | **276101** | 1/8 | 10,2 | 40 | | 1.2 | 1 |
| 4600520 | **276102** | 1/4 | 13,5 | 40 | | 1.2 | 1 |
| 4600600 | **276103** | 3/8 | 17,2 | 50 | | 1.6 | 1 |
| 4600790 | **276105** | 1/2 | 21,3 | 68 | | 2.4 | 1 |
| 4600870 | **276107** | 3/4 | 26,9 | 80 | | 5.8 | 1 |
| 4600360 | **276003** | 1/8-3/4 | | | | 0.5 | 1 |



Quantities in packs may vary.

# MANUAL PIPE BENDER – PUSHING BENDING OPERATION

## 2455

### PIPE BENDER SET MANUAL

- Sizes from 10 to 22 mm Ø up to 90°
- For soft copper pipes EN 1057 (also heat-insulated)
- Mechanical ratchet feed
- Deliver in plastic case no. 245590

| Code | No. | |
|---|---|---|
| 4634850 | **245510**<br>1 basic unit, mechanical no. 245570<br>7 bending tools<br>for pipes with Ø 10, 12, 14, 15, 18, 20, 22 mm<br>1 plastic case no. 245590 | 5.0 |

## 2456

### PIPE BENDER SET hydraulic

- Sizes from 10 to 22 mm Ø up to 90°
- For soft copper pipes EN 1057 up to 22 mm (also heat-insulated) as well as precision steel pipes EN 10305-3 (DIN 2394) up to 18 x 1.5 mm
- Hydraulic drive without great effort
- Delivery in plastic case no. 245590

| Code | No. | |
|---|---|---|
| 4635230 | **245610**<br>1 basic unit, hydraulic no. 245670<br>7 bending tools<br>for pipes with Ø 10, 12, 14, 15, 18, 20, 22 mm<br>1 plastic case no. 245590 | 6.2 |

## 2454

### PIPE BENDER SET FOR COMPOSITE PIPES hydraulic

- Sizes from 16 to 32 mm Ø up to 90°
- For multi-layer composite pipes
- Hydraulic drive without great effort
- Delivery in plastic case no. 245490

| Code | No. | |
|---|---|---|
| 1443550 | **245410**<br>1 basic unit, hydraulic no. 245670<br>4 bending tools<br>for pipes with Ø 16, 20, 26, 32 mm<br>1 plastic case no. 245490 | 7.3 |

## 2456

### PIPE BENDER SET hydraulic, heavy-duty

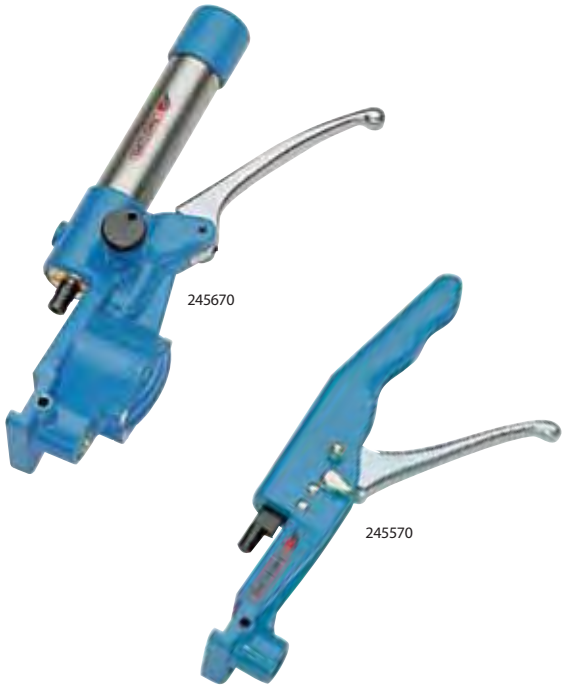
- Sizes from 6 to 22 mm Ø up to 90°
- For soft copper pipes EN 1057 up to 22 mm (also heat-insulated), precision steel pipes EN 10305-3 (DIN 2394) up to 18 x 2 mm, as well as annealed stainless steel pipes up to 18 x 1.2 mm
- Hydraulic drive without great effort
- In plastic case no. 245690

| Code | No. | |
|---|---|---|
| 1585495 | **245611**<br>1 basic unit, hydraulic no. 245670<br>10 bending tools<br>for pipes with Ø 6, 8, 10, 12, 14, 15, 16, 18, 20, 22 mm<br>1 plastic case no. 245690 | 7.5 |

Quantities in packs may vary.

## E 2454 - E 2456

### PARTS

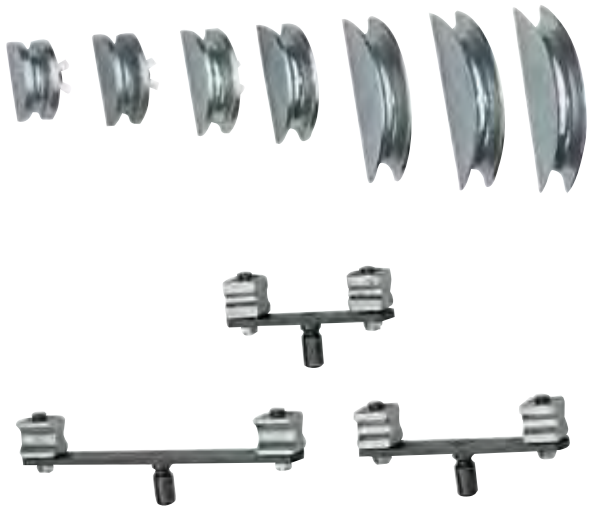



| Code | No. | | |
|---|---|---|---|
| 4634930 | **245570**<br>Basic unit, mechanical | 1150 | 1 |
| 4635310 | **245670**<br>Basic unit, hydraulic | 2350 | 1 |
| 1443437 | **245490**<br>Plastic case empty for no. 245410 | 1700 | 1 |
| 4635070 | **245590**<br>Plastic case empty for no. 245510 + 245610 | 1700 | 1 |
| 1585568 | **245690**<br>Plastic case empty for no. 245611 | 1700 | 1 |

## E 2454 - E 2456

### BENDING TOOLS

- The bending former and counter-support are needed in each instance
- Bending former no. 245806-245822 and counter-support no. 245710-245731 for metric pipes
- Bending former no. 245916-245932 and counter-support no. 245740-245770 for composite pipes



| Code | No. | Ø mm | r = mm | | |
|---|---|---|---|---|---|
| 4635900 | **245806** | 6 | 31 | 100 | 1 |
| 4636040 | **245808** | 8 | 31 | 100 | 1 |
| 4636120 | **245810** | 10 | 31 | 100 | 1 |
| 4636200 | **245812** | 12 | 34 | 110 | 1 |
| 4636390 | **245814** | 14 | 41 | 120 | 1 |
| 4636470 | **245815** | 15 | 48 | 140 | 1 |
| 4636550 | **245816** | 16 | 49 | 150 | 1 |
| 4636710 | **245818** | 18 | 72 | 190 | 1 |
| 4636980 | **245820** | 20 | 80 | 200 | 1 |
| 4637010 | **245822** | 22 | 88 | 200 | 1 |
| 1443399 | **245916** | 16 | 49 | 140 | 1 |
| 1443402 | **245920** | 20 | 80 | 180 | 1 |
| 1443410 | **245926** | 26 | 93 | 240 | 1 |
| 1443429 | **245932** | 32 | 119 | 480 | 1 |
| 4635580 | **245710**<br>Counter-support | 6-12 | | 380 | 1 |
| 4635660 | **245720**<br>Counter-support | 14-17 | | 460 | 1 |
| 1585509 | **245721**<br>Counter-support reinforced | 14-17 | | 380 | 1 |
| 4635740 | **245730**<br>Counter-support | 18-22 | | 460 | 1 |
| 1585517 | **245731**<br>Counter-support reinforced | 18-22 | | 480 | 1 |
| 1443356 | **245740**<br>Counter-support composite pipes | 16 | | 340 | 1 |
| 1443364 | **245750**<br>Counter-support composite pipes | 20 | | 440 | 1 |
| 1443372 | **245760**<br>Counter-support composite pipes | 26 | | 480 | 1 |
| 1443380 | **245770**<br>Counter-support composite pipes | 32 | | 840 | 1 |

923 541

921 541

Quantities in packs may vary.

## 246

### PIPE BENDING MACHINE manual-hydraulic

- Sizes from 6 to 28 mm Ø up to 180°
- For semi-hard and soft copper pipes EN 1057 up to 28 mm Ø, stainless steel pipes EN 10088-3 (DIN 17 440) up to 22 x 1.5 mm, hydraulic pipes EN 10305-1 (DIN 2391) and precision steel pipes EN 10305-3 (DIN 2394) up to 22 x 2 mm, composite pipes up to 20 mm as well as gas and water pipes EN 10255-M (DIN 2440) up to 3/4"
- Pressure 60 kN
- On pivotable tripod
- Delivery in wooden assembly case

| Code | No. | |
|---|---|---|
| 4538890 | **246100**<br>1 basic tool No. 246070<br>1 pump, manual-hydraulic, No. 246080<br>1 pivotable tripod No. 268000<br>5 bending tools for pipes with Ø 12, 15, 18, 22, 28 mm | 57.0 |

| Code | No. | |
|---|---|---|
| 4574260 | **246010**<br>1 basic tool No. 246070<br>1 pump, manual-hydraulic, No. 246080<br>1 pivotable tripod No. 268000<br>without bending tools | 49.0 |

## E 246

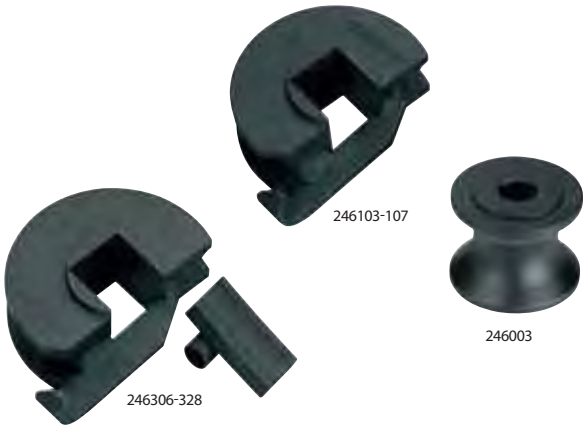
### PARTS

| Code | No. | | |
|---|---|---|---|
| 4574340 | **246070**<br>Basic tool without hydraulic pump | 15.5 | 1 |
| 4574420 | **246080**<br>Pump, manual-hydraulic | 16.2 | 1 |
| 4599760 | **268000**<br>Pivotable tripod | 6.2 | 1 |

## E 246

### BENDING TOOLS

- No. 246306-246328: Bending form with slide rail for metric pipes
- No. 246103-246107: Bending form for gas and water pipes EN 10255-M (DIN 2440), use with pressure roller no. 246003 (3/8"-3/4")




| Code | No. | Size | Ø mm | r = mm | | |
|---|---|---|---|---|---|---|
| 4637870 | **246306** | | 6,0 | 35 | 0.6 | 1 |
| 4637950 | **246308** | | 8,0 | 35 | 0.5 | 1 |
| 4638090 | **246310** | | 10,0 | 45 | 0.5 | 1 |
| 4575070 | **246312** | | 12,0 | 45 | 0.5 | 1 |
| 4575150 | **246314** | | 14,0 | 55 | 0.9 | 1 |
| 4575230 | **246315** | | 15,0 | 55 | 0.9 | 1 |
| 4575310 | **246316** | | 16,0 | 75 | 1.1 | 1 |
| 4575660 | **246318** | | 18,0 | 75 | 1.4 | 1 |
| 4575740 | **246320** | | 20,0 | 75 | 1.8 | 1 |
| 4575820 | **246322** | | 22,0 | 85 | 2.0 | 1 |
| 4575900 | **246325** | | 25,0 | 85 | 3.1 | 1 |
| 4576040 | **246328** | | 28,0 | 112 | 4.0 | 1 |
| 4637440 | **246103** | 3/8 | 17,2 | 55 | 1.2 | 1 |
| 4637520 | **246105** | 1/2 | 21,3 | 65 | 1.7 | 1 |
| 4637600 | **246107** | 3/4 | 26,9 | 85 | 3.6 | 1 |
| 4637360 | **246003** | 3/8-3/4 | | | 0.3 | 1 |

## 250

GEDORE also manufactures pipe benders for thin-walled pipes up to 2" - please enquire!

Quantities in packs may vary.

## 249

### PIPE BENDING MACHINE manual-hydraulic

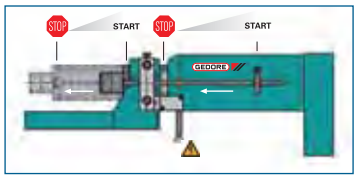
- Sizes from 12 to 54 mm Ø up to 90°
- For copper pipes EN 1057, precision steel pipes EN 10305-3 (DIN 2394) and hydraulic pipes EN 10305-1 (DIN 2391), stainless steel pipes EN 10088-3 (DIN 17 440) up to 42 mm,uncoated pipes and pipes with fixed coating, composite pipes as well as electrical installation pipes EN 60423
- Pressure 100 kN
- On pivotable tripod
- Delivery in wooden assembly case

| Code | No. | |
|---|---|---|
| 4580150 | **249000**<br>1 pump manual-hydraulic No. 254200<br>1 base unit with pivotable tripod No. 249310<br>without bending tools | 76.0 |

## 249

### PIPE BENDING MACHINE electro-hydraulic

- Sizes from 12 to 54 mm Ø up to 90°
- For copper pipes EN 1057, precision steel pipes EN 10305-3 (DIN 2394) and hydraulic pipes EN 10305-1 (DIN 2391), stainless steel pipes EN 10088-3 (DIN 17 440) up to 42 mm,uncoated pipes and pipes with fixed coating, composite pipes as well as electrical installation pipes EN 60423
- Electrical limiter for continuous pre-setting and repetition in the production of pipe bends
- Pressure 100 kN
- On pivotable tripod
- Delivery in wooden assembly case




| Code | No. | |
|---|---|---|
| 4580230 | **249001**<br>1 pump electro-hydraulic 380-415 V No. 254601<br>1 base unit with pivotable tripod No. 249311<br>without bending tools | 111.0 |
| 1547593 | **249002**<br>1 pump electro-hydraulic 230 V No. 254651<br>1 base unit with pivotable tripod No. 249311<br>without bending tools | 111.0 |

## E 249

### PARTS

- Pumps exchangeable for benders no. 257, 258 and 280

| Code | No. | | |
|---|---|---|---|
| 4582280 | **249310**<br>Base unit with tripod for manual-hydraulic bending tool | 42.5 | 1 |
| 4640310 | **249311**<br>Base unit with tripod for electro-hydraulic bending tool | 53.7 | 1 |
| 4584810 | **254200**<br>Pump 2" manual-hydraulic | 21.5 | 1 |
| 1599984 | **254601**<br>Pump 2" 380-415 V with electrical limiter | 41.0 | 1 |
| 1599992 | **254651**<br>Pump 2" 230 V with electrical limiter | 40.8 | 1 |

## E 249

### BENDING TOOLS

- Consisting of bending former, pipe holder and aluminium slide rail
- For shaping stainless steel pipes, bending formers, pipe holders and steel bending rails - chemically nickel-plated - are available on request
- Special sizes available on request

| Code | No. | Size | Ø mm | Electrical installation ducts EN 60423 | Precision steel pipes EN 10305-3 | Cu pipes EN 1057 | r = mm | | |
|---|---|---|---|---|---|---|---|---|---|
| 1527339 | **249812** | | 12,0 | M 12 | 12 | 12 | 85 | 2.9 | 1 |
| 4640660 | **249815** | | 15,0 | | 15 | 15 | 85 | 2.9 | 1 |
| 4654290 | **249816** | | 16,0 | M16 | 16 | 16 | 85 | 2.9 | 1 |
| 4654370 | **249818** | | 18,0 | | 18 | 18 | 85 | 2.9 | 1 |
| 4654530 | **249820** | | 20,0 | | 20 | 20 | 85 | 2.9 | 1 |
| 1546090 | **249020** | | 20,0 | M20 | | | 100 | 3.9 | 1 |
| 4654610 | **249822** | | 22,0 | | 22 | 22 | 85 | 2.9 | 1 |
| 4582520 | **249825** | | 25,0 | | 25 | | 85 | 3.5 | 1 |
| 1546120 | **249025** | | 25,0 | M25 | | | 100 | 3.9 | 1 |
| 4582600 | **249828** | | 28,0 | | 28 | | 85 | 3.5 | 1 |
| 4580310 | **249028** | | 28,0 | | | | 100 | 3.5 | 1 |
| 2648733 | **249128** | | 28,0 | | | 28 | 150 | 6.0 | 1 |
| 4582790 | **249830** | | 30,0 | | 30 | | 85 | 3.4 | 1 |
| 4580580 | **249030** | | 30,0 | | | | 100 | 3.7 | 1 |
| 4580660 | **249032** | | 32,0 | | 32 | | 100 | 6.5 | 1 |
| 1546147 | **249132** | | 32,0 | M32 | | | 150 | 7.5 | 1 |
| 4580820 | **249035** | | 35,0 | | 35 | | 100 | 6.0 | 1 |
| 4580900 | **249135** | | 35,0 | | | 35 | 150 | 7.3 | 1 |
| 4581120 | **249138** | | 38,0 | | 38 | | 150 | 7.1 | 1 |
| 4581200 | **249140** | | 40,0 | | 40 | | 150 | 7.7 | 1 |
| 1546163 | **249240** | | 40,0 | M40 | | | 200 | 12.9 | 1 |
| 4581470 | **249142** | | 42,0 | | 42 | | 150 | 7.7 | 1 |
| 1561944 | **249242** | | 42,0 | | | | 200 | 13.4 | 1 |
| 4581550 | **249145** | | 45,0 | | 45 | | 150 | 7.5 | 1 |
| 4581710 | **249250** | | 50,0 | M50 | 50 | | 200 | 13.1 | 1 |
| 4582010 | **249254** | | 54,0 | | | | 200 | 12.4 | 1 |
| 1742655 | **249503** | 3/8 | 17,2 | | | | 85 | 4.0 | 1 |
| 1639935 | **249505** | 1/2 | 21,3 | | | | 100 | 4.0 | 1 |
| 1422820 | **249507** | 3/4 | 26,9 | | | | 100 | 6.5 | 1 |
| 1276190 | **249510** | 1 | 33,7 | | | | 150 | 7.5 | 1 |
| 1549561 | **249512** | 1.1/4 | 42,4 | | | | 150 | 7.5 | 1 |
| 1232401 | **249515** | 1.1/2 | 48,3 | | | | 200 | 14.5 | 1 |
| 2125242 | **249605** | | 12,7 | | | | 100 | 3.9 | 1 |
| 2125250 | **249606** | | 15,88 | | | | 100 | 3.9 | 1 |
| 2125269 | **249607** | | 19,05 | | | | 100 | 3.9 | 1 |
| 2125277 | **249608** | | 22,22 | | | | 150 | 7.5 | 1 |
| 2125293 | **249610** | | 25,4 | | | | 200 | 12.9 | 1 |
| 2125315 | **249612** | | 31,75 | | | | 200 | 12.9 | 1 |



Quantities in packs may vary.

# PIPE BENDING MACHINES – PUSHING BENDING OPERATION

## max. bending capacities Pipe bending machines 255-260

| Bender no. | Gas and water pipes EN 10255 (DIN 2440/2441) | | Distilling pipes EN 10220 (DIN 2448) | | Electrical installation pipes EN 60423 | Railing tubes *) | Metric tubes *) | | Multi-layer composite pipes |
|---|---|---|---|---|---|---|---|---|---|
| | up to 90° | up to 180° | up to 90° | | up to 90° | up to 90° | up to 90° | up to 180° | up to 90° |
| | Size | Size | Size | Ø mm | Nominal size | Size | Ø mm | Ø mm | Ø mm |
| 255 - 256 | 3/8 - 1.1/4" | – | 3/8 - 1" | 25 - 32 | M12 - M20 | 3/8 - 3/4" | 14 - 35 | – | – |
| 257 - 258 | 3/8 - 2" | 3/4 - 1.1/2" | 3/8 - 1.1/2" | 25 - 51 | M12 - M40 | 3/8 - 1.1/4" | 14 - 51 | 25 - 50 | 40 - 63 (No. 258) |
| 259 - 260 | 3/8 - 3" | – | 3/8 - 2.1/2" | 25 - 70 | M12 - M50 | 3/8 - 2" | 14 - 70 | – | – |

*) Specifications under reserve - as these are dependent on the respective wall thickness

## 255 - 256

### PIPE BENDING MACHINE 3/8" - 1.1/4"

CE

◤ For gas and water pipes EN 10255 (DIN 2440/2441) up to max. 90°

**Available in various designs:**
- manually or electro-hydraulically operated
- with open or fold-open bending frame
- as the basic tool without bending former or as a set with bending former no. 263103-112

◤ Pressure 60 kN
◤ Delivery in assembly case

**Optional bending tools under no. 263 - 265 available for:**
- Distilling pipes EN 10220 (DIN 2448) from 3/8 to 1" or 25 to 32 mm
- Railing tubes from 3/8 to 3/4"
- Electrical installation pipes EN 60423 from M12 to M20
- Metric pipes from 14 to 35 mm

◤ Bending tools for stainless steel pipes on request

A

B

| Code | No. | included in delivery | Ill. | |
|---|---|---|---|---|
| 4586190 | **255000** | manual-hydraulic, fold-open bending frame, without bending formers | A | 39.0 |
| 4586270 | **255100** | manual-hydraulic, fold-open bending frame, with 5 bending formers no. 263103-112 | A | 48.0 |
| 4586350 | **255500** | electro-hydraulic 380-415 V, fold-open bending frame, without bending formers | B | 65.0 |
| 4586430 | **255510** | electro-hydraulic 380-415 V, fold-open bending frame, with 5 bending formers no. 263103-112 | B | 74.0 |
| 4586510 | **255600** | electro-hydraulic 230 V, fold-open bending frame, without bending formers | B | 65.0 |
| 4586780 | **255610** | electro-hydraulic 230 V, fold-open bending frame, with 5 bending formers no. 263103-112 | B | 74.0 |
| 4586860 | **256000** | manual-hydraulic, open bending frame, without bending formers | C | 47.0 |
| 4586940 | **256100** | manual-hydraulic, open bending frame, with 5 bending formers no. 263103-112 | C | 56.0 |
| 4587080 | **256500** | electro-hydraulic 380-415 V, open bending frame, without bending formers | D | 73.0 |
| 4587160 | **256510** | electro-hydraulic 380-415 V, open bending frame, with 5 bending formers no. 263103-112 | D | 82.0 |
| 4587240 | **256600** | electro-hydraulic 230 V, open bending frame, without bending formers | D | 73.0 |
| 4587320 | **256610** | electro-hydraulic 230 V, open bending frame, with 5 bending formers no. 263103-112 | D | 82.0 |

## 257 - 258

### PIPE BENDING MACHINE 3/8" - 2"

CE

◤ For gas and water pipes EN 10255 (DIN 2440/2441) up to max. 90°
◤ With bending tools as an option which can be used up to a max. 180°

**Available in various designs:**
- manually or electro-hydraulically operated
- with open or fold-open bending frame
- as the basic tool without bending former or as a set with bending former no. 263103-120

◤ Pressure 100 kN
◤ Delivery in assembly case

**Optional bending tools under no. 263 - 267 available for:**
- Distilling pipes EN 10220 (DIN 2448) from 3/8 to 1.1/2" or 25 to 51 mm
- Railing tubes from 3/8 to 1.1/4"
- Electrical installation pipes EN 60423 from M12 to M40
- Metric pipes from 14 to 51 mm
- Multi-layer composite pipes from 40 to 63 mm (no. 258
- Gas and water pipes EN 10255 (DIN 2440/2441) from 3/4 to 1.1/2" up to 180°
- Metric pipes from 25 to 50 mm up to 180°
- straightening steel pipes and scaffold tubes 1.1/2"

◤ Bending tools for stainless steel pipes on request

C

D

| Code | No. | included in delivery | Ill. | |
|---|---|---|---|---|
| 4587400 | **257000** | manual-hydraulic, fold-open bending frame, without bending formers | A | 54.0 |
| 4587590 | **257100** | manual-hydraulic, fold-open bending frame, with 7 bending formers no. 263103-120 | A | 75.0 |
| 4587670 | **257500** | electro-hydraulic 380-415 V, fold-open bending frame, without bending formers | B | 78.0 |
| 4587750 | **257510** | electro-hydraulic 380-415 V, fold-open bending frame, with 7 bending formers no. 263103-120 | B | 99.0 |
| 4587830 | **257600** | electro-hydraulic 230 V, fold-open bending frame, without bending formers | B | 78.0 |
| 4587910 | **257610** | electro-hydraulic 230 V, fold-open bending frame, with 7 bending formers no. 263103-120 | B | 99.0 |
| 4588050 | **258000** | manual-hydraulic, open bending frame, without bending formers | C | 73.0 |
| 4588130 | **258100** | manual-hydraulic, open bending frame, with 7 bending formers no. 263103-120 | C | 95.0 |
| 4588210 | **258500** | electro-hydraulic 380-415 V, open bending frame, without bending formers | D | 98.0 |
| 4588480 | **258510** | electro-hydraulic 380-415 V, open bending frame, with 7 bending formers no. 263103-120 | D | 119.0 |
| 4588560 | **258600** | electro-hydraulic 230 V, open bending frame, without bending formers | D | 98.0 |
| 4588640 | **258610** | electro-hydraulic 230 V, open bending frame, with 7 bending formers no. 263103-120 | D | 119.0 |

Quantities in packs may vary.

## 259 - 260

### PIPE BENDING MACHINE 3/8" - 3"

CE

◤ For gas and water pipes EN 10255 (DIN 2440/2441) up to max. 90°

**Available in various designs:**
- manually or electro-hydraulically operated
- with open or fold-open bending frame
- as the basic tool without bending former or as a set with bending former no. 263103-130

◤ Pressure 160 kN
◤ Delivery in assembly case

**Optional bending tools under no. 263 - 265 available for:**
- Distilling pipes EN 10220 (DIN 2448) from 3/8 to 2.1/2" or 25 to 70 mm
- Railing tubes from 3/8 to 2"
- Electrical installation pipes EN 60423 from M12 to M50
- Metric pipes from 14 to 70 mm

◤ Bending tools for stainless steel pipes on request

| Code | No. | included in delivery | III. | |
|---|---|---|---|---|
| 4588720 | **259000** | manual-hydraulic, fold-open bending frame, without bending formers | A | 98.0 |
| 4588800 | **259100** | manual-hydraulic, fold-open bending frame, with 9 bending formers no. 263103-130 | A | 173.0 |
| 4588990 | **259500** | electro-hydraulic 380-415 V, fold-open bending frame, without bending formers | B | 123.0 |
| 4589020 | **259510** | electro-hydraulic 380-415 V, fold-open bending frame, with 9 bending formers no. 263103-130 | B | 198.0 |
| 4589100 | **259600** | electro-hydraulic 230 V, fold-open bending frame, without bending formers | B | 123.0 |
| 4589290 | **259610** | electro-hydraulic 230 V, fold-open bending frame, with 9 bending formers no. 263103-130 | B | 198.0 |
| 4589370 | **260000** | manual-hydraulic, open bending frame, without bending formers | E | 120.0 |
| 4589450 | **260100** | manual-hydraulic, open bending frame, with 9 bending formers no. 263103-130 | E | 207.0 |
| 4589530 | **260500** | electro-hydraulic 380-415 V, open bending frame, without bending formers | F | 155.0 |
| 4589610 | **260510** | electro-hydraulic 380-415 V, open bending frame, with 9 bending formers no. 263103-130 | F | 242.0 |
| 4589880 | **260600** | electro-hydraulic 230 V, open bending frame, without bending formers | F | 155.0 |
| 4589960 | **260610** | electro-hydraulic 230 V, open bending frame, with 9 bending formers no. 263103-130 | F | 242.0 |

## 258

### PIPE BENDING MACHINE MSR 40 - 63 MM

CE

◤ For multi-layer composite pipes up to a max. 90°
◤ With open bending frame

**Available in various designs:**
- manually or electro-hydraulically operated
- as basic tool without bending former or as a set with bending former no. 263940-963 and no. 258940-963

◤ Pressure 100 kN
◤ Delivery in assembly case

**Optional bending tools under no. 263 - 267 available for:**
- Gas and water pipes EN 10255 (DIN 2440/2441) from 3/8 to 2"
- Distilling pipes EN 10220 (DIN 2448) from 3/8 to 1.1/2" or 25 to 51 mm
- Railing tubes from 3/8 to 1.1/4"
- Electrical installation pipes EN 60423 from M12 to M40
- Metric pipes from 14 to 51 mm
- Gas and water pipes EN 10255 (DIN 2440/2441) from 3/4 to 1.1/2" up to 180°
- Metric pipes from 25 to 50 mm up to 180°
- straightening steel pipes and scaffold tubes 1.1/2"

◤ Bending tools for stainless steel pipes on request

| Code | No. | included in delivery | |
|---|---|---|---|
| 4588050 | **258000** | manual-hydraulic, open bending frame, without bending formers | 73.0 |
| 2302829 | **258102** | manual-hydraulic, open bending frame, with bending formers no. 263940-963 and counter-supports no. 258940-963 | 79.0 |
| 4588210 | **258500** | electro-hydraulic 380-415 V, open bending frame, without bending formers | 98.0 |
| 2302837 | **258512** | electro-hydraulic 380-415 V, open bending frame, with bending formers no. 263940-963 and counter-supports no. 258940-963 | 104.0 |
| 4588560 | **258600** | electro-hydraulic 230 V, open bending frame, without bending formers | 98.0 |
| 2302845 | **258612** | electro-hydraulic 230 V, open bending frame, with bending formers no. 263940-963 and counter-supports no. 258940-963 | 104.0 |

2784 → 609

254 → 620

261

GEDORE also manufactures pipe benders for pipes up to 4" - please enquire!

2631 – 2671 → 621 – 622

Quantities in packs may vary.

## 254

### PUMP manual-hydraulic

- Available in various power stages
- For bending without great effort
- Option to re-fit with electrical drive no. 254950 (380-415 V) or no. 254955 (230 V)

| Code | No. | Size | Use in machine No. | |
|---|---|---|---|---|
| 4584730 | **254100** | 1.1/4 | 255-256 | 16.2 |
| 4584810 | **254200** | 2 | 249, 257-258, 2804 | 21.5 |
| 4585030 | **254300** | 3 | 259-260 | 29.3 |

## 254

### PUMP electro-hydraulic

- Available in various power stages
- No. 254601 and no. 254651 with electrical limiter for continuous pre-setting and repetition in the production of pipe bends

CE

without electrical limiter

with electrical limiter

| Code | No. | Size | Use in machine No. | Connection voltage Volt | |
|---|---|---|---|---|---|
| 4585380 | **254500** | 1.1/4 | 255-256 | 380-415 | 35.0 |
| 4585460 | **254550** | 1.1/4 | 255-256 | 230 | 35.0 |
| 4585540 | **254600** | 2 | 257-258 | 380-415 | 40.0 |
| 1599984 | **254601** | 2 | 249, 2804 | 380-415 | 41.0 |
| 4585620 | **254650** | 2 | 257-258 | 230 | 40.0 |
| 1599992 | **254651** | 2 | 249, 2804 | 230 | 40.8 |
| 4585700 | **254700** | 3 | 259-260 | 380-415 | 48.0 |
| 4585890 | **254750** | 3 | 259-260 | 230 | 48.0 |

## 269

### HYDRAULIC OIL 1 litre

- For use with all GEDORE hydraulic pumps
- The volume stated is required each time

| Code | No. | for pumps | required volume litre | | |
|---|---|---|---|---|---|
| 4599920 | **269000** | 1.1/4"<br>2"<br>3" | 0,90<br>1,25<br>1,90 | 880 | 1 |

## E 254

### GASKET SET

- For all GEDORE hydraulic pumps with machine number 254.....
- For equipment with other than the stated machine no. available on request
- Contains the most-frequently required wear parts
- We also recommend that the hydraulic oil is changed each time, see no. 269

| Code | No. | for | | |
|---|---|---|---|---|
| 4687890 | **254160** | Machine no. 2541... | 70 | 1 |
| 4689080 | **254260** | Machine no. 2542... | 75 | 1 |
| 4690170 | **254360** | Machine no. 2543... | 80 | 1 |
| 4690840 | **254560** | Machine no. 2545... | 70 | 1 |
| 4624620 | **254660** | Machine no. 2546... | 75 | 1 |
| 4691140 | **254760** | Machine no. 2547... | 80 | 1 |

When ordering spares, do indicate the pump number affixed at the pump housing

## E 255 - E 260

### BENDING FRAME

- Available in the open or fold-open design
- Without add-on components

fold-open

open

| Code | No. | Size | Use in machine No. | Execution | |
|---|---|---|---|---|---|
| 4641200 | **255010** | 1.1/4 | 255 | fold-open | 7.7 |
| 4641550 | **256010** | 1.1/4 | 256 | open | 15.4 |
| 4642010 | **257010** | 2 | 257 | fold-open | 12.4 |
| 4642440 | **258010** | 2 | 258 | open | 31.2 |
| 4642870 | **259010** | 3 | 259 | fold-open | 37.2 |
| 4643170 | **260010** | 3 | 260 | open | 95.0 |

## E 255 - E 260

### COUNTER-SUPPORT (PIECE)

- Please note: 2 pieces of them are needed

1.1/4" 2" 3"

| Code | No. | Size | Use in machine No. | | |
|---|---|---|---|---|---|
| 4641390 | **255015** | 1.1/4 | 255 | 1.6 | 1 |
| 4641630 | **256015** | 1.1/4 | 256 | 1.4 | 1 |
| 4642280 | **257015** | 2 | 257 | 3.2 | 1 |
| 4642520 | **258015** | 2 | 258 | 2.9 | 1 |
| 4642950 | **259015** | 3 | 259 | 5.3 | 1 |
| 4643250 | **260015** | 3 | 260 | 4.3 | 1 |

Quantities in packs may vary.

## E 255 - E 260

### COUNTER-SUPPORT FIXING PIN (PIECE)

- Please note: 2 pieces of them are needed

| Code | No. | Size | Use in machine No. | | |
|---|---|---|---|---|---|
| 4641470 | **255020** | 1.1/4 | 255 | 300 | 1 |
| 4641710 | **256020** | 1.1/4 | 256 | 850 | 1 |
| 4642360 | **257020** | 2 | 257 | 440 | 1 |
| 4642600 | **258020** | 2 | 258 | 960 | 1 |
| 4643090 | **259020** | 3 | 259 | 480 | 1 |
| 4643330 | **260020** | 3 | 260 | 2020 | 1 |

## E 255 - E 260

### U-YOKE

| Code | No. | Size | Use in machine No. | | |
|---|---|---|---|---|---|
| 4721660 | **256030** | 1.1/4 | 255-256 | 180 | 1 |
| 4641980 | **258030** | 2 | 249, 257-258, 2804 | 400 | 1 |
| 4643410 | **260030** | 3 | 259-260 | 480 | 1 |

## 254

### ELECTRICAL CONVERSION KIT

- Complete retrofitting set for hand hydraulic pumps consisting of electric motor (380-415 V or 230 V), cam drive, conveying unit, carrying handle and all incidental parts needed
- For all hand-operated GEDORE hydraulic pumps 1.1/4", 2" and 3" from 2001, for older pumps on request

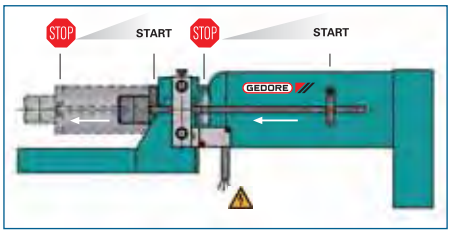
- * Can only be used in connection with electrical limiter no. 254680

| Code | No. | Use in machine No. | Connection voltage Volt | |
|---|---|---|---|---|
| 4718870 | **254950** | 249*, 255-260, 2804* | 380-415 | 19.0 |
| 4718950 | **254955** | 249*, 255-260, 2804* | 230 | 19.0 |

## 254

### ELECTRICAL LIMITER

- For continuous pre-setting and repetition in the production of pipe bends
- Electrically-powered pipe and angle bending tools no. 249 and 2804 can be upgraded
- Enamelled black




| Code | No. | Use in machine No. | |
|---|---|---|---|
| 1441345 | **254680** | 249, 2804 | 750 |

## 254

### EXTENSION CABLE

- For electro-hydraulic pumps 1.1/4", 2" and 3"

380-415 V

230 V

| Code | No. | Description | Connection voltage Volt | | |
|---|---|---|---|---|---|
| 4694080 | **254982** | CEE extension cable 5 m | 380-415 | 1.7 | 1 |
| 4694160 | **254983** | CEE extension cable 10 m | 380-415 | 3.1 | 1 |
| 4694240 | **254984** | Safety extension cable 5 m | 230 | 0.9 | 1 |
| 4694320 | **254985** | Safety extension cable 10 m | 230 | 1.6 | 1 |

## 268

### INSTALLATION TRIPOD, PIVOTABLE

- Available in 2 sizes
- For GEDORE pipe bender no. 255-260 (standard equipment for benders no. 246, 249 and 2804)
- Enamelled blue

| Code | No. | Height | Use | |
|---|---|---|---|---|
| 4599760 | **268000** | 480 | for manual-hydraulic benders 1.1/4" and 2" | 6.2 |
| 4599840 | **268001** | 680 | for manual-hydraulic benders 3" and electric-hydraulic benders 1.1/4" to 3" | 17.4 |



Quantities in packs may vary.

## 2631

### GREY CAST IRON BENDING FORMER UP TO 90°

- For gas and water pipes EN 10255 (DIN 2440/2441)
- Enamelled black

| Code | No. | Use in machine No. | Size | ∅ mm | r = mm | kg |
|---|---|---|---|---|---|---|
| 4539000 | **263103** | 255-260 | 3/8 | 17,2 | 45 | 0.9 |
| 4539190 | **263105** | 255-260 | 1/2 | 21,3 | 50 | 1.3 |
| 4539270 | **263107** | 255-260 | 3/4 | 26,9 | 75 | 2.2 |
| 4590460 | **263110** | 255-260 | 1 | 33,7 | 100 | 2.3 |
| 4590540 | **263112** | 255-260 | 1.1/4 | 42,4 | 115 | 2.4 |
| 4539350 | **263115** | 257-260 | 1.1/2 | 48,3 | 150 | 5.3 |
| 4539430 | **263120** | 257-260 | 2 | 60,3 | 200 | 6.7 |
| 4590620 | **263125** | 259-260 | 2.1/2 | 76,1 | 320 | 21.2 |
| 4590700 | **263130** | 259-260 | 3 | 88,9 | 380 | 30.4 |

## 2630

### STEEL BENDING FORMER UP TO 90°

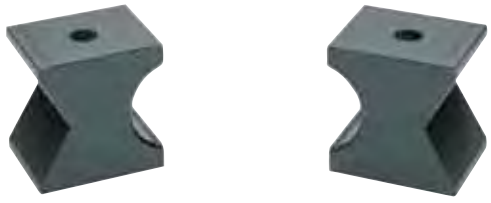
- For gas and water pipes EN 10255 (DIN 2440/2441)
- For surface-protective bending
- Phosphated

| Code | No. | Use in machine No. | Size | ∅ mm | r = mm | kg |
|---|---|---|---|---|---|---|
| 4644220 | **263003** | 255-260 | 3/8 | 17,2 | 45 | 1.9 |
| 4655850 | **263005** | 255-260 | 1/2 | 21,3 | 50 | 1.3 |
| 4655930 | **263007** | 255-260 | 3/4 | 26,9 | 75 | 2.2 |
| 4656070 | **263010** | 255-260 | 1 | 33,7 | 100 | 2.3 |
| 4656150 | **263012** | 255-260 | 1.1/4 | 42,4 | 126 | 5.8 |
| 4656230 | **263015** | 257-260 | 1.1/2 | 48,3 | 145 | 5.3 |
| 4656310 | **263020** | 257-260 | 2 | 60,3 | 200 | 11.2 |
| 4656580 | **263025** | 259-260 | 2.1/2 | 76,1 | 320 | 21.2 |
| 4656660 | **263030** | 259-260 | 3 | 88,9 | 380 | 44.5 |

## 2632

### COUNTER-SUPPORT (PAIR) UP TO 90°

- For surface-protective bending of uncoated steel pipes and the like
- Hardened, phosphated



| Code | No. | Use in machine No. | kg |
|---|---|---|---|
| 4591510 | **263267** | 257 | 9.1 |
| 4591780 | **263268** | 258 | 8.5 |
| 4591860 | **263269** | 259 | 15.6 |
| 4591940 | **263270** | 260 | 13.6 |

922

541

## 2640

### STEEL BENDING FORMER UP TO 90°

- For standard-walled distilling pipes EN 10220 (DIN 2448) and metric pipes
- Phosphated

| Code | No. | Use in machine No. | Size | ∅ mm | r = mm | kg |
|---|---|---|---|---|---|---|
| 4595260 | **264003** | 255-260 | 3/8 | 17,2 | 55 | 2.0 |
| 4595340 | **264005** | 255-260 | 1/2 | 21,3 | 75 | 2.5 |
| 4595420 | **264007** | 255-260 | 3/4 | 26,9 | 90 | 3.5 |
| 4595500 | **264010** | 255-260 | 1 | 33,7 | 130 | 5.4 |
| 4595690 | **264012** | 257-260 | 1.1/4 | 42,4 | 180 | 10.2 |
| 4596230 | **264048** | 257-260 | 1.1/2 | 48,3 | 220 | 11.8 |
| 4596660 | **264060** | 259-260 | 2 | 60,3 | 270 | 21.3 |
| 4596900 | **264076** | 259-260 | 2.1/2 | 76,1 | 420 | 49.3 |
| 4592750 | **264014** | 255-260 | | 14,0 | 70 | 2.2 |
| 4592830 | **264015** | 255-260 | | 15,0 | 70 | 2.3 |
| 4592910 | **264016** | 255-260 | | 16,0 | 70 | 2.2 |
| 4593050 | **264018** | 255-260 | | 18,0 | 90 | 3.4 |
| 4593130 | **264020** | 255-260 | | 20,0 | 90 | 3.4 |
| 4593210 | **264022** | 255-260 | | 22,0 | 90 | 3.2 |
| 4595770 | **264025** | 255-260 | | 25,0 | 115 | 3.6 |
| 4595850 | **264030** | 255-260 | | 30,0 | 140 | 6.7 |
| 4595930 | **264032** | 255-260 | | 32,0 | 140 | 6.6 |
| 4596070 | **264038** | 257-260 | | 38,0 | 170 | 8.2 |
| 4596150 | **264044** | 257-260 | | 44,5 | 190 | 10.7 |
| 4596310 | **264051** | 257-260 | | 51,0 | 220 | 15.4 |
| 4596580 | **264057** | 259-260 | | 57,0 | 250 | 15.1 |
| 4596740 | **264063** | 259-260 | | 63,5 | 270 | 22.1 |
| 4596820 | **264070** | 259-260 | | 70,0 | 315 | 23.9 |

## 2649

### STEEL BENDING FORMER UP TO 90°

- For electrical installation pipes EN 60423
- Phosphated

| Code | No. | Use in machine No. | ∅ mm | r = mm | kg |
|---|---|---|---|---|---|
| 1549626 | **264912** | 255-260 | M12 | 115 | 4.1 |
| 4597390 | **264916** | 255-260 | M16 | 115 | 4.1 |
| 1549634 | **264920** | 255-260 | M20 | 130 | 5.4 |
| 1549642 | **264925** | 257-260 | M25 | 160 | 5.7 |
| 1549650 | **264932** | 257-260 | M32 | 170 | 8.7 |
| 1549669 | **264940** | 257-260 | M40 | 220 | 10.4 |
| 1549677 | **264950** | 259-260 | M50 | 250 | 19.5 |

## 2650

### STEEL BENDING FORMER UP TO 90°

- For railing pipes with wall thickness from 1.75 to 2.00 mm
- Phosphated

| Code | No. | Use in machine No. | Size | ∅ mm | r = mm | kg |
|---|---|---|---|---|---|---|
| 4539510 | **265003** | 255-260 | 3/8 | 17,2 | 110 | 3.6 |
| 4598280 | **265005** | 255-260 | 1/2 | 21,3 | 110 | 3.6 |
| 4598010 | **265007** | 255-260 | 3/4 | 26,9 | 137 | 6.1 |
| 4598360 | **265010** | 257-260 | 1 | 33,7 | 190 | 9.4 |
| 4545830 | **265012** | 257-260 | 1.1/4 | 42,4 | 220 | 12.4 |
| 4644650 | **265015** | 259-260 | 1.1/2 | 48,3 | 250 | 13.7 |
| 4644730 | **265020** | 259-260 | 2 | 60,3 | 315 | 25.0 |

Quantities in packs may vary.

## 2633

### STEEL BENDING FORMER UP TO 180°

- For gas and water pipes EN 10255 (DIN 2440/2441)
- For bends up to 180° piston extension no. 260819 and counter-support no. 263503 - 263504 are required
- Phosphated

| Code | No. | Use in machine No. | Size | ∅ mm | r = mm | |
|---|---|---|---|---|---|---|
| 4592240 | **263307** | 257-258 | 3/4 | 26,9 | 110 | 4.7 |
| 4592320 | **263310** | 257-258 | 1 | 33,7 | 115 | 6.1 |
| 4592400 | **263312** | 257-258 | 1.1/4 | 42,4 | 115 | 6.4 |
| 4592590 | **263315** | 257-258 | 1.1/2 | 48,3 | 140 | 9.4 |

## 2634

### STEEL BENDING FORMER UP TO 180°

- For metric pipes
- For bends up to 180° piston extension no. 260819 and counter-support no. 263503 - 263504 are required
- Phosphated

| Code | No. | Use in machine No. | ∅ mm | r = mm | |
|---|---|---|---|---|---|
| 4593480 | **263425** | 257-258 | 25 | 110 | 3.5 |
| 4593560 | **263428** | 257-258 | 28 | 110 | 6.6 |
| 4593640 | **263430** | 257-258 | 30 | 110 | 6.4 |
| 4593720 | **263432** | 257-258 | 32 | 130 | 7.4 |
| 4593800 | **263435** | 257-258 | 35 | 130 | 7.1 |
| 4593990 | **263438** | 257-258 | 38 | 150 | 10.8 |
| 4594020 | **263440** | 257-258 | 40 | 150 | 10.3 |
| 4594100 | **263442** | 257-258 | 42 | 150 | 11.9 |
| 4594290 | **263448** | 257-258 | 48 | 150 | 11.3 |
| 4594370 | **263450** | 257-258 | 50 | 150 | 10.8 |

## 2608

### WORKING PISTON EXTENSION

- For producing bends up to 180°
- For bending formers no. 2633 and 2634

| Code | No. | ⇤mm⇥ | |
|---|---|---|---|
| 4696450 | **260819** | 160 | 2.4 |

## 2635

### COUNTER-SUPPORT (PAIR) UP TO 180°

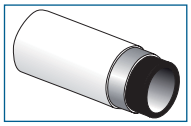
- For producing hairpin bends up to 180°
- For bending formers no. 2633 and 2634
- Enamelled blue

| Code | No. | Use in machine No. | |
|---|---|---|---|
| 4594610 | **263503** | 257 | 17.5 |
| 4594880 | **263504** | 258 | 16.8 |

## 2639

### BENDING FORMER MSR UP TO 90°

- For multi-layer composite pipes
- A counter-support set no. 2589 is needed for each size
- For surface-protective bending
- Made of plastic

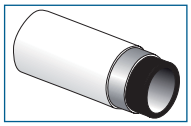


| Code | No. | Use in machine No. | ∅ mm | r = mm | |
|---|---|---|---|---|---|
| 2302853 | **263940** | 258 | 40 | 160 | 1.7 |
| 2302861 | **263950** | 258 | 50 | 200 | 2.1 |
| 2302888 | **263963** | 258 | 63 | 220 | 2.4 |

## 2589

### COUNTER-SUPPORT (PAIR) MSR UP TO 90°

- For surface-protective bending of multi-layer composite pipes
- Made of plastic



| Code | No. | Use in machine No. | |
|---|---|---|---|
| 2302918 | **258940** | 258 | 2.1 |
| 2302934 | **258950** | 258 | 2.0 |
| 2302942 | **258963** | 258 | 1.9 |

## 2670

### STRAIGHTENING TOOL

- For steel pipes and scaffold tubes 1.1/2"
- We recommend its use together with the counter-supports no. 267101 - 267102
- Phosphated

| Code | No. | Use in machine No. | Size | ∅ mm | |
|---|---|---|---|---|---|
| 4697690 | **267015** | 257-258 | 1.1/2 | 48,3 | 6.2 |

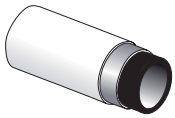
## 2671

### STRAIGHTENING COUNTER-SUPPORT (PAIR)

- For steel pipes and scaffold tubes 1.1/2"
- The ideal supplement for straightening tool no. 267
- Phosphated

| Code | No. | Use in machine No. | Size | ∅ mm | |
|---|---|---|---|---|---|
| 1548379 | **267101** | 257 | 1.1/2 | 48,3 | 8.3 |
| 1546961 | **267102** | 258 | 1.1/2 | 48,3 | 7.7 |

286



626



Quantities in packs may vary.

# ECCENTRIC ANGLE BENDERS

## max. bending capacities Angle benders no. 280

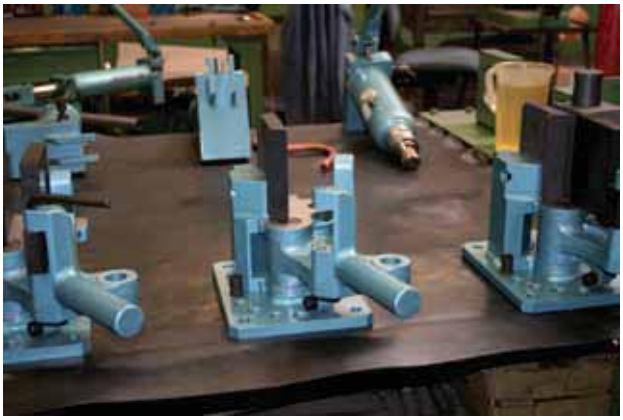
| | 70 mm working height | | 100 mm working height | | 120 mm working height | |
|---|---|---|---|---|---|---|
| | cold mm | hot mm | cold mm | hot mm | cold mm | hot mm |
| **Flat steel EN 10058 (DIN 1017) (material strength 370 N/mm²)** | 70 x 6<br>(70 x 10)*<br>(50 x 15)*<br>(30 x 20)* | 70 x 10<br>(70 x 20)*<br>(50 x 25)* | 100 x 10<br>80 x 12<br>50 x 15<br>30 x 20 | 100 x 20<br>80 x 25 | 120 x 8<br>100 x 10<br>80 x 12<br>50 x 15<br>30 x 20 | 120 x 20<br>80 x 25 |
| **Square steel stock EN 10059 (DIN 1014) (material strength 370 N/mm²)** | 6<br>(22)* | 10<br>(30)* | 22 | 30 | 22 | 30 |
| **Round steel stock EN 10060 (DIN 1013) (material strength 370 N/mm²)** | 6<br>(25)* | 10<br>(30)* | 25 | 30 | 25 | 30 |
| **Angled steel stock EN 10056-1 (DIN 1028) (material strength 370 N/mm²)** | 70 x 6 | 70 x 9 | 100 x 10 | 100 x 12 | 120 x 10 | 120 x 15 |
| **CU-flat bars EN 13601 (material strength 250 N/mm²)** | 60 x 6<br>(60 x 30)* | | 100 x 30 | | 120 x 10<br>100 x 30 | |
| **AL-flat bars EN 754-5 (DIN 1769) (material strength 160 N/mm²)** | 70 x 10<br>(70 x 30)* | | 100 x 30 | | 120 x 15<br>100 x 30 | |

*** optional bending tool no. 280072 is necessary**

## 280

### ECCENTRIC ANGLE BENDER 70 mm working height

- For round, flat and angled stocks in steel, copper or aluminium up to 90°
- With bending tool sharp-edged / r = 4 mm no. 280071 for material thicknesses up to 6 mm
- Optionally available is the bending tool no. 280072 for greater material thicknesses - see E 280 bending tools
- With stepless adjustable angle stop no. 280125
- With length stop 400 mm no. 280130
- Manual base unit for mounting on a workbench (with optional available angle no. 280250 for vice fixture)



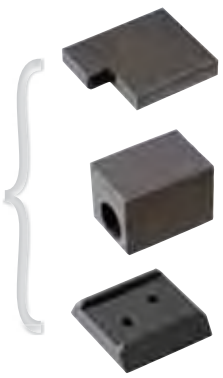
| Code | No. | Included in delivery | |
|---|---|---|---|
| 4539940 | **280070** | Basic tool 70 mm working height, manual, with bending lever extension no. 268230 | 24.3 |

## E 280

### ACCESSORIES

280250

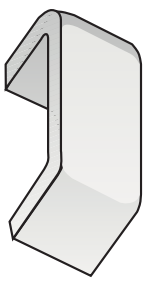
280110/
280174



| Code | No. | Description | | |
|---|---|---|---|---|
| 2009544 | **280250** | Angle for vice fixture | 3.3 | 1 |
| 4644810 | **280110** | Modification set for 100 mm working height | 7.5 | 1 |
| 4645380 | **280174** | Modification set for 120 mm working height | 9.0 | 1 |

## E 280

### BENDING TOOLS



280071

280072

| Code | No. | Description | | |
|---|---|---|---|---|
| 4605240 | **280071** | Standard bending tool, sharp-edged / r = 4 mm for material thicknesses up to 6 mm | 1.0 | 1 |
| 4605320 | **280072** | Radiused bending tool r = 15 mm / r = 25 mm for material thicknesses up to 30 mm | 1.1 | 1 |

Quantities in packs may vary.

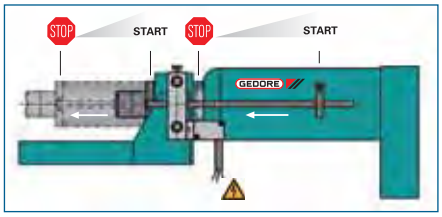
## 280

### ECCENTRIC ANGLE BENDER 100 mm working height

- For round, flat and angled stocks in steel, copper or aluminium up to 90°
- With bending tool sharp-edged / r = 4 mm no. 280111 for material thicknesses up to 6 mm
- With bending tool r = 15 mm / r = 25 mm no. 280112 for material thicknesses up to 30 mm
- Optionally available are bending tools for a diversity of applications - see E 280 bending tools
- With stepless adjustable angle stop no. 280125, elektro-hydraulische Geräte mit stufenlos einstellbarer Endabschaltung
- With length stop 400 mm no. 280130
- Manual base unit for mounting on a workbench (with optional available angle no. 280250 for vice fixture)
- Hydraulic equipment mounted on pivotable tripod

280400

280401



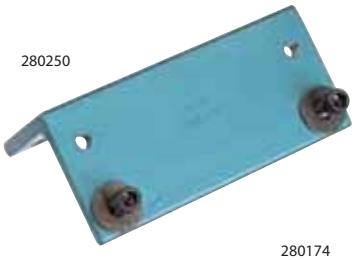
280100

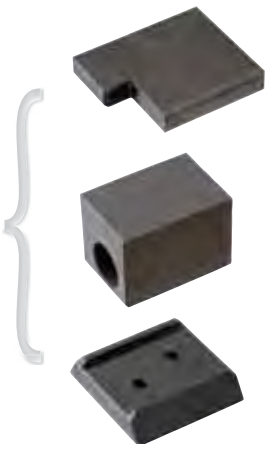
| Code | No. | Included in delivery | |
|---|---|---|---|
| 4535010 | **280100** | Basic tool 100 mm working height, manual, with bending lever extension no. 268230 | 26.5 |
| 4606640 | **280400** | Basic tool 100 mm working height, on base plate with tripod No. 280210 and pump, manual-hydraulic no. 254200 | 102.4 |
| 4606720 | **280401** | Basic tool 100 mm working height, on base plate with tripod No. 280210 and pump, electro-hydraulic, 380-415 V no. 254601 | 126.9 |
| 1547585 | **280402** | Basic tool 100 mm working height, on base plate with tripod No. 280210 and pump, electro-hydraulic, 230 V no. 254651 | 126.9 |

## E 280

### ACCESSORIES

- Pumps exchangeable for benders no. 249, 257 and 258

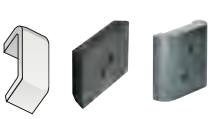

280250

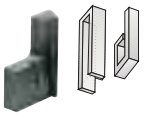

280174

| Code | No. | Description | | |
|---|---|---|---|---|
| 2009544 | **280250** | Angle for vice fixture | 3.3 | 1 |
| 4645380 | **280174** | Modification set for 120 mm working height | 9.0 | 1 |
| 4606560 | **280210** | Base plate with tripod for use with hydraulic pump (in connection with no. 254200, no. 254601 or no. 254651) | 33.2 | 1 |
| 4584810 | **254200** | Pump 2", manual-hydraulic | 21.5 | 1 |
| 1599984 | **254601** | Pump 2" 380-415 V with electrical limiter | 41.0 | 1 |
| 1599992 | **254651** | Pump 2" 230 V with electrical limiter | 40.8 | 1 |

## E 280

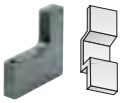
### BENDING TOOLS


280111 280112


280113-114

280117

280115


280116

| Code | No. | Description | | |
|---|---|---|---|---|
| 4605400 | **280111** | Standard bending tool, sharp-edged / r = 4 mm for material thicknesses up to 6 mm | 1.5 | 1 |
| 4605590 | **280112** | Radiused bending tool r = 15 mm / r = 25 mm for material thicknesses up to 30 mm | 1.6 | 1 |
| 4605670 | **280113** | Bending tool for producing saddles and rectangular bends, sharp-edged for material thicknesses up to 3 mm | 0.9 | 1 |
| 4605750 | **280114** | Bending tool for producing saddles and rectangular bends, r = 4 mm for material thicknesses up to 6 mm | 0.9 | 1 |
| 4605830 | **280115** | Bending tool for making diamond bends | 0.7 | 1 |
| 4605910 | **280116** | Bending tool for high saddles | 1.2 | 1 |
| 4606050 | **280117** | Offset block for narrow saddles | 2.4 | 1 |



Quantities in packs may vary.

## 280

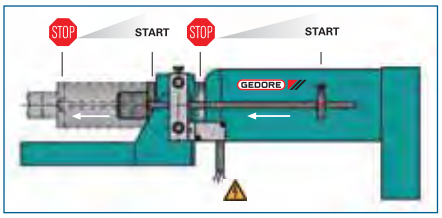
### ECCENTRIC ANGLE BENDER 120 mm working height

- For round, flat and angled stocks in steel, copper or aluminium up to 90°
- With bending tool sharp-edged / r = 4 mm no. 280161 for material thicknesses up to 6 mm
- With bending tool r = 15 mm / r = 25 mm no. 280162 for material thicknesses up to 30 mm
- With stepless adjustable angle stop no. 280125, elektro-hydraulische Geräte mit stufenlos einstellbarer Endabschaltung
- With length stop 400 mm no. 280130
- Manual base unit for mounting on a workbench (with optional available angle no. 280250 for vice fixture)
- Hydraulic equipment mounted on pivotable tripod

280421

280420

280120




| Code | No. | Included in delivery | |
|---|---|---|---|
| 4606130 | **280120** | Basic tool 120 mm working height, manual, with bending lever extension no. 268230 | 27.9 |
| 4645620 | **280420** | Basic tool 120 mm working height, on base plate with tripod, No. 280210 and pump, manual-hydraulic no. 254200 | 103.8 |
| 4645700 | **280421** | Basic tool 120 mm working height, on base plate with tripod, No. 280210 and pump, electro-hydraulic, 380-415 V no. 254601 | 128.3 |
| 1544950 | **280422** | Basic tool 120 mm working height, on base plate with tripod, No. 280210 and pump, electro-hydraulic, 230 V no. 254651 | 128.3 |

## E 280

### ACCESSORIES

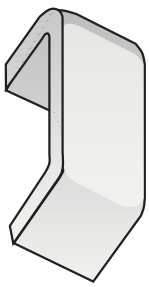
- Pumps exchangeable for benders no. 249, 257 and 258

280250

| Code | No. | Description | | |
|---|---|---|---|---|
| 2009544 | **280250** | Angle for vice fixture | 3.3 | 1 |
| 4606560 | **280210** | Base plate with tripod for use with hydraulic pump (in connection with no. 254200, no. 254601 or no. 254651) | 33.2 | 1 |
| 4584810 | **254200** | Pump 2", manual-hydraulic | 21.5 | 1 |
| 1599984 | **254601** | Pump 2" 380-415 V with electrical limiter | 41.0 | 1 |
| 1599992 | **254651** | Pump 2" 230 V with electrical limiter | 40.8 | 1 |

## E 280

### BENDING TOOLS



280161

280162

| Code | No. | Description | | |
|---|---|---|---|---|
| 4645030 | **280161** | Standard bending tool, sharp-edged / r = 4 mm for material thicknesses up to 6 mm | 1.8 | 1 |
| 4645110 | **280162** | Radiused bending tool r = 15 mm / r = 25 mm for material thicknesses up to 30 mm | 2.0 | 1 |

Quantities in packs may vary.

# RING BENDING MACHINE

## Maximum bending capacities Ring bending machine no. 285

| | mm |
|---|---|
| **Flat bar EN 10058 (DIN 1017) (material strength 370 N/mm²)** | 50 x 6 |
| **Flat bar, vertical EN 10058 (DIN 1017) (material strength 370 N/mm²)** | 20 x 5 * |
| **Square iron EN 10059 (DIN 1014) (material strength 370 N/mm²)** | 13 x 13 |
| **Round bar EN 10060 (DIN 1013) (material strength 370 N/mm²)** | 15 * |
| **Angled sections EN 10056-1 (DIN 1028) (material strength 370 N/mm²)** | 20 x 20 x 3 * |
| **T-iron EN 10055 (DIN 1024) (material strength 370 N/mm²)** | 20 x 20 x 3 * |
| **Pipes** | 6 x 1.0 upto 18 x 1.5 * |

*** Please note: Optional bending tools are required - see E 285**

## 285

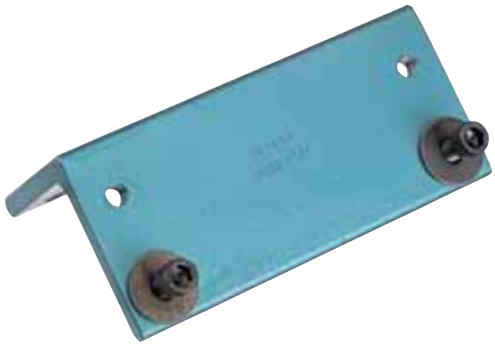
### RING BENDING MACHINE

- Manual 3-roller ring bending machine
- Vertical operation
- Standard roller set for flat and square stock included
- With two speeds
- Base unit for mounting on a workbench (with optional available angle no. 285250 for vice fixture)
- Enamelled blue

| Code | No. | |
|---|---|---|
| 4606800 | **285000** Basic tool with standard roller set | 30.0 |

## E 285

### ACCESSORIES



| Code | No. | | |
|---|---|---|---|
| 2009552 | **285250** Angle for vice fixture | 3.3 | 1 |

## E 285

### BENDING TOOLS

285001 285002 285006-018

| Code | No. | | |
|---|---|---|---|
| 4606990 | **285001** 2-piece upper roller for shaping L and T sections, with leg inside | 1.5 | 1 |
| 4607020 | **285002** Set 2-piece lower rollers for shaping vertical flat stock, L and T sections, with leg outside | 2.7 | 1 |
| 4607100 | **285006** 1 set rollers for shaping tubes 6x1 mm (1 upper drive roller, 2 lower rollers) | 2.0 | 1 |
| 4607290 | **285008** 1 set rollers for shaping tubes 8x1 mm (1 upper drive roller, 2 lower rollers) | 2.0 | 1 |
| 4607370 | **285010** 1 set rollers for shaping tubes 10x1 mm (1 upper drive roller, 2 lower rollers) | 1.9 | 1 |
| 4607450 | **285012** 1 set rollers for shaping tubes 12x1 mm (1 upper drive roller, 2 lower rollers) | 1.9 | 1 |
| 4607530 | **285014** 1 set rollers for shaping tubes 14x1 mm (1 upper drive roller, 2 lower rollers) | 1.8 | 1 |
| 4607610 | **285015** 1 set rollers for shaping tubes 15x1 mm (1 upper drive roller, 2 lower rollers) | 1.8 | 1 |
| 4607880 | **285016** 1 set rollers for shaping tubes 16x1 mm (1 upper drive roller, 2 lower rollers) | 1.7 | 1 |
| 4607960 | **285018** 1 set rollers for shaping tubes 18x1.5 mm (1 upper drive roller, 2 lower rollers) | 1.7 | 1 |

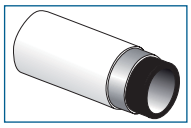
# PIPE STRAIGHTENING TOOL

## 286

### PIPE STRAIGHTENING TOOL MSR

- From 14 to 26 mm Ø
- For multi-layer composite pipes (MSR) and soft copper pipes
- For manual use or in combination with workbench fixture no. 286102 for stationary use

286102



286000

| Code | No. | |
|---|---|---|
| 1523066 | **286000** Pipe straightening tool | 2.5 |
| 2338386 | **286102** Work bench fixture | 1.8 |

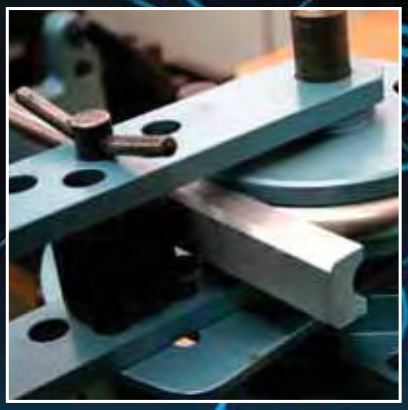
**2670 • 2671**

Straightening tool for steel pipes and scaffold tubes no. 2760 + 2671

622



Quantities in packs may vary.



## Specialised tools + for special purposes


| | | |
|---|---|---|
| SERVICE / FEATURES | | 630 – 631 |
| TYRE FITTING / REMOVAL | | 632 – 634 |
| BRAKES | | 634 |
| OIL SERVICE / V-BELTS / FILTERS | | 635 |
| PISTONS / VALVES | | 636 – 637 |
| ELECTRIC SYSTEM | | 638 – 639 |
| SPARK PLUGS | | 640 – 641 |
| LIFTERS | | 642 |
| EXHAUST / ENGINE / VARIOUS | | 643 |
| CAR BODY WORK | | 644 – 645 |
| BODYWORK TOOL SETS / SHEET METAL FORMING TOOLS | | 646 |
| EQUIPMENT | | 647 |


KLANN

AUTOMOTIVE SPECIAL TOOLS

www.klann-online.com

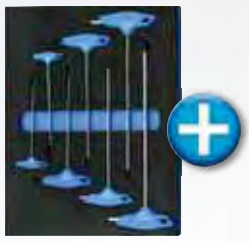
648 - 649

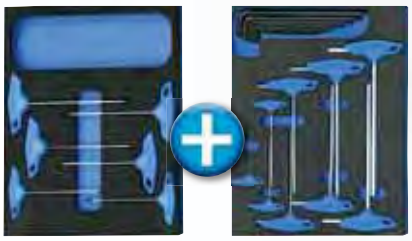
## On request:
## Mobile tool cabinet and tool chest with 365-piece MOTORCYCLE tool set

- Ideal for service, maintenance and repair work
- Developed from everyday workshop routine
- Universal multi-use kit
- Metric and/or imperial tools
- With Check-Tool-system

# 365-PIECE
# 2005-2430 MOT

**2005 CT...**





**Mobile tool cabinet with 258-piece CAR tool set**

# 258-PIECE 2005 AUTO

**2005 CT...**

## Check-Tool-System 2005 CT

- 2-colour foam insert provides easy optical check of completeness
- Ideally suited for use in sensitive areas, where it is essential to ensure that no tools are left behind
- Underlay blue, overlay black. A visible blue pocket indicates a missing tool
- Each tool is securely held in its own pocket, prevented from slipping and protected from damage
- Grip recesses facilitate removal of the tools
- Clearly visible tool contours simplify replacement into the correct pocket
- Resistant to oil and grease

109

## Four-way wheel wrench

- Hot forged hexagon
- The collar, typical of GEDORE 4-way wheel wrenches, enlarges the welding area.
- The positive-fit joint remains solid even under extreme loading.

### 28 PKH

**2-WAY WHEEL WRENCH FOR CARS**

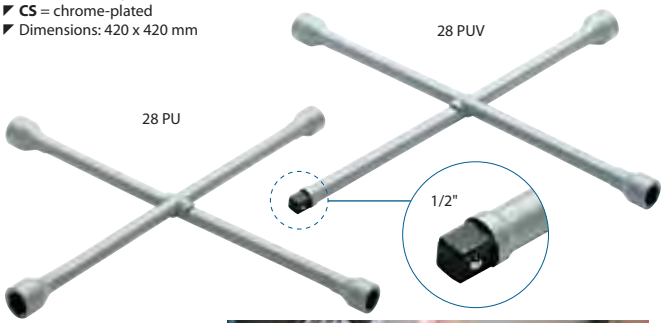
- An indispensible tool for all usual car wheel nuts
- With a protective central reinforcement (DBGM = German utility patent)
- Practical and strong, with long lever arm, a space-saver in the car boot
- GEDORE vanadium steel 31CrV3, chrome-plated
- Dimensions: 410 x 260 mm

| Code | No. | ⬡ mm | Ø mm | | |
|---|---|---|---|---|---|
| 6227290 | **28 PKH** | 17x19 (3/4") | 26x28,5 | 1020 | 1 |

### 28 PU + 28 PUV

**4-WAY WHEEL WRENCH FOR CARS**

- For car wheel nuts in metric and inch sizes
- Acc. to DIN 3119, ISO 6788
- With protective central reinforcement (DBGM = German utility patent)
- GEDORE vanadium steel 31CrV3
- GEDORIT silver powder-coated
- **CS** = chrome-plated
- Dimensions: 420 x 420 mm

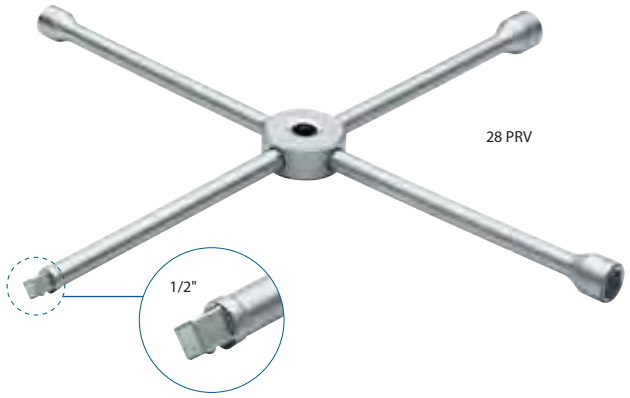


| Code | No. | ⬡ mm | Ø mm | | |
|---|---|---|---|---|---|
| 6227610 | **28 PU** | 17x19 (3/4")x21x11/16" | 26x28,5x30,5x26 | 1285 | 10 |
| 6227960 | **28 PU CS** | 17x19 (3/4")x21x11/16" | 26x28,5x30,5x26 | 1290 | 1 |
| 6228260 | **28 PUV** | 17x19 (3/4")x21x1/2" 4kt | 26x28,5x30,5x17,5 | 1315 | 10 |

### 28 PR + 28 PRV

**UNIVERSAL 4-WAY WHEEL WRENCH for cars and small trucks**

- Acc. to DIN 3119, ISO 6788
- With solid turned centre, for the car and truck workshop
- With extra long lever arm and great range of sockets
- GEDORE vanadium steel 31CrV3, chrome-plated
- Dimensions: 550 x 550 mm



| Code | No. | ⬡ mm | Ø mm | | |
|---|---|---|---|---|---|
| 6227530 | **28 PR** | 17x19 (3/4")x21x24 | 26x28,5x30,5x35,5 | 2315 | 1 |
| 6227880 | **28 PRV** | 17x19 (3/4")x21x1/2" 4kt | 26x28,5x30,5x17,5 | 2255 | 1 |

### 8573-00 · DMK 200

- For the controlled tightening of wheel nuts or studs, we recommend torque wrenches
- For truck wheels, we specially recommend the DR-LKW torque wrench
- For tightening and wrench sizes see tables in annex

264 - 276



Quantities in packs may vary.

## 28 CU

### 4-WAY WHEEL WRENCH FOR SMALL TRUCKS

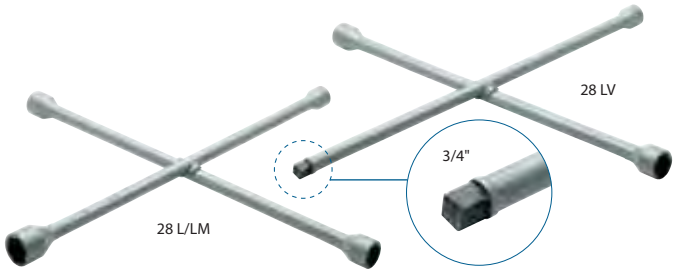
- For delivery vans and light trucks, buses and tractors
- Acc. to DIN 3119, ISO 6788
- GEDORE vanadium steel 31CrV3
- GEDORIT silver powder-coated
- Dimensions: 600 x 600 mm

| Code | No. | ⬡ mm | ∅ mm | | |
|---|---|---|---|---|---|
| 6228500 | **28 CU** | 19x24x22x27 (3/4x15/16x7/8x1.1/16") | 28,5x32x34,5x38,5 | 3155 | 1 |

## 28 L - LM - LV

### 4-WAY WHEEL WRENCH FOR TRUCKS

- For trucks, agricultural machines, tractors and industrial uses
- Acc. to DIN 3119, ISO 6788
- GEDORE vanadium steel 31CrV3
- GEDORIT silver powder-coated
- Dimensions: 750 x 750 mm

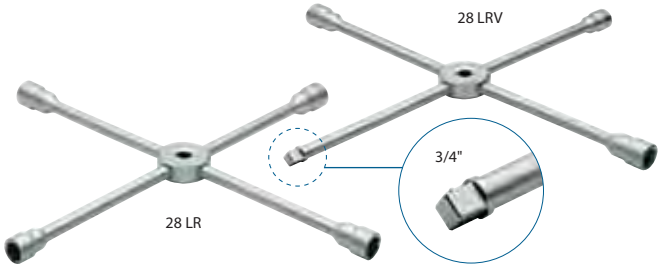



| Code | No. | ⬡ mm | ∅ mm | | |
|---|---|---|---|---|---|
| 6228770 | **28 LM** | 24x27x30x32 | 34,5x38,5x42x45 | 5555 | 1 |
| 6228850 | **28 L** | 24x27x32x38 | 34,5x38,5x45x52 | 5610 | 1 |
| 6229150 | **28 LV** | 24x32x27x3/4" 4kt | 34,5x45x38,5x26 | 5515 | 1 |

## 28 LR + 28 LRV

### 4-WAY WHEEL WRENCH FOR TRUCKS

- For trucks and heavy machines
- With turned centre, especially sturdy
- GEDORE vanadium steel 31CrV3, chrome-plated
- Dimensions: 750 x 750 mm




| Code | No. | ⬡ mm | ∅ mm | | |
|---|---|---|---|---|---|
| 6228930 | **28 LR** | 27x30x32x33 | 40x44x46x46 | 6085 | 1 |
| 6228420 | **28 LRV** | 27x30x32x3/4" 4kt | 40x44x46x26 | 5980 | 1 |

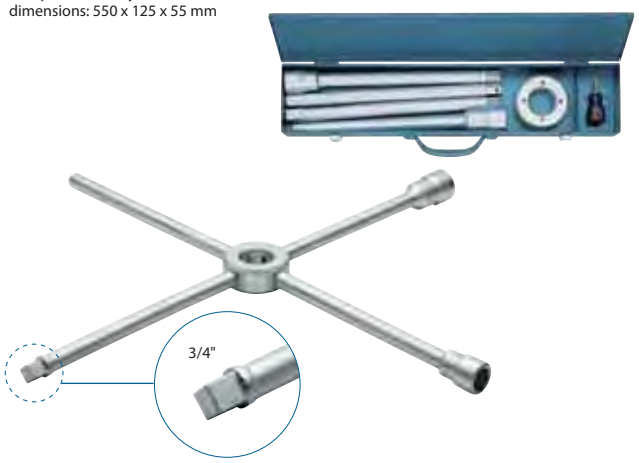

## 8568-35 DREMOMETER DR LKW

266

## 28 LRZ

### 4-WAY WHEEL WRENCH FOR TRUCKS

- For trucks and heavy machines
- With solid centre
- With plug-in arms and pin locking
- For practical stowage in buses and trucks
- GEDORE vanadium steel 31CrV3, chrome-plated. DBGM.G 8409214.9 (DBGM = German utility patent)
- Dimensions: 750 x 750 mm
- Complete in sturdy metal case with handle, dimensions: 550 x 125 x 55 mm



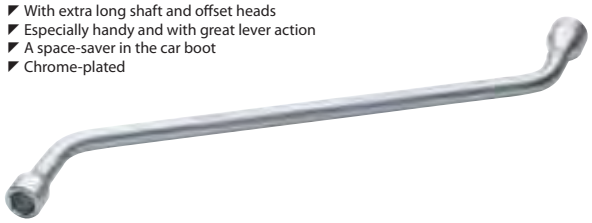

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6228690 | **28 LRZ** | **E-28 LRZ**-MS -DS -3/4" -27 -32<br>**2161 PH** 1 | 7.5 | 1 |

| Code | No. | Description | ⟷ mm ⟷ | Ø | | |
|---|---|---|---|---|---|---|
| 6224430 | **E-28 LRZ-MS** | Centre piece 35 mm, d 88 mm | 35 | 88 | 976 | 1 |
| 6224510 | **E-28 LRZ-DS** | Lever handle 354 mm, d 22 mm | 354 | 22 | 1022 | 1 |
| 6224780 | **E-28 LRZ-3/4** | Arm 3/4", 354 mm | 354 | 26 | 1096 | 1 |
| 6224860 | **E-28 LRZ-24** | Arm 24 mm, 354 mm | 354 | 36 | 1060 | 1 |
| 6224940 | **E-28 LRZ-27** | Arm 27 mm, 354 mm | 354 | 40 | 1154 | 1 |
| 6225080 | **E-28 LRZ-30** | Arm 30 mm, 354 mm | 354 | 44 | 1154 | 1 |
| 6225160 | **E-28 LRZ-32** | Arm 32 mm, 354 mm | 354 | 46 | 1300 | 1 |
| 1482440 | **2161 PH 1** | Screwdriver Stubby PH 1 | 75 | | 33 | 10 |

## 28 PX

### DOUBLE ENDED WHEEL WRENCH

- With extra long shaft and offset heads
- Especially handy and with great lever action
- A space-saver in the car boot
- Chrome-plated

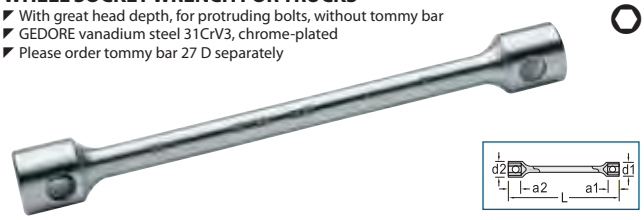


| Code | No. | ⬡ mm | ∅ mm | ⟷ mm ⟷ | | |
|---|---|---|---|---|---|---|
| 6228340 | **28 PX** | 17x19 (3/4") | 26x28,5 | 460 | 775 | 1 |

## 27

### WHEEL SOCKET WRENCH FOR TRUCKS

- With great head depth, for protruding bolts, without tommy bar
- GEDORE vanadium steel 31CrV3, chrome-plated
- Please order tommy bar 27 D separately




| Code | No. | ⬡ mm | ⬡ AF | L | $a_1$ | $a_2$ | $d_1$ | $d_2$ | Ø | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6225240 | **27 24x27** | 24 x 27 | 15/16 x 1.1/16 | 400 | 34.5 | 34.5 | 36 | 40 | | 1148 | 1 |
| 6220010 | **27 27x32** | 27 x 32 | | 400 | 34.5 | 34.5 | 40 | 46 | | 1453 | 1 |
| 6220280 | **27 28x32** | 28 x 32 | | 400 | 34.5 | 34.5 | 41 | 46 | | 1134 | 1 |
| 6220360 | **27 28x33** | 28 x 33 | | 400 | 34.5 | 34.5 | 44 | 47 | | 1424 | 1 |
| 6225910 | **27 30x32** | 30 x 32 | 1.3/16 x 1.1/4 | 400 | 34.5 | 34.5 | 44 | 46 | | 1459 | 1 |
| 6220440 | **27 30x33** | 30 x 33 | | 400 | 34.5 | 34.5 | 44 | 47 | | 1442 | 1 |
| 6225400 | **27 32x38** | 32 x 38 | 1.1/4 x 1.1/2 | 400 | 34.5 | 34.5 | 46 | 54 | | 1509 | 1 |
| 6227100 | **27 D** | | | 630 | | | | | 18 | 1260 | 1 |

Quantities in packs may vary.

## 38

### TYRE LEVER

- Profiled pattern, forged from solid stock
- With protective surfaces for light-alloy wheels
- GEDORE vanadium steel 31CrV3, chrome-plated

| Code | No. | mm | inch | | |
|---|---|---|---|---|---|
| 6332320 | **38 8** | 200 | 8 | 99 | 10 |
| 6332400 | **38 12** | 305 | 12 | 221 | 10 |
| 6332670 | **38 16** | 400 | 16 | 405 | 10 |
| 6332830 | **38 20** | 500 | 20 | 602 | 1 |
| 6332910 | **38 24** | 610 | 24 | 927 | 1 |

## 39

### TYRE LEVER heavy-duty pattern, for trucks

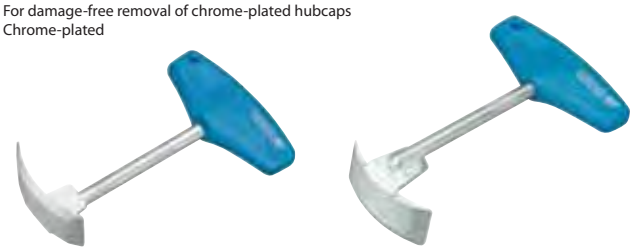
- Heavy-duty, offset pattern
- GEDORE vanadium steel 31CrV3, chrome-plated

| Code | No. | mm | inch | | |
|---|---|---|---|---|---|
| 6333050 | **39** | 610 | 24 | 1365 | 1 |

## 631

### HUBCAP REMOVING TOOL

- For damage-free removal of chrome-plated hubcaps
- Chrome-plated



| Code | No. | mm | | |
|---|---|---|---|---|
| 6520830 | **631** | 150 | 166 | 1 |

## 8276

### BALANCE WEIGHT PLIERS

- For removing, cutting, and attaching balancing weights
- GEDORE vanadium steel 31CrV3

| Code | No. | mm | inch | | |
|---|---|---|---|---|---|
| 6739350 | **8276-250 C** | 250 | 10 | 386 | 1 |

# BRAKES

## 135

### BRAKE SPRING PLIERS

- For drum brakes
- With special holder and support crown, particularly suitable for glued brake linings
- GEDORE vanadium steel 31CrV3, chrome-plated

| Code | No. | mm | inch | | |
|---|---|---|---|---|---|
| 6405300 | **135 13** | 330 | 13 | 389 | 1 |
| 6405490 | **135 19** | 480 | 19 | 956 | 1 |

## 135

### BRAKE SPRING PLIERS heavy-duty pattern

- For drum brakes
- With replaceable spring hooks (E-135 20) and hand protectors
- GEDORE vanadium steel 31CrV3, chrome-plated

| Code | No. | mm | inch | | |
|---|---|---|---|---|---|
| 6400180 | **135 20** | 500 | 20 | 1058 | 1 |
| 5400480 | **E-135 20** | | | 16 | 1 |

## 1600

### PLIERS FOR BRAKE CABLE SPRINGS

- For the installation and removal of handbrake cables

| Code | No. | mm | inch | | |
|---|---|---|---|---|---|
| 6630340 | **1600-402** | 227 | 8.1/2 | 234 | 1 |

## 643

### BRAKE CALIPER BRUSH

- For cleaning all brake calipers
- With blue plastic handle

| Code | No. | mm | Bristle length | | |
|---|---|---|---|---|---|
| 6531440 | **643** | 225 | 21 | 94 | 5 |

## 8726

### BRAKE CALIPER FILE

| Code | No. | mm | inch | | |
|---|---|---|---|---|---|
| 6770780 | **8726** | 260 | 10 | 131 | 1 |



Quantities in packs may vary.

# OIL SERVICE

## 299

### DRAIN PLUG WRENCH

- For square plugs on engine sumps and oil drums, in nine common sizes
- GEDORE vanadium steel 31CrV3, chrome-plated
- 5 square sizes: 8.7, 9.5, 10.5, 11.5, 13 mm
- 4 tapered sizes: 6.8-8.7, 10.5-13, 15.2-18, 16.5-19 mm
- One screwdriver blade: 5.5 x 18 mm

| Code | No. | mm | | |
|---|---|---|---|---|
| 6464580 | **299** | 220 | 459 | 5 |

## 298

### OIL CAN

- **298-00** / **298-01** Plastic oil can with sliding brass tube and cap
- **298-02** simple oil can in plastic

298-00 298-01 298-02

| Code | No. | Litre | Pint | | |
|---|---|---|---|---|---|
| 6390010 | **298-00** | 0.250 | 1/2 | 979 | 1 |
| 6390280 | **298-01** | 0.125 | 1/4 | 74 | 1 |
| 6390360 | **298-02** | 0.025 | 1/16 | 10 | 10 |

## 298-04

### OIL CAN

- Strong, cast iron pattern with pump, 300 ml

| Code | No. | Litre | Pint | | |
|---|---|---|---|---|---|
| 6390520 | **298-04** | 0.3 | 5/8 | 492 | 1 |

## 298-05

### OIL CAN

- For working in every position
- With double-stroke metal pump
- Strong, cast iron pattern, 300 ml

| Code | No. | Litre | Pint | | |
|---|---|---|---|---|---|
| 6390600 | **298-05** | 0.3 | 5/8 | 453 | 1 |

# V-BELTS / FILTERS

## 37 + 37 V

### UNIVERSAL FILTER WRENCH

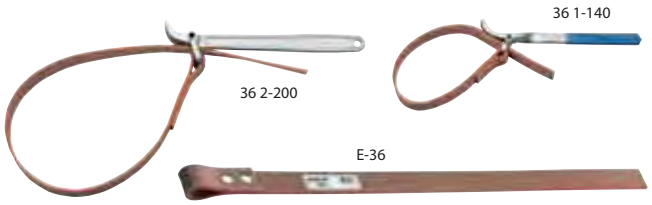
- For all usual oil filters and round screwed unions
- Adjustable metal strap, nickel-plated
- **37** with handle
- **37 V** with 1/2" square drive for all 1/2" tools

| Code | No. | mm | mm (appr.) | | |
|---|---|---|---|---|---|
| 6327670 | **37** | 80-110 | 285 | 349 | 1 |
| 6327750 | **37 V** | 80-110 | 150 | 265 | 1 |

## 36

### STRAP WRENCH

- With strong, non-slip fabric strap, extra wide = 25 mm
- 36 1-140 made from C45 steel
- 36 2-200 made from GEDORE vanadium steel 31CrV3
- Chrome-plated
- Spare straps E-36 1 / E-36 2




| Code | No. | mm | mm | ∅ mm | ∅ inch | | |
|---|---|---|---|---|---|---|---|
| 6327320 | **36 1-140** | 25 | 220 | 140 | 9/64 | 278 | 1 |
| 6327400 | **36 2-200** | 25 | 285 | 200 | 13/64 | 578 | 1 |
| 5327380 | **E-36 1-140** | 25 | 480 | | | 62 | 1 |
| 5327460 | **E-36 2-200** | 25 | 900 | | | 104 | 1 |

## 36 Z

### SPECIAL STRAP WRENCH

- For tightening and counter-holding V-belt pulley wheels

| Code | No. | mm | ∅ mm | ∅ inch | | |
|---|---|---|---|---|---|---|
| 6320070 | **36 Z-140** | 257 | 160 | 5/32 | 379 | 1 |
| 1380613 | **E-36 Z-140** | | | | 80 | 1 |

920 · 921 · 922

541

Quantities in packs may vary.

## 654

### VALVE GRINDER

- With automatic reversal of lapping direction
- For use in hand drills
- Supplied with suction cups 652-20, -25, -30, -37

| Code | No. | mm | Ø mm | | |
|---|---|---|---|---|---|
| 6535270 | **654** | 135 | 65 | 750 | 1 |

## 653

### VALVE LAPPING TOOL

- Hand-held type with suction cup 652-25
- Beech wood handle

| Code | No. | mm | Ø mm | | |
|---|---|---|---|---|---|
| 6532680 | **653** | 225 | 25 | 50 | 1 |

## 652

### SPARE RUBBER SUCTION CUP for 653 and 654

| Code | No. | mm | Ø mm | | |
|---|---|---|---|---|---|
| 6530120 | **652-20** | 38 | 20 | 10 | 10 |
| 6532410 | **652-25** | 38 | 25 | 11 | 10 |
| 6530200 | **652-30** | 38 | 30 | 12 | 10 |
| 6530390 | **652-37** | 38 | 37 | 16 | 10 |

## 124

### PLIERS FOR VALVE SEALS

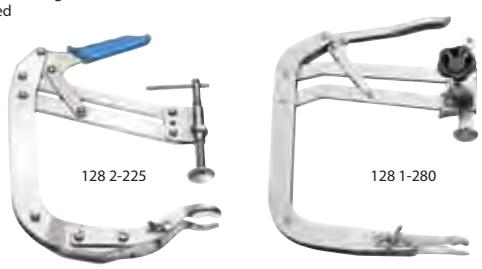
- For pulling valve shaft sealing rings and removing valve spring supports
- For VW Audi, BMW, Mercedes, Opel, Ford, Nissan etc.
- Gun-metal finish, handles chrome-plated

| Code | No. | mm | inch | | |
|---|---|---|---|---|---|
| 6399310 | **124** | 250 | 10 | 348 | 1 |

## 128

### VALVE SPRING COMPRESSOR

- For overhead valve engines
- With one pair each of straight and offset hooks
- Bright nickel-plated




| Code | No. | mm | inch | mm | inch | | |
|---|---|---|---|---|---|---|---|
| 6398500 | **128 2-225** | 290 | 11.1/2 | 60-225 | 2.3/8-9 | 1.3 | 1 |
| 6398690 | **128 1-280** | 390 | 15 | 120-280 | 4.3/4-11.1/2 | 3.2 | 1 |

## E-128

### HOOKS (PAIR)

| Code | No. | Description | | |
|---|---|---|---|---|
| 5398720 | **E-128 1** | Hooks, pair, straight pattern for no. 128 1-280 | 111 | 1 |
| 5398560 | **E-128 2** | Hooks, pair, straight pattern for no. 128 2-225 | 118 | 1 |
| 5398990 | **E-128 1A** | Hooks, pair, offset pattern for no.c | 114 | 1 |
| 5398640 | **E-128 2A** | Hooks, pair, offset pattern for no. 128 2-225 | 116 | 1 |

## 125

### PISTON RING COMPRESSOR

- In special band spring steel, with continuous adjustment
- With clamping wrench

| Code | No. | mm | inch | Ø mm | | |
|---|---|---|---|---|---|---|
| 6396720 | **125 0** | 50 | 2 | 40-75 | 115 | 1 |
| 6396800 | **125 1** | 80 | 3 | 57-125 | 257 | 1 |
| 6396990 | **125 2** | 80 | 3 | 90-175 | 294 | 1 |
| 6397020 | **125 3** | 165 | 6.1/2 | 90-175 | 548 | 1 |

## 126

### PISTON RING PLIERS

- With prism holder for secure fitting of piston rings
- With adjusting screw
- Bright nickel-plated

| Code | No. | mm | inch | Ø mm | | |
|---|---|---|---|---|---|---|
| 6397100 | **126 0-60** | 210 | 8.1/4 | 30-60 | 158 | 1 |



Quantities in packs may vary.

## 126

### PISTON RING PLIERS

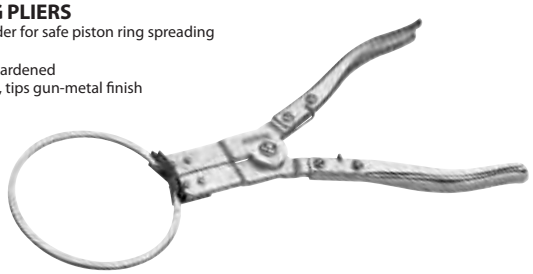
- For securely fitting piston rings
- Handles blue coated
- Bright nickel-plated

| Code | No. | mm | inch | Ø mm | | |
|---|---|---|---|---|---|---|
| 6397370 | **126 1-100** | 200 | 8 | 55-100 | 296 | 1 |
| 6397450 | **126 2-120** | 240 | 9.1/2 | 80-120 | 344 | 1 |
| 6397530 | **126 3-160** | 240 | 9.1/2 | 110-160 | 402 | 1 |

## 127

### PISTON RING PLIERS

- With prism holder for safe piston ring spreading
- In special steel
- Prism holders hardened
- Chrome-plated, tips gun-metal finish



| Code | No. | mm | inch | Ø mm | | |
|---|---|---|---|---|---|---|
| 6397610 | **127** | 220 | 8.5/8 | 60-160 | 207 | 1 |

## 132

### HOSE CLAMP PLIERS

- For self-clamping hose clamps
- Handles chrome-plated

| Code | No. | mm | inch | | |
|---|---|---|---|---|---|
| 6399900 | **132** | 220 | 8.3/4 | 215 | 1 |

## 132-2 / -3

### HOSE CLAMP PLIERS

- 132.2: Rotating v-jaws for spring hose clamps with flat butt ends
- The pliers allow the clamp to be opened and closed without damaging the hose, even in hard-to-reach areas
- 132-3: Rigid v-jaws
- For use on VAG-vehicles (e.g. VW, Audi, Škoda, Seat)
- Made from steel sheet, nickel-plated

| Code | No. | mm | | |
|---|---|---|---|---|
| 1894382 | **132-2** | 207 | 192 | 1 |
| 1894390 | **132-3** | 195 | 165 | 1 |

## 134

### HOSE CLAMP PLIERS

- With self-adjusting joint, DBGM (= German utility patent)
- Angled jaw
- Bright nickel-plated, joint gun-metal finish

| Code | No. | mm | inch | | |
|---|---|---|---|---|---|
| 6391330 | **134** | 180 | 7 | 411 | 1 |

## 132-4

### HOSE CLAMP PLIERS CLIC

- With revolving locking bolts for CLIC hose clamps
- To open or close, just turn the plier by 180 degrees
- The pivotable bolts enable the usage even in hard-to-reach areas
- CLIC hose clamps are used on rubber and silicone hoses (e.g. automotive industry for fuel-, oil- and cooler-systems)
- Made from steel sheet, nickel-plated

| Code | No. | mm | | |
|---|---|---|---|---|
| 1894404 | **132-4** | 210 | 181 | 1 |

## 132 CLIC

### HOSE CLAMP PLIERS

- For CLIC-R hose clamps
- Polished, bright nickel-plated, joint gun-metal finish
- Forged execution for clamp diameter 5 - 30 mm

| Code | No. | mm | inch | | |
|---|---|---|---|---|---|
| 1396714 | **132 CLIC** | 180 | 7 | 247 | 1 |

## 134 B

### HOSE CLAMP PLIERS

- Bowden-cable operation
- With self-adjusting joint, DBGM (= German utility patent)
- Angled jaw
- Bright nickel-plated, joint gun-metal finish

| Code | No. | mm | inch | | |
|---|---|---|---|---|---|
| 6390950 | **134 B** | 180 | 7 | 596 | 1 |

## 8317

### BOWDEN CABLE CUTTER

- Crimping of bowden-cable sleeves and end-sleeves 1.5 mm and 2 mm
- For cutting wire rope up to 2 mm diameter and bowden-cable sleeves up to 5 mm diameter as well as for medium-hard wire
- With opening spring, transport lock and width adjustment
- Induction-hardened cutting edges
- Innovative GEDORE cutting form produces a precision cut
- Low overall weight
- DBGM (= German Utility Patent)

| Code | No. | mm | | |
|---|---|---|---|---|
| 2011638 | **8317-160 JC** | 170 | 150 | 1 |

Quantities in packs may vary.

## S 89

### TERMINAL-EXTRACTION TOOLS

- Tools for the damage-free removal of contacts in cable looms
- **S 8905** - Basic set 5 pieces for cars
- **S 8910 UNI** - Universal set 10 pieces for cars and trucks
- **S 8910 LKW** - 10 pieces for trucks and HGV

S 8905

S 8910 UNI

| Code | No. | Contents | |
|---|---|---|---|
| 1976443 | **S 8905** | E-8703-5<br>E-8704-5<br>E-8804-0<br>E-8807-0<br>E-8908-9 | 579 |
| 1976451 | **S 8910 UNI** | E-8703-5<br>E-8704-5<br>E-8705-0<br>E-8804-0<br>E-8806-9<br>E-8807-0<br>E-8905-8<br>E-8908-9<br>E-9002-8<br>E-9300-5 | 731 |
| 1976478 | **S 8910 LKW** | E-8703-5<br>E-8706-5<br>E-8706-7<br>E-9000-2<br>E-9001-4<br>E-9903-2<br>E-2105-4<br>E-2409-0<br>E-2500-8<br>E-2502-0 | 765 |

S 8140 A

386

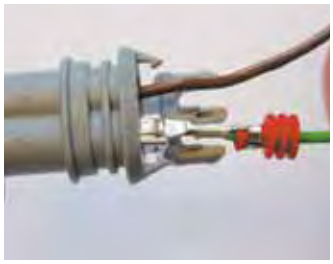
## TERMINAL-EXTRACTION TOOLS

| Art-No. | Contact / Measure / for contact / for which vehicles |
|---|---|
| E-8703-5 | **Round plug 1.6 for pins and sockets** / DC, BMW, trucks, buses |
| E-8704-5 | **Round plug 3.5 for pins and sockets** / DC, Fiat, Opel, trucks, buses |
| E-8705-0 | **Round plug 2.5** / DC, BMW, Opel, trucks, buses |
| E-8706-5 | **Round plug 4.0 ABS contact** / Trucks, buses: Iveco, Mack, MAN, MB, Renault, Scania, Volvo |
| E-8706-7 | **Mounting sleeve ABS contact** / Trucks, buses: Iveco, Mack, MAN, MB, Renault, Scania, Volvo |
| E-8804-0 | **Flat plug 2.8 JPT for Junior (Power) Timer contacts** / BMW, VW-Audi, trucks, buses |
| E-8807-0 | **Flat plug 5.8 SPT contacts (AMP)** / BMW, Opel, trucks, buses |
| E-8806-9 | **Flat plug Micro/MQS** / BMW, Opel, trucks, buses |
| E-8905-8 | **Flat plug 2.8/5.8 JT/Ducon** / DC, BMW, Renault, trucks, buses |
| E-8908-9 | **Flat plug 2.8/5.8 Standard-Timer contact with snap-in pin** / DC, BMW, Renault, trucks, buses |
| E-9000-2 | **Flat plug contacts with 2 snap-in pins** / Trucks: Mack, MB, Renault, Scania, Volvo |
| E-9002-8 | **Flat plug 2.8/5.8 JT/Ducon** / Cars, trucks, buses |
| E-9001-4 | **Solder contact 2.8** / Trucks: Mack, MB, Renault, Volvo |
| E-9300-5 | **Flat plug 1.5 MT II + III** / BMW, Opel, Škoda, trucks, buses |
| E-9903-2 | **Flat plug 1.6 Micro-Timer, I-Contact, JT, Ducon, GAE** / Cars: Fiat, Ford, Mazda, Opel, PSA, Renault, Saab, VW-Audi; Trucks: Fendt, Mack, Renault, Scania, Volvo |
| E-2105-4 | **Round plug 1.5 MKR** / MKS / Trucks: Mack, MAN, Renault, Volvo |
| E-2409-0 | **Round plug 2.5 VKR contact** / Trucks: Mack, MAN, Renault, Volvo |
| E-2500-8 | **Flat plug 0.64 Bosch BMK** / Trucks: Iveco, Mack, MB, MAN, Renault, Scania, Volvo |
| E-2502-0 | **Flat plug universal for secondary locking** / Trucks: Iveco, Mack, MB, MAN, Renault, Scania, Volvo |

Secondary cover closed

Secondary cover open

Insert flat pin tool into unlocking channel and release pin



Remove released pin from casing

### Terminal-extraction tools

- Complex cable connections are used everywhere in the modern automotive sector
- To avoid having to thread a new cable loom when damage occurs, the connector can be opened and the faulty connection repaired
- Terminal-extraction tools enable non-destructive removal of the electrical connector pin from its casing
- The tool release the lock between the pin and casing without damaging the components

**Tips for use:**

- The connection must be disconnected from the battery. It must not be live!
- First of all, open the additional secondary sealing. Secondary covers can take the form of caps, lids or slides. In many cases, they are a different colour from the actual pin.
- Push on the ends of the terminal-extraction tool as far as they will go, applying light pressure. Use the cable to press against.
- After unlocking, pull the pin on the cable out of the casing.
- After separating the pin and casing, check the components for damage, and replace as required.
- Do not use terminal-extraction tools as levers!



Quantities in packs may vary.

## 4612

### VOLTAGE TESTER

- For 6-48 Volt
- Use: automobile, utility vehicles
- LED displays the voltage in the area of 12, 24, 48 V as well as the polarity
- For work in confined areas
- TÜV and GS tested, IEC / EN 61010-1 (DIN VDE 0411)
- Measurements: 145 x 25 x 16mm
- Protection classification IP40, protection class III

| Code | No. | | |
|---|---|---|---|
| 1881647 | **4612** | 120 | 1 |

## 610

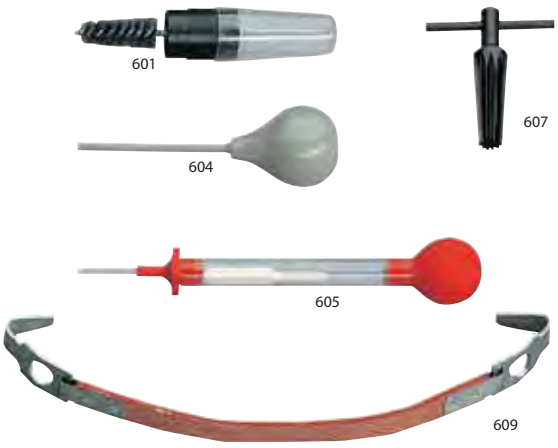
### BATTERY SERVICING TOOLS 13 pieces

- Large assortment of tools for battery care and servicing
- In pratical sheet steel case with two plastic inserts
- With acid-resistant primer, stove enamelled blue
- Dimensions: 400 x 220 x 140 mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6523260 | **610** | Open ended spanner No. 6 10x13<br>Water pump pliers No. 145 10 C<br>Screwdriver No. 2150 6.5<br>Cleaning brush No. 601<br>Cell filler No. 604<br>Acid tester No. 605<br>Battery terminal puller No. 1.12/01<br>Battery terminal opener No. 607<br>Battery carrying strap No. 609<br>Universal canister No. 611<br>Plastic box No. 611 A<br>Cable knife No. 4522<br>Insulating tape No. 4629 | 4565 | 1 |

## 601 - 609

### BATTERY SERVICING TOOLS




| Code | No. | Description | | |
|---|---|---|---|---|
| 6522100 | **601** | Battery cleaning brush | 85 | 5 |
| 6522450 | **604** | Battery cell filler | 68 | 5 |
| 6522530 | **605** | Battery acid tester | 97 | 1 |
| 6522880 | **607** | Terminal opener | 144 | 5 |
| 6523180 | **609** | Battery carrying belt | 160 | 1 |

## 622

### BATTERY TESTER

- For 12 Volt batteries 30 - 180 Ah
- For checking the generator, starter and service voltage
- Automatic test running
- Loading test with CCA-display

| Code | No. | | |
|---|---|---|---|
| 6524580 | **622** | 1360 | 1 |

S 1400 Z

78

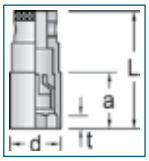
Quantities in packs may vary.

# SPARK PLUGS

## 50 - 59

### SPARK PLUG SOCKET

- With retention spring
- For use in confined areas, with jointed tools 3/8" or 1/2" square drive or tommy bar Ø 8 mm
- GEDORE vanadium steel 31CrV3, chrome-plated, polished head

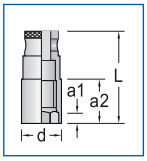



| Code | No. | mm | "AF | □" | L | t | a | d | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6361690 | **50** | 20.8 | 13/16 | 1/2 | 63.5 | 7.0 | 25.5 | 27.5 | 136 | 10 |
| 6362580 | **52** | 20.8 | 13/16 | 3/8 | 63.5 | 7.0 | 25.5 | 27.5 | 148 | 5 |
| 6362740 | **53** | 16.0 | | 3/8 | 63.5 | 7.0 | 20.5 | 21.5 | 103 | 5 |
| 6363040 | **54** | 16.0 | | 1/2 | 63.5 | 7.0 | 20.5 | 21.5 | 95 | 10 |
| 6361770 | **56** | 18.0 | | 3/8 | 63.5 | 7.0 | 20.5 | 23.5 | 138 | 5 |
| 6361930 | **57** | 18.0 | | 1/2 | 63.5 | 7.0 | 20.5 | 23.5 | 125 | 5 |
| 2004259 | **59** | 13.0 | | 3/8 | 63.5 | 7.0 | | 18.0 | 74 | 1 |

## 50 MH - 59 MH

### SPARK PLUG SOCKET with magnet

- With two magnets
- For use in confined spaces with jointed tools 3/8" or 1/2" square drive or tommy bar Ø 8 mm
- With powerful magnets in the hexagon surface, which hold the spark plug safely on the hexagon
- Wide opening gives space to the spark plug and makes it easier to put on the socket in confined areas
- The ceramic core of the spark plug remains untouched
- GEDORE vanadium steel 31CrV3, chrome-plated, polished head




| Code | No. | mm | "AF | □" | L | $a_1$ | $a_2$ | d | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 6361420 | **50 MH** | 20.8 | 13/16 | 1/2 | 63.5 | 7.0 | 30.5 | 27.5 | 136 | 5 |
| 6361500 | **52 MH** | 20.8 | 13/16 | 3/8 | 63.5 | 7.0 | 30.5 | 27.5 | 146 | 5 |
| 6363390 | **53 MH** | 16.0 | | 3/8 | 63.5 | 7.0 | 30.5 | 21.5 | 100 | 5 |
| 6363470 | **54 MH** | 16.0 | | 1/2 | 63.5 | 7.0 | 30.5 | 21.5 | 94 | 5 |
| 6361850 | **56 MH** | 18.0 | | 3/8 | 63.5 | 7.0 | 30.5 | 23.5 | 137 | 5 |
| 6362150 | **57 MH** | 18.0 | | 1/2 | 63.5 | 7.0 | 30.5 | 23.5 | 127 | 5 |
| 6366220 | **59 MH** | 13.0 | | 3/8 | 63.5 | 7.0 | 30.5 | 18.0 | 74 | 10 |

## SAFETY NOTES

- For engines with ignition coils integrated in the spark-plug connector (coil-on-plug), use only spark-plug sockets with retainer springs! (Nos. 50 - 59)
- Do not use magnetic spark-plug spanners on coil-on-plug spark plugs!
- This can result in control unit faults!

## 53 S

### SPARK PLUG SOCKET 3/8" with hexagon drive

- Ideal for motorcycles
- For use in confined areas, with jointed tools 3/8" square drive or tommy bar Ø 8 mm or spanners 19 mm
- With retention spring
- GEDORE vanadium steel 31CrV3, chrome-plated, polished head

| Code | No. | mm | "AF | □" | L | |
|---|---|---|---|---|---|---|
| 2237997 | **53 S** | 16.0 | 5/8 | 3/8 | 63.5 | 103 |

## 59 GK

### GLOW PLUG SOCKET 3/8"

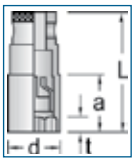
- For diesel engines

| Code | No. | mm | □" | L | a | | |
|---|---|---|---|---|---|---|---|
| 1897446 | **59 GK 10x70** | 10 | 3/8 | 70 | 30 | 70 | 1 |

## D 55

### SPARK PLUG SOCKET 3/8" UD profile

- With retention spring
- For use with jointed tools 3/8" square drive or tommy bar Ø 8 mm




| Code | No. | mm | □" | □ | L | t | a | d | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 1793586 | **D 55** | 14 | 3/8 | 10 | 63.5 | 7.0 | 22.5 | 19.2 | 68 | 1 |

## S 51 GU

### SET OF SPARK PLUG SOCKETS 3/8" 10 pieces

- 4 spark plug sockets with magnets, 1 socket with UD profile
- Reversible ratchet with flexible head and fine tooth mechanism, 3/8" square drive
- 3 extensions, 1 universal joint
- GEDORE vanadium steel 31CrV3
- In GEDORIT blue sheet steel case
- Dimensions: 320 x 210 x 55 mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1795554 | **S 51 GU** | **52** MH **53** MH **56** MH<br>**59** MH<br>**D 55**<br>**3093 GU**-3<br>**3090**-3 -5 -10<br>**3095** | 2523 | 1 |



Quantities in packs may vary.

## S 56 U-10 K

### SET OF SPARK PLUG SOCKETS 3/8" 8 pieces

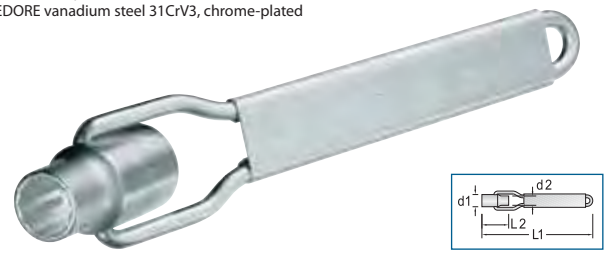
- Compact plastic ratchet
- 3 spark plug sockets with magnets, 1 extension
- Feeler gauge, spark-plug brush and magnetic pick-up tool
- With maintenance accessories
- GEDORE vanadium steel 31CrV3, chrome-plated
- In GEDORIT blue sheet steel case
- Dimensions: 320 x 210 x 55 mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 1795570 | **S 56 U-10 K** | **52** MH **53** MH<br>**56** MH<br>**3093 U**-10 K<br>**3090**-7<br>**640**-500<br>**648**<br>**702** 20 M | 1958 | 1 |

## D 48

### SPARK PLUG SOCKET WRENCH

- Double ended
- Forged from solid stock
- With fully pivoting sheet metal covered lever
- With sheet clip
- GEDORE vanadium steel 31CrV3, chrome-plated

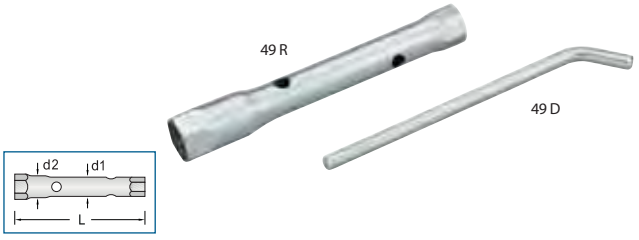



| Code | No. | mm | AF | $L_1$ | $L_2$ | $d_1$ | $d_2$ | | |
|---|---|---|---|---|---|---|---|---|---|
| 6360100 | **D 48** | 16 x 20,8 | 5/8 x 13/16 | 232 | 56 | 27.5 | 21.5 | 233 | 5 |

## DS 49

### SPARK PLUG SOCKET WRENCH

- With rubber holder and offset bores
- Forged and hardened, chrome-plated
- With angled tommy bar No. 49 D Ø 8 mm
- In seamless precision tubing as per DIN 2391-ST 55, chrome-plated



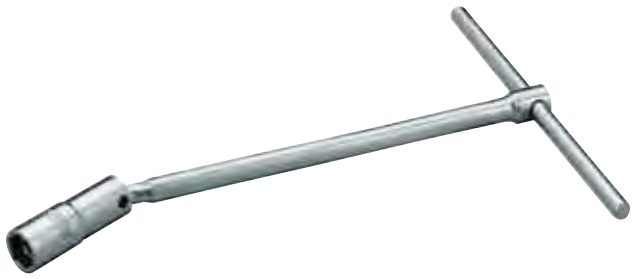

| Code | No. | mm | AF | L | $d_1$ | $d_2$ | | |
|---|---|---|---|---|---|---|---|---|
| 6361340 | **DS 49 R** | 16 x 20,8 | 5/8 x 13/16 | 190 | 24 | 25 | 324 | 10 |

| Code | No. | Description | L | Ø | | |
|---|---|---|---|---|---|---|
| 6361260 | **49 R** | Spark plug socket wrench 16x20.8 mm | 190 | | 270 | 5 |
| 6360530 | **49 D** | Tommy bar 175 mm, d 8 mm | 175 | 8 | 73 | 5 |

## 58

### SPARK PLUG SOCKET WRENCH

- With retention spring and joint
- Universal wrench, particularly suitable for MERCEDES vehicles
- GEDORE vanadium steel 31CrV3, chrome-plated

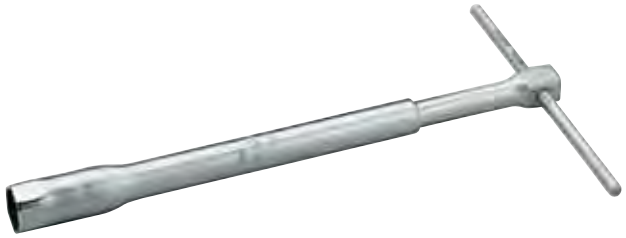


| Code | No. | mm | AF | L | d | | |
|---|---|---|---|---|---|---|---|
| 6363200 | **58 16** | 16.0 | 5/8 | 500 | 22.5 | 647 | 1 |
| 6363120 | **58 20,8** | 20.8 | 13/16 | 500 | 27.0 | 653 | 1 |

## PR 265 - PR 345

### SPARK PLUG SOCKET WRENCH

- With tommy bar 26 D 8 and 1/2" square drive for use with the torque wrenches
- Particularly suitable for Renault and Peugeot



| Code | No. | mm | AF | L | d | | |
|---|---|---|---|---|---|---|---|
| 6646340 | **PR 265** | 16.0 | 5/8 | 270 | 20.2 | 250 | 1 |
| 6646930 | **PR 345** | 20.8 | 13/16 | 327 | 25.5 | 492 | 1 |

## 647 - 648

### SPARK PLUG BRUSH

- With plastic handle and brass wire bristles

| Code | No. | mm | Bristle length | | |
|---|---|---|---|---|---|
| 6531950 | **647** | 180 | 15 | 22 | 10 |
| 6532090 | **648** | 100 | 14 | 9 | 5 |

Quantities in packs may vary.

# LIFTERS

## 121

### SUCTION CUP LIFTER with 2 cups

- With suction mechanism and safety locking
- In ABS, resistant to oil and acids
- Fixed suction cups
- Lifting capacity 60 kg

| Code | No. | mm | Ø | | |
|---|---|---|---|---|---|
| 6391090 | **121** | 325 | 120 | 577 | 1 |

## 121 G

### SUCTION CUP LIFTER with 2 cups

- With suction mechanism and safety locking
- In ABS, resistant to oil and acids
- Movable suction cups
- Particularly suitable for curved panes
- Lifting capacity 45 kg

| Code | No. | mm | Ø | | |
|---|---|---|---|---|---|
| 6391170 | **121 G** | 390 | 120 | 642 | 1 |

## 121-3

### SUCTION CUP LIFTER with 3 cups

- Increased lifting safety with three fixed suction cups
- Aluminium, enamelled blue
- Lifting capacity 100 kg

| Code | No. | Ø | | |
|---|---|---|---|---|
| 6390790 | **121-3** | 120 | 1403 | 1 |

## 121 G-3

### SUCTION CUP LIFTER with 3 cups

- Three movable suction cups, resistant to oil and acids, in ABS
- Particularly suitable for curved panes
- Cups blue colour, handle black aluminium
- Lifting capacity 100 kg

| Code | No. | Ø | | |
|---|---|---|---|---|
| 6390870 | **121 G-3** | 120 | 1345 | 1 |

## 640

### MINI MAGNETIC LIFTER

- Flexible thin shaft for the smallest apertures

| Code | No. | mm | Magnet-Ø | Ω | | |
|---|---|---|---|---|---|---|
| 6530630 | **640-120** | 400 | 4 | 120 | 24 | 1 |
| 1785338 | **640-270** | 400 | 5 | 270 | 25 | 1 |

## 640

### MAGNETIC LIFTER

- With flexible shaft and plastic handle
- Bright nickel-plated

| Code | No. | mm | Magnet-Ø | Ω | | |
|---|---|---|---|---|---|---|
| 6531010 | **640-500** | 460 | 6.0 | 500 | 95 | 1 |
| 6531280 | **640-1800** | 520 | 12.0 | 1800 | 230 | 1 |
| 6531360 | **640-3000** | 520 | 16.5 | 3000 | 275 | 1 |

## 641

### CLAW GRIPPER

- With flexible shaft for grasping small parts
- Also suitable for inserting split pins, dowels, etc. in confined areas
- Max. gripping capacity 14 mm

| Code | No. | mm | Ø | | |
|---|---|---|---|---|---|
| 6531520 | **641** | 540 | 7 | 103 | 1 |

## 642

### MAGNETIC LIFTER with lamp

- For searching and lifting small metal parts in confined areas
- With flexible shaft and optical fibres leading through the shaft to the magnet
- If necessary, the magnet can be removed

| Code | No. | mm | Ω | | |
|---|---|---|---|---|---|
| 6530470 | **642** | 500 | 350 | 165 | 1 |



Quantities in packs may vary.

## 642 SP

### MAGNETIC LIFTER with lamp, mirror and clip

- For searching and lifting small metal parts in confined areas
- If necessary, the magnet can be removed
- E-642 SP = detachable mirror with clip

| Code | No. | mm | Ω | | |
|---|---|---|---|---|---|
| 6536750 | **642 SP** | 500 | 350 | 172 | 1 |
| 1520849 | **E-642 SP** | | | 10 | 1 |

# EXHAUST / ENGINE / VARIOUS

## 4588

### CHAIN PIPE CUTTER

- For cutting pipes at inaccessible places
- Gun-metal finish, handles nickel-plated
- Spare chain E 4588 A

| Code | No. | handle length | chain length | Ø mm | Ø inch | | |
|---|---|---|---|---|---|---|---|
| 6697840 | **4588** | 230 | 260 | 25-75 | 1-3 | 562 | 1 |
| 5697390 | **E-4588 A** | | 260 | | | 184 | 1 |

## 4589

### CHAIN PIPE CUTTER

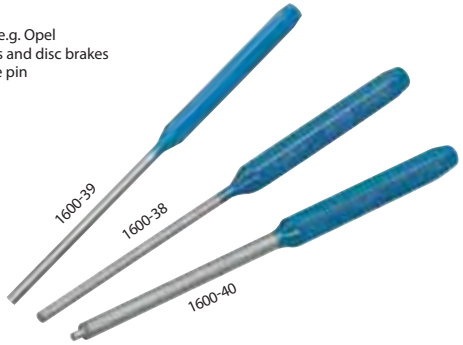
- For pipes with Ø 75 mm and wall thickness 2.6 mm
- Also suitable for stainless steel pipes
- Spare chain E 4589 A

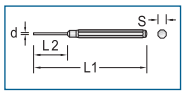
| Code | No. | length appr. | Ø mm max. | | |
|---|---|---|---|---|---|
| 1446940 | **4589** | 246 | 80 | 909 | 1 |
| 1446959 | **E-4589 A** | 315 | | 200 | 1 |

## 1600

### SPECIAL PIN PUNCH

- For removal of split pins
- **1600-38** for door hinges, e.g. Opel
- **1600-39** for brake calipers and disc brakes
- **1600-40** with 3 mm guide pin




| Code | No. | $L_1$ | $L_2$ | d | s | | |
|---|---|---|---|---|---|---|---|
| 6630180 | **1600-38** | 180 | 90 | 5 | 10 | 72 | 5 |
| 6633950 | **1600-39** | 180 | 90 | 4 | 10 | 67 | 5 |
| 6634090 | **1600-40** | 180 | 85 | 6 | 10 | 77 | 5 |

## 611

### UNIVERSAL CANISTER

- For distilled water
- 2 litres contents
- With plug-in pouring spout
- Polyethylene, black, cap and spout red

| Code | No. | L | H | W | Litre | | |
|---|---|---|---|---|---|---|---|
| 6523340 | **611** | 75 | 220 | 180 | 2 | 226 | 1 |

## 614

### ANTI-FREEZE TESTER

- For ethylene glycol mixtures
- Practical, reliable apparatus with high measuring accuracy
- Easy-to-read scale with degrees Celsius
- Made from high-quality impact-resistant plastics
- Corrosion-proof
- Suction tube length: 185 mm

| Code | No. | | |
|---|---|---|---|
| 6523770 | **614** | 150 | 1 |

## 8134

### INSTALLATION PLIERS

- For spreading of horseshoe pattern circlips of shaft retainers, on motors, gearboxes, clutches, etc.
- For VW, AUDI and American vehicles
- GEDORE vanadium steel 31CrV3

| Code | No. | mm | inch | | |
|---|---|---|---|---|---|
| 6722030 | **8134-170 C** | 170 | 6.3/4 | 191 | 1 |

8385

397

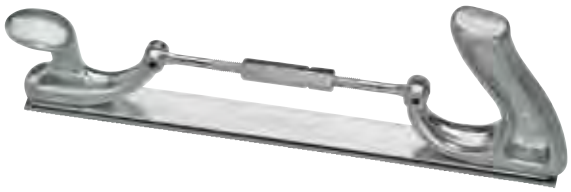
Quantities in packs may vary.

# CAR BODY WORK

## 269

### BODYWORK FILE

- With light-alloy handle and flexible milled file blades
- **269 K** complete with 269 F 9
- **269 L** without milled file blade



| Code | No. | | |
|---|---|---|---|
| 6460080 | **269 K** | 1050 | 1 |
| 6460160 | **269 L** | 614 | 1 |

## 269 F

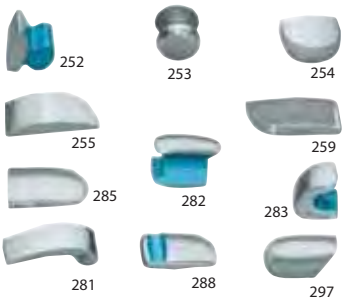
### FLEXIBLE MILLED FILE BLADES

| Code | No. | mm | Teeth " | | |
|---|---|---|---|---|---|
| 5460030 | **269 F 7** | 354 | 7 | 249 | 10 |
| 5460110 | **269 F 9** | 354 | 9 | 289 | 10 |
| 5460380 | **269 F 12** | 354 | 12 | 303 | 10 |

## 252 - 297

### PLANISHING HAND ANVILS

- Made from hardened and tempered steel to EN 10083
- Enamelled, with ground faces




| Code | No. | Measurements | | |
|---|---|---|---|---|
| 6456990 | **252** | 72 x 55 x 63 | 1206 | 1 |
| 6457020 | **253** | Ø 58.5 x 60 | 844 | 1 |
| 6457100 | **254** | 80 x 60 x 33 | 1070 | 1 |
| 6457290 | **255** | 120 x 58 x 23 | 942 | 1 |
| 6457610 | **259** | 125 x 55 x 25 | 1028 | 1 |
| 6461720 | **281** | 130 x 55 x 36 | 933 | 1 |
| 6461800 | **282** | 100 x 40 x 80 x 70 x 62 | 1372 | 1 |
| 6461990 | **283** | 70 x 54 x 68 | 1302 | 1 |
| 6462020 | **285** | 111 x 68 x 23.5 | 999 | 1 |
| 6463340 | **288** | 104 x 66 x 25 | 987 | 1 |
| 6464230 | **297** | 110 x 51 x 55 | 1606 | 1 |

260

646

## 265

### BENDING TOOL

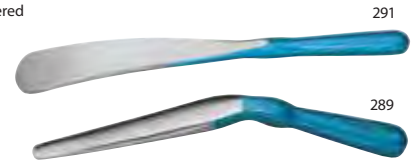
- Made from hardened and tempered steel to EN 10083
- Enamelled, with ground faces

| Code | No. | mm | "inch | | |
|---|---|---|---|---|---|
| 6458420 | **265** | 430 | 17 | 838 | 1 |

## 289 - 291

### BODYWORK SPOON

- Made from hardened and tempered steel to EN 10083
- Enamelled, with ground faces




| Code | No. | mm | "inch | | |
|---|---|---|---|---|---|
| 6463420 | **289** | 275 | 11 | 545 | 1 |
| 6463690 | **291** | 390 | 16 | 1014 | 1 |

## 292 - 293

### BODYWORK LEVER

- GEDORE vanadium steel 31CrV3
- Enamelled, with ground faces

| Code | No. | mm | "inch | | |
|---|---|---|---|---|---|
| 6463770 | **292** | 450 | 16 | 1888 | 1 |
| 6463850 | **293** | 500 | 19 | 2186 | 1 |

## 251

### FLAT ROUND FACE HAMMER

- With ergonomic ash handle (E-251 E)
- Made from hardened and tempered steel to EN 10083
- Enamelled blue, with ground faces

| Code | No. | mm | | mm | mm | | |
|---|---|---|---|---|---|---|---|
| 6456720 | **251** | 300 | 155 | 40 | 31 | 497 | 1 |
| 1808621 | **E-251 E** | 300 | | | | 111 | 1 |

## 261

### PLANISHING HAMMER

- With ergonomic ash handle (E-261 E)
- Made from hardened and tempered steel to EN 10083
- Enamelled blue, with ground faces

| Code | No. | mm | | mm | | |
|---|---|---|---|---|---|---|
| 6457960 | **261** | 325 | 160 | 31 | 512 | 1 |
| 1440934 | **E-261 E** | 325 | | | 111 | 1 |



Quantities in packs may vary.

## 271

### LONG REACH HAMMER

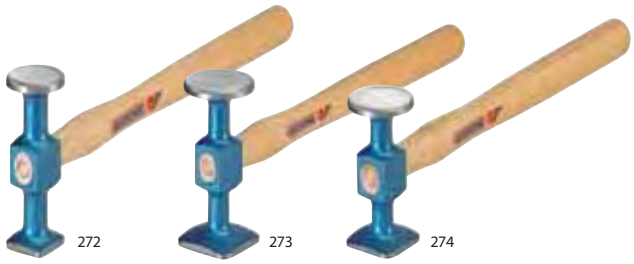
- With ergonomic ash handle (E-271 E)
- Made from hardened and tempered steel to EN 10083
- Enamelled blue, with ground faces

| Code | No. | mm | mm | mm | | |
|---|---|---|---|---|---|---|
| 6460320 | **271** | 330 | 160 | 28 | 673 | 1 |
| 1634844 | **E-271 E** | 330 | | | 111 | 1 |

## 272 - 273 - 274

### SMOOTHING HAMMER

- With ergonomic ash handle (E-251 E, E-274 E)
- Made from hardened and tempered steel to EN 10083
- Enamelled blue, with ground faces
- The K models have one milled cross-hatched face and one smooth square face




| Code | No. | mm | mm | mm | mm | | |
|---|---|---|---|---|---|---|---|
| 6460400 | **272** | 300 | 105 | 32 | 25 | 306 | 1 |
| 6460590 | **272 K** | 300 | 105 | 32 | 25 | 322 | 1 |
| 6460670 | **273** | 300 | 100 | 40 | 35 | 403 | 1 |
| 6460750 | **273 K** | 300 | 100 | 40 | 35 | 395 | 1 |
| 6460830 | **274** | 320 | 115 | 46 | 40 | 543 | 1 |
| 6460910 | **274 K** | 320 | 115 | 46 | 40 | 521 | 1 |
| 1808621 | **E-251 E** | 300 | | | | 111 | 1 |
| 1808664 | **E-274 E** | 320 | | | | 90 | 1 |

## 275 - 276

### EMBOSSING HAMMER

- With ergonomic ash handle (E-251 E)
- Made from hardened and tempered steel to EN 10083
- Enamelled blue, with ground faces

| Code | No. | mm | mm | mm | | |
|---|---|---|---|---|---|---|
| 6461050 | **275** | 300 | 160 | 40 | 446 | 1 |
| 6461130 | **276** | 300 | 160 | 40 | 446 | 1 |
| 1808621 | **E-251 E** | 300 | | | 111 | 1 |

## 277

### POINT PEIN HAMMER

- With ergonomic ash handle (E-251 E)
- Made from hardened and tempered steel to EN 10083
- Enamelled blue, with ground faces

| Code | No. | mm | mm | mm | | |
|---|---|---|---|---|---|---|
| 6461210 | **277** | 300 | 137 | 37 | 331 | 1 |
| 1808621 | **E-251 E** | 300 | | | 111 | 1 |

## 278

### PLANISHING / GROOVING HAMMER

- With ergonomic ash handle (E-251 E)
- Made from hardened and tempered steel to EN 10083
- Enamelled blue, with ground faces

| Code | No. | mm | mm | mm | | |
|---|---|---|---|---|---|---|
| 6461480 | **278** | 300 | 160 | 40 | 406 | 1 |
| 1808621 | **E-251 E** | 300 | | | 111 | 1 |

## 279

### STEEL / RUBBER HAMMER

- With ergonomic ash handle (E-279 E)
- Made from hardened and tempered steel to EN 10083
- Enamelled blue, with ground faces
- Spare rubber cap (E-279)

| Code | No. | mm | mm | mm | mm | | |
|---|---|---|---|---|---|---|---|
| 6461560 | **279** | 360 | 138 | 55 | 33 | 1022 | 1 |
| 1492330 | **E-279** | | | 55 | | 40 | 1 |
| 1808710 | **E-279 E** | 360 | | | | 150 | 1 |

Quantities in packs may vary.

# BODYWORK TOOL SETS

- Professional selection of tools
- Available loose or in a sturdy steel case, powder-coated blue hammer finish

## 260

### BODYWORK TOOL SET 8 pieces

- Workshop selection
- Well-chosen workshop assortment for universal use
- In sheet steel case
- Dimensions: 525 x 206 x 78 mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6457880 | **260** | S 260 | 8.9 | 1 |
| 6459150 | **S 260** | 251 252 253<br>254 255 281<br>273 K 226 E-2 | 6.7 | 1 |

## 280

### BODYWORK TOOL SET 12 pieces

- Large workshop assortment
- Good selection of the most common bodywork tools
- In sheet steel case
- Dimensions: 545 x 230 x 110 mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6461640 | **280** | S 280 | 15.4 | 1 |
| 6462290 | **S 280** | 272 K 273 K<br>225 E-32<br>277 278 281<br>282 288 291<br>292 293 259 | 11.8 | 1 |

## 300

### BODYWORK TOOL SET 8 pieces

- Extremely versatile assortment
- Selection of the most common bodywork tools
- In sheet steel case
- Dimensions: 525 x 206 x 78 mm

| Code | No. | Contents | | |
|---|---|---|---|---|
| 6462370 | **300** | S 300 | 9.7 | 1 |
| 6462100 | **S 300** | 252 255 261<br>281 282 291<br>273 K 248 ST-30 | 7.2 | 1 |

# SHEET METAL FORMING TOOLS

## 8532

### OFFSETTING PLIERS WITH PUNCH

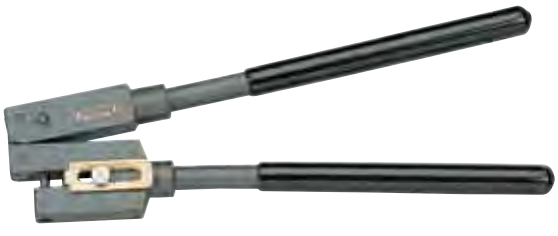
- Combination pliers for offsetting sheet metal edges up to 1 mm and for punching sheet metal for spot welding
- The rotating head makes both operations possible using one tool
- Single-handed, low-force operation

| Code | No. | ●mm² | Ø mm | ↔mm↔ | | |
|---|---|---|---|---|---|---|
| 6751130 | **8532** | 22 | 5 | 325 | 1258 | 1 |

## 8533

### PUNCH PLIERS

- With adjustable stop for punching sheet metal up to 1.5 mm



| Code | No. | ●mm² | Ø mm | ↔mm↔ | | |
|---|---|---|---|---|---|---|
| 6751640 | **8533** | up to 30 | 5 | 260 | 955 | 1 |



Quantities in packs may vary.

## 905

### CREEPER

- Comfortable, ergonomically shaped one-piece creeper
- With practical carrying handle
- Made from PP (polypropylene) - kind on the skin, resistant to oil, grease and brake fluid
- Six swivel rollers ensure easy and safe manoeuvrability
- Fatigue-free working, with head/neck cushion for maximum comfort
- Bucket moulding gives additional hold and allows maximum freedom of movement
- Two storage trays (right/left) to keep tools and small parts within easy reach
- Carrying capacity: 130 kg
- Temperature range -30 °C to +60 °C
- Dimensions: 115 x 1030 x 480 mm

| Code | No. | | |
|---|---|---|---|
| 1823698 | **905** | 5.0 | 1 |

## 906

### KNEELING BOARD

- Made from solid foam, blue/black
- With indented grip
- Dimensions: 450 x 210 x 30 mm

| Code | No. | | |
|---|---|---|---|
| 1942948 | **906** | 110 | 1 |

## 907

### WING PROTECTOR

- Protection from unwanted scratches, dents and dirt
- Magnetic attachment keeps paintwork safe from damage - also attaches to galvanised steel sheet
- Rugged, padded imitation leather and reinforced edges provide a perfect, cushioned working area
- Dimensions: 1100 x 650 mm with wheel cut-out to allow free access

| Code | No. | | |
|---|---|---|---|
| 1942956 | **907** | 620 | 1 |

711

521

K 19

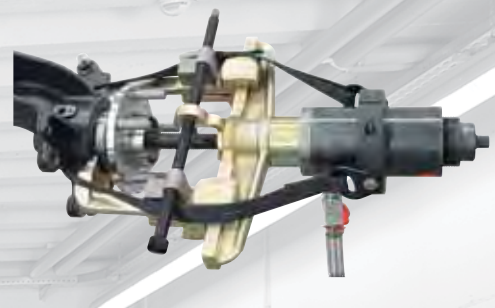
236

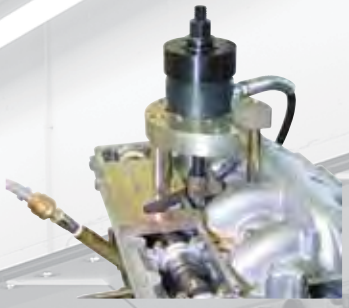
Quantities in packs may vary.

KLANN®

## Spezial-Werkzeugbau-GmbH

**When it is a matter of easing and optimizing repairs on vehicles, then across the world you will find KLANN special tools being used again and again.**
For over 30 years now we have been developing and manufacturing innovative special tools for all types of vehicles.
Our prime aim is to make repairs safer, quicker and thus more reasonable in price.
That is why we undertake intensive developments in our own testing plant so as to react more rapidly to market requirements.
We use the most up-to-date technology in production and effect training directly on vehicles in our testing plant.





**More information?!**
You can find more information and the special tools in our main catalogue or on the internet under:

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78166 Donaueschingen
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78154 Donaueschingen
GERMANY

Tel: +49 (0) 771 / 8 32 23-0
Fax: +49 (0) 771 / 8 32 23-90
info@klann-online.de

www.klann-online.de

Partner in the GEDORE group

# Health is the most important factor when it comes to living a happy life.

## To ensure that you use our tools safely, please observe the following information.*

*** Furthermore, the relevant safety guidelines of various institutions apply, e.g. the guidelines of the trade associations, employers' instructions and the statutory specifications of the respective country.**

## General

- Always wear safety goggles for tasks involving chips or the possibility of parts splintering.
- Only use the hand tools for their intended purpose.
- Never modify or tamper with tools. Exceptions: Professional regrinding of chisels, scrapers, cutting tools as well as hammer edges.
- Never work with damaged tools. Damaged tools must be replaced immediately.
- Handles must be free of oil and grease.
- Depending on the task, protect your hands by wearing work gloves.
- Work on live circuits may only be performed by qualified personnel using suitable VDE tools.
- Choose a safe surface to ensure stability. Wear safety shoes.
- Wear the specified ear protection when working in noisy environments.

## Tool chests

- Do not use the tool chest for climbing.
- Never store pointed or sharp items loosely in the tool chest. Scribers can be made safe by sticking them in a cork, for example.
- Take care of your back by going down on your hunkers and keeping your upper body straight when lifting out the tool box.

## Spanners

- Only use spanner sizes and profiles which fit the bolt or nut head.
- Do not use spanners as levers or as striking tools.
- Select the spanner in accordance with the screwed connection. This particularly applies to screwed connections with high torques.
- Never extend the tool lever arm except when the tools are designed especially for this purpose, e.g. single-ended ring spanners.
- Never hit a spanner with a hammer except when the tools have an area designed especially for this purpose, e.g. slogging spanners.
- Always apply the spanner at a right angle to the bolt axis.
- Always pull the spanner towards you. Never push the spanner away from you. If for design reasons you can only press the spanner away from you, use your open hand to prevent injuring your knuckles.
- Ring spanners transmit the forces more consistently. Ring spanners are therefore more suitable for large torques.
- Apply open-ended spanners in such a way that the angle of the jaw is facing in the direction of rotation.
- If a torque is specified for the screwed connection, use a torque wrench.
- Never work with damaged spanners. Do not repair damaged spanners but rather replace them without delay.

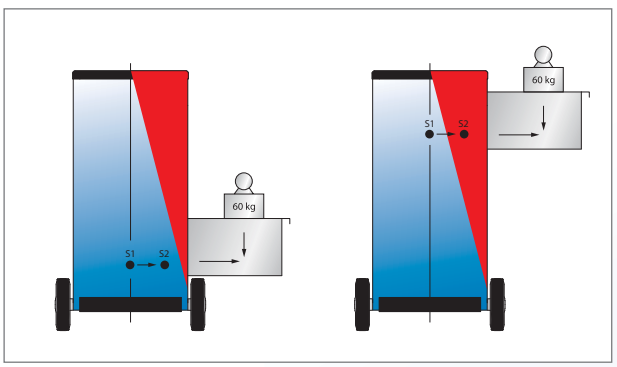
## Tool trolley

- Read the operating instructions.
- Only open one drawer at a time. Opening several drawers at a time increases the tilting moment and the tool trolley can overturn.
- Always store the heaviest tools in the bottom (heavy-duty) drawer. Storing heavy tools in the upper drawers relocates the centre of gravity upwards which in turn increases the tilting moment. The tool trolley can overturn.
- Observe the permissible load capacity of individual drawers and the overall load capacity of the tool trolley.
- Only move the tool trolley when the drawers are closed and locked. Watch out for loose items on the shelf or working area.
- Always activate the total brake when "parking" the tool trolley. Only then is the tool trolley secured against unintentional movements.
- Always move the tool trolley facing downwards on slopes.
- Do not use the tool trolley for climbing.
- Never store pointed or sharp items loosely in the tool trolley. Scribers can be made safe by sticking them in a cork, for example.

## Why should heavy tools be stored in the bottom?

- Always store the heaviest tools in the bottom (heavy-duty) drawer.
- When the bottom drawer is opened, the centre of gravity is relocated to a safe range.
- Storing heavy tools in the upper drawers relocates the centre of gravity upwards.
- When the drawer is opened, the centre of gravity is relocated to a critical range.
- This makes the tool trolley very susceptible to lateral forces. If the trolley is exposed to lateral forces such as impact, it can overturn.
- Always observe the load capacity for each drawer to ensure that you always stay in the safe range.

S 1 = tool trolley centre of gravity when the drawer is closed
S 2 = tool trolley centre of gravity when the drawer is opened
red = critical range- danger of overturning



## Screwdrivers

- Choose the screwdriver which is suitable for the respective bolt head profile.
- Place the workpiece on a ledge or clamp it. This helps to avoid injuries incurred by sliding blades.
- Avoid cuts by directing the requisite pressure for releasing or tightening the bolt head away from your body.
- Wear protective gloves when working with screwdrivers.
- If the screwdriver is too long, do not under any circumstances shorten the blade or handle. Choose a shorter screwdriver.
- Do not use the screwdriver as a caulking or crushing tool.
- Light hammer impact may only be applied for loosening screws using suitable screwdrivers with striking cap or continuous blade.
- If the bolt fails to loosen, use the GEDORE impact driver set no. K 1900-013 to release the bolt without destroying it.
- Insulated and tested screwdrivers must be used when working on electrical systems.

## VDE tools

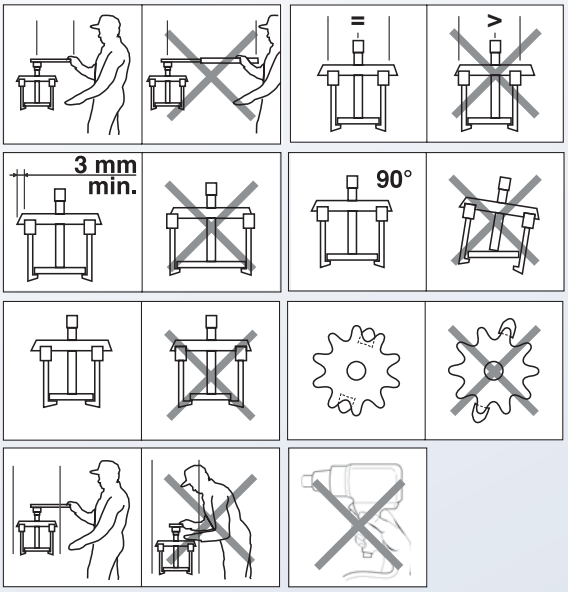
- Work on electrically live equipment may only be carried out by trained electricians.
- Only tools and safety equipment marked with the double triangle or bell 1000 V symbol (refer to BGV A3) may be used.
- Before commencing any work, check the insulation for damage.
- Damaged tools must not be used.
- The regulations of the employers' liability insurance associations and power supply companies must be complied with.
- GEDORE VDE tools are approved for work on live circuits at voltages up to 1000 V AC and 1500 V DC.
- Tools must not be combined unless they are designed to be securely joined together.

## Pullers

- Read the operating instructions!
- Use only original spare parts and accessories for your GEDORE puller. Never use worn, modified or defective spare parts or accessories.
- Wear goggles and protective clothing when working. For added safety, use the GEDORE safety cover 5.10!
- Before pulling, ensure that the legs are in contact with the part to be pulled and are firmly tightened so that the spindle operates centrally along the axis of the puller.
- Attention! When using a puller, forces of up to several tons are generated! Take care to ensure that the puller is correctly positioned and is vertical to the component being pulled.
- Do not use electric or pneumatic power or percussion drivers.

## Ratchets, tools and sockets

- Ratchets are suitable for swift releasing and tightening.
- Avoid jerky movements with the ratchet, e.g. caused by hammer impact.
- The square drive and the tool and socket square drive must be of the same size.
- Select the drive size in accordance with the screwed connection. This particularly applies to screwed connections with high torques.
- Ensure that the ball engages properly in the ball catch.
- Always pull the tool towards you. Never push the tool away from you. If for design reasons you can only press the tool away from you, use your open hand to prevent injuring your knuckles.
- Only use suitable sockets and connections for the impact driver. Use a safety pin and ring to secure the connection between the socket, extension and machine.
- When using reducers, the smaller drive's torque always applies.
- Do not use ratchets as levers or as striking tools.



## Screw clamps

- Screw clamps are only suitable for temporarily securing the workpieces.
- Observe the clamping range.
- The clamped connection must not be exposed to any vibrations or impact. Otherwise, there is a risk of the connection releasing unintentionally.
- Do not use screw clamps as a substitute for a handle.
- Never use screw clamps for securing railings, work platforms or scaffolding.

## Pipe bending systems

- Read the operating instructions.
- Never use defective or worn pipe bending systems. Replace defective or worn parts with original parts.
- Use suitable systems and tools for bending.
- Wear safety goggles, safety shoes and protective clothing.
- Ensure stability of the pipe bending system during the bending process.

## Safety notes for striking tools

**Chisels**

- Wear safety glasses and safety gloves!
- Before starting work, check that the chisel blade is sharp and the striking end is burr-free! The blades must be properly wet-sharpened!
- Select the appropriate type and size of chisel for the work to be carried out!
- Hold the chisel with a firm grip!
- When working, keep your eyes on the chisel tip!
- Wherever possible, use a chisel with hand guard.
- Never use chisels on workpieces harder than 40 HRC!
- Set safety guards in place to prevent splinters and chips posing a hazard for other people!

**Centre punches, drifts and mortise chisels**

- These tools are subject to the same safety rules as chisels.

## Cutting tools

- Always set cutting tools down on a clearly visible place. Handles should always point towards you.
- Sharpen your cutting tools regularly. Blunt cutting tools represent a greater risk of injury than sharp ones. Blunt cutting tools require more force to be applied.
- Store cutting tools separately. This protects the blades and your fingers.
- Set shears down with their tips closed. This protects the blades and your fingers.

## Torque tools

- Read the operating instructions.
- Only use correctly calibrated torque wrenches.
- Treat torque wrenches as measuring equipment. Store torque wrenches carefully.
- Only use torque wrenches within the permissible torque range.
- Stop tightening the bolt immediately once you feel and hear the "click" signal.
- Apply the torque wrench at a right angle to the screwed connection.
- Only use original end fittings or accessories which fit the respective torque wrench.
- Where possible, do not use any reducers.
- Never loosen bolts using a torque wrench.
- Never use the torque wrench as a hammer.
- Slacken the torque wrench after completing work.
- Never use defective or worn accessory parts. Replace defective or worn parts with original parts.
- Only use one hand on the handle of the torque wrench; two-handed operation is only possible using DREMOMETER A - F.

## Safety notes for hammers

- Wear safety glasses and safety gloves!
- Use the hammer only for its intended purpose!
- Never misuse the hammer as a lever!
- Before starting work, check that the hammer head is securely attached to the shaft!
- Select the appropriate type and size of hammer for the work to be carried out!
- Never hit two hammers together!
- Never use steel hammers on workpieces harder than 46 HRC! Use suitable plastic-faced hammers for this! In case of doubt, the healthier choice is a suitable plastic-faced hammer.
- Avoid bouncing blows!
- Use only the work faces of the hammer! Blows with the side face damage the non-hardened hammer eye. This can loosen the grip of the shaft in the hammer head.
- If a burr forms on the pein or face of the hammer head, this must be immediately removed. Failure to do this can pose the risk of splintering when the hammer is in use.
- Grip the hammer shaft as far away from the hammer head as possible! This improves the impact effect and avoids vibrations.
- Do not store hammers with wooden shafts in warm, dry environments! Wood is a natural product. Dry, warm storage conditions cause the shaft to lose moisture and shrink, so that the hammer shaft is no longer a tight fit in the hammer head. Opposite storage conditions also have a negative effect on the wooden shaft. Do not store the wooden shaft in too damp conditions! Too much moisture causes the wooden shaft to swell up and damages the wooden fibres. This can result in the wooden shaft snapping behind the eye area.
- Use only approved non-sparking hammers for work in explosion-hazard areas!
- Use only suitable GEDORE replacement shafts and wedges.

## Safety notes

- For engines with ignition coils integrated in the spark-plug connector (coil-on-plug), use only spark-plug sockets with retainer springs! (Nos. 50 - 59)
- Do not use magnetic spark-plug spanners on coil-on-plug spark plugs!
- This can result in control unit faults!

## Work gloves

- Read the operating instructions.
- Ensure that your work gloves are suitable for the respective task to be performed. Examine your work gloves for damage before use. Damaged work gloves must be replaced.
- Only work using work gloves which fit your hands perfectly.
- Store your work gloves in a clean and dry place.

## Ear protection

- Read the operating instructions.
- Ensure that your ear protection is suitable for the respective task to be performed.
- Examine your ear protection for damage before use. Ear protection displaying damage must be replaced.
- Wear ear protection for the entire duration of your stay in noisy areas.
- Store your ear protection in a clean and dry place.
- Avoid impact against the earpieces. Otherwise, this can lead to a noise level which is harmful for your ears.

## Safety goggles

- Read the operating instructions.
- Ensure that your safety goggles are suitable for the respective task to be performed.
- Examine your safety goggles for damage before use. Damaged safety goggles must be replaced.
- Store safety goggles in dry areas. Use the black plastic bag provided for this purpose. This will help you to avoid scratches on the lenses.
- Clean the lenses regularly under running water, not when dry.
- Do not wear safety goggles on top of standard spectacles. Mechanical effects can be transferred which may be dangerous.

## Workshop lamps

- Always examine the lamp for damage before use. Damaged lamps must be replaced immediately.
- The lamp must be suitable for the respective mains voltage.
- The lamp protective class must be suitable for the respective workplace.
- Do not clamp the mains cable. Never pull the mains cable across sharp edges.

## Work clothing

- Work clothing is not the same as protective clothing. Work clothing is worn at work to supplement, protect or substitute private clothing. It does not have any protective function against harmful influences.
- Always wear close-fitting work clothing. Cuffs must always be closed. Otherwise, there is a risk of work clothing getting caught in rotating parts.
- Always wear the trousers over safety boots/shoes. This prevents foreign bodies from penetrating safety boots/shoes from above.
- Launder your work clothing regularly, observing the care instructions provided by the manufacturer.

## Pliers

- Wear protective goggles when working with pliers! Ejected bits of wire and circlips not correctly positioned in the tip of the pliers pose a risk to your eyes!
- Check on the jaws for wear and tear! Worn jaws result in slipping and thus in accidents.
- The joint of the pliers is not to have any noticeable play! Exceptions are the sliding joints.
- When cutting wire, choose pliers that match the wire diameter and wire hardness!
- Never use pliers as hammers!
- Only insulated and tested pliers are to be used when working on electrical equipment!
- Grip wrenches are only for briefly fixing workpieces!

# Tightening / Test torque

## Suggested bolt tightening torque in N·m (Newton metres)

These torque levels are guideline values for metric standard threads in accordance with DIN ISO 261 and head sizes in accordance with DIN EN ISO 4762, DIN EN ISO 4032, DIN EN ISO 4014, and DIN 931-2, 6912, 7984 und 7990. These produce a 90 % utilisation of the bolt yield strength. The calculations are based on a friction coefficient of 0.14 (new bolt) without any after treatment, non-lubricated). Please note: in extreme cases, e.g. for bolts lubricated with MOS2 compound and with cadmium-plated connecting elements on both sides, the tightening torque should be reduced by around 20 %.

| M | Tightening values for quality grade as per DIN 267 | | | | | |
|---|---|---|---|---|---|---|
| | 4.6 | 5.6 | 6.9 | 8.8 | 10.9 | 12.9 |
| M 2 | 0,123 | 0,162 | 0,314 | 0,373 | 0,520 | 0,628 |
| M 2,2 | 0,196 | 0,265 | 0,510 | 0,598 | 0,843 | 1,010 |
| M 2,5 | 0,284 | 0,373 | 0,726 | 0,863 | 1,206 | 1,451 |
| M 3 | 0,441 | 0,588 | 1,128 | 1,344 | 1,883 | 2,256 |
| M 3,5 | 0,677 | 0,902 | 1,736 | 2,060 | 2,893 | 3,481 |
| M 4 | 1,000 | 1,344 | 2,599 | 3,040 | 4,315 | 5,148 |
| M 5 | 1,916 | 2,648 | 5,099 | 6,031 | 8,483 | 10,200 |
| M 6 | 3,432 | 4,511 | 8,728 | 10,300 | 14,710 | 17,652 |
| M 7 | 5,590 | 7,453 | 14,220 | 17,162 | 24,517 | 28,439 |
| M 8 | 8,238 | 10,787 | 21,575 | 25,497 | 35,304 | 42,168 |
| M 10 | 16,67 | 21,575 | 42,168 | 50,014 | 70,608 | 85,317 |
| M 12 | 28,44 | 38,246 | 73,550 | 87,279 | 122,60 | 147,10 |
| M 14 | 45,11 | 60,801 | 116,70 | 138,30 | 194,20 | 235,40 |
| M 16 | 69,63 | 93,163 | 178,5 | 210,80 | 299,10 | 357,90 |
| M 18 | 95,12 | 127,50 | 245,20 | 289,3 | 411,90 | 490,30 |
| M 20 | 135,3 | 180,45 | 384,10 | 411,90 | 578,60 | 696,30 |
| M 22 | 182,4 | 245,16 | 470,70 | 559,00 | 784,50 | 941,40 |
| M 24 | 230,5 | 308,91 | 598,20 | 711,00 | 1000 | 1196 |
| M 27 | 343,2 | 460,90 | 887,50 | 1049 | 1481 | 1775 |
| M 30 | 465,8 | 622,72 | 1206 | 1422 | 2010 | 2403 |
| M 33 | 632,5 | 848,30 | 1628 | 1932 | 2716 | 3266 |
| M 36 | 814,0 | 1089 | 2099 | 2481 | 3491 | 4197 |
| M 39 | 1059 | 1412 | 2716 | 3226 | 4531 | 5443 |
| M 42 | 1304 | 1746 | 3364 | 3991 | 5609 | 6727 |
| M 45 | 1638 | 2177 | 4207 | 4992 | 7012 | 8414 |
| M 48 | 1981 | 2638 | 5080 | 6021 | 8473 | 10150 |
| M 52 | 2540 | 3393 | 6541 | 7747 | 10885 | 13092 |
| M 56 | 3168 | 4227 | 8149 | 9650 | 13582 | 16279 |
| M 60 | 3932 | 5247 | 10101 | 11964 | 16867 | 20202 |
| M 64 | 4737 | 6306 | 12160 | 14416 | 20300 | 24320 |

## Wrench/spanner test torques in accordance with DIN ISO 1711-1 (minimum guaranteed values) N·m

| mm | No. 2, 2A, 2B No. 1B, 308, 7 | No. 4 | No. 6, No. 1B, 7, 400 | No. 25 | No. 26 R No. 626 | No. 35 A No. 35 B No. 3112 | No. 894 No. 895 |
|---|---|---|---|---|---|---|---|
| 4 | | | 1,90 | | | | |
| 4,5* | | | 2,64 | | | | |
| 5 | 11,5 | | 3,55 | | | | |
| 5,5 | 14,4 | | 4,64 | | 14,4 | | 2,32 |
| 6* | 17,6 | 7,4 | 5,92 | | 17,6 | | 2,96 |
| 7 | 25,2 | 11,4 | 9,12 | | 25,2 | | 4,56 |
| 8<br>9* | 34,5<br>45,4 | 16,6<br>23 | 13,3<br>18,4 | | 34,5<br>45,4 | 34,5<br>45,4 | 6,65<br>9,20 |
| 10 | 58,1 | 31 | 24,8 | 58,1 | 58,1 | 58,1 | 12,4 |
| 11<br>12* | 72,7<br>89,1 | 40,4<br>51,5 | 32,3<br>41,2 | 72,7<br>89,1 | 72,7<br>89,1 | 72,7<br>89,1 | 16,1<br>20,6 |
| 13<br>14* | 107<br>128 | 64,5<br>79,4 | 51,6<br>63,5 | 107<br>128 | 107<br>128 | 107<br>128 | 25,8<br>31,7 |
| 15<br>16<br>17* | 150<br>175<br>201 | 96,2<br>115<br>134 | 77,0<br>92,3<br>107 | 150<br>175<br>201 | 150<br>175<br>201 | 150<br>175<br>201 | 38,5<br>46,1<br>53,5 |
| 18<br>19*<br>20* | 230<br>261<br>294 | 160<br>186<br>215 | 128<br>149<br>172 | 230<br>261<br>294 | 230<br>261<br>294 | 230<br>261<br>294 | 64,0<br>74,5<br>86,0 |
| 21<br>22*<br>23* | 330<br>368<br>408 | 247<br>281<br>319 | 198<br>225<br>255 | 330<br>368<br>408 | 330<br>368<br>408 | 330<br>368<br>408 | 99,0<br>112<br>127 |
| 24<br>25*<br>26* | 451<br>496<br>544 | 359<br>402<br>449 | 287<br>322<br>359 | 451<br>496<br>544 | 451<br>496<br>544 | 451<br>496<br>544 | 143<br>161<br>179 |
| 27<br>28* | 594<br>647 | 499<br>552 | 399<br>442 | 594<br>647 | 594<br>647 | 594<br>647 | 199<br>221 |
| 30 | 760 | 670 | 536 | 760 | 760 | 760 | 268 |
| 32*<br>34 | 884<br>1019 | 804<br>951 | 643<br>761 | 884<br>1019 | 884<br>1019 | 884<br>1019 | 321<br>381 |
| 36 | 1165 | 1117 | 894 | 1165 | 1165 | 1165 | 447 |
| 41 | 1579 | 1442 | 1154 | 1579 | 1579 | 1579 | 577 |
| 46 | 2067 | 1816 | 1453 | 2067 | 2067 | 2067 | 726 |
| 50 | 2512 | 2145 | 1716 | 2512 | 2512 | 2512 | 858 |
| 55 | 3140 | | 2077 | 3140 | 3140 | 3140 | 1038 |
| 60 | 3849 | | 2471 | 3849 | | 3849 | 1235 |
| 65 | 4021 | | 2900 | 4021 | | 4021 | 1422 |
| 70 | 4658 | | 3364 | 4658 | | 4658 | 1618 |
| 75 | 5394 | | 3862 | | | 5394 | 1765 |
| 80 | 6178 | | 4394 | | | 6178 | 1912 |
| 85 | 6963 | | | | | 6963 | 2059 |
| 90 | 7845 | | | | | 7845 | - |
| 95 | 8336 | | | | | 8336 | - |

* These sizes are not included in DIN ISO 272

**Note:**
In reference to the "spanner test torque as per DIN ISO 1711-1" column, we explicitly point out that these are minimum guarantee values.
Bolts from M39 in quality grades 4.6, 5.6, 6.9, 8.8, 10.9 and 12.9 are not standardised.

# Tightening / Test torque

| Wrench/spanner test torques in accordance with DIN ISO 1711-1 (minimum guaranteed values) N·m | | | | | | | Test torques for tightening tools for hexagon socket head screws | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | With internal square as per DIN 3120 | | | | | DIN EN ISO 4762 | No. 42T, DT42 No. 42, 42EL | No. IN 34 | With hexagon head as per DIN 7422 | | | | |
| | | 6,3 | 10 | 12,5 | 20 | 25 | | | | 6,3 | 10 | 12,5 | 20 | 25 |
| | | No. 20 No. D 20 | No. 30 No. D 30 | No. 19 No. D 19 | No. 32 No. D 32 | No. D 21 | | | | No. IN 20 | No. IN30 | No. IN 19 | No. IN 32 | No. IN 21 |
| M | mm | | | | | | mm | | | | | | | |
| | | 1/4" | 3/8" | 1/2" | 3/4" | 1" | | | | 1/4" | 3/8" | 1/2" | 3/4" | 1" |
| M 2 | 4 | 10,4 | | | | | 1,5 | 0,82 | | | | | | |
| M 2,2 | 4,5* | 12,6 | | | | | 2 | 1,9 | | 1,9 | | | | |
| M 2,5 | 5 | 15,1 | | | | | | | | | | | | |
| M 3 | 5,5 | 17,8 | | | | | 2,5 | 3,8 | | 3,8 | | | | |
| M 3,5 | 6* | 20,6 | 23,2 | | | | | | | | | | | |
| M 4 | 7 | 26,8 | 33,2 | | | | 3 | 6,6 | 6,6 | 6,6 | | | | |
| M 5 | 8<br>9* | 33,6<br>41,1 | 45,5<br>59,9 | 94,1<br>119,2 | | | 4 | 16 | 16 | 16 | 16 | 16 | | |
| M 6 | 10 | 49,1 | 76,7 | 147 | | | 5 | 30 | 30 | 30 | 30 | 30 | | |
| M 7 | 11<br>12* | 57,8<br>67,0 | 96<br>118 | 178<br>212 | | | | | | | | | | |
| M 8 | 13<br>14* | 68,6<br>68,6 | 141<br>169 | 249<br>288 | | | 6<br>7 | 52<br>80 | 52 | 52 | 52<br>78 | 52<br>78 | | |
| M 10 | 15<br>16<br>17* | | 198<br>225<br>225 | 331<br>377<br>425 | | | 8<br>9 | 120<br>165 | 120 | 120 | 120 | 120<br>165 | | |
| M 12 | 18<br>19*<br>20* | | 225<br>225<br>225 | 477<br>531<br>569 | | | 10<br>12 | 220<br>370 | 220<br>370 | | 220 | 220<br>370 | | |
| M 14 | 21<br>22*<br>23* | | 225<br>225 | 569<br>569<br>569 | 569<br>569 | | | | | | | | | |
| M 16 | 24<br>25*<br>26* | | | 569<br>569<br>569 | 569<br>583<br>624 | | 14 | 590 | 590 | | | 590 | 590 | |
| M 18 | 27<br>28* | | | 569<br>569 | 665<br>707 | | | | | | | | | |
| M 20 | 30 | | | 569 | 795 | | 17 | 980 | 980 | | | 1000 | 1000 | 1000 |
| M 22 | 32*<br>34 | | | 569<br>569 | 888<br>984 | | | | | | | | | |
| M 24 | 36 | | | | 1084 | 1677 | 19 | 1360 | 1360 | | | 1400 | 1400 | 1400 |
| M 27 | 41 | | | | 1353 | 1910 | | | | | | | | |
| M 30 | 46 | | | | 1569 | 2143 | 22 | 2110 | | | | | 2100 | 2100 |
| M 33 | 50 | | | | 1569 | 2329 | 24 | 2750 | | | | | | |
| M 36 | 55 | | | | 1569 | 2562 | 27 | 3910 | | | | | | 2700 |
| M 39 | 60 | | | | 1569 | 2795 | 30 | 4000 | | | | | | |
| M 42 | 65 | | | | | 2795 | 32 | 4000 | | | | | | |
| M 45 | 70 | | | | | 2795 | | | | | | | | |
| M 48 | 75 | | | | | 2795 | 36 | 4000 | | | | | | |
| M 52 | 80 | | | | | 2795 | | | | | | | | |
| M 56 | 85 | | | | | | | | | | | | | |
| M 60 | 90 | | | | | | | | | | | | | |
| M 64 | 95 | | | | | | | | | | | | | |

The matching test torques are derived from the theoretical load capability of the connecting square drive.

**Note:**
Hand tightening sockets are unsuited to use with impact drivers. Inappropriate use poses an accident risk. Power driver sockets can be found on page 235

# Head widths and thread diameters

| Nominal size DIN ISO 272 normal *(large)* mm | Thread diameter | | Nominal size | Nominal size | | Thread diameter | | Nominal size | |
|---|---|---|---|---|---|---|---|---|---|
| | Metric as per DIN ISO 272 | Metric for high-tensile bolted structural joints as per EN 14399-4 | "AF | Inch | Whitw. | | BS 916, 1083 | Inch | |
| 3,2 *(–)*<br>4 *(–)* | 1,6<br>2 | | | | | | | | |
| 5 *(–)*<br>5,5 *(–)* | 2,5<br>3 | | 5/32<br><br>3/16 | 0,1562<br><br>0,1875 | 3,97<br><br>4,76 | 8 BA<br>7 BA<br>6 BA | | 0,152<br>0,172<br>0,193 | 3,86<br>4,37<br>4,90 |
| 7 *(–)*<br>8 *(–)* | 4<br>5 | | 7/32<br>1/4 | 0,2187<br>0,2500 | 5,56<br>6,35 | 5 BA<br>4 BA<br>1/16 W | | 0,220<br>0,248<br>0,256 | 5,59<br>6,30<br>6,90 |
| 10 *(–)*<br>11 *(–)* | 6<br>7 | | 9/32<br><br>5/16 | 0,2812<br><br>0,3125 | 7,14<br><br>7,94 | 3 BA<br>3/32 W<br>2 BA | | 0,282<br>0,297<br>0,324 | 7,16<br>7,54<br>8,23 |
| 13 *(–)*<br>16 *(–)* | 8<br>10 | | 11/32<br>3/8<br>13/32 | 0,3438<br>0,3750<br>0,4062 | 8,73<br>9,52<br>10,32 | 1/8 W<br>1 BA<br>0 BA | (3/16)<br><br>(7/32) | 0,340<br>0,365<br>0,413 | 8,64<br>9,27<br>10,49 |
| 18 *(21)*<br>21 *(24)*<br>22 | 12<br>14 | <br><br>12 | 7/16<br><br>1/2 | 0,4375<br><br>0,5000 | 11,11<br><br>12,70 | 3/16 W<br><br>1/4 W | 1/4<br><br>5/16 | 0,445<br><br>0,525 | 11,30<br><br>13,34 |
| 24 *(27)*<br>27 *(30)* | 16<br>18 | 16 | 9/16<br>19/32<br>5/8 | 0,5625<br>0,5938<br>0,6250 | 14,29<br>15,08<br>15,88 | 5/16 W | 3/8 | 0,600 | 15,24 |
| 30 *(34)*<br>32<br>34 *(36)* | 20<br><br>22 | <br>20<br> | 11/16<br><br>3/4 | 0,6875<br><br>0,7500 | 17,46<br><br>19,05 | 3/8 W | 7/16 | 0,710 | 18,03 |
| 36 *(41)*<br>41 *(46)* | 24<br>27 | 22<br>24 | 25/32<br>13/16<br>7/8 | 0,7812<br>0,8125<br>0,8750 | 19,84<br>20,64<br>22,22 | 7/16 W | 1/2 | 0,820 | 20,83 |
| 46 *(50)*<br>50 *(55)* | 30<br>33 | 27<br>30 | <br>15/16<br>1. | <br>0,9375<br>1,0000 | <br>23,81<br>25,40 | 1/2 W | 9/16 | 0,920 | 23,37 |
| 55 *(60)*<br>60 *(65)* | 36<br>39 | <br>36 | <br>1.1/16 | <br>1,0625 | <br>26,99 | 9/16 W<br><br>5/8 W | 5/8<br><br>(11/16) | 1,010<br><br>1,100 | 25,65<br><br>27,94 |
| 65<br>70 | 42<br>45 | | 1.1/8<br>1.3/16<br>1.1/4 | 1,1250<br>1,1875<br>1,2500 | 28,58<br>30,16<br>31,75 | 11/16 W | 3/4 | 1,200 | 30,48 |
| 75<br>80 | 48<br>52 | | 1.5/16<br>1.3/8<br>1.7/16 | 1,3125<br>1,3750<br>1,4375 | 33,34<br>34,92<br>36,51 | 3/4 W<br>13/16 W | 7/8<br>(15/16) | 1,300<br>1,390 | 33,02<br>35,31 |
| 85<br>90 | 56<br>60 | | 1.1/2<br>1.5/8<br>1.11/16 | 1,5000<br>1,6250<br>1,6875 | 38,10<br>41,28<br>42,86 | 7/8 W<br><br>1. W | 1.<br><br>1.1/8 | 1,480<br><br>1,670 | 37,59<br><br>42,42 |
| 95<br>100 | 64<br>68 | | 1.3/4<br>1.13/16<br>1.7/8 | 1,7500<br>1,8125<br>1,8750 | 44,45<br>46,04<br>47,62 | <br><br>1.1/8 W | <br><br>1.1/4 | <br><br>1,860 | <br><br>47,24 |
| 105<br>110 | 72<br>76 | | 2.<br>2.1/16<br>2.3/16 | 2,0000<br>2,0625<br>2,1875 | 50,80<br>52,39<br>55,56 | <br>1.1/4 W | <br>1.3/8 | <br>2,050 | <br>52,07 |
| 115<br>120 | 80<br>85 | | 2.1/4<br>2.3/8<br>2.7/16 | 2,2500<br>2,3750<br>2,4375 | 57,15<br>60,32<br>61,91 | 1.3/8 W<br><br>1.1/2 W | 1.1/2<br><br>1.5/8 | 2,220<br><br>2,410 | 56,39<br><br>61,21 |
| 130 | 90 | | 2.9/16<br>2.5/8<br>2.3/4 | 2,5625<br>2,3750<br>2,7500 | 65,09<br>66,68<br>69,85 | 1.5/8 W<br><br>1.3/4 W | 1.3/4<br><br>2. | 2,580<br><br>2,760 | 65,53<br><br>70,10 |
| 135 | 95 | | 2.13/16<br>2.15/16<br>3 | 2,8125<br>2,9375<br>3,0000 | 71,44<br>74,61<br>76,20 | <br><br>(1.7/8 W) | <br><br> | <br><br> | <br><br>76,70 |
| 145 | 100 | | 3.1/8<br>3.3/8<br>3.1/2 | 3,1250<br>3,3750<br>3,5000 | 79,38<br>85,72<br>88,90 | | 2.1/4<br><br>2.1/2 | 3,150<br><br>3,550 | 80,01<br><br>90,17 |
| 150 | 105 | | 3.3/4<br>3.7/8 | 3,7500<br>3,8750 | 95,25<br>98,42 | | 2.3/4 | 3,890 | 98,81 |
| 155 | 110 | | 4.1/8<br>4.1/4<br>4.1/2 | 4,1250<br>4,2500<br>4,5000 | 104,78<br>107,95<br>114,30 | | 3.<br><br>3.1/4 | 4,180<br><br>4,530 | 106,17<br><br>115,06 |
| 165 | 115 | | 4.5/8<br>4.7/8<br>5. | 4,6250<br>4,8750<br>5,0000 | 117,48<br>123,82<br>127,00 | | 3.1/2 | 4,850 | 123,19 |
| 170 | 120 | | 5.1/4<br>5.3/8<br>5.5/8 | 5,2500<br>5,3750<br>5,6250 | 133,35<br>136,52<br>142,88 | | 3.3/4<br><br>4. | 5,180<br><br>5,550 | 131,57<br><br>140,97 |
| 180 | 125 | | 5.3/4<br>6.<br>6.1/8 | 5,7500<br>6,0000<br>6,1250 | 146,05<br>152,40<br>155,58 | | <br><br>4.1/2 | <br><br>6,380 | <br><br>162,05 |
| 185 | 130 | | | | | | | | |
| 200 | 140 | | | | | | | | |
| 210 | 150 | | | | | | | | |

# Spanner sizes tolerance for bolts and socket wrenches

mm

| Nominal size /s in mm | Tolerance class 1 as per ISO 691 dimensions | | Tolerance class 2[a] as per ISO 691 dimensions | |
|---|---|---|---|---|
| | min. | max. | min. | max. |
| 2 ≤s < 3 | + 0,02 | + 0,08 | + 0,02 | + 0,12 |
| 3 ≤s < 4 | + 0,02 | + 0,10 | + 0,02 | + 0,14 |
| 4 ≤s < 6 | + 0,02 | + 0,12 | + 0,02 | + 0,16 |
| 6 ≤s < 10 | + 0,03 | + 0,15 | + 0,03 | + 0,19 |
| 10 ≤s < 12 | + 0,04 | + 0,19 | + 0,04 | + 0,24 |
| 12 ≤s < 14 | + 0,04 | + 0,24 | + 0,04 | + 0,30 |
| 14 ≤s < 17 | + 0,05 | + 0,27 | + 0,05 | + 0,35 |
| 17 ≤s < 19 | + 0,05 | + 0,30 | + 0,05 | + 0,40 |
| 19 ≤s < 26 | + 0,06 | + 0,36 | + 0,06 | + 0,46 |
| 26 ≤s < 33 | + 0,08 | + 0,48 | + 0,08 | + 0,58 |
| 33 ≤s < 55 | + 0,10 | + 0,60 | + 0,10 | + 0,70 |
| 55 ≤s < 75 | + 0,12 | + 0,72 | + 0,12 | + 0,92 |
| 75 ≤s < 105 | + 0,15 | + 0,85 | + 0,15 | + 1,15 |
| 105 ≤s < 150 | + 0,20 | + 1,00 | + 0,20 | + 1,40 |
| 150 ≤s < 210 | + 0,25 | + 1,25 | - | - |

This tolerance class applies only to ring spanners or socket wrenches that have not been manufactured by material removal.

**Spanner sizes in accordance with this international standard must be marked with:**
a) Spanner head size
b) Reference to the international standard, i.e. ISO 691
c) Nominal size s in millimetres
d) Tolerance class 1 or 2

# Conversion tables

## Inch to decimal-inches and mm

| in. | dec.in. | mm |
|---|---|---|
| **0** | **0** | **0** |
| 1/64 | 0.015625 | 0,3969 |
| 1/32 | 0.03125 | 0,7938 |
| 3/64 | 0.046875 | 1,1906 |
| **1/16** | **0.0625** | **1,5875** |
| 5/64 | 0.078125 | 1,9844 |
| 3/32 | 0.09375 | 2,3812 |
| 7/64 | 0.109375 | 2,7781 |
| **1/8** | **0.125** | **3,1750** |
| 9/64 | 0.140625 | 3,5719 |
| 5/32 | 0.15625 | 3,9688 |
| 11/64 | 0.171875 | 4,3656 |
| **3/16** | **0.1875** | **4,7625** |
| 13/64 | 0.203125 | 5,1594 |
| 7/32 | 0.21875 | 5,5562 |
| 15/64 | 0.234375 | 5,9531 |
| **1/4** | **0.25** | **6,3500** |
| 17/64 | 0.265625 | 6,7469 |
| 9/32 | 0.28125 | 7,1438 |
| 19/62 | 0.296875 | 7,5406 |
| **5/16** | **0.3125** | **7,9375** |
| 21/64 | 0.328125 | 8,3344 |
| 11/32 | 0.34375 | 8,7312 |
| 23/64 | 0.359375 | 9,1281 |
| **3/8** | **0.375** | **9,5250** |
| 25/64 | 0.390625 | 9,9219 |
| 13/32 | 0.40625 | 10,3188 |
| 27/64 | 0.421875 | 10,7156 |
| **7/16** | **0.4375** | **11,1125** |
| 29/64 | 0.453125 | 11,5094 |
| 15/32 | 0.46875 | 11,9062 |
| 31/64 | 0.484375 | 12,3031 |

| in. | dec.in. | mm |
|---|---|---|
| **1/2** | **0.5** | **12,7000** |
| 33/64 | 0.515625 | 13,0969 |
| 17/32 | 0.53125 | 13,4938 |
| 35/64 | 0.546875 | 13,8906 |
| **9/16** | **0.5625** | **14,2875** |
| 37/64 | 0.578125 | 14,6844 |
| 19/32 | 0.59375 | 15,0812 |
| 39/64 | 0.609375 | 15,4781 |
| **5/8** | **0.625** | **15,8750** |
| 41/64 | 0.640625 | 16,2719 |
| 21/32 | 0.65625 | 16,6688 |
| 43/64 | 0.671875 | 17,0656 |
| **11/16** | **0.6875** | **17,4625** |
| 45/64 | 0.703125 | 17,8594 |
| 23/32 | 0.71875 | 18,2562 |
| 47/64 | 0.734375 | 18,6531 |
| **3/4** | **0,75** | **19,0500** |
| 49/64 | 0,765625 | 19,4469 |
| 25/32 | 0,78125 | 19,8438 |
| 51/64 | 0,796875 | 20,2406 |
| **13/16** | **0,8125** | **20,6375** |
| 53/64 | 0,828125 | 21,0344 |
| 27/32 | 0,84375 | 21,4312 |
| 55/64 | 0,859375 | 21,8281 |
| **7/8** | **0,875** | **22,2250** |
| 57/64 | 0,890625 | 22,6219 |
| 29/32 | 0,90625 | 23,0188 |
| 59/64 | 0,921875 | 23,4156 |
| **15/16** | **0,9375** | **23,8125** |
| 61/64 | 0,953125 | 24,2094 |
| 31/32 | 0,96875 | 24,6062 |
| 63/64 | 0,984375 | 25,0031 |
| 1 | 1 | 25,4000 |

# Torque conversion tables

Torque conversion factors

| Units to be | Corresponding unit | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | = mN·m | = cN·m | = N·m | = ozf·in | = lbf·in | = lbf·ft | = gf·cm | = kgf·cm (kp·cm) | = kgf·m (kp·m) |
| 1 mN·m | 1 | 0,1 | 0,001 | 0,142 | 0,009 | 0,0007 | 10,2 | 0,01 | 0,0001 |
| 1 cN·m | 10 | 1 | 0,01 | 1,416 | 0,088 | 0,007 | 102 | 0,102 | 0,001 |
| 1 N·m | 1000 | 100 | 1 | 141,6 | 8,851 | 0,738 | 10197 | 10,2 | 0,102 |
| 1 ozf·in | 7,062 | 0,706 | 0,007 | 1 | 0,0625 | 0,005 | 72 | 0,072 | 0,0007 |
| 1 lbf·in | 113 | 11,3 | 0,113 | 16 | 1 | 0,083 | 1152,1 | 1,152 | 0,0115 |
| 1 lbf·ft | 1356 | 135,6 | 1,356 | 192 | 12 | 1 | 13826 | 13,83 | 0,138 |
| 1 gf·cm | 0,098 | 0,01 | 0,0001 | 0,014 | 0,0009 | 0,00007 | 1 | 0,001 | 0,00001 |
| 1 kgf·cm (kp·cm) | 98,07 | 9,807 | 0,098 | 13,89 | 0,868 | 0,072 | 1000 | 1 | 0,01 |
| 1 kgf·m (kp·m) | 9807 | 980,7 | 9,807 | 1389 | 86,8 | 7,233 | 100000 | 100 | 1 |

## Application:

**Conversion formula:**
Units to be converted x factor = corresponding unit

**Example:**
Convert of 5 lbf·ft in cN·m

**Solution:**
5 x 135.6 = 678 cN·m

**Conversion from N·m in kgf·m (kp·m)** — 1N·m = 0,102 kgf·m

| N·m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0,00 | 0,10 | 0,20 | 0,31 | 0,41 | 0,51 | 0,61 | 0,71 | 0,82 | 0,92 |
| 10 | 1,02 | 1,12 | 1,22 | 1,33 | 1,43 | 1,53 | 1,63 | 1,73 | 1,84 | 1,94 |
| 20 | 2,04 | 2,14 | 2,24 | 2,35 | 2,45 | 2,55 | 2,65 | 2,75 | 2,86 | 2,96 |
| 30 | 3,06 | 3,16 | 3,26 | 3,37 | 3,47 | 3,57 | 3,67 | 3,77 | 3,87 | 3,98 |
| 40 | 4,08 | 4,18 | 4,28 | 4,38 | 4,49 | 4,59 | 4,69 | 4,79 | 4,89 | 5,00 |
| 50 | 5,10 | 5,20 | 5,30 | 5,40 | 5,51 | 5,61 | 5,71 | 5,81 | 5,91 | 6,02 |
| 60 | 6,12 | 6,22 | 6,32 | 6,42 | 6,53 | 6,63 | 6,73 | 6,83 | 6,93 | 7,04 |
| 70 | 7,14 | 7,24 | 7,34 | 7,44 | 7,55 | 7,65 | 7,75 | 7,85 | 7,95 | 8,06 |
| 80 | 8,16 | 8,26 | 8,36 | 8,46 | 8,57 | 8,67 | 8,77 | 8,87 | 8,97 | 9,08 |
| 90 | 9,18 | 9,28 | 9,38 | 9,48 | 9,59 | 9,69 | 9,79 | 9,89 | 9,99 | 10,10 |
| 100 | 10,20 | 10,30 | 10,40 | 10,50 | 10,60 | 10,71 | 10,81 | 10,91 | 11,01 | 11,11 |

**Conversion from kgf·m (kp·m) in N·m** — 1 kgf·m (kp·m) = 9,807 N·m

| kgf·m(kp·m) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0,00 | 9,81 | 19,61 | 29,42 | 39,23 | 49,03 | 58,84 | 68,65 | 78,45 | 88,26 |
| 10 | 98,07 | 107,87 | 117,68 | 127,49 | 137,29 | 147,10 | 156,91 | 166,71 | 176,52 | 186,33 |
| 20 | 196,13 | 205,94 | 215,75 | 225,55 | 235,36 | 245,17 | 254,97 | 264,78 | 274,59 | 284,39 |
| 30 | 294,20 | 304,01 | 313,81 | 323,62 | 333,43 | 343,23 | 353,04 | 362,85 | 372,65 | 382,46 |
| 40 | 392,27 | 402,07 | 411,88 | 421,69 | 431,49 | 441,30 | 451,11 | 460,91 | 470,72 | 480,53 |
| 50 | 490,33 | 500,14 | 509,95 | 519,75 | 529,56 | 539,37 | 549,17 | 558,98 | 568,79 | 578,59 |
| 60 | 588,40 | 598,21 | 608,01 | 617,82 | 627,63 | 637,43 | 647,24 | 657,05 | 666,85 | 676,66 |
| 70 | 686,47 | 696,27 | 706,08 | 715,89 | 725,69 | 735,50 | 745,31 | 755,11 | 764,92 | 774,73 |
| 80 | 784,53 | 794,34 | 804,15 | 813,95 | 823,76 | 833,57 | 843,37 | 853,18 | 862,99 | 872,79 |
| 90 | 882,60 | 892,41 | 902,21 | 912,02 | 921,83 | 931,63 | 941,44 | 951,25 | 961,05 | 970,86 |
| 100 | 980,67 | 990,47 | 1000,28 | 1010,08 | 1019,89 | 1029,70 | 1039,50 | 1049,31 | 1059,12 | 1068,92 |

**Conversion from N·m in lbf·ft** — 1N·m=0,7376 lbf·ft

| N·m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0,00 | 0,74 | 1,48 | 2,21 | 2,95 | 3,69 | 4,43 | 5,16 | 5,90 | 6,64 |
| 10 | 7,38 | 8,11 | 8,85 | 9,59 | 10,33 | 11,06 | 11,80 | 12,54 | 13,28 | 14,01 |
| 20 | 14,75 | 15,49 | 16,23 | 16,96 | 17,70 | 18,44 | 19,18 | 19,91 | 20,65 | 21,39 |
| 30 | 22,13 | 22,86 | 23,60 | 24,34 | 25,08 | 25,81 | 26,55 | 27,29 | 28,03 | 28,76 |
| 40 | 29,50 | 30,24 | 30,98 | 31,72 | 32,45 | 33,19 | 33,93 | 34,67 | 35,40 | 36,14 |
| 50 | 36,88 | 37,62 | 38,35 | 39,09 | 39,83 | 40,57 | 41,30 | 42,04 | 42,87 | 43,52 |
| 60 | 44,25 | 44,99 | 45,73 | 46,47 | 47,20 | 47,94 | 48,68 | 49,42 | 50,15 | 50,89 |
| 70 | 51,63 | 52,37 | 53,10 | 53,84 | 54,58 | 55,32 | 56,05 | 56,79 | 57,53 | 58,27 |
| 80 | 59,00 | 59,74 | 60,48 | 61,22 | 61,96 | 62,69 | 63,43 | 64,17 | 64,91 | 65,64 |
| 90 | 66,38 | 67,12 | 67,86 | 68,59 | 69,33 | 70,07 | 70,81 | 71,54 | 72,28 | 73,02 |
| 100 | 73,76 | 74,49 | 75,23 | 75,97 | 76,71 | 77,44 | 78,18 | 78,92 | 79,66 | 80,39 |

**Conversion from lbf·ft in N·m** — 1 lbf·ft = 1,356 N·m

| lbf·ft | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0,00 | 1,36 | 2,71 | 4,07 | 5,42 | 6,78 | 8,13 | 9,49 | 10,85 | 12,20 |
| 10 | 13,56 | 14,91 | 16,27 | 17,63 | 18,98 | 20,34 | 21,69 | 23,05 | 24,40 | 25,76 |
| 20 | 27,12 | 28,47 | 29,83 | 31,18 | 32,54 | 33,90 | 35,25 | 36,61 | 37,96 | 39,32 |
| 30 | 40,67 | 42,03 | 43,39 | 44,74 | 46,10 | 47,45 | 48,81 | 50,16 | 51,52 | 52,88 |
| 40 | 54,23 | 55,59 | 56,94 | 58,30 | 59,66 | 61,01 | 62,37 | 63,72 | 65,08 | 66,43 |
| 50 | 67,79 | 69,15 | 70,50 | 71,86 | 73,21 | 74,57 | 75,93 | 77,28 | 78,64 | 79,99 |
| 60 | 81,35 | 82,70 | 84,06 | 85,42 | 86,77 | 88,13 | 89,48 | 90,84 | 92,20 | 93,55 |
| 70 | 94,91 | 96,26 | 97,62 | 98,97 | 100,33 | 101,69 | 103,04 | 104,40 | 105,75 | 107,11 |
| 80 | 108,46 | 109,82 | 111.18 | 112,53 | 113,89 | 115,24 | 116,60 | 117,96 | 119,31 | 120,67 |
| 90 | 122,02 | 123,38 | 124,73 | 126,09 | 127,45 | 128,80 | 130,16 | 131,51 | 132,87 | 134,23 |
| 100 | 135,58 | 136,94 | 138,29 | 139,65 | 141,00 | 142,36 | 143,72 | 145,07 | 146,43 | 147,78 |

**Conversion from N·m in lbf·in** — 1 N·m = 8,851 lbf·in

| N·m | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0,00 | 8,85 | 17,70 | 26,55 | 35,40 | 44,25 | 53,10 | 61,96 | 70,81 | 79,66 |
| 10 | 88,51 | 97,36 | 106,21 | 115,06 | 123,91 | 132,76 | 141,61 | 150,46 | 159,31 | 168,16 |
| 20 | 177,02 | 185,87 | 194,72 | 203,57 | 212,42 | 221,27 | 230,12 | 238,97 | 247,82 | 256,67 |
| 30 | 265,52 | 274,37 | 283,22 | 292,08 | 300,93 | 309,78 | 318,63 | 327,48 | 336,33 | 345,18 |
| 40 | 354,03 | 362,88 | 371,73 | 380,58 | 389,43 | 398,28 | 407,14 | 415,99 | 424,84 | 433,69 |
| 50 | 442,54 | 451,39 | 460,24 | 469,09 | 477,94 | 486,79 | 495,64 | 504,49 | 513,34 | 522,20 |
| 60 | 531,05 | 539,90 | 548,75 | 557,60 | 566.45 | 575,30 | 584,15 | 593,00 | 601,85 | 610,70 |
| 70 | 619,55 | 628,40 | 637,26 | 646,11 | 654,96 | 663,81 | 672,66 | 681,51 | 690,36 | 699,21 |
| 80 | 708,06 | 716,91 | 725,76 | 734,61 | 743,46 | 752,32 | 761,17 | 770,02 | 778,87 | 787,72 |
| 90 | 796,57 | 805,42 | 814,27 | 823,12 | 831,97 | 840,82 | 849,67 | 858,52 | 867,38 | 876,23 |
| 100 | 885,08 | 893,93 | 902,78 | 911,63 | 920,48 | 929,33 | 938,18 | 947,03 | 955,88 | 964,73 |

**Conversion from lbf·in in N·m** — 1 lbf·in = 0,113 N·m

| lbf·in | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 0,00 | 0,11 | 0,23 | 0,34 | 0,45 | 0,56 | 0,68 | 0,79 | 0,90 | 1,02 |
| 10 | 1,13 | 1,24 | 1,36 | 1,47 | 1,58 | 1,69 | 1,81 | 1,92 | 2,03 | 2,15 |
| 20 | 2,26 | 2,37 | 2,49 | 2,60 | 2,71 | 2,82 | 2,94 | 3,05 | 3,16 | 3,28 |
| 30 | 3,39 | 3,50 | 3,62 | 3,73 | 3,84 | 3,95 | 4,07 | 4,18 | 4,29 | 4,41 |
| 40 | 4,52 | 4,63 | 4,75 | 4,86 | 4,97 | 5,08 | 5,20 | 5,31 | 5,42 | 5,54 |
| 50 | 5,65 | 5,76 | 5,87 | 5,99 | 6,10 | 6,21 | 6,33 | 6,44 | 6,55 | 6,67 |
| 60 | 6,78 | 6,89 | 7,00 | 7,12 | 7,23 | 7,34 | 7,46 | 7,57 | 7,68 | 7,80 |
| 70 | 7,91 | 8,02 | 8,13 | 8,25 | 8,36 | 8,47 | 8,59 | 8,70 | 8,81 | 8,93 |
| 80 | 9,04 | 9,15 | 9,26 | 9,38 | 9,49 | 9,60 | 9,72 | 9,83 | 9,94 | 10,06 |
| 90 | 10,17 | 10,28 | 10,39 | 10,51 | 10,62 | 10,73 | 10,58 | 10,96 | 11,07 | 11,19 |
| 100 | 11,30 | 11,41 | 11,52 | 11,64 | 11,75 | 11,86 | 11,98 | 12,09 | 12,20 | 12,31 |

## Important prefix characters

| | | | |
|---|---|---|---|
| Giga | G | 1.000.000.000 | $= 10^9$ |
| Mega | M | 1.000.000 | $= 10^6$ |
| Kilo | k | 1.000 | $= 10^3$ |
| Hecto | H | 100 | $= 10^2$ |
| Deca | Da | 10 | $= 10^1$ |
| Deci | d | 0,1 | $= 10^{-1}$ |
| Centi | c | 0,01 | $= 10^{-2}$ |
| Milli | m | 0,001 | $= 10^{-3}$ |
| Micro | µ | 0,000001 | $= 10^{-6}$ |
| Nano | n | 0,000000001 | $= 10^{-9}$ |

## Important SI units with conversions to old but still commonly used units

| | | | | |
|---|---|---|---|---|
| Length | metre | m | | |
| Masa | kilogramme | kg | | |
| Time | second | s | | |
| Force | newton | N | = kg m/s² | 1 N = 0,102 kp |
| Torque | newton metre | N·m | | 9,81 N·m = 1 kp·m |
| Energy (work) | joule | J | = N·m | |
| Heat quantity | joule | J | | 1 J = 0,239 cal |
| Power | watt | W | = N·m/s | 1 kW = 1,36 PS = 860 kcal/h |
| Pressure | pascal | Pa | = N/m² | 100 000 Pa = 1 bar = 10 mWS |
| Electrical current | ampere | A | | |
| Temperature | kelvin | K | | 1 K = 1 °C |

## Conversion table, mass and weight

| | | | | |
|---|---|---|---|---|
| 1 megagramme (Mg) | = 1.000 kg | = 10.000 hg | = 100.000 dag | = 1.000.000 g |
| 1 ton (to.) | = 1.000 kg | | | |
| 1 kilogramme (kg) | | = 10 hg | = 100 dag | = 1000 g |
| 1 hectogramme (hg) | | | = 10 dag | = 100 g |
| 1 decagramme (dag) | | | | = 10 g |
| 1 gramme (g) | = 10 dg | = 100 cg | = 1000 mg | |
| 1 decigramme (dg) | | = 10 cg | = 100 mg | |
| 1 centigramme (cg) | | | = 10 mg | |
| 1 miligramme (mg) | | | = 1 mg | |

## Conversion table, force and torque

| | |
|---|---|
| 1 newton | = 0,102 kp |
| 1 kilopond | = 9,81 N |
| 1 kilopond metre | = 9,81 N·m |

* Statutory unit in the Federal Republic of Germany until 1977

## Material properties

| | Density g/cm³ | Expansion 1/°C | Melting point °C | Modulus of elasticity N/mm |
|---|---|---|---|---|
| Aluminium | 2,7 | 0,000024 | 660,1 | 72 000 |
| Lead | 11,3 | 0,000029 | 327,3 | 16 000 |
| Iron (Steel) | 7,86 | 0,000012 | 1540 | 210 000 |
| Gold | 19,3 | 0,000014 | 1063 | 79 000 |
| Copper | 8,9 | 0,000017 | 1083 | 126 000 |
| Zinc | 7,1 | 0,000026 | 419 | 94 000 |
| Glass | 2,2–2,9 | 0,000008 | 800–1500 | 68 000 |
| Air | 0,0013 | 0,0036 | | |
| Wood | 0,5–0,7 | | | 10 000 |
| Plastics / synthetic materials: | | | | |
| PS, | 1,05 | 0,00008 | | 3 400 |
| PP, | 0,9 | 0,00018 | | 1 200 |
| ABS | 1,05 | 0,00010 | | 2 500 |

## Examples

**Example 1:**
Expansion of a steel body of 100 mm in length at a temperature of 10 °C. Length y expansion coefficient x °C exp. = 100 mm x 0,000012 x 10 = 0,012 mm = 12 µm

**Example 2:**
Elastic expansion e = s/E.
A body of 100 mm in length made of ABS is stretched with s = 50 N/mm². e = 50 N/mm²: 2500 N/mm² = 0.02.
The expansion is: 100 mm x 0.02 = 2 mm.

**Example 3:**
Two steel plates with a total thickness of 20 mm are pre-stressed by means of a screw connection of s = 50 N/mm²: e = 50: 210000 = 0.00024. The compression in the surrounding area of the screw is 20 mm x 0.00024 = 0,0048 mm = 5 µm.

**The elastic compression induces a continuous pre-tension of the screw connection.**
**A properly tensed screw connection is selfinhibiting.**

# Comparsion table of Vickers-Brinell-Rockwell hardness and tensile strength

| Vickers hardness HV 30 | Brinell hardness HB 30 | Rockwell hardness HRB | Rockwell hardness HRC | Tensile strength sB N/mm² |
|---|---|---|---|---|
| 80 | 80,7 | 36,4 | – | 270 |
| 85 | 85 | 42,4 | – | 290 |
| 90 | 90 | 47,4 | – | 310 |
| 95 | 95 | 52,0 | – | 320 |
| 100 | 100 | 56,4 | – | 340 |
| 105 | 105 | 60,0 | – | 360 |
| 110 | 110 | 63,4 | – | 380 |
| 115 | 115 | 66,4 | – | 390 |
| 120 | 120 | 69,4 | – | 410 |
| 125 | 125 | 72,0 | – | 420 |
| 130 | 130 | 74,4 | – | 440 |
| 135 | 135 | 76,4 | – | 460 |
| 140 | 140 | 78,4 | – | 470 |
| 145 | 145 | 80,4 | – | 490 |
| 150 | 150 | 82,2 | – | 500 |
| 155 | 155 | 83,8 | – | 520 |
| 160 | 160 | 85,4 | – | 540 |
| 165 | 165 | 86,8 | – | 550 |
| 170 | 170 | 88,2 | – | 570 |
| 175 | 175 | 89,6 | – | 590 |
| 180 | 180 | 90,8 | – | 600 |
| 185 | 185 | 91,8 | – | 620 |
| 190 | 190 | 91,5 | – | 640 |
| 195 | 195 | 94,0 | – | 660 |
| 200 | 200 | 95,0 | – | 670 |
| 205 | 205 | 95,8 | – | 680 |
| 210 | 210 | 96,6 | – | 710 |
| 215 | 215 | 97,4 | – | 720 |
| 220 | 220 | 98,2 | – | 730 |
| 225 | 225 | 99,0 | – | 750 |
| 230 | 230 | – | 19,2 | 760 |
| 235 | 235 | – | 20,2 | 780 |
| 240 | 240 | – | 21,2 | 800 |
| 245 | 245 | – | 22,1 | 820 |
| 250 | 250 | – | 23,0 | 830 |
| 255 | 255 | – | 23,8 | 850 |
| 260 | 260 | – | 24,6 | 870 |
| 265 | 265 | – | 25,4 | 880 |
| 270 | 270 | – | 26,9 | 900 |
| 275 | 275 | – | 27,1 | 920 |
| 280 | 280 | – | 27,6 | 940 |
| 285 | 285 | – | 28,3 | 950 |
| 290 | 290 | – | 29,0 | 970 |
| 295 | 295 | – | 29,6 | 990 |
| 300 | 300 | – | 30,3 | 1010 |
| 310 | 310 | – | 31,5 | 1040 |
| 320 | 320 | – | 32,7 | 1080 |
| 330 | 330 | – | 33,8 | 1110 |
| 340 | 340 | – | 34,9 | 1140 |
| 350 | 350 | – | 36,0 | 1170 |
| 360 | 359 | – | 37,0 | 1200 |
| 370 | 368 | – | 38,0 | 1230 |
| 380 | 376 | – | 38,9 | 1260 |
| 390 | 385 | – | 39,8 | 1290 |
| 400 | 392 | – | 40,7 | 1320 |
| 410 | 400 | – | 41,5 | 1350 |
| 420 | 408 | – | 42,4 | 1380 |
| 430 | 415 | – | 43,2 | 1410 |
| 440 | 423 | – | 44,0 | 1430 |
| 450 | 430 | – | 44,8 | 1460 |
| 460 | – | – | 45,6 | (1490) |
| 470 | – | – | 46,3 | (1520) |
| 480 | – | – | 47,0 | (1550) |
| 490 | – | – | 47,7 | (1580) |
| 500 | – | – | 48,3 | (1600) |
| 510 | – | – | 49,1 | (1630) |
| 520 | – | – | 49,7 | (1660) |
| 530 | – | – | 50,4 | (1690) |
| 540 | – | – | 51,0 | (1710) |
| 550 | – | – | 51,6 | (1740) |
| 560 | – | – | 52,2 | (1770) |
| 570 | – | – | 52,8 | (1790) |
| 580 | – | – | 53,3 | (1820) |
| 590 | – | – | 53,9 | (1850) |
| 600 | – | – | 54,4 | (1870) |
| 610 | – | – | 55,0 | (1900) |
| 620 | – | – | 55,5 | (1930) |
| 630 | – | – | 56,0 | (1950) |
| 640 | – | – | 56,5 | (1980) |
| 650 | – | – | 57,0 | (2000) |
| 660 | – | – | 57,5 | (2030) |
| 670 | – | – | 58,0 | (2050) |
| 680 | – | – | 58,5 | (2080) |
| 690 | – | – | 59,0 | (2110) |
| 700 | – | – | 59,5 | (2130) |
| 720 | – | – | 60,4 | (2170) |
| 740 | – | – | 61,2 | (2220) |
| 760 | – | – | 62,0 | (2260) |
| 780 | – | – | 62,8 | (2300) |
| 800 | – | – | 63,6 | – |
| 820 | – | – | 64,3 | – |
| 840 | – | – | 65,0 | – |
| 860 | – | – | 65,7 | – |
| 880 | – | – | 66,3 | – |
| 900 | – | – | 66,9 | – |
| 920 | – | – | 67,5 | – |
| 940 | – | – | 68,0 | – |

# Guideline values for the coefficient of friction µ

| Screw thread / Nut thread | | | | Steel: blackened or Zinc-phosphate, pressed rolled | Steel: blackened or Zinc-phosphate, rolled cut | Steel: blackened or Zinc-phosphate, sharpened | Steel: cadmium-plated 6 µ | Steel: zinc-plated 6 µ |
|---|---|---|---|---|---|---|---|---|
| Steel | ground | | Slightly oiled | 0,14 | 0,10 | 0,16 | 0,10 | 0,10 |
| Steel | sharpened | | Slightly oiled | 0,16 | 0,10 | 0,16 | 0,10 | 0,10 |
| Steel | ground sharpened | Zinc-phosphate | Slightly oiled | 0,14 | | 0,10 | | |
| Steel | turned sharpened | Zinc-phosphate | Slightly oiled | 0,10 | | | | |
| Steel | turned sharpened | | Slightly oiled | 0,10 | | 0,10 | 0,10 | 0,10 |
| Steel | cadmium-plated | 6 µ | Slightly oiled | | | | 0,14 | |
| Steel | zinc-plated | 6 µ | Slightly oiled | | | | | 0,10 |
| Steel | cadmium-plated | 6 µ | Dry | 0,10 | | 0,10 | 0,14 | |
| Steel | zinc-plated | 6 µ | Dry | 0,10 | | 0,10 | | 0,14 |

## Choosing the right friction value

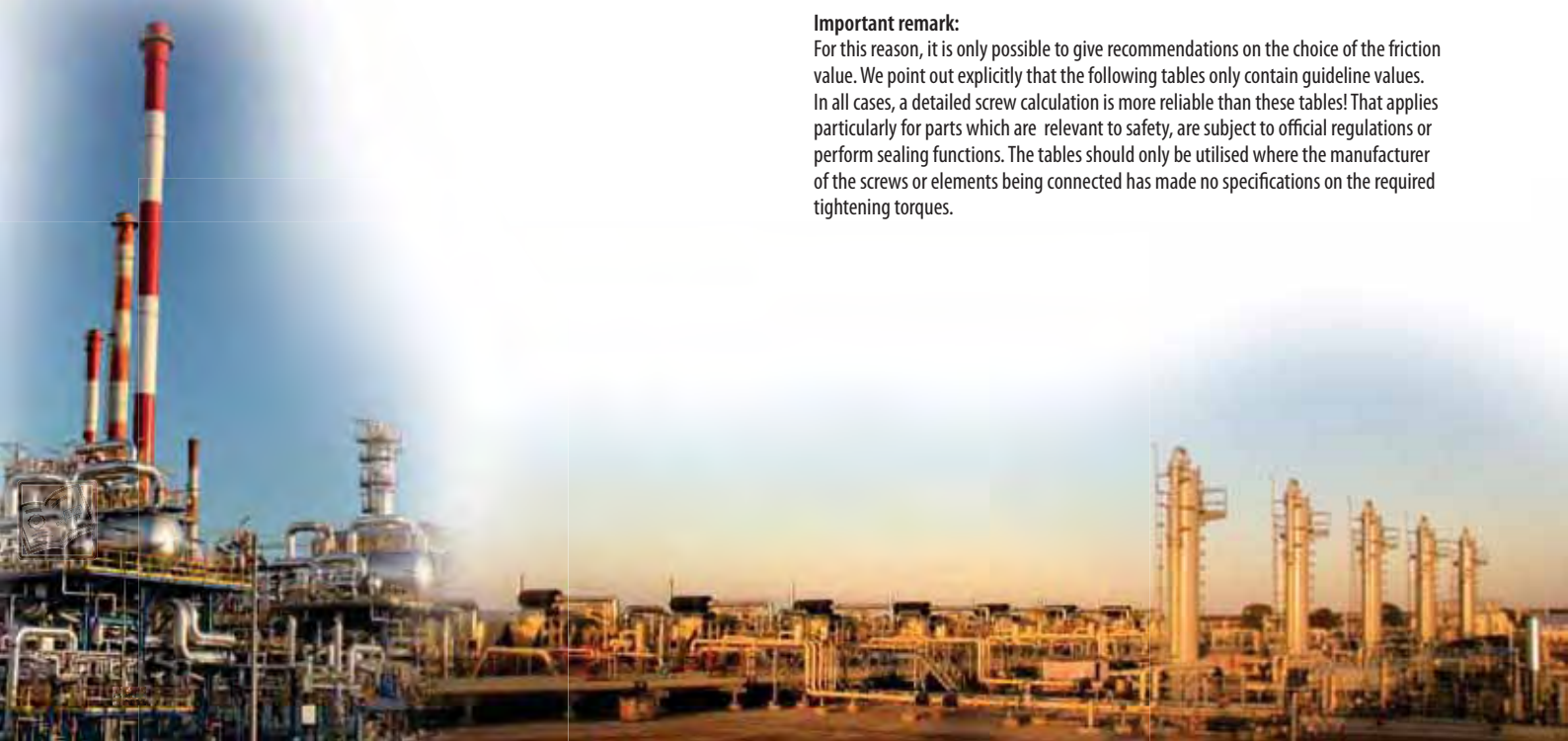
In order to exactly define the pre-tension force and the tightening torque, it is essential to know the coefficient friction.
However, it would seem almost impossible to specify definite values for the coefficients of friction for the large variety of possible surface and lubrication conditions and above all for their variance. Added to this are the variances of the various different tightening methods which also constitute a greater or lesser factor of uncertainty. For this reason, it is only possible to make recommendations on the choise of the coefficient of friction. 80 % of the tightening-torque values apply for countersunk head screws on account of the remaining base thickness.

## Guideline values for the coefficient of friction µ

In order o exactly define the pre-tension force and the tightening torque, it is essential to know the coefficient of friction. However, it would seem almost impossible to specify definite values for the coefficients of friction for the large variety of possible surface and lubrication conditions and above all for their variance.

**The following circumstances influence the friction value:**
The surfaces and the nature of the materials being screwed, the method of lubrication, the sliding path due to the flexibility and the tightening method, i.e. the number and the speed of the tightening cycles and finally the tightening path - the so-called hard or soft screw case. The sum total of these items represents a greater or lesser factor of uncertainty. Even DIN-equivalent screws con differ considerably in their friction value because of being delivered by different suppliers, depending on the screw lot and depending on their storage and, in particalar, on the oiling or greasing performed in the course of installation. Please note that around 80 to 90% of the tightening torque in most tightening procedures is required for overcoming the friction in the screw.

**Important remark:**
For this reason, it is only possible to give recommendations on the choice of the friction value. We point out explicitly that the following tables only contain guideline values. In all cases, a detailed screw calculation is more reliable than these tables! That applies particularly for parts which are relevant to safety, are subject to official regulations or perform sealing functions. The tables should only be utilised where the manufacturer of the screws or elements being connected has made no specifications on the required tightening torques.



# Friction value $\mu_{ges}$ 0,10 and 0,14

| Friction value $\mu_{ges}$ 0,10 | | Shank screws with metric ISO medium threads in accordance with DIN ISO 261 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 4.6 | | 5.6 | | 6.8 | | 8.8 | | 10.9 | | 12.9 | |
| $\mu_{ges}$ 0,10 | P mm | $F_{sp}$ N | $M_A$ N·m | $F_{sp}$ N | $M_A$ N·m | $F_{sp}$ N | $M_A$ N·m | $F_{sp}$ N | $M_A$ N·m | $F_{sp}$ N | $M_A$ N·m | $F_{sp}$ N | $M_A$ N·m |
| M 2 | 0,4 | 367 | 0,108 | 459 | 0,135 | 734 | 0,216 | 979 | 0,288 | 1.376 | 0,405 | 1.651 | 0,486 |
| M 2,5 | 0,45 | 610 | 0,221 | 763 | 0,276 | 1.221 | 0,441 | 1.628 | 0,588 | 2.289 | 0,827 | 2.747 | 0,993 |
| M 3 | 0,5 | 915 | 0,392 | 1.144 | 0,491 | 1.830 | 0,785 | 2.441 | 1,047 | 3.432 | 1,472 | 4.118 | 1,766 |
| M 3,5 | 0,6 | 1.228 | 0,617 | 1.535 | 0,771 | 2.456 | 1,234 | 3.274 | 1,645 | 4.605 | 2,313 | 5.526 | 2,776 |
| M 4 | 0,7 | 1.587 | 0,914 | 1.983 | 1,142 | 3.173 | 1,827 | 4.231 | 2,436 | 5.950 | 3,426 | 7.139 | 4,111 |
| M 4,5 | 0,75 | 2.059 | 1,325 | 2.574 | 1,656 | 4.118 | 2,649 | 5.491 | 3,532 | 7.722 | 4,967 | 9.266 | 5,961 |
| M 5 | 0,8 | 2.593 | 1,843 | 3.242 | 2,304 | 5.187 | 3,686 | 6.915 | 4,915 | 9.725 | 6,912 | 11.670 | 8,294 |
| M 6 | 1 | 3.661 | 3,140 | 4.576 | 3,925 | 7.322 | 6,280 | 9.762 | 8,373 | 13.728 | 11,775 | 16.473 | 14,130 |
| M 8 | 1,25 | 6.713 | 7,609 | 8.391 | 9,511 | 13.426 | 15,218 | 17.901 | 20,291 | 25.173 | 28,534 | 30.208 | 34,240 |
| M 10 | 1,5 | 10.683 | 15,06 | 13.354 | 18,82 | 21.366 | 30,11 | 28.488 | 40,15 | 40.061 | 56,46 | 48.073 | 67,75 |
| M 12 | 1,75 | 15.571 | 26,24 | 19.463 | 32,80 | 31.142 | 52,48 | 41.522 | 69,97 | 58.390 | 98,39 | 70.068 | 118,07 |
| M 14 | 2 | 21.377 | 41,92 | 26.721 | 52,40 | 42.753 | 83,83 | 57.004 | 111,78 | 80.162 | 157,19 | 96.195 | 188,62 |
| M 16 | 2 | 29.373 | 64,80 | 36.717 | 81,01 | 58.747 | 129,61 | 78.329 | 172,81 | 110.150 | 243,02 | 132.180 | 291,62 |
| M 18 | 2,5 | 35.742 | 89,80 | 44.678 | 112,25 | 71.484 | 179,60 | 95.312 | 239,46 | 134.033 | 336,75 | 160.840 | 404,09 |
| M 20 | 2,5 | 45.896 | 126,57 | 57.370 | 158,21 | 91.792 | 253,14 | 122.389 | 337,52 | 172.109 | 474,64 | 206.531 | 569,57 |
| M 22 | 2,5 | 57.312 | 172,1 | 71.640 | 215,1 | 114.623 | 344,2 | 152.831 | 459,0 | 214.919 | 645,4 | 257.902 | 774,5 |
| M 24 | 3 | 66.090 | 218,7 | 82.612 | 273,4 | 132.180 | 437,4 | 176.240 | 583,2 | 247.837 | 820,2 | 297.405 | 984,2 |
| M 27 | 3 | 86.922 | 319,7 | 108.653 | 399,6 | 173.845 | 639,3 | 231.793 | 852,4 | 325.959 | 1.198,7 | 391.150 | 1.438,4 |
| M 30 | 3,5 | 105.686 | 434,0 | 132.107 | 542,5 | 211.371 | 868,0 | 281.828 | 1.157,3 | 396.321 | 1.627,4 | 475.585 | 1.952,9 |
| M 33 | 3,5 | 131.646 | 589,0 | 164.557 | 736,3 | 263.292 | 1.178,1 | 351.056 | 1.570,8 | 493.672 | 2.208,9 | 592.407 | 2.650,7 |
| M 36 | 4 | 154.529 | 757,7 | 193.161 | 947,1 | 309.057 | 1.515,4 | 412.076 | 2.020,5 | 579.482 | 2.841,4 | 695.379 | 3.409,6 |
| M 39 | 4 | 185.617 | 978 | 232.021 | 1.223 | 371.233 | 1.957 | 494.978 | 2.609 | 696.062 | 3.669 | 835.275 | 4.403 |
| M 42 | 4,5 | 212.619 | 1.212 | 265.774 | 1.515 | 425.238 | 2.424 | 566.983 | 3.232 | 797.321 | 4.545 | 956.785 | 5.454 |
| M 45 | 4,5 | 248.834 | 1.510 | 311.043 | 1.888 | 497.669 | 3.020 | 663.559 | 4.027 | 933.129 | 5.663 | 1.119.755 | 6.795 |
| M 48 | 5 | 279.956 | 1.819 | 349.945 | 2.274 | 559.912 | 3.638 | 746.550 | 4.850 | 1.049.836 | 6.821 | 1.259.803 | 8.185 |
| M 52 | 5 | 335.711 | 2.346 | 419.639 | 2.932 | 671.422 | 4.692 | 895.229 | 6.256 | 1.258.916 | 8.797 | 1.510.700 | 10.557 |
| M 56 | 5,5 | 387.206 | 2.919 | 484.007 | 3.649 | 774.412 | 5.839 | 1.032.549 | 7.785 | 1.452.022 | 10.948 | 1.742.427 | 13.137 |
| M 60 | 5,5 | 452.319 | 3.632 | 565.399 | 4.540 | 904.639 | 7.265 | 1.206.185 | 9.686 | 1.696.198 | 13.621 | 2.035.438 | 16.345 |
| M 64 | 6 | 511.800 | 4.392 | 639.751 | 5.490 | 1.023.601 | 8.784 | 1.364.801 | 11.713 | 1.919.252 | 16.471 | 2.303.102 | 19.765 |
| M 68 | 6 | 586.272 | 5.319 | 732.840 | 6.649 | 1.172.545 | 10.638 | 1.563.393 | 14.184 | 2.198.521 | 19.947 | 2.638.225 | 23.936 |
| | | Shank screws with metric ISO fine-pitch thread in accordance with DIN ISO 261 | | | | | | | | | | | |
| M 8 | 1 | 7.343 | 8,10 | 9.179 | 10,13 | 14.687 | 16,20 | 19.582 | 21,60 | 27.537 | 30,38 | 33.045 | 36,45 |
| M 10 | 1 | 12.288 | 16,57 | 15.360 | 20,71 | 24.576 | 33,14 | 32.768 | 44,19 | 46.080 | 62,14 | 55.297 | 74,57 |
| M 12 | 1,5 | 16.522 | 27,34 | 20.653 | 34,17 | 33.045 | 54,68 | 44.060 | 72,91 | 61.959 | 102,52 | 74.351 | 123,03 |
| M 14 | 1,5 | 23.624 | 44,89 | 29.530 | 56,11 | 47.249 | 89,78 | 62.998 | 119,70 | 88.591 | 168,33 | 106.309 | 202,00 |
| M 16 | 1,5 | 31.988 | 68,63 | 39.984 | 85,79 | 63.975 | 137,26 | 85.300 | 183,01 | 119.953 | 257,36 | 143.944 | 308,83 |
| M 18 | 1,5 | 41.612 | 99,49 | 52.015 | 124,36 | 83.223 | 198,98 | 110.965 | 265,30 | 156.044 | 373,08 | 187.253 | 447,70 |
| M 20 | 1,5 | 52.497 | 138,4 | 65.621 | 173,0 | 104.993 | 276,8 | 139.991 | 369,1 | 196.862 | 519,0 | 236.235 | 622,8 |
| M 22 | 1,5 | 64.642 | 186,3 | 80.803 | 232,8 | 129.284 | 372,6 | 172.379 | 496,7 | 242.408 | 698,5 | 290.890 | 838,3 |
| M 24 | 1,5 | 78.048 | 244,1 | 97.560 | 305,1 | 156.096 | 488,1 | 208.129 | 650,8 | 292.681 | 915,2 | 351.217 | 1.098,3 |

| Friction value $\mu_{ges}$ 0,14 | | Shank screws with metric ISO medium threads in accordance with DIN ISO 261 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 4.6 | | 5.6 | | 6.8 | | 8.8 | | 10.9 | | 12.9 | |
| $\mu_{ges}$ 0,14 | P mm | $F_{sp}$ N | $M_A$ N·m | $F_{sp}$ N | $M_A$ N·m | $F_{sp}$ N | $M_A$ N·m | $F_{sp}$ N | $M_A$ N·m | $F_{sp}$ N | $M_A$ N·m | $F_{sp}$ N | $M_A$ N·m |
| M 2 | 0,4 | 338 | 0,130 | 422 | 0,163 | 675 | 0,261 | 901 | 0,348 | 1.267 | 0,489 | 1.520 | 0,587 |
| M 2,5 | 0,45 | 563 | 0,269 | 703 | 0,336 | 1.125 | 0,537 | 1.500 | 0,716 | 2.110 | 1,007 | 2.532 | 1,209 |
| M 3 | 0,5 | 845 | 0,480 | 1.056 | 0,600 | 1.689 | 0,961 | 2.253 | 1,281 | 3.168 | 1,801 | 3.801 | 2,161 |
| M 3,5 | 0,6 | 1.133 | 0,754 | 1.416 | 0,942 | 2.266 | 1,507 | 3.021 | 2,009 | 4.248 | 2,826 | 5.098 | 3,391 |
| M 4 | 0,7 | 1.463 | 1,115 | 1.829 | 1,393 | 2.927 | 2,229 | 3.902 | 2,972 | 5.487 | 4,180 | 6.585 | 5,016 |
| M 4,5 | 0,75 | 1.901 | 1,621 | 2.376 | 2,026 | 3.801 | 3,242 | 5.068 | 4,323 | 7.127 | 6,079 | 8.553 | 7,295 |
| M 5 | 0,8 | 2.395 | 2,261 | 2.994 | 2,827 | 4.790 | 4,523 | 6.387 | 6,030 | 8.982 | 8,480 | 10.778 | 10,176 |
| M 6 | 1 | 3.379 | 3,843 | 4.224 | 4,803 | 6.758 | 7,685 | 9.011 | 10,247 | 12.671 | 14,410 | 15.205 | 17,292 |
| M 8 | 1,25 | 6.202 | 9,349 | 7.753 | 11,686 | 12.404 | 18,698 | 16.539 | 24,931 | 23.258 | 35,059 | 27.909 | 42,070 |
| M 10 | 1,5 | 9.876 | 18,54 | 12.345 | 23,18 | 19.752 | 37,09 | 26.336 | 49,45 | 37.034 | 69,54 | 44.441 | 83,44 |
| M 12 | 1,75 | 14.400 | 32,37 | 18.000 | 40,46 | 28.801 | 64,74 | 38.401 | 86,32 | 54.001 | 121,38 | 64.801 | 145,66 |
| M 14 | 2 | 19.775 | 51,77 | 24.719 | 64,71 | 39.551 | 103,54 | 52.734 | 138,06 | 74.158 | 194,14 | 88.989 | 232,97 |
| M 16 | 2 | 27.221 | 80,62 | 34.027 | 100,77 | 54.443 | 161,24 | 72.591 | 214,98 | 102.080 | 302,32 | 122.497 | 362,78 |
| M 18 | 2,5 | 33.078 | 111,09 | 41.347 | 138,86 | 66.155 | 222,17 | 88.207 | 296,23 | 124.041 | 416,58 | 148.850 | 499,89 |
| M 20 | 2,5 | 42.534 | 157,46 | 53.167 | 196,82 | 85.067 | 314,91 | 113.423 | 419,88 | 159.501 | 590,46 | 191.401 | 708,55 |
| M 22 | 2,5 | 53.175 | 215,1 | 66.469 | 268,9 | 106.350 | 430,2 | 141.800 | 573,7 | 199.406 | 806,7 | 239.288 | 968,0 |
| M 24 | 3 | 61.248 | 272,1 | 76.560 | 340,1 | 122.497 | 544,2 | 163.329 | 725,6 | 229.681 | 1.020,3 | 275.617 | 1.224,4 |
| M 27 | 3 | 80.670 | 399,9 | 100.837 | 499,9 | 161.339 | 799,9 | 215.119 | 1.066,5 | 302.512 | 1.499,7 | 363.014 | 1.799,7 |
| M 30 | 3,5 | 98.027 | 541,7 | 122.533 | 677,2 | 196.054 | 1.083,4 | 261.405 | 1.444,6 | 367.600 | 2.031,5 | 441.120 | 2.437,7 |
| M 33 | 3,5 | 122.241 | 738,5 | 152.801 | 923,2 | 244.482 | 1.477,1 | 325.976 | 1.969,4 | 458.404 | 2.769,5 | 550.084 | 3.323,4 |
| M 36 | 4 | 143.413 | 948,0 | 179.266 | 1.185,0 | 286.826 | 1.896,0 | 382.434 | 2.528,0 | 537.798 | 3.555,0 | 645.358 | 4.265,9 |
| M 39 | 4 | 172.420 | 1.229 | 215.525 | 1.536 | 344.839 | 2.457 | 459.786 | 3.276 | 646.574 | 4.607 | 775.888 | 5.529 |
| M 42 | 4,5 | 197.407 | 1.519 | 246.758 | 1.899 | 394.813 | 3.038 | 526.417 | 4.050 | 740.275 | 5.696 | 888.329 | 6.835 |
| M 45 | 4,5 | 231.206 | 1.898 | 289.007 | 2.373 | 462.412 | 3.796 | 616.549 | 5.062 | 867.022 | 7.118 | 1.040.426 | 8.541 |
| M 48 | 5 | 260.008 | 2.282 | 325.010 | 2.853 | 520.015 | 4.565 | 693.354 | 6.086 | 975.029 | 8.559 | 1.170.035 | 10.211 |
| M 52 | 5 | 312.056 | 2.954 | 390.070 | 3.692 | 624.112 | 5.907 | 832.149 | 7.876 | 1.170.209 | 11.076 | 1.404.251 | 13.292 |
| M 56 | 5,5 | 359.843 | 3.672 | 449.804 | 4.591 | 719.686 | 7.345 | 959.581 | 9.793 | 1.349.411 | 13.772 | 1.619.293 | 16.526 |
| M 60 | 5,5 | 420.651 | 4.582 | 525.813 | 5.728 | 841.301 | 9.164 | 1.121.735 | 12.219 | 1.577.440 | 17.183 | 1.892.928 | 20.619 |
| M 64 | 6 | 475.860 | 5.536 | 594.825 | 6.920 | 951.720 | 11.071 | 1.268.960 | 14.762 | 1.784.476 | 20.759 | 2.141.371 | 24.911 |
| M 68 | 6 | 545.427 | 6.720 | 681.784 | 8.400 | 1.090.855 | 13.440 | 1.454.473 | 17.919 | 2.045.353 | 25.199 | 2.454.423 | 30.239 |
| | | Shank screws with metric ISO fine-pitch thread in accordance with DIN ISO 261 | | | | | | | | | | | |
| M 8 | 1 | 6.805 | 10,08 | 8.507 | 12,60 | 13.611 | 20,15 | 18.148 | 26,87 | 25.520 | 37,79 | 30.624 | 45,35 |
| M 10 | 1 | 11.418 | 20,83 | 14.272 | 26,04 | 22.835 | 41,66 | 30.447 | 55,55 | 42.816 | 78,11 | 51.379 | 93,73 |
| M 12 | 1,5 | 15.312 | 34,01 | 19.140 | 42,51 | 30.624 | 68,02 | 40.832 | 90,69 | 57.420 | 127,54 | 68.904 | 153,05 |
| M 14 | 1,5 | 21.934 | 56,25 | 27.418 | 70,32 | 43.868 | 112,51 | 58.491 | 150,01 | 82.253 | 210,96 | 98.703 | 253,15 |
| M 16 | 1,5 | 29.741 | 86,50 | 37.177 | 108,12 | 59.483 | 172,99 | 79.310 | 230,66 | 111.530 | 324,36 | 133.836 | 389,23 |
| M 18 | 1,5 | 38.733 | 125,95 | 48.417 | 157,44 | 77.467 | 251,91 | 103.289 | 335,88 | 145.250 | 472,33 | 174.300 | 566,80 |
| M 20 | 1,5 | 48.910 | 175,9 | 61.138 | 219,8 | 97.820 | 351,7 | 130.427 | 468,9 | 183.413 | 659,4 | 220.096 | 791,3 |
| M 22 | 1,5 | 60.272 | 237,4 | 75.340 | 296,8 | 120.543 | 474,8 | 160.724 | 633,1 | 226.019 | 890,3 | 271.223 | 1.068,3 |
| M 24 | 1,5 | 72.818 | 311,8 | 91.022 | 389,8 | 145.635 | 623,7 | 194.180 | 831,6 | 273.066 | 1.169,4 | 327.680 | 1.403,3 |

# Friction value $\mu_{ges}$ 0,16

| Friction value $\mu_{ges}$ 0,16 | | Shank screws with metric ISO medium threads in accordance with DIN ISO 261 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 4.6 | | 5.6 | | 6.8 | | 8.8 | | 10.9 | | 12.9 | |
| $\mu_{ges}$ 0,16 | P mm | $F_{sp}$ N | $M_A$ N·m | $F_{sp}$ N | $M_A$ N·m | $F_{sp}$ N | $M_A$ N·m | $F_{sp}$ N | $M_A$ N·m | $F_{sp}$ N | $M_A$ N·m | $F_{sp}$ N | $M_A$ N·m |
| M 2 | 0,4 | 324 | 0,140 | 405 | 0,175 | 647 | 0,280 | 863 | 0,373 | 1.214 | 0,525 | 1.456 | 0,630 |
| M 2,5 | 0,45 | 539 | 0,289 | 674 | 0,361 | 1.079 | 0,578 | 1.439 | 0,770 | 2.023 | 1,083 | 2.428 | 1,300 |
| M 3 | 0,5 | 810 | 0,517 | 1.013 | 0,647 | 1.620 | 1,035 | 2.161 | 1,380 | 3.038 | 1,940 | 3.646 | 2,328 |
| M 3,5 | 0,6 | 1.086 | 0,811 | 1.358 | 1,014 | 2.173 | 1,622 | 2.897 | 2,163 | 4.074 | 3,042 | 4.889 | 3,650 |
| M 4 | 0,7 | 1.403 | 1,199 | 1.754 | 1,499 | 2.806 | 2,398 | 3.742 | 3,198 | 5.262 | 4,497 | 6.314 | 5,396 |
| M 4,5 | 0,75 | 1.823 | 1,746 | 2.279 | 2,182 | 3.646 | 3,492 | 4.861 | 4,656 | 6.836 | 6,547 | 8.204 | 7,857 |
| M 5 | 0,8 | 2.298 | 2,438 | 2.872 | 3,047 | 4.596 | 4,875 | 6.127 | 6,500 | 8.617 | 9,141 | 10.340 | 10,969 |
| M 6 | 1 | 3.241 | 4,139 | 4.051 | 5,173 | 6.482 | 8,277 | 8.643 | 11,036 | 12.154 | 15,520 | 14.584 | 18,623 |
| M 8 | 1,25 | 5.951 | 10,083 | 7.438 | 12,603 | 11.901 | 20,165 | 15.868 | 26,887 | 22.315 | 37,809 | 26.778 | 45,371 |
| M 10 | 1,5 | 9.477 | 20,01 | 11.847 | 25,02 | 18.955 | 40,03 | 25.273 | 53,37 | 35.540 | 75,05 | 42.648 | 90,06 |
| M 12 | 1,75 | 13.821 | 34,96 | 17.277 | 43,69 | 27.642 | 69,91 | 36.857 | 93,22 | 51.830 | 131,08 | 62.195 | 157,30 |
| M 14 | 2 | 18.982 | 55,93 | 23.728 | 69,91 | 37.964 | 111,86 | 50.619 | 149,15 | 71.183 | 209,74 | 85.419 | 251,69 |
| M 16 | 2 | 26.145 | 87,30 | 32.682 | 109,13 | 52.291 | 174,61 | 69.721 | 232,81 | 98.045 | 327,39 | 117.654 | 392,87 |
| M 18 | 2,5 | 31.755 | 120,08 | 39.694 | 150,10 | 63.510 | 240,15 | 84.680 | 320,20 | 119.081 | 450,29 | 142.897 | 540,34 |
| M 20 | 2,5 | 40.852 | 170,52 | 51.065 | 213,14 | 81.704 | 341,03 | 108.939 | 454,71 | 153.195 | 639,43 | 183.834 | 767,32 |
| M 22 | 2,5 | 51.093 | 233,3 | 63.867 | 291,7 | 102.187 | 466,6 | 136.249 | 622,2 | 191.600 | 875,0 | 229.921 | 1.050,0 |
| M 24 | 3 | 58.827 | 294,7 | 73.534 | 368,3 | 117.654 | 589,3 | 156.872 | 785,7 | 220.601 | 1.104,9 | 264.721 | 1.325,9 |
| M 27 | 3 | 77.519 | 433,9 | 96.899 | 542,4 | 155.038 | 867,9 | 206.717 | 1.157,2 | 290.696 | 1.627,2 | 348.835 | 1.952,7 |
| M 30 | 3,5 | 94.179 | 587,3 | 117.724 | 734,2 | 188.358 | 1.174,6 | 251.144 | 1.566,2 | 353.172 | 2.202,5 | 423.806 | 2.642,9 |
| M 33 | 3,5 | 117.488 | 801,9 | 146.860 | 1.002,3 | 234.977 | 1.603,8 | 313.302 | 2.138,3 | 440.581 | 3.007,0 | 528.697 | 3.608,5 |
| M 36 | 4 | 137.811 | 1.028,6 | 172.264 | 1.285,7 | 275.623 | 2.057,2 | 367.497 | 2.742,9 | 516.793 | 3.857,2 | 620.152 | 4.628,6 |
| M 39 | 4 | 165.738 | 1.335 | 207.172 | 1.668 | 331.475 | 2.669 | 441.967 | 3.559 | 621.516 | 5.005 | 745.819 | 6.006 |
| M 42 | 4,5 | 189.724 | 1.649 | 237.155 | 2.061 | 379.448 | 3.298 | 505.930 | 4.397 | 711.465 | 6.183 | 853.758 | 7.420 |
| M 45 | 4,5 | 222.267 | 2.063 | 277.834 | 2.578 | 444.534 | 4.125 | 592.712 | 5.500 | 833.501 | 7.735 | 1.000.201 | 9.282 |
| M 48 | 5 | 249.916 | 2.479 | 312.395 | 3.099 | 499.833 | 4.958 | 666.444 | 6.610 | 937.186 | 9.296 | 1.124.624 | 11.155 |
| M 52 | 5 | 300.035 | 3.212 | 375.043 | 4.014 | 600.069 | 6.423 | 800.093 | 8.564 | 1.125.130 | 12.043 | 1.350.156 | 14.452 |
| M 56 | 5,5 | 345.954 | 3.992 | 432.442 | 4.990 | 691.908 | 7.984 | 922.544 | 10.645 | 1.297.327 | 14.969 | 1.556.793 | 17.963 |
| M 60 | 5,5 | 404.516 | 4.985 | 505.645 | 6.232 | 809.031 | 9.970 | 1.078.709 | 13.294 | 1.516.934 | 18.695 | 1.820.321 | 22.433 |
| M 64 | 6 | 457.571 | 6.021 | 571.964 | 7.526 | 915.142 | 12.042 | 1.220.189 | 16.056 | 1.715.891 | 22.579 | 2.059.069 | 27.095 |
| M 68 | 6 | 524.576 | 7.315 | 655.720 | 9.143 | 1.049.152 | 14.629 | 1.398.869 | 19.506 | 1.967.160 | 27.430 | 2.360.592 | 32.916 |
| | | Shank screws with metric ISO fine-pitch thread in accordance with DIN ISO 261 | | | | | | | | | | | |
| M 8 | 1 | 6.536 | 10,91 | 8.170 | 13,64 | 13.073 | 21,83 | 17.430 | 29,10 | 24.511 | 40,92 | 29.413 | 49,11 |
| M 10 | 1 | 10.976 | 22,64 | 13.720 | 28,29 | 21.952 | 45,27 | 29.270 | 60,36 | 41.161 | 84,88 | 49.393 | 101,86 |
| M 12 | 1,5 | 14.707 | 36,83 | 18.383 | 46,04 | 29.413 | 73,66 | 39.218 | 98,22 | 55.150 | 138,12 | 66.180 | 165,74 |
| M 14 | 1,5 | 21.080 | 61,07 | 26.351 | 76,34 | 42.161 | 122,14 | 56.214 | 162,86 | 79.052 | 229,02 | 94.862 | 274,82 |
| M 16 | 1,5 | 28.598 | 94,08 | 35.748 | 117,60 | 57.196 | 188,16 | 76.262 | 250,88 | 107.243 | 352,80 | 128.692 | 423,35 |
| M 18 | 1,5 | 37.260 | 137,20 | 46.575 | 171,50 | 74.519 | 274,40 | 99.359 | 365,87 | 139.724 | 514,51 | 167.669 | 617,41 |
| M 20 | 1,5 | 47.065 | 191,8 | 58.831 | 239,7 | 94.130 | 383,6 | 125.506 | 511,4 | 176.494 | 719,2 | 211.792 | 863,0 |
| M 22 | 1,5 | 58.014 | 259,2 | 72.517 | 324,0 | 116.027 | 518,4 | 154.703 | 691,2 | 217.551 | 971,9 | 261.062 | 1.166,3 |
| M 24 | 1,5 | 70.106 | 340,7 | 87.632 | 425,9 | 140.212 | 681,5 | 186.949 | 908,6 | 262.897 | 1.277,7 | 315.477 | 1.533,3 |

Specifications given without warranty.

## Legend

$\mu_{ges}$ = Average friction value for thread and underhead seat

P = Pitch of the thread

$F_{sp}$ = Axial pre-tension force in the screw for 90% utilisalion of the screw yield point (determined in accordance with the shape-changing-energy hypothesis)

$M_A$ = Tightening torque during installation

## Important remarks:

Please make sure to read our information relating to the guideline values of the thread friction values on page 660. Taking into consideration the friction values, the above-specified table values only apply for headless screws (expanding screws generally require lower tightening values). The effective friction diameter in the screw underhead seat was defined as 1.3 x ecternal thread diameter.
For this reason, it is only possible to use them in the case of normal shank screws, generally hexagon-headed and cylindrical-head screws (e.g. DIN EN ISO 4014, 4017, 4764, DIN 7984). When screws of high strengths (8.8 to 12.9) and tensed parts made of "soft" construction materials are used, a verification of the interfacial pressure under the screw head is strongly recommended.

# The properties of screws and nuts are described with the aid of strength classes.

This is shown in the table below on the basis of 10 strength classes for which the properties such as tensile strength, hardness, yield point, elongation after fracture, etc. are shown.

| Section ISO 898-1 | Mechanical and physical properties | | | Strength class 3.6 | 4.6 | 4.8 | 5.6 | 5.8 | 6.8 | 8.8 d ≤16 mm | 8.8 ❶❸ d>16 mm ❸ | 9.8 ❷ | 10.9 | 12.9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5.1 | Norm, tensile strength Rm, nominal | | $N/mm^2$ | 300 | 400 | 400 | 500 | 500 | 600 | 800 | 800 | 900 | 1000 | 1200 |
| 5.2 | Norm, tensile strength Rm, min. | | $N/mm^2$ | 330 | 400 | 420 | 500 | 520 | 600 | 800 | 830 | 900 | 1040 | 1220 |
| 5.3 | Vickers hardness HV F≥ 98 N | min. | | 95 | 120 | 130 | 155 | 160 | 190 | 250 | 255 | 290 | 320 | 385 |
| | | max. | | 220 ❻ | 220 ❻ | 220 ❻ | 220 ❻ | 220 ❻ | 250 | 320 | 335 | 360 | 380 | 435 |
| 5.4 | Brinell hardness HB $F = 30 D^2$ | min. | | 90 | 114 | 124 | 147 | 152 | 181 | 238 | 242 | 276 | 304 | 366 |
| | | max. | | | | 209 ❻ | | | 238 | 304 | 318 | 342 | 361 | 414 |
| 5.5 | Rockwell hardness HR | min. | HRB | 52 | 67 | 71 | 79 | 82 | 89 | – | – | – | – | – |
| | | min. | HRC | – | – | – | – | – | – | 22 | 23 | 28 | 32 | 39 |
| | | max. | HRB | 95,0 ❻ | 95,0 ❻ | 95,0 ❻ | 95,0 ❻ | 95,0 ❻ | 99,5 | – | – | – | – | – |
| | | max. | **HRC** | – | – | – | – | – | – | 32 | 34 | 37 | 39 | 44 |
| 5.6 | Surface hardness HV 0,3 | max. | | – | – | – | – | – | – | | | | ❼ | |
| 5.7 | Lower yield point Rel 8 in N/mm | Nominal value | | 180 | 240 | 320 | 300 | 400 | 480 | – | – | – | – | – |
| | | min. | | 190 | 240 | 340 | 300 | 420 | 480 | – | – | – | – | – |
| 5.8 | 0.2%-yield strength $R_{p0.2}$ 9 in $N/mm^2$ raised | Nominal value | | – | – | – | – | – | – | 640 | 640 | 720 | 900 | 1080 |
| | | min. | | – | – | – | – | – | – | 640 | 660 | 720 | 940 | 1100 |
| 5.9 | Wind-up force under test force | Sp/ReL | | 0,94 | 0,94 | 0,91 | 0,93 | 0,90 | 0,92 | 0,91 | 0,91 | 0,90 | 0,88 | 0,88 |
| | | Sp/Rp0,2 | | | | | | | | | | | | |
| | | SP | | 180 | 225 | 310 | 280 | 380 | 440 | 580 | 600 | 650 | 830 | 970 |
| 5.10 | Fracture torque $M_B$ | N·m min. | | – | – | – | – | – | – | | | **see ISO 898-7** | | |
| 5.11 | Elongation after fracture A in % | min. | | 25 | 22 | – | 20 | – | – | 12 | 12 | 10 | 9 | 8 |
| 5.12 | Fracture construction Z | % min. | | – | – | – | – | – | – | 52 | 52 | 48 | 48 | 44 |
| 5.13 | Strength under diagonal pull strain | | | **The values under diagonal pull strain for whole screws (not pin screws) must not fall below the minimum tensile strengths stated in Section 5.2** | | | | | | | | | | |
| 5.14 | Notched bar impact KU | J min. | | – | – | – | 25 | – | – | 30 | 30 | 25 | 20 | 15 |
| 5.15 | Notched impact strength | | | **no fracture** | | | | | | | | | | |
| 5.16 | Minimum height of the non-decarbonised thread zone E | | | – | – | – | – | – | – | $1/2\ H_1$ | $1/2\ H_1$ | $1/2\ H_1$ | $2/3\ H_1$ | $3/4\ H_1$ |
| | Maximum depth of decarburisation G | mm | | – | – | – | – | – | – | 0,015 | 0,015 | 0,015 | 0,015 | 0,015 |
| 5.17 | Hardness after tempering | | | – | – | – | – | – | – | **Hardness drop max. 20 HV** | | | | |
| 5.18 | Surface condition | | | **in accordance with ISO 6157-7 or ISO 6157-3, where applicable** | | | | | | | | | | |

❶ In the case of screws of the strength class 8.8 having a thread diameter d ≤ 16 mm, an increased danger of scraping exists for nuts if the screw connection is tightened with a force exceeding the test force of the screw. It is recommended to comply with the standard ISO 898-2.

❷ The strength class 9.8 only applies for nominal thread diameters ≤ 16 mm.

❸ For steel screws, the limit is 12 mm.

❹ The minimum tensile strengths apply for screws with nominal lengths l ≥2.5 d. The minimum hardness values apply for screws with nominal length l < 2.5 d and for those products which cannot be tested in a tensile test (e.g. on account of their head shape).

❺ For tests on full screws, the fracture forces used to calculate Rm must concur with the properties of the screws at higher temperature.

❻ A hardness value at the end of the screw is permitted to be 250 HV, 238 HB or 99.5 HRB at most.

❼ The surface hardness on the relevant product must not exceed 30 Vickers points of the measured core hardness if both the surface hardness and the core hardness are determined with HV 0.3. For the strength class 10.9, a surface hardness of 390 HV must not be exceeded.

❽ If the lower yield point $R_{eL}$ cannot be determined, the 0.2% yield strength $R_{p0.2}$, lowered, applies. For the strength classes 4.8, 5.8 and 6.8, the values for $R_{eL}$ are only specified on a calculation basis - they are not tested.

❾ The yield point ratio corresponding to the description of the strength class and the minimum wind-up force on the 0.2% yield strength $R_{p0,2}$, both apply for machine-processed test pieces. When full screws are tested, these values vary on account of the effects of the manufacturing process and the size factors.

Excerpt from EN ISO 898-1

# Tightening torques for wheel nuts and wheel screws of industrial vehicles, serial wheel rims

**(in the case of aluminium wheel rims, comply with the manufacturer's specifications!)**

| Vehicle manufacturer | Thread | Pin centring | Middle centring | Trilex |
|---|---|---|---|---|
| **Bergische Achsen BPW** | | | | |
| all | M18x1,5 | 270 | 320 | |
| | M18x2 | | | 270-300 |
| | M20x1,5 | 350 | 450 | |
| | | | | 320-350 |
| | M22x1,5 | 450-500 | 600-650 | |
| | M20x2 | 430 | | |
| | 7/8"-BSF | 450 | | |
| **DAF** | | | | |
| all | M18x1,5 | | 340-400 | |
| | M20x1,5 | | 450-520 | |
| | M22x1,5 | | 700 | |
| **Evobus** | | | | |
| all | M18x1,5 | 300 | | |
| | M18x2 | | | 300 |
| | M20x1,5 | 400 | | |
| | M20x2 | | | 350 |
| | M22x1,5 | 450 | 600 | |
| **Iveco** | | | | |
| all | M18x1,5 | | 335-410 | |
| | M20x1,5 | | 440-540 | |
| | M22x1,5 | 380-450 | 580-650* / 599-732** | 370-400 |
| **Kässbohrer Achsen** | M18x1,5 | 270 | 320 | |
| all | M18x2 | | | 270-300 |
| | M20x1,5 | 350 | 450 | |
| | M20x2 | | | 320-350 |
| | M22x1,5 | 450-500 | 600-650 | |
| | M20x2 | 430 | | |
| | 7/8"-BSF | 450 | | |
| **MAN** | | | | |
| all | M18x1,5 | 285 | 390 | |
| | M18x2 | | | 285 |
| | M20x1,5 | 390 | 475 | |
| | M20x2 | | | 335 |
| | M22x1,5 | 475 | 575 | 575 |
| **Mercedes Benz** | | | | |
| all | M16x1,5 | | | 200 |
| | M18x1,5 | 250 | 400 | 300 |
| | M20x1,5 | 300 | 500 | 350 |
| | M22x1,5 | 450 | 600 | |
| **Unimog** | M18x1,5 | | 450 | |
| | M20x1,5 | 400 | 600 | |
| **Reanault Trucks** | | | | |
| all | M22x1,5 | | 450-550 | 315-385 |
| **Sauer Achsen SAF** | | | | |
| all | M18x2 | | | 270-300 |
| | M20x2 | | | 320-350 |
| | M22x1,5 | 430 | 600 | |
| | M22x2 | 430 | 600 | |
| **Scania** | | | | |
| all | 7/8"-11 BSF | | 600 | 350 |
| **Volvo** | | | | |
| **FL, FLC** | M18x1,5 | | 375±65 | |
| | M20x1,5 | | 450±45 | |
| | M22x1,5 | | 600±50 | |
| **FS7, FL6, FL7,** | | | | |
| **FL10, FL12, F,** | M20x1,5 | | 525±75*** / 450±50**** | |
| **N, FH, NL, FM, FE** | M22x1,5 | | 200±8Nm + 90±10° ***** | 360±40 |
| | 7/8"-14 UNF | | 200±8Nm + 90±10° ***** | |

*= drum brake
**= disc brake
***= black surface (phosphated)
****= grey surface (Dacromet)
*****= when checking min. 670 N·m

Specifications given without warranty.

8561-8563 264

DMK - DMUK 276

# Tightening torques for wheel nuts and wheel screws of cars and estate cars

## Cars (in the case of aluminium wheel rims, comply with the manufacturer's specifications!)

| Vehicle manufacturer | Vehicle type | Tightening torque N·m |
|---|---|---|
| ALFA ROMEO | Alfa 145/146/147/Spider/GTV | 93 +/- 10 |
| | Alfa 156 | 98 |
| | Alfa 159 | 120 +/- 12 |
| | Alfa 166 | 86 +/- 8 |
| | Brera/Spider | 120 +/- 12 |
| AUDI | A1/A2/A3/A4/A5/A6/A7/A8/S8/TT | 120 |
| | Q5 | 140 |
| | Q7 | 160 |
| BMW | 1 Serie/ 3 Serie/ 5 Series | 120 |
| | M5 | 100 |
| | Z3 | 100-110 |
| | X3, X5, X6 | 140 |
| CITROEN | AX10/AX11/AX14/AX GT/AX GTI/AX Sport/ZK | 90 |
| | Saxo/Xsara | 85 |
| | Xantia/XM | 90 |
| | C5 | 80-100 |
| | C15E | 70 |
| | Berlingo | 85 |
| | Dispatch | 100 |
| | C25 | 180 |
| CHEVROLET (Daewoo) | Matiz | 90-110 |
| | Aveo | 120 |
| | Captiva | 125 |
| | Cruze | 140 |
| | Nexia/Lanos/Espero/Nubira | 80 |
| | Leganza | 100 |
| | Tacuma | 108 |
| | Musso/Korado | 80-120 |
| | Cuore/Applause/YRV/Move/Grand Move/Terios | 88-118 |
| | Spark | 120 |
| | Charade/Sirion/Hi-Jet | 89-118 |
| | Sportrak | 90-120 |
| DACIA | Duster, Logon | 105 |
| FIAT | 500 and other models | 86 |
| | Grande Punto / Punto Evo | 120 |
| | Stilo/Croma/Coupé | 98 |
| | Ulysee/Scudo | 100 |
| | Ducato/Talento | 160 |
| | Ducato Maxi | 180 |
| FORD | KA/Mondeo (1996-00)/Scorpio/Puma | 85 |
| | Cougar | 128 |
| | Fiesta (02 - 08) | 90 |
| | Fiesta (08 - 11) | 110 |
| | Fusion | 110 |
| | Probe | 88-117 |
| | Galaxy (01-06) | 170 |
| | Transit Connect | 90 |
| HONDA | all models | 108-110 |
| HYUNDAI | all models | 100 |
| | Starex | 130 |
| JAGUAR | XKR | 125 |
| | S -Type | 128 |
| | XJ6 | 65-85 |
| | XJR/XJ12 | 88-102 |
| | XJ8/XJ-S | 66-82 |
| JEEP | Cherokee (08-11) | 136 |
| | Compass | 135 |
| | Patriot / Wrangler | 135 |
| KIA | Sorento (10-11), Picanto; Carato | 100 |
| | Rio, Mentori, Shuma, Carens | 103 |
| | Carnival / Sedona (06-11) | 100 |
| | Margentis | 98 |

| Vehicle manufacturer | Vehicle type | Tightening torque N·m |
|---|---|---|
| LADA | Samara/Riva | 70-78 |
| | Niva | 88-91 |
| CHRYSLER | PT-Cruiser (01-09) / Grand Voyager | 135 |
| | 300C | 150 |
| LAND ROVER | Freelander 2 | 133 |
| | Defender | 108 |
| | Discovery / Range Rover (02-11) | 140 |
| LEXUS | all models | 103 |
| LOTUS | Elise (ligthweight metal wheel rims) | 90 |
| | Elan (ligthweight metal wheel rims) | 80-88 |
| | Excel (ligthweight metal wheel rims) | 88 |
| | Esprit(ligthweight metal wheel rims) | 100 |
| MAZDA | all models | 103 |
| | Estate | 98 |
| MERCEDES-BENZ | A-Klasse; C/CLC-Klasse, SLK, CLK | 110 |
| | B-Klasse, C-Klasse (07-11), E-Klasse (02-11) | 130 |
| | S-Klasse, M-Klasse | 150 |
| MINI | Mini / Mini Clubman | 140 |
| MITSUBISHI | Colt / Almara / Cube / Serena | 108 |
| | Lancer / Grandis / Outlander | 98 |
| NISSAN | Micra (03-10), Note | 105 |
| | Patrol, Terrano, Qashqai | 133 |
| OPEL (Vauxhall) | Agila-B | 85 |
| | Frontera-B (1999-02) | 118 |
| | Astra-J (09-11) | 140 |
| | Insignia | 150 |
| | other models | 110 |
| PEUGEOT | 106 | 85 |
| | 107/ 308/ 3008/ 207/ 407/ 807 | 100 |
| | 307/ 607 | 90 |
| PORSCHE | all models | 130 |
| RENAULT | Logan | 105 |
| | Megan II / Scenic III | 110 |
| | Laguna Iii / Espace IV | 130 |
| SEAT | Ibiza, Toledo Leon, Leon | 120 |
| | Alhambra (10-11) | 140 |
| SKODA | Fabia / Octavia / Superb / Yeti | 120 |
| SMART | all models | 110 |
| | Smart Forfour (04-06) | 120 |
| SUZUKI | Splash/ Swift | 85 |
| | Grand Vitara | 100 |
| TOYOTA | iQ/ Aygo/ Jaris/ Auris/ Avensis | 103 |
| | Landcruser (08-11) | 209 |
| VOLKSWAGEN | Polo / Golf / Beatle / Passat / Scirocco / Touran | 120 |
| | Sharan | 170 |
| | Sharan (2010-11) | 140 |
| | Touareg | 180 |
| VOLVO | XC 90 / XC 60 / s80 / XC 70 / V70 / S60 | 140 |
| | XC 60 / C70 / S40 / V50 | 110 |
| **Transporter** | | |
| CITROEN | Berlingo III | 110 |
| | Jumper III | 100 |
| OPEL | Vivaro | 140 |
| PEUGOT | Expert | 100 |
| VOLKSWAGEN | Transporter / Multivan | 180 |

Specifications given without warranty.

## Mounting wheels:

Using a torque wrench, lighten the wheel nuts and screws uniformly over the cross up to the specified torque. Without fail, check the torque following a travelling distance of approx. 50 km after the wheel is mounted and at regular intervals. If a wheel-specific general operating licence is the case, it must comply with the tightening torque specified here.

## Use regulation-compliant wheel attachment elements

(Do not mix up spherical and conical, different lengths, parts for steel and lightweight-metal wheels etc.! Ensure sound strength quality!) Replace difficult-to-manipulate or corroded screws and nuts! Exercise caution with lubricants!

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# Contact


**GEDORE Tool Center KG**
Remscheider Straße 149
42899 Remscheid · GERMANY
Tel. +49(0)2191-596-0
Fax +49(0)2191-596-230

**Vertrieb DEUTSCHLAND**
Tel. +49(0)2191-596-900
Fax +49(0)2191-596-999

**Sales INTERNATIONAL**
Tel. +49(0)2191-596-910
Fax +49(0)2191-596-911

**gtc@gedore.com**
**www.gedore.com**


## Sales Department & Service

| | | | |
|---|---|---|---|
| **Verkaufsgebiet GEDORE Süd** | Remscheider Straße 149<br>42899 Remscheid | Tel.: +49 (0) 2191 - 596 - 100<br>Fax:+49 (0) 2191 - 596 - 276 | sued@gedore.com |
| **Verkaufsgebiet GEDORE Südwest** | Remscheider Straße 149<br>42899 Remscheid | Tel.: +49 (0) 2191 - 596 - 369<br>Fax: +49 (0) 2191 - 596 - 261 | suedwest@gedore.com |
| **Verkaufsgebiet GEDORE Mitte** | Remscheider Straße 149<br>42899 Remscheid | Tel.: +49 (0) 2191 - 596 - 342<br>Fax: +49 (0) 2191 - 596 - 117 | mitte@gedore.com |
| **Verkaufsgebiet GEDORE West** | Remscheider Straße 149<br>42899 Remscheid | Tel.: +49 (0) 2191 - 596 - 251<br>Fax: +49 (0) 2191 - 596 - 117 | west@gedore.com |
| **Alexander Dehnert Industrievertretungen** | Sokelantstraße 23<br>30165 Hannover | Tel.: +49 (0) 511-6 49 02 08<br>Fax: +49 (0) 511-6 49 84 55 | dehnert@damitgehts.de |
| **Vogt Industrie-vertretung GmbH** | Neusser Straße 7<br>33649 Bielefeld | Tel.: +49 (0) 521-44 39 32<br>Fax: +49 (0) 521-44 56 53 | vogt@gedore.com |
| **Verkaufsgebiet GEDORE Nord** | Remscheider Straße 149<br>42899 Remscheid | Tel.: +49 (0) 2191 - 596 - 155<br>Fax: +49 (0) 2191 - 596 - 261 | friederichs@gedore.com |
| **Verkaufsgebiet GEDORE Ost** | Remscheider Straße 149<br>42899 Remscheid | Tel.: +49 (0) 2191 - 596 - 119<br>Fax: +49 (0) 2191 - 596 - 276 | ost@gedore.com |

## Manufacturing companies

| | | | |
|---|---|---|---|
| **GEDORE Werkzeugfabrik Otto Dowidat KG** | Remscheider Straße 149<br>42899 Remscheid | Tel.: +49 (0) 21 91-596-0<br>Fax: +49 (0) 21 91-596-230 | zentrale@gedore.com |
| **Krumm KG Gesenkschmiede Werkzeugfabrik** | Lange Straße 7 a<br>42857 Remscheid | Tel.: +49 (0) 21 91-986-0<br>Fax: +49 (0) 21 91-986-99 | krumm@gedore.com |
| **DAKO Werk Dowidat KG Werkzeugfabrik** | Handelsweg 5-11<br>42897 Remscheid | Tel.: +49 (0) 21 91-697-0<br>Fax: +49 (0) 21 91-66 15 40 | dako@gedore.com |
| **Richard Abr. Herder KG** | Rathausstraße 22<br>42659 Solingen | Tel.: +49 (0) 21 2-888-0<br>Fax: +49 (0) 21 2-888-100 | rahsol@gedore.com |
| **Metec GmbH Metallwarentechnik** | Gewerbegebiet Süd<br>39443 Förderstedt | Tel.: +49 (0) 3 92 66-760-0<br>Fax: +49 (0) 3 92 66-760-23 | info@metec-gedore.com |
| **KLANN Spezial-Werkzeugbau-GmbH** | Breslauer Straße 41<br>78166 Donaueschingen | Tel.: +49 (0) 7 71-8 32 23-0<br>Fax: +49 (0) 7 71-8 32 23-90 | info@klann-online.de<br>www.klann-online.de |
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# International

**GEDORE Tool Center KG**
Remscheider Straße 149
42899 Remscheid · GERMANY
Tel. +49 (0) 2191-596-0
Fax +49 (0) 2191-596-230

**Vertrieb DEUTSCHLAND**
Tel. +49 (0) 2191-596-900
Fax +49 (0) 2191-596-999

**Sales INTERNATIONAL**
Tel. +49 (0) 2191-596-910
Fax +49 (0) 2191-596-911

**gtc@gedore.com**
**www.gedore.com**

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**GEDORE Tool Center KG**
Remscheider Straße 149
42899 Remscheid · GERMANY
Postfach 120361
42873 Remscheid
Fon +49 (0) 2191-596-0
Fax +49 (0) 2191-596-230

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**GEDORE Tool Center KG**

Remscheider Straße 149
42899 Remscheid · GERMANY
Postfach 120361 · 42873 Remscheid

Fon +49 (0) 2191 - 596 - 0
Fax +49 (0) 2191 - 596 - 230

gtc@gedore.com · www.gedore.com

**Sales GERMANY**
Fon +49 (0) 2191 - 596 - 900 · Fax +49 (0) 2191 - 596 - 999

**Sales INTERNATIONAL**
Fon +49 (0) 2191 - 596 - 910 · Fax +49 (0) 2191 - 596 - 911


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