



AEROSPACE-AVIATION

CATALOGUE



AEROSPACE-AVIATION CATALOGUE



CROSS CHECK

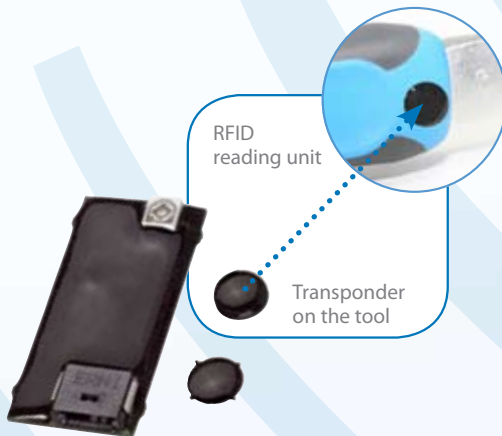
RFID technology

1

RFID TAGGED TOOLS
ELECTRONIC CONTROL

2

CHECK-TOOL INSERT
VISUAL CONTROL



Upon request all tool trolleys and tool chests can be equipped with the RFID system

CONTACT:
aerospace@gedore.de





CHECK-TOOL-SYSTEM

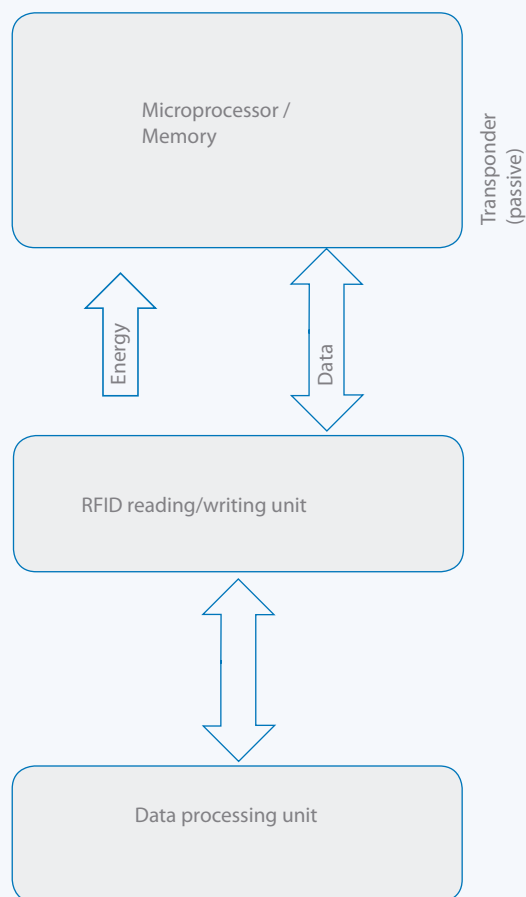
The German Aviation Administration requires: "Missing tools must be detected within 3 seconds!"

- ✔ 2-colour plastic 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



RFID-CHECK-TOOL-SYSTEM

- ✔ A complete check via RFID technology (**R**adio **F**requency **I**dentification) 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"



Start screen „Tool-Check-System“ with RFID

Guide

Compartment 1

Compartment 2

Compartment 3



GREEN = all tools are in the right place



RED = tool missing



YELLOW = Tool belongs to the case but is in the wrong place



Data on the tag can only be read or changed by authorised users.



Products that are trusted worldwide

We have been making quality tools since 90 years - tools we understand, that are chosen by professional users, and which we back with our good name. This means that our customers can always rely on optimal material properties, perfect ergonomics, maximum safety and long life in GEDORE tools.



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.

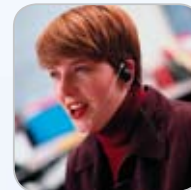


Premium quality from a premium company

The modern-day GEDORE Group embraces a large number of specialist tool companies, manufacturing world-renowned branded products. This allows us to supply professional users with a wide product range from a single source. The combined range supplied by the highly specialised manufacturers in our Group amounts to 18000 quality products. Each member of the Group stands for reliable development and production of custom and special tools.

You are the focus of our attention

In addition to the Central Office and Field Service, which act as central contacts for all brands, we also provide a Technical Field Service to assist you with specific issues. Our "Servicemobile" is the ideal way of clarifying user problems locally, together with the specialist retailer. Extensive information about the entire GEDORE Group is available to download on the website. The GEDORE newsletter regularly reports about products and current events from the entire Group.



Subscribe to the
GEDORE Newsletter at
www.gedore.com





Research and development for your safety

With its Research and Development department, the Group is able to react flexibly to changing market requirements. Continuous development of existing products and the development of new, patentable products are driven by targeted product marketing. Jointly with our customers, we develop special tools and design solutions for a range of individual requirements, to ensure safety in the craft trades, in bridge engineering, on oil rigs, in shipping, in the automotive sector and in heavy industry.

Environmental protection for future generations

Maintaining a healthy environment by keeping air, ground and water clean, takes top priority for the GEDORE Group, because we see this as a social obligation. Germany can be secured as a production location in the long term only if we secure the natural resources for future generations. Recirculation systems and recycling water and chemicals in electroplating, together with low-emission powder coating in the paint shop and low-emission forging are just a few points of our comprehensive environment management policy.



Do you know about our individual catalogues... ?

- GEDORE** // @work, Industrial Catalogue
- DCHSENKOPF** // Forestry Tools
- KLANN** // Special Automotive Tools
- METEC** // Workshop Equipment



WHY THREE DIFFERENT COMBINATION SPANNERS?

	Weight (total)
	Weight (total)
	Weight (total)
	Weight hammer head
	Length (total)
	Length (total)
	Length (total)
	Length of blade
	Length of blade
	Length of shaft / handle
	Length of point / blade
	Diameter (also dia. of head, of shaft, of points)
	Diameter
	Diameter
	Diameter of hole (external)
	Diameter of hole (internal)
	Width across flats (Nominal Width)
	Width across flats (Nominal Width)
	Width across flats (Nominal Width)
	Width across flats (Nominal Width)
	Width across flats (Nominal Width)
	Width across flats (Nominal Width)
	Width across flats (Nominal Width)

	Width across flats (Nominal Width)
	Width across flats (Nominal Width)
	Thread size, connection thread
	Screw dimension (type of thread)
	Ratchet used
	Ratchet used
	Ratchet used
	Ratchet used
	Square drive (external)
	Square drive (external)
	Square drive (external)
	Square drive (external)
	Square drive (external)
	Square drive (internal)
	Square drive (internal)
	Square drive (internal)
	Square drive (internal)
	Hexagon drive (external)
	Hexagon drive (external)
	Hexagon drive (internal)
	Hexagon drive (internal)

	Drive sections
	Slotted
	Cruciform PH
	Cruciform PZ
	Internal square
	External hexagon
	External hexagon with tamper proof hole
	Internal single hexagon
	Bi-hexagon
	Unit Drive
	Unit Drive
	Internal-TORX*
	Internal tamper proof TORX*
	External-TORX*
	Internal serrations XZN
	Multi-spline RIBE*
	Torq-Set
	Tri-Wing
	Hexagon
	Bi-hexagon
	Cutting edge thickness
	Jaw width / tape width
	Head width

	Type of jaw straight
	Type of jaw half-round
	Type of jaw round
	Cutting edge with bevel
	Cutting edge without bevel
	Straight jaws
	Angled jaws
	Internal retaining rings
	External retaining rings
	ESD, electrostatic discharge
	Electronic
	Pivoting angle
	Angle
	File profile flat
	File profile three-edged
	File profile round
	File profile half-round
	File profile square
	Puller
	Clamping spread
	Clamping reach
	Size of spindle
	Hydraulic spindle

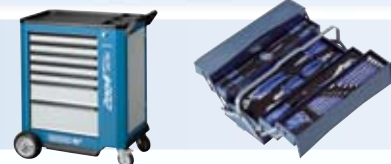
	Blade / Cutting edge width
	Blade thickness
	Gear ratio
	Output torque (max. N-m)
	Input torque (max. N-m)
	Scale divisions
	Single square drive
	Double square drive
	Drive connector
	Spigot-end drive
	in cardboard or plastic packaging
	in sheet metal box
	Set in sheet metal or plastic box
	Head width
	Distance, hole to edge
	GS Seal of tested quality
	Magnetic
	Radius
	Packaging unit
	Conformity with EU guidelines
	VDE Test Symbol
	For working in voltage areas up to 1000 V
	VDE Test Symbol (protective equipment)

	Throat depth
	Depth of opening / Clamping width / Clamping range
	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
	Cycles warranty
	Audible reaction (click)
	Mechanical torque multiplier
	Integrated electronic hardware
	Drawer
	Door
	Shelf
	P.O.A. Price on application
	SB Display Card Supplied



MOBILE HELPERS

8 – 25



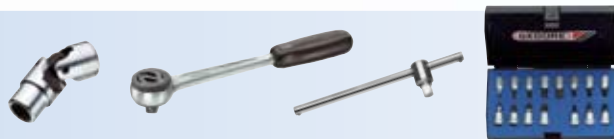
SPANNERS

26 – 33



SOCKETS AND RATCHETS

34 – 54



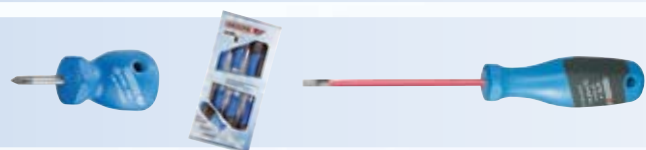
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3C-SCREWDRIVER

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MEASURING TOOLS + SPECIAL HELPERS

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MOBILE STORAGE TOOL CONTROL



overview

- Tool Trolleys
- Tool Assortments
- Mobile Workbenches
- Tool Cabinets
- Workbenches
- Tool Cases





THE GEDORE CHARACTER

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



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



Individual drawer locking (not applicable to 2003)

- ✓ 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



Square perforation

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



Load capacity

- ✓ The load capacity of the drawers is 40 kg
- ✓ The combined weight of our two mechanics' tool sets, S 1004 M and S 1007 M, is 40 kg
- ✓ **One drawer** could hold the full weight of all 250 tools!

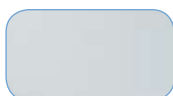


POWDER COATING

- ✓ 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



GEDORIT blue



GEDORIT silver





The complete range of GEDORE tool trolleys and workbenches is listed in the GEDORE price catalogue or on our website www.gedore.com



CHECK-TOOL-SYSTEM

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- ✔ Clearly visible tool contours simplify replacement into the correct pocket
- ✔ Resistant to oil and grease



TOOL TROLLEY 2004

A sturdy workshop trolley with smooth running drawers that open and shut one handed



Tool Trolley 2004



Plastic handle + powder-coated aluminium tube



High-performance wheels



Impact protection



Drawers with ball bearings

1 Strong handle, easy action

2 With lockable side storage space with drawers for small parts

3 All-round heel and impact protection for your safety

4 GEDORE high-performance wheels, with tyres that adapt to suit different loading

5 Static load capacity up to 500 kg

6 Drawers with ball bearings, 100% extendable and all individual partitionable. Supplied with 10 lengthwise and 2 crosswise dividers

7 Drawer combinations and maximum volumes may be selected individually to suit every workshop. 3 drawer sizes [30% (207 mm), 20% (137 mm) and 10% (67 mm) = Standard drawer height]. Safety lock guarantees that the drawer will not slide open while the trolley is moving.

8 Load capacity per drawer 40 kg

9 Sturdy working platform in ABS with three compartments for small parts and raised edge, offers additional store-room. Resistant to oil and acid

10 Central locking for padlock

Features

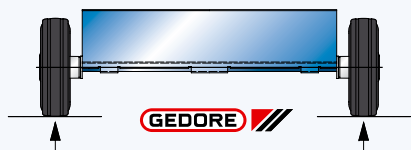
2004 0321

Total brake

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

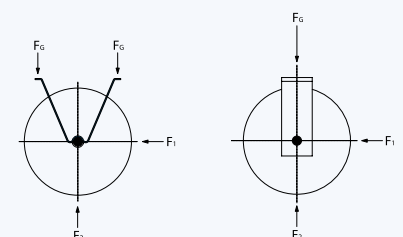
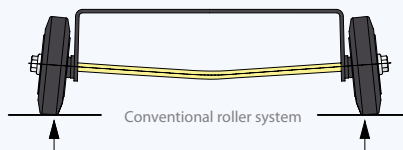
THE GEDORE CHASSIS (Not applicable to no. 1505)

The trapezoidal GEDORE chassis uniformly distributes the applied forces. 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.

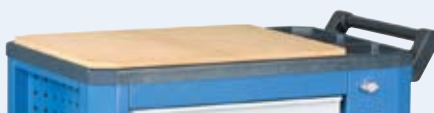


GEDORE
Uniform distribution of forces

Concentrated force distribution on screw-connected roller systems



possible accessories Tool trolley 2004/2005



MOBILE HELPERS

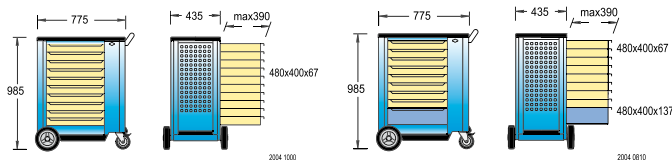
2004

TOOL TROLLEY

- Working platform in ABS with 3 compartments for small parts
- With handle for easy pushing, pulling and turning
- Ten different drawer combinations
- 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- and crosswise dividers
- Bottom drawer designed as heavy-duty drawer
- Load capacity per drawer 40 kg, bottom heavy-duty drawer 60 kg (only type 2 or type 3)
- 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 for padlock
- 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

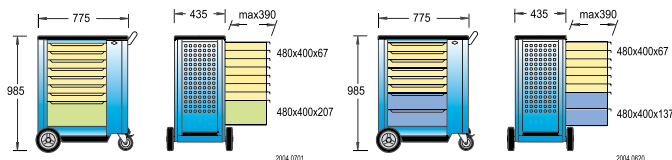


- Total load capacity 500 kg
- Dimensions: H 985 x W 775 x D 435 mm
- In GEDORIT blue, drawers GEDORIT silver, top black
- Delivery without tools
- Optional accessories: Tool chest 2430, Rear panel R 2003 or RB 2004, Wood plate 1500 HP



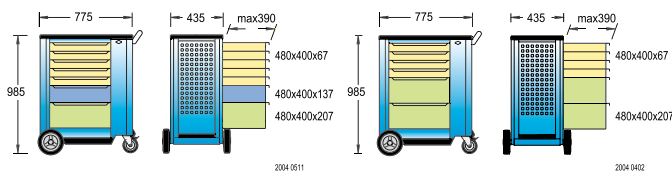
2004 1000

2004 0810



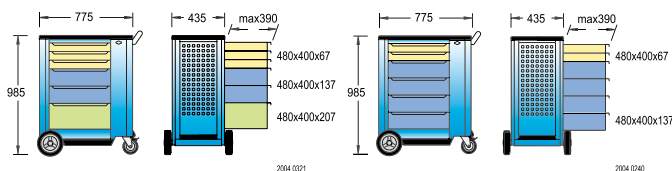
2004 0701

2004 0620



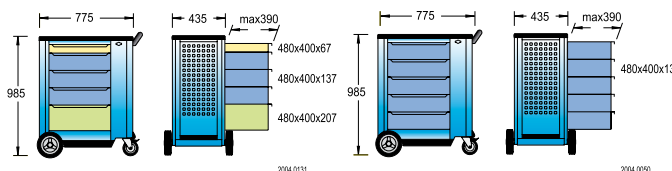
2004 0511

2004 0402



2004 0321

2004 0240



2004 0131

2004 0050

Code	No.	
1640690	2004 1000	94,0
	10x Typ 1, H = 67 mm	
1640704	2004 0810	91,0
	8x Typ 1, H = 67 mm	
	1x Typ 2, H = 137 mm	
1640712	2004 0701	86,0
	7x Typ 1, H = 67 mm	
	1x Typ 3, H = 207 mm	
1640720	2004 0620	88,0
	6x Typ 1, H = 67 mm	
	2x Typ 2, H = 137 mm	
1640739	2004 0511	84,0
	5x Typ 1, H = 67 mm	
	1x Typ 2, H = 137 mm	
	1x Typ 3, H = 207 mm	
1640747	2004 0402	80,0
	4x Typ 1, H = 67 mm	
	2x Typ 3, H = 207 mm	
1640755	2004 0321	82,0
	3x Typ 1, H = 67 mm	
	2x Typ 2, H = 137 mm	
	1x Typ 3, H = 207 mm	
1640771	2004 0240	79,0
	2x Typ 1, H = 67 mm	
	4x Typ 2, H = 137 mm	
1640763	2004 0131	75,0
	1x Typ 1, H = 67 mm	
	3x Typ 2, H = 137 mm	
	1x Typ 3, H = 207 mm	
1640798	2004 0050	76,0
	5x Typ 2, H = 137 mm	

2004-1080 GA

TOOL TROLLEY WITH TOOL ASSORTMENT JETTEC GROUND 154 pieces

- Particularly suited for Base Maintenance (extensive maintenance of the aircraft)
- Working platform in ABS with 3 compartments for small parts
- With handle for easy pushing, pulling and turning
- With nine drawers: 8x type 1 height 67 mm and 1x type 2 height 137 mm
- Single-hand operation with safety locking which prevents the drawers from opening when in motion
- With "Check-Tool-System": 2-colour plastic insert to check that the set is complete
- Storage compartment on the handle side with perforated sheet 9 x 33 mm to fix accessories
- Compartment door lockable (with padlock) with 4 removable drawers for small parts, also usable as personal compartment. Corresponding sticker is attached.
- 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



2004 JetTec

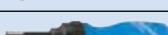
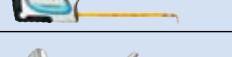
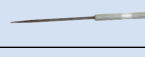
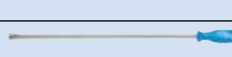


Code	No.	Contents
1988506	2004-1080 GA	2004 0511 + S 1080 A
1988514	S 1080 A	4 1/4x5/16 5/16x11/32 3/8x7/16 7/16x1/2 1/2x9/16" 4 R 1/4x5/16 5/16x11/32 3/8x7/16 1/2x9/16" 6 1/4x5/16 3/8x7/16 1/2x9/16 9/16x5/8 5/8x3/4 3/4x7/8 25/32x13/16 7/8x15/16 1.1/16x1.1/8 1.3/16x1.5/16 1.1/4x1.3/8 1.1/4x1.7/16" 7 1/4 5/16 11/32 3/8 7/16 1/2 9/16 5/8 11/16 3/4 13/16 7/8 15/16 1" 8 5/32 3/16 7/32 1/4 9/32 5/16 11/32 3/8 7/16" 60 CP 8 D 20 3/16 7/32 1/4 9/32 5/16 11/32 3/8 7/16 1/2 9/16" D 20 L 3/16 7/32 1/4 9/32 5/16 11/32 3/8 7/16 1/2" DG 20 1/4 5/16 3/8 7/16 1/2 9/16" 2093 U-20 2090-2 -4 -6 -12 2030 2095 2098 D 30 7/16 1/2 9/16 19/32 5/8 11/16 3/4 7/8" D 30 L 3/8 7/16 1/2 9/16 5/8 11/16 3/4 13/16 7/8" 3093 U-20 3090-5 -10 3020 3084 L 3095 689 TS 2 4 6 8 10 689 TW 2 4 6 8 10 620 674 2150 4 5/5 6/5 2153 4 2160 PH 1 2 2161 PH 1 174 1 3 H 42 EL-88 A 8245-180 JC 8316-160 JC 8136-200 JC 8136 AB-200 JC 137 10 145 10 JC 8385 8386 710 717-30 4534-3 718 745 4522 640-1800 406 100-10 119-3 4 5 6 8 600 H-300 248 ST-30





TOOL-OVERVIEW

2004-1080 GA	
	2004 0511
	4 1/4x5/16AF 5/16x11/32AF 3/8x7/16AF 7/16x1/2AF 1/2x9/16AF
	4 R 1/4x5/16AF 5/16x11/32AF 3/8x7/16AF 1/2x9/16AF
	6 1/4x5/16AF 3/8x7/16AF 1/2x9/16AF 9/16x5/8AF 5/8x3/4AF 3/4x7/8AF 25/32x13/16AF 7/8x15/16AF 1.1/16x1.1/8AF 1.3/16x1.5/16AF 1.1/4x1.3/8AF 1.1/4x1.7/16AF
	7 1/4AF 5/16AF 11/32AF 3/8AF 7/16AF 1/2AF 9/16AF 5/8AF 11/16AF 3/4AF 13/16AF 7/8AF 15/16AF 1AF
	8 5/32AF 3/16AF 7/32AF 1/4AF 9/32AF 5/16AF 11/32AF 3/8AF 7/16AF
	60 CP 8
	D 20 3/16AF 7/32AF 1/4AF 9/32AF 5/16AF 11/32AF 7/16AF 1/2AF 9/16AF
	D 20 L 3/16AF 7/32AF 1/4AF 9/32AF 5/16AF 11/32AF 3/8AF 7/16AF 1/2AF
	DG 20 1/4AF 5/16AF 3/8AF 7/16AF 1/2AF 9/16AF
	2093 U -20
	2090 -2 -4 -6 -12
	2030
	2095
	2098
	D 30 7/16AF 1/2AF 9/16AF 19/32AF 5/8AF 11/16AF 3/4AF 7/8AF
	D 30 L 3/8AF 7/16AF 1/2AF 9/16AF 5/8AF 11/16AF 3/4AF 13/16AF 7/8AF
	3093 U -20
	3090 -5 -10
	3020
	3095
	3084 L
	689 TS 2 4 6 8 10
	689 TW 2 4 6 8 10
	620
	674
	2150 4 5 5,6 5
	2153 4
	2160 PH 1 2
	2161 PH 1
	174 1 3
	42 EL 2 (5/64AF) 3/32AF 1/8AF 5/32AF 3/16AF 7/32AF (5,5MM) 1/4AF 5/16AF
	8245 -180 JC
	8316 -160 JC
	8136 -200 JC
	8136 AB -200 JC
	137 10
	145 10 JC
	8385
	8386
	710
	717 -30
	4534 -3
	718
	745
	4522
	640 -1800
	406
	100 -10
	119 -8 -6 -5 -4 -3
	600 H -300
	248 ST -30



2004-1085 A

TOOL TROLLEY WITH TOOL ASSORTMENT ROTORTEC 207 pieces

- Particularly suited for repair and maintenance of helicopters of all manufacturers
- Tools in metric and inch (AF) sizes
- Working platform in ABS with 3 compartments for small parts
- With handle for easy pushing, pulling and turning
- With nine drawers: 8x type 1 height 67 mm and 1x type 2 height 137 mm
- Single-hand operation with safety locking which prevents the drawers from opening when in motion
- With "Check-Tool-System": 2-colour plastic insert to check that the set is complete
- Storage compartment on the handle side with perforated sheet 9 x 33 mm to fix accessories
- Compartment door lockable (with padlock) with 4 removable drawers for small parts, also usable as personal compartment. Corresponding sticker is attached.
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- Dimensions: H 985 x W 775 x D 435 mm
- In GEDORIT blue, drawers GEDORIT silver, top black



2004 RotorTec

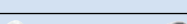
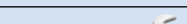
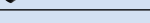
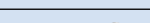
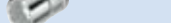
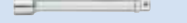
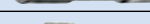
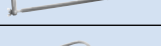
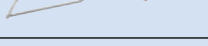
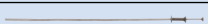
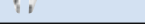
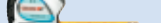
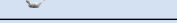
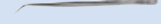
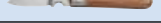
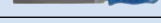
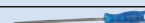


Code	No.	Contents
1988670	2004-1085 A	2004 0810 + S 1085 A
1988689	S 1085 A	4 R 1/4x5/16 1/2x9/16" 6 4x5 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x26 25x28 27x32 30x32 7 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 26 27 30 32 7 7/32 1/4 5/16 11/32 3/8 7/16 1/2 9/16 5/8 11/16 3/4 7/8 15/16 1" 7 R 10 13 8 4 5 5,5 6 7 8 9 10 11 12 13 14 D 20 4 4,5 5 5,5 6 7 8 9 10 11 12 13 14 D 20 3/16 7/32 1/4 9/32 5/16 11/32 3/8 7/16 1/2 9/16" D 20 L 3/16 1/4 5/16 3/8 7/16" DG 20 1/4 5/16 3/8 7/16 1/2 9/16" IN 20 5 2093 U-20 2030 2087 A 2088 2097 2098 2090-2 -4 -6 -12 3093 U-20 3019 3020 3090-5 D 19 L 17 1930 689 TS 2 4 6 8 10 689 TW 2 4 6 8 10 620 674 2150 3 4 5,5 6,5 8 10 2153 4 6,5 2160 PH 0 1 2 3 2161 PH 1 2 H 42-10 8245-180 JC 8316-160 JC 8136-200 JC 8136 AB-200 JC 8120-160 JC 8096-140 145 10 JC 8385 8386 403 404 640-1800 641 644 702 13 A 20 M 88 M 710 717-30 4534-3 718 720 745 4522 8701 2-8 8719 2-8 8722 2-8 8725 2-8 8728 97-175 98-125 99 10-2 10-3 10-4 12-5 100-10 119-2 -3 -4 -5 -6 -8 600 H-500 248 ST-30





TOOL-OVERVIEW

2004-1085 A	
	2004 0810
	4 R 1/4x5/16AF 1/2x9/16AF
	6 4x5 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x26 25x28 27x32 30x32
	7 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 26 27 30 32 7/32AF 1/4AF 5/16AF 11/32AF 3/8AF 7/16AF 1/2AF 9/16AF 5/8AF 11/16AF 3/4AF 7/8AF 15/16AF 1AF
	7 R 10 13
	8 4 5 5,5 6 7 8 9 10 11 12 13 14
	D 20 4 4,5 5 5,5 6 7 8 9 10 11 12 13 14 3/16AF 7/32AF 1/4AF 9/32AF 5/16AF 11/32AF 3/8AF 7/16AF 1/2AF 9/16AF
	D 20 L 3/16AF 1/4AF 5/16AF 3/8AF 7/16AF
	DG 20 1/4AF 5/16AF 3/8AF 7/16AF 1/2AF 9/16AF
	IN 20 5
	2093 U -20
	2030
	2087 A
	2088
	2097
	2098
	2090 -2 -4 -6 -12
	D 30 16 17 19
	3093 U -20
	3019
	3020
	3090 -5
	D 19 L 17
	1930
	689 TS 2 4 6 8 10
	689 TW 2 4 6 8 10
	620
	674
	2150 3 4 5,5 6,5 8 10
	2153 4 6,5
	2160 PH 0 1 2 3
	2161 PH 1 2
	42 1,3 1,5 2 (5/64AF) 2,5 3 4 5 6 8 10
	8245 -180 JC
	8316 -160 JC
	8136 -200 JC
	8136 AB -200 JC
	8120 -160 JC
	8096 -140
	145 10 JC
	8385
	8386
	403
	404
	640 -1800
	641
	644
	702 13 A 20 M 88 M
	710
	717 -30
	4534 -3
	718
	720
	745
	4522
	8701 2-8
	8719 2-8
	8722 2-8
	8725 2-8
	8728
	97 -175
	98 -125
	99 10-2 10-3 10-4 12-5
	100 -10
	119 -2 -3 -4 -5 -6 -8
	600 H -500
	248 ST-30

1335-1081 AA

TOOL BOX WITH TOOL ASSORTMENT JETTEC APRON 91 pieces

- Particularly suitable for Line Maintenance (on outside station)
- With "Check-Tool-System": 2-colour plastic insert to check that the set is complete
- Due to an approved riveting technology, GEDORE tool boxes may be opened and closed especially easily and are very sturdy
- The design of the joint system allows the tool compartments to be fully pulled out
- The wide floor guarantees great stability even if only one side is opened
- Blue stove enamelled
- Dimensions: H 210 x W 535 x D 225 mm



1335 JetTec



S 1081 A



1335 CTL



Code	No.	Contents
1988603	1335-1081 AA	1335 CTL + S 1081 A
1988611	S 1081 A	4 R 1/4x5/16 5/16x11/32 3/8x7/16 1/2x9/16" 7 1/4 5/16 11/32 3/8 7/16 1/2 9/16 5/8 11/16 3/4 7/8" D 20 3/16 7/32 1/4 9/32 5/16 11/32 3/8 7/16 1/2 9/16" D 20 L 3/16 7/32 1/4 9/32 5/16 11/32 3/8 7/16 1/2" DG 20 1/4 5/16 3/8 7/16 1/2 9/16" 2093 U-20 2030 2095 2090-4 -6 -12 2098 3093 U-20 3020 3084 L 689 TS 2 4 6 8 10 689 TW 2 4 6 8 10 620 674 2150 4 5,5 2153 4 2160 PH 1 2 2161 PH 1 173 5,5 174 1 H 42-88 A 8245-180 JC 8316-160 JC 8136-200 JC 8136 AB-200 JC 137 10 145 10 JC 8385 8386 4522 4534-3 718 600 H-300 248 ST-25





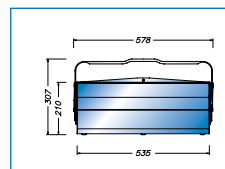
TOOL-OVERVIEW

1335-1081 AA	
	1335 CT L
	4 R 1/4x5/16AF 5/16x11/32AF 3/8x7/16AF 1/2x9/16AF
	7 1/4AF 5/16AF 11/32AF 3/8AF 7/16AF 1/2AF 9/16AF 5/8AF 11/16AF 3/4AF 7/8AF
	D 20 3/16AF 7/32AF 1/4AF 9/32AF 5/16AF 11/32AF 3/8AF 7/16AF 1/2AF 9/16AF
	D 20 L 3/16AF 7/32AF 1/4AF 9/32AF 5/16AF 11/32AF 3/8AF 7/16AF 1/2AF
	DG 20 1/4AF 5/16AF 3/8AF 7/16AF 1/2AF 9/16AF
	2093 U -20
	2030
	2095
	2090 -4 -6 -12
	2098
	3093 U -20
	3020
	3084 L
	689 TS 2 4 6 8 10
	689 TW 2 4 6 8 10
	620
	674
	2150 4 5,5
	2153 4
	2160 PH 1 2
	2161 PH 1
	173 5,5
	174 1
	42 2 (5/64AF) 3/32AF 1/8AF 5/32AF 3/16AF 7/32AF (5,5MM) 1/4AF 5/16AF
	8245 -180 JC
	8316 -160 JC
	8136 -200 JC
	8136 AB -200 JC
	145 10 JC
	137 10
	8385
	8386
	4522
	4534 -3
	718
	600 H -300
	248 ST -25

1335 CT L

TOOL BOX 5 compartments, long pattern

- With riveted joints
- Tool compartments can be fully pulled out
- Great stability even if only one side is opened
- Blue stove enamelled
- Dimensions: H 210 x W 535 x D 225 mm



Code	No.	H	B	T	
2003708	1335 CT L	210	535	225	6,3

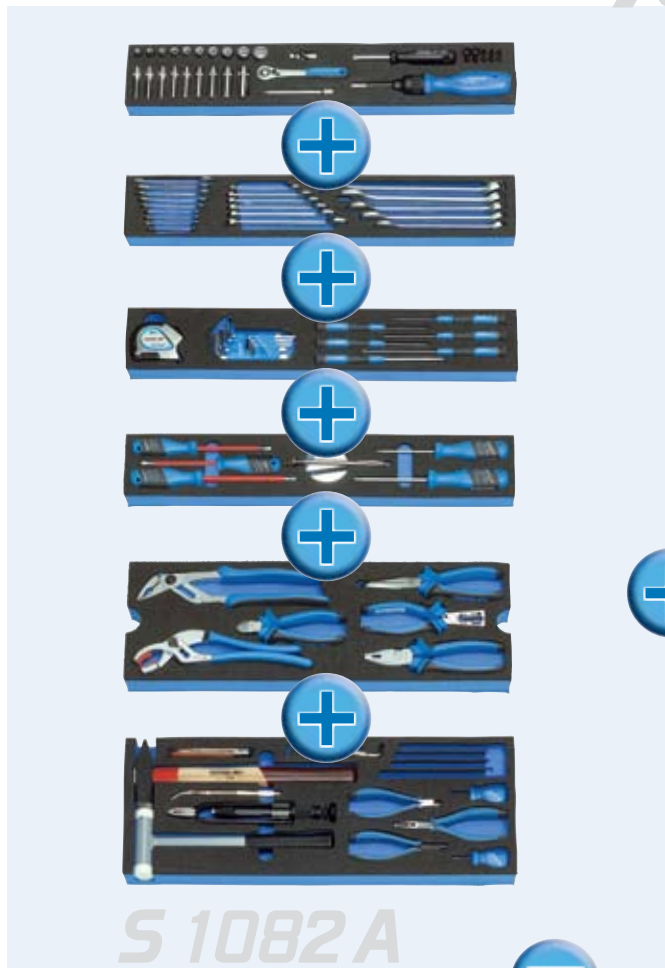
1335-1082 EA

TOOL BOX WITH TOOL ASSORTMENT JETTEC E 97 pieces

- Particularly suitable for aircraft's electronics engineers
- With "Check-Tool-System": 2-colour plastic insert to check that the set is complete
- Due to an approved riveting technology, GEDORE tool boxes may be opened and closed especially easily and are very sturdy
- The design of the joint system allows the tool compartments to be fully pulled out
- The wide floor guarantees great stability even if only one side is opened
- Blue stove enamelled
- Dimensions: H 210 x W 535 x D 225 mm



1335 JetTec E



S 1082 A



1335 CTL



Code	No.	Contents
1988654	1335-1082 EA	1335 CTL + S 1082 A
1988662	S 1082 A	4 R 1/4x5/16 5/16x11/32 3/8x7/16 1/2x9/16" 7 1/4 5/16 11/32 3/8 7/16 1/2 9/16 5/8 11/16 3/4 7/8" 8 5/32 3/16 7/32 1/4 9/32 5/16 11/32 3/8 7/16" D 20 3/16 7/32 1/4 9/32 5/16 11/32 3/8 7/16 1/2 9/16" D 20 L 3/16 7/32 1/4 9/32 5/16 11/32 3/8 7/16 1/2" 2093 U-20 2090-4 2095 2098 689 TS 2 4 6 8 689 TW 2 4 6 8 10 620 674 2160 PH 1 2 2161 PH 1 2170 2,5 4 5,5 2153 4 165 PH 00 0 1 171 IS 2 2,5 3 173 5,5 174 1 H 42-88 A 8245-180 JC 8314-140 JC 8136 AB-200 JC 8099-160 JCP 8308-5 8305-9 8306-1 145 10 JC 8385 8386 718 720 4534-3 4522 600 H-300 248 ST-25





TOOL-OVERVIEW

1335-1082 EA	
	1335 CT L
	4 R 1/4x5/16AF 5/16x11/32AF 3/8x7/16AF 1/2x9/16AF
	7 1/4AF 5/16AF 11/32AF 3/8AF 7/16AF 1/2AF 9/16AF 5/8AF 11/16AF 3/4AF 7/8AF
	8 5/32AF 3/16AF 7/32AF 1/4AF 9/32AF 5/16AF 11/32AF 3/8AF 7/16AF
	D 20 3/16AF 7/32AF 1/4AF 9/32AF 5/16AF 11/32AF 3/8AF 7/16AF 1/2AF 9/16AF
	D 20 L 3/16AF 7/32AF 1/4AF 9/32AF 5/16AF 11/32AF 3/8AF 7/16AF 1/2AF
	2093 U -20
	2090 -4
	2095
	2098
	689 TS 2 4 6 8
	689 TW 2 4 6 8 10
	620
	674
	2160 PH 1 2
	2161 PH 1
	2170 2,5 4 5,5
	2153 4
	165 PH 0 00 1
	171 IS 2 2,5 3
	173 5,5
	174 1
	42 2 (5/64AF) 3/32AF 1/8AF 5/32AF 3/16AF 7/32AF (5,5MM) 1/4AF 5/16AF
	8245 -180 JC
	8314 -140 JC
	8136 AB -200 JC
	8099 -160 JCP
	8308 -5
	8305 -9
	8306 -1
	145 10 JC
	8385
	8386
	718
	720
	4534 -3
	4522
	600 H -300
	248 ST -25



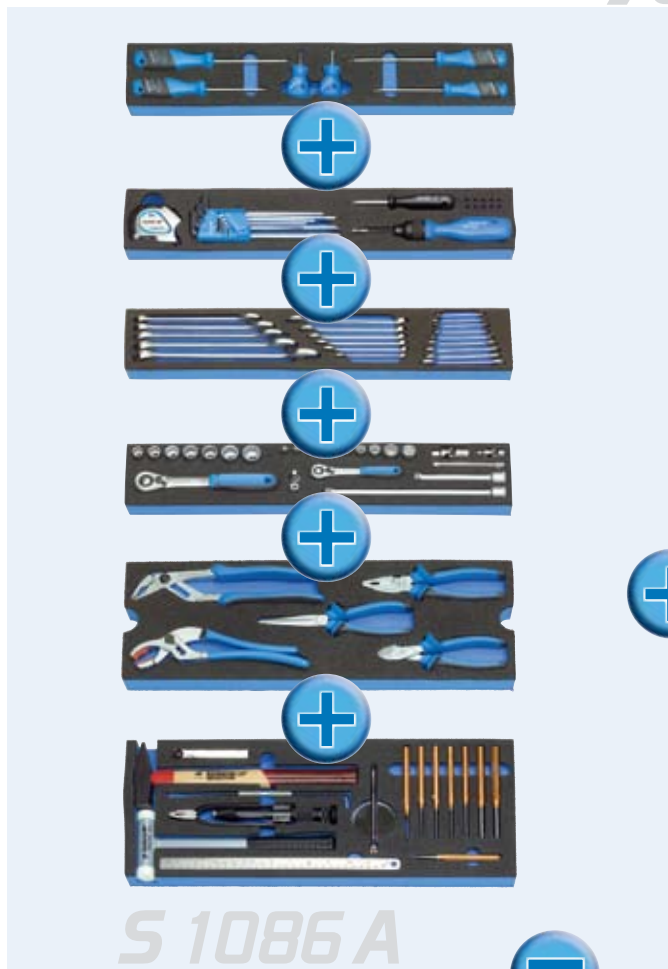
1335-1086 A

TOOL BOX WITH TOOL ASSORTMENT AEROTEC 95 pieces

- Particularly suitable for repair and maintenance on business and single piston engine aircrafts
- With "Check-Tool-System": 2-colour plastic insert to check that the set is complete
- Due to an approved riveting technology, GEDORE tool boxes may be opened and closed especially easily and are very sturdy
- The design of the joint system allows the tool compartments to be fully pulled out
- The wide floor guarantees great stability even if only one side is opened
- Blue stove enamelled
- Dimensions: H 210 x W 535 x D 225 mm



1335 AeroTec



S 1086 A



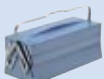
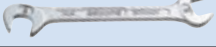
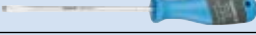
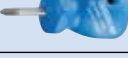
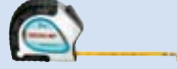
1335 CTL

Code	No.	Contents	
1988697	1335-1086 A	1335 CTL + S 1086 A	
1988700	S 1086 A	7 1/4 5/16 11/32 3/8 7/16 1/2 9/16 5/8 11/16 3/4 7/8" 8 3/16 7/32 1/4 9/32 5/16 11/32 7/16 5/32 3/8" D 20 3/16 7/32 1/4 9/32 5/16 11/32 3/8 7/16 1/2 9/16" 2093 U-20 2090-4 2030 2095 2098 D 30 7/16 1/2 9/16 19/32 5/8 11/16 3/4" 3093 U-20 3090-5 -10 3020 3095 689 TS 4 6 8 689 TW 2 4 6 690 1 2 680 4 5,5 6,5 620 674 2150 4 5,5 2153 4 2160 PH 1 2 2161 PH 1 H 42 EL-88 A 8245-180 JC 8316-160 JC 8136-200 JC 145 10 JC 8385 8386 702 13 A 717-30 4534-3 718 745 100-10 119-2 -3 -4 -5 -6 -8 -10 600 H-300 248 ST-25	





TOOL-OVERVIEW

1335-1086 A	
	1335 CT L
	7 1/4AF 5/16AF 11/32AF 3/8AF 7/16AF 1/2AF 9/16AF 5/8AF 11/16AF 3/4AF 7/8AF
	8 3/16AF 7/32AF 1/4AF 9/32AF 5/16AF 11/32AF 7/16AF 5/32AF 3/8AF
	D 20 3/16AF 7/32AF 1/4AF 9/32AF 5/16AF 11/32AF 3/8AF 7/16AF 1/2AF 9/16AF
	2093 U -20
	2090 -4
	2030
	2095
	2098
	D 30 7/16AF 1/2AF 9/16AF 19/32AF 5/8AF 11/16AF 3/4AF
	3093 U -20
	3090 -5 -10
	3020
	3095
	680 4 5,5 6,5
	689 TS 4 6 8
	689 TW 2 4 6
	690 1 2
	620
	674
	2150 4 5,5
	2153 4
	2160 PH 1 2
	2161 PH 1
	42 EL 2 (5/64AF) 3/32AF 1/8AF 5/32AF 3/16AF 7/32AF (5,5MM) 1/4AF 5/16AF
	8245 -180 JC
	8316 -160 JC
	8136 -200 JC
	145 10 JC
	8385
	8386
	702 13 A
	717 -30
	4534 -3
	718
	745
	100 -10
	119 -2 -3 -4 -5 -6 -8 -10
	600 H -300
	248 ST -25

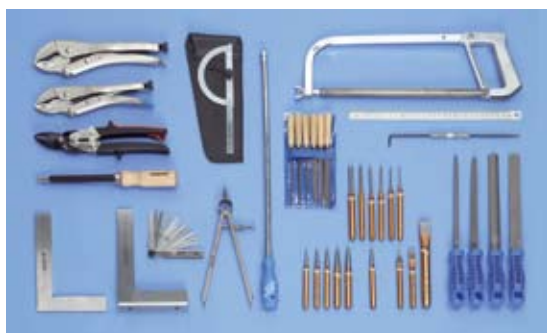
The complete range of GEDORE tool boxes is listed in the GEDORE catalogue or on our website www.gedore.com



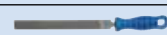
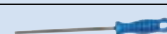
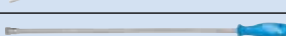
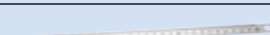
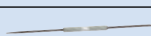
S 1087

TOOL ASSORTMENT METAL WORKING 38 pieces

- Particularly suitable for aircraft metal working
- Practical supplement for the sets AeroTec, JetTec Ground, JetTec Apron and RotorTec



Code	No.	Contents
1988719	S 1087	137 10 11 8701 2-8 8719 2-8 8722 2-8 8725 2-8 8728 425026 403 702 13 A 640 -1800 717 -30 716 715 -1 -2 740 745 97 -125 -175 98 -125 99 10-2 10-3 10-4 12-5 12-6 100 -10 119 -2 -3 -4 -5 -6 -8 132 -150

	Contents
	137 10 11
	8701 2-8
	8719 2-8
	8722 2-8
	8725 2-8
	8728
	425026
	403
	702 13 A
	640 -1800
	717 -30
	716
	715 -1 -2
	740
	745
	97 -125 -175
	98 -125
	99 10-2 10-3 10-4 12-5 12-6
	100 -10
	119 -2 -3 -4 -5 -6 -8
	132 -150

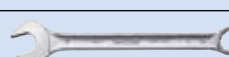
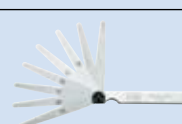
S 1088 EM

TOOL ASSORTMENT METRIC 60 pieces

- Supplement assortment with metrical tools for the aviation



Code	No.	Contents
1988751	S 1088 EM	6 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 7 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 D 30 6 7 8 9 10 11 13 14 15 16 17 18 19 H 42 -10 702 20 M 88 M

	Contents
	6 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22
	7 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
	D 30 6 7 8 9 10 11 13 14 15 16 17 18 19
	42 1,3 1,5 2 (5/64AF) 2,5 3 4 5 6 8 10
	702 20 M 88 M

905

CREEPER

- Comfortable, ergonomically shaped one-piece creeper
- With practical carrying handle
- Made from PP - 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



PRECISE AND DURABLE QUALITY WITH PROFILE



overview

- Combination Spanners
- Ring Spanners
- Open Ended Spanners



HIGH PROFILE SPANNERS

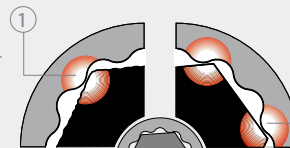


- Comfortable to hold due to ergonomic profiles without sharp edges
- Optimum cross-section for secure grip, even with oily hands
- High bending strength
- Carefully forged and professionally machined
- Non-dazzling matt chrome finish
- Large selection in standardised, non-standardised, metric and imperial sizes (AF and Whitworth)

UNIT DRIVE profile protects bolt heads



The wave form of the profile makes the spanner hold in every case - even with bolts whose dimensions are outside the tolerance range.



2 The force works only on the flanks of the bolt heads. This means that the edges cannot be deformed and the bolt effectively protected.

The contact surface between the spanner and the bolt head is markedly increased due to the wave form. It permits an even distribution of the pressure that makes the greatest force usable.

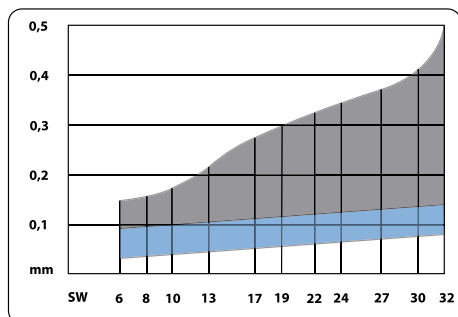


4 The profile ensures an especially-protective transfer of force. And with this, even damaged bolt heads may be gripped and turned.



THE KEY TO SUCCESS

Hi-tech for the exact rated size

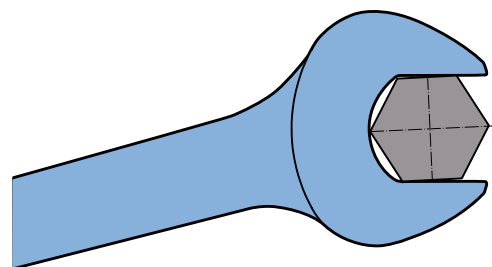


GEDORE DIN standard SW = spanner size

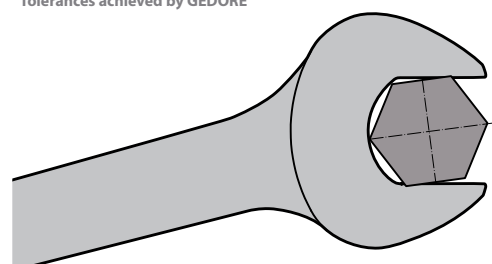


Open-ended spanners have been made since the dawn of technology. But the continued use of traditional tools does not automatically mean that they are still manufactured by conventional production processes. Tried and tested production stages are subject to continuous development by our workforce. Where modern technology can be used to permanently improve the quality, it is used. GEDORE grinds the spanner jaws to the exact rated size, using a hi-tech grinding machine. A perfect fit is the most important requirement for non-damaging and safe working.

- Precision dimensions ensure secure nut and bolt grip
- Long life of nut and bolt
- Complete transmission of the available torque
- Top quality for better working safety



Tolerances achieved by GEDORE



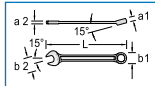
Tolerances permitted by DIN standards



7

COMBINATION SPANNER with same size each end

- To DIN 3113 Form A, ISO 3318, ISO 7738 (only metric sizes)
- GEDORE vanadium steel 31CrV3, chrome-plated
- With same size each end
- Ring 15° offset from shaft
- Sizes 3 to 5.5 with hexagon ring
- * not standardised



Code	No.	*		L	a ₁	a ₂	b ₁	b ₂	↔	📦
6080680	7 3	*	6.4	78	2.8	2.8	6.5	9.2	8	5
6080760	7 3,2	*		78	2.8	2.8	6.5	9.2	8	5
6080840	7 3,5	*		78	2.8	2.8	6.5	9.2	8	5
6080920	7 4	*		85	3.2	3.2	7.7	11.8	10	5
6081060	7 4,5	*		85	3.2	3.2	7.7	11.8	10	5
6081140	7 5	*		92	3.6	3.6	9.7	13.2	12	10
6081220	7 5,5	*		92	3.6	3.6	9.7	13.2	12	10
6089550	7 6			100	5.0	3.4	10.0	16.2	12	10
6089630	7 7			110	5.5	3.6	11.5	17.5	15	10
6089710	7 8			120	6.0	3.8	12.7	19.8	20	10
6089980	7 9			130	6.5	4.0	14.0	21.5	32	10
6090050	7 10			140	7.0	4.2	15.5	23.0	34	10
6090130	7 11			150	7.5	4.5	17.0	26.0	45	10
6090210	7 12			160	8.0	4.8	18.5	27.5	50	10
6090480	7 13			170	8.5	5.0	19.5	30.0	65	10
6090560	7 14			180	9.0	5.2	21.0	31.8	73	10
6090640	7 15			190	9.5	5.5	22.5	34.0	90	10
6091610	7 16			200	10.0	5.8	23.0	35.0	120	10
6090720	7 17			210	10.5	6.0	25.0	38.0	105	10
6091880	7 18			220	11.0	6.2	26.0	40.0	165	10
6090800	7 19			230	11.5	6.5	28.0	42.0	150	10
6091960	7 20	*		240	12.0	6.8	29.0	44.2	220	10
6092180	7 21			252	12.5	7.0	30.0	45.5	250	10
6090990	7 22			262	13.0	7.2	32.0	48.0	215	10
6092260	7 23	*		270	13.5	7.6	33.0	49.5	335	10
6091020	7 24			282	14.0	8.0	35.0	52.5	295	10

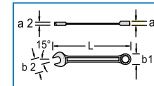
Code	No.	*		L	a ₁	a ₂	b ₁	b ₂	↔	📦
6092340	7 25	*		290	14.5	8.2	36.0	54.5	410	10
6092420	7 26	*		302	15.0	8.2	37.0	56.5	450	10
6091100	7 27			310	15.5	8.5	39.0	59.5	400	10
6092500	7 28	*		320	16.0	8.8	40.0	60.0	440	10
6092690	7 29	*		330	16.5	8.8	41.5	61.5	500	10
6091290	7 30			340	17.0	9.0	43.0	63.0	544	10
6091370	7 32			380	18.0	9.5	46.0	67.5	624	10
1827987	7 34			420	19.0	10.0	49.0	72.0	750	1
6089470	7 36			460	20.0	10.5	52.0	75.0	880	1

Code	No.			L	a ₁	a ₂	b ₁	b ₂	↔	📦
1436767	7 3/16AF			85	3.2	3.2	7.7	11.8	12	1
1436775	7 7/32AF			92	3.6	3.6	9.7	13.2	12	1
6098700	7 1/4AF			100	5.0	3.4	10.0	16.2	14	1
6098890	7 5/16AF			120	6.0	3.8	12.7	19.8	20	1
6098970	7 11/32AF			130	6.5	4.0	14.0	21.5	30	1
6099190	7 3/8AF			140	7.0	4.2	15.5	23.0	45	1
6099270	7 7/16AF			150	7.5	4.5	17.0	26.0	45	1
6099430	7 1/2AF			170	8.5	5.0	19.5	30.0	50	1
6099510	7 9/16AF			180	9.0	5.2	21.0	31.8	65	1
6099780	7 5/8AF			200	10.0	5.8	23.0	35.0	75	1
6099860	7 11/16AF			220	11.0	6.2	26.0	40.0	100	1
6099940	7 3/4AF			230	11.5	6.5	28.0	42.0	135	1
6100030	7 13/16AF			252	12.5	7.0	30.0	45.5	180	1
6100110	7 7/8AF			262	13.0	7.2	32.0	48.0	190	1
6100380	7 15/16AF			282	14.0	8.0	34.0	52.5	240	1
6100460	7 1AF			302	15.0	8.2	36.0	56.5	300	1

7 R

OPEN ENDED SPANNER WITH RING RATCHET

- Flat pattern
- Fine-toothed (72 teeth) for ratchet loosening and fast tightening
- High torque transfer
- In combination with adaptor 618 (order separately) the spanner 7 R 10 mm can be used as a 1/4" bit ratchet



Code	No.			L	a ₁	a ₂	b ₁	b ₂	↔	📦
6081300	7 R 8			140.0	6.5	4.0	16.6	16.7	30	5
6081490	7 R 9			150.0	6.9	4.4	18.5	18.8	40	5
6081570	7 R 10			159.0	7.3	4.8	20.0	20.8	43	5
6081650	7 R 11			165.0	7.7	5.2	21.5	23.0	55	5
6081730	7 R 12			172.0	8.2	5.5	22.6	25.0	63	5
6081810	7 R 13			178.0	8.6	5.8	24.6	27.1	73	5
6082030	7 R 14			191.0	9.0	6.2	27.0	29.2	92	5
6082110	7 R 15			200.0	9.4	6.5	28.3	31.3	108	5
6082380	7 R 16			208.5	9.9	6.8	30.0	33.4	119	5
6082460	7 R 17			226.0	10.3	7.2	32.0	35.5	147	5
6082540	7 R 18			237.0	10.7	7.7	33.0	37.6	171	5
6082620	7 R 19			248.0	11.2	8.2	34.0	39.7	193	5
1673319	7 R 22			290.0	13.0	9.0	40.0	46.0	325	1
1673327	7 R 24			323.0	14.5	10.0	46.0	52.2	465	1
1827995	7 R 27			359.0	15.5	10.5	52.5	56.5	676	1
1828002	7 R 30			403.0	17.0	11.4	58.5	59.0	909	1
1828010	7 R 32			425.0	17.5	12.5	62.5	63.2	1056	1

Code	No.			L	a ₁	a ₂	b ₁	b ₂	↔	📦
1995863	7 R 1/4AF			127.5	6.3	3.9	14.0	15.0	24	1
1995871	7 R 5/16AF			140.0	6.5	4.0	16.6	16.7	30	1
1995898	7 R 3/8AF			159.0	7.3	4.8	20.0	20.8	48	1
1995901	7 R 7/16AF			165.0	7.7	5.2	21.8	23.0	58	1
1995928	7 R 1/2AF			178.0	8.6	5.8	24.7	27.1	80	1
1995936	7 R 9/16AF			191.0	9.0	6.2	27.0	29.2	98	1
1995944	7 R 5/8AF			208.0	9.9	6.8	30.0	33.4	140	1
1995952	7 R 3/4AF			248.0	11.2	8.2	33.8	39.7	206	1
1995960	7 R 7/8AF			290.0	13.0	9.0	40.0	46.0	350	1
1995979	7 R 1AF			323.0	14.5	10.0	46.0	52.2	496	1
1995987	7 R 1.1/16AF			359.0	15.5	10.5	52.5	56.5	660	1
1995995	7 R 1.1/8AF			403.0	17.0	11.4	58.5	62.7	876	1
1996002	7 R 1.1/4AF			425.0	17.5	12.5	62.5	66.4	1100	1

7 R-005

OPEN ENDED SPANNERS WITH RING RATCHET SET 5 pieces

- In plastic case
- All usual sizes combined in a set



Code	No.			↔	📦
1710974	7 R-005			950	1
	8 10 13 17 19				

7 R-012

OPEN ENDED SPANNERS WITH RING RATCHET SET 12 pieces

- ✓ In sheet metal case
- ✓ All usual sizes combined in a set
- ✓ Dimensions: 315 x 181 x 40 mm



Code	No.			
1669605	7 R-012	8 9 10 11 12 13 14 15 16 17 18 19	2650	1

618

ADAPTOR 1/4"

- ✓ To use in conjunction with spanner 7 R 10 or 7 UR 10 as a bit ratchet



Code	No.	□"	□	□ mm		
1436791	618	1/4	6.3	10	20	10

4 R

COMBINATION RING RATCHET SPANNER INCH



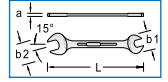
Code	No.	L	a ₁	a ₂	b ₁	b ₂		
1967924	4 R 5/16x11/32AF	115	6.3	6.5	14.2	17.2		1
1967916	4 R 3/8x7/16AF	128	6.5	6.9	16.8	20.2		1
1967908	4 R 1/4x5/16AF	150	7.3	7.7	20.2	21.8		1
1967894	4 R 1/2x9/16AF	180	8.6	9.0	24.8	26.5		1



6

DOUBLE OPEN ENDED SPANNER

- ✓ To DIN 3110, ISO 3318, ISO 1085, ISO 10102 (only metric sizes)
- ✓ Slim pattern, oval shaft
- ✓ GEDORE vanadium steel 31CrV3, chrome-plated
- ✓ * not standardised



Code	No.	*	L	a	b ₁	b ₂		
6063400	6 4x4,5	*	100	3.4	13.0	14.0	10	10
6063590	6 4x5	*	100	3.4	13.0	14.0	10	10
6063670	6 5x5,5	*	100	3.4	14.5	16.0	10	10
6063750	6 5,5x7	*	122	3.5	16.0	17.5	20	10
6063830	6 6x7		122	3.5	16.5	17.5	20	10
6063910	6 6x8	*	122	3.5	16.5	20.0	20	10
6064050	6 7x8		140	3.8	17.5	20.0	25	10
6064130	6 7x9	*	140	3.8	17.5	22.0	25	10
6064210	6 8x9		140	3.8	20.0	22.0	25	10
6064480	6 8x10		140	4.0	20.0	23.5	30	10
6064560	6 9x10	*	157	4.5	22.0	23.5	40	10
6064640	6 9x11	*	157	4.5	22.0	26.5	40	10
6064720	6 10x11		157	4.5	23.5	26.5	40	10
6064800	6 10x12	*	157	4.5	23.5	28.0	40	10
6064990	6 10x13		172	5.0	23.5	30.5	55	10
6065020	6 10x14	*	172	5.0	23.5	32.0	55	10
6065100	6 11x13		172	5.0	26.5	30.5	55	10
6065290	6 11x14	*	172	5.0	26.5	32.0	55	10
6065370	6 12x13		172	5.0	28.0	30.5	60	10
6065450	6 12x14		172	5.0	28.0	32.0	60	10
6065530	6 13x14		178	5.0	30.5	32.0	60	10
6065610	6 13x15		188	5.5	30.5	34.5	70	10
6068980	6 13x16		190	5.5	30.5	35.5	100	10
6065880	6 14x15		188	5.5	32.0	34.5	70	10
6065960	6 13x17		205	6.0	30.5	38.5	110	10
6066180	6 14x17		205	6.0	32.0	38.5	110	10
6066260	6 16x17		205	6.0	35.5	38.5	110	10
6066340	6 16x18		205	6.0	35.5	40.5	110	10
6066420	6 17x19		222	6.5	38.5	43.0	155	10
6066500	6 18x19		222	6.5	40.5	43.0	155	10
6069360	6 18x21		236	7.0	40.5	46.0	200	10
6066690	6 17x22	*	236	7.0	38.5	48.5	210	10
6066770	6 19x22		236	7.0	43.0	48.5	210	10
6066850	6 20x22	*	236	7.0	44.5	48.5	210	10
6066930	6 19x24		250	7.5	43.0	53.5	240	10
6067070	6 21x23	*	247	7.5	46.0	50.0	240	10
6069440	6 21x24		250	7.5	46.0	53.5	250	10
6067150	6 22x24		250	7.5	48.5	53.5	240	10
6067230	6 22x27	*	266	8.0	48.5	60.0	300	10
6067310	6 24x26	*	266	8.0	53.5	56.5	300	10
6067580	6 24x27		266	8.0	53.5	60.0	300	10
6067660	6 24x30		280	8.5	53.5	63.5	355	10
6067740	6 25x28	*	280	8.5	55.0	60.0	355	10
6067820	6 27x29	*	302	9.0	60.0	63.5	460	10
6067900	6 27x30		302	9.0	60.0	63.5	460	10
6068040	6 27x32		302	9.0	60.0	68.0	460	10
6068120	6 30x32		302	9.0	63.5	68.0	460	10
6069520	6 30x34		302	9.0	63.5	72.0	540	10
6068200	6 30x36		328	9.4	63.5	76.0	650	1
6068390	6 32x36		328	9.4	68.0	76.0	650	1
6069600	6 34x36		328	9.4	72.0	76.0	560	1
6068470	6 36x41		360	10.0	76.0	84.5	830	1
6068550	6 38x42	*	360	10.0	77.0	86.0	830	1
6068630	6 41x46		400	10.7	86.5	95.5	1150	1
6068710	6 46x50		450	11.6	95.5	102.0	1500	1



Code	No.	L	a	b ₁	b ₂	↔	📦
6070020	6 1/4x5/16AF	122	3.7	17.5	20.0	20	1
6070100	6 5/16x3/8AF	140	4.0	20.0	23.5	25	1
6060060	6 5/16x11/32AF	140	4.0	20.5	22.5	40	1
6070290	6 3/8x7/16AF	157	4.5	23.5	26.5	40	1
6070370	6 7/16x1/2AF	172	5.0	26.5	30.0	55	1
6070450	6 1/2x9/16AF	190	5.5	30.0	33.0	70	1
6070530	6 9/16x5/8AF	190	5.5	33.0	36.0	70	1
6070610	6 19/32x11/16AF	205	6.0	34.5	39.5	110	1
6070880	6 5/8x11/16AF	205	6.0	36.0	39.5	110	1
6070960	6 5/8x3/4AF	222	6.5	36.0	42.5	155	1
6071180	6 11/16x3/4AF	222	6.5	39.5	42.5	155	1
6071260	6 3/4x25/32AF	222	6.5	42.5	43.5	155	1
6071340	6 3/4x7/8AF	236	7.0	42.5	48.5	210	1
6071420	6 25/32x13/16AF	236	7.0	44.5	46.0	210	1
6071500	6 13/16x7/8AF	236	7.0	46.0	48.5	210	1
6071690	6 7/8x15/16AF	250	7.5	48.5	52.0	240	1
6073550	6 7/8x1.1/16AF	266	8.0	48.5	60.0	310	1
6071770	6 15/16x1AF	266	8.0	52.0	55.0	300	1
6071850	6 15/16x1.1/8AF	280	8.5	56.0	63.5	355	1
6071930	6 1x1.1/8AF	280	8.5	55.0	63.5	355	1
6072070	6 1.1/16x1.1/8AF	302	9.0	60.0	64.5	460	1
6072150	6 1.1/16x1.1/4AF	302	9.0	60.0	68.0	460	1
6072230	6 1.1/8x1.5/16AF	302	9.0	65.5	70.5	460	1
6072310	6 1.3/16x1.5/16AF	302	9.0	65.5	70.5	460	1
6072580	6 1.1/4x1.3/8AF	328	9.4	69.5	75.5	650	1
6072660	6 1.1/4x1.7/16AF	328	9.4	69.5	75.5	650	1
6072740	6 1.5/16x1.1/2AF	328	9.4	74.0	79.0	650	1
6072820	6 1.3/8x1.1/2AF	328	9.4	74.0	79.0	650	1
Code	No.	L	a	b ₁	b ₂	↔	📦
6074440	6 1/8x3/16W	157	4.5	21.0	27.0	40	1
6074520	6 3/16x1/4W	172	5.0	27.0	31.0	55	1
6074600	6 1/4x5/16W	190	5.5	31.0	35.0	70	1
6074790	6 5/16x3/8W	205	6.0	35.0	40.5	110	1
6074870	6 3/8x7/16W	236	7.0	40.5	46.0	210	1
6074950	6 7/16x1/2W	250	7.5	46.0	51.0	240	1
6075090	6 1/2x9/16W	266	8.0	51.0	55.5	300	1
6075250	6 9/16x5/8W	280	8.5	56.0	63.5	355	1
6075330	6 9/16x11/16W	280	8.5	56.0	63.5	355	1
6075410	6 5/8x3/4W	302	9.0	65.5	70.5	460	1
6075680	6 11/16x3/4W	302	9.0	65.5	70.5	460	1
6075840	6 3/4x7/8W	328	9.4	74.0	79.0	650	1
6075920	6 7/8x1.W	360	10.0	77.0	86.0	830	1

8

DOUBLE ENDED MIDGET SPANNER small

- With same size each end, flat, rings offset at 15° and 75°
- GEDORE vanadium steel 31CrV3, chrome-plated



Code	No.	L	a	b	↔	📦
6093900	8 4	69.0	2.2	10.4	7	10
6094040	8 4,5	69.0	2.2	10.4	7	10
6094120	8 5	77.3	2.2	12.4	7	10
6094200	8 5,5	77.3	2.2	12.4	10	10
6094390	8 6	77.3	2.2	12.4	10	10
6094470	8 7	89.5	2.6	14.8	10	10
6094550	8 8	95.5	3.1	17.5	15	10
6094630	8 9	103.8	3.1	20.2	15	10
6094710	8 10	103.8	3.1	20.2	20	10
6094980	8 11	115.2	3.1	24.0	20	10
6095010	8 12	115.2	3.1	24.0	35	10
6095280	8 13	130.5	3.1	28.0	35	10
6095360	8 14	130.5	3.1	28.0	35	10
Code	No.	L	a	b	↔	📦
6096170	8 5/32AF	69.0	2.2	10.4		1
1965190	8 3/16AF	69.0	2.2	10.4		1
1965204	8 7/32AF	77.3	2.2	12.4		1
1965212	8 1/4AF	77.3	2.2	12.4		1
1965220	8 9/32AF	89.5	2.6	14.8		1
1965239	8 5/16AF	95.5	3.1	17.5		1
1965247	8 11/32AF	103.8	3.1	20.2		1
6096920	8 3/8AF	103.8	3.1	20.2		1
1965255	8 7/16AF	115.2	3.1	24.0		1

6

DOUBLE OPEN ENDED SPANNER SET

- To DIN 3110 ISO 3318, ISO 1085, ISO 10102
- Slim pattern, oval shaft
- GEDORE vanadium steel 31CrV3, chrome-plated
- Sets of the most used sizes
- H = set in stable plastic holder
- WVH = set in tool holder



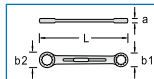
Code	No.	Contents	↔	📦
6076810	6-6	6x7 8x9 10x11 12x13 14x15 16x17	350	1
6077380	6-8	6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22	750	1
6077700	6-12	6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x26 25x28 27x32	2050	1
6078000	6-600 A	3/8x7/16 1/2x9/16 5/8x11/16 3/4x25/32 13/16x7/8 15/16x1"	850	1
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"	950	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"	1650	1



4

FLAT RING SPANNER straight pattern

- ✓ To DIN 837 Form B, ISO 3318, ISO 1085 (only metric sizes)
- ✓ GEDORE vanadium steel 31CrV3, chrome-plated
- ✓ * not standardised



Code	No.	*	L	a	b ₁	b ₂	a ₁	a ₂
6052710	4 6x7		99	4.5	10.0	11.5	10	10
6053010	4 8x9		114	5.2	13.0	14.5	15	10
6053280	4 8x10		115	5.2	13.0	16.0	18	10
6053440	4 10x11		131	5.8	16.0	17.0	28	10
6053520	4 10x13		149	6.4	16.0	20.5	35	10
6053870	4 12x13		149	6.4	19.0	20.5	35	10
6054170	4 13x15		161	7.2	20.5	23.0	50	10
6054250	4 14x15		161	7.2	21.5	23.0	50	10
6054330	4 13x17		167	7.8	20.5	25.5	60	10
6054410	4 14x17		169	7.8	21.5	25.5	60	5
6054680	4 16x17		169	7.8	24.5	25.5	65	10
6054760	4 17x19		186	8.5	25.5	28.0	80	10
6054840	4 18x19		186	8.5	27.0	28.0	80	10
6054920	4 19x22		209	9.4	28.0	32.5	115	10
6055060	4 20x22	*	209	9.4	29.5	32.5	120	10
6055140	4 19x24	*	233	10.0	28.0	35.5	140	5
6055220	4 21x23	*	233	10.0	30.5	33.5	145	5
6055300	4 22x24		233	10.0	32.5	35.5	150	10
6055490	4 24x26	*	261	10.8	35.5	38.0	190	5
6055570	4 24x27		260	10.8	35.5	39.0	200	10
6055730	4 25x28	*	289	11.6	36.5	41.0	240	1
6055650	4 24x30		290	11.6	35.5	43.5	230	10
6055810	4 27x32		320	12.6	39.0	46.0	320	5
6056030	4 30x32		320	12.6	43.5	46.0	340	5
6056110	4 30x36		357	13.8	43.5	51.5	530	1
6056380	4 32x36		357	13.8	46.0	51.5	550	1
6056460	4 36x41		391	15.0	51.5	59.0	700	1
6056540	4 41x46		431	16.2	59.0	66.0	850	1
6056620	4 46x50		473	16.5	66.0	71.5	950	1

Code	No.	L	a	b ₁	b ₂	a ₁	a ₂
1965263	4 1/4x5/16AF	108	5.1	10.3	12.9		
1965271	4 5/16x11/32AF	114	5.1	12.9	14.2		
1965298	4 3/8x7/16AF	131	5.7	15.5	17.1		
1965301	4 7/16x1/2AF	150	6.3	17.2	20.2		
1965328	4 1/2x9/16AF	150	6.3	20.2	21.8		

4

FLAT RING SPANNER SET

- ✓ Made up of sizes most in use

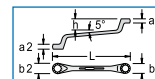


Code	No.	425	1300	1350
6061700	4-8 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22	425	1	
6062000	4-12 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22	1300	1	
6062190	4-120 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x26 25x28 27x32	1350	1	

2

DOUBLE ENDED RING SPANNER

- ✓ Rings deep offset, strong but thin walls
- ✓ To DIN 838, ISO 3318, ISO 1085, ISO 10104 (only metric sizes)
- ✓ GEDORE vanadium steel 31CrV3, chrome-plated
- ✓ * not standardised



Code	No.	*	L	a ₁	a ₂	b ₁	b ₂	h	a ₁	a ₂
6010630	2 5,5x7	*	170	5.6	6.6	10.0	12.0	20.7	55	5
6015350	2 6x7		170	5.6	6.6	10.5	12.0	20.7	50	10
6015430	2 7x8		180	5.6	6.6	12.0	13.3	21.7	65	10
6015510	2 8x9		182	6.6	7.6	13.3	14.4	21.7	65	10
6015780	2 8x10		182	6.6	8.5	13.3	15.9	21.7	65	10
6015860	2 9x11	*	195	7.6	9.5	14.4	17.5	23.6	95	10
6015940	2 10x11		195	8.5	9.5	15.9	17.5	23.6	95	10
6016080	2 10x12	*	195	8.5	9.6	15.9	19.0	23.6	95	10
6016160	2 10x13		212	8.5	10.3	15.9	20.1	25.1	110	10
6016320	2 11x13		212	9.5	10.3	17.5	20.1	25.1	110	5
6016400	2 11x14	*	212	9.5	10.6	17.5	21.6	25.1	110	5
6016590	2 12x13		212	9.6	10.3	19.0	20.1	25.1	120	10
6016670	2 12x14		212	9.6	10.6	19.0	21.6	25.1	120	5
6016750	2 13x14		225	10.3	10.6	20.1	21.6	26.1	120	5
6016830	2 13x15		225	10.3	11.3	20.1	23.1	26.1	155	5
6016910	2 14x15		225	10.6	11.3	21.6	23.1	26.1	155	10
6025310	2 13x16		235	10.3	11.6	20.1	24.2	26.1	155	5
6017050	2 13x17		245	10.3	12.3	20.1	25.8	27.1	210	5
6017130	2 14x17		245	10.6	12.3	21.6	25.8	27.1	210	5
6017210	2 16x17		245	11.6	12.3	24.2	25.8	27.1	210	10
6025660	2 16x18		265	11.6	12.6	24.2	27.0	28.6	210	5
6017480	2 17x19		265	12.3	13.0	25.8	28.8	28.6	260	10
6017560	2 18x19		265	12.6	13.0	27.0	28.8	28.6	260	10
6025740	2 18x21		285	12.6	13.4	27.0	31.1	31.0	325	5
6017720	2 19x22		287	13.0	14.3	28.8	33.0	31.0	325	5
6017800	2 20x22	*	287	13.3	14.3	30.1	33.0	31.0	325	5
6017990	2 19x24		305	13.0	14.4	28.8	35.7	33.0	410	5
6018020	2 21x23	*	305	13.4	14.3	30.9	34.0	33.0	410	5
6025820	2 21x24		307	13.4	14.4	30.9	35.7	33.0	410	1
6018100	2 22x24		307	14.3	14.4	32.8	35.7	33.0	410	10
6018290	2 22x27	*	325	14.3	15.4	32.8	40.1	34.5	475	5
6018370	2 24x26	*	325	14.4	15.3	35.7	38.0	34.5	475	5
6018450	2 24x27		325	14.4	15.4	35.7	40.1	34.5	475	10
6018530	2 24x30		345	14.4	16.4	35.7	44.1	35.5	580	5
6018610	2 25x28	*	345	14.4	15.4	37.0	41.1	35.5	580	5





Code	No.	*	L	a ₁	a ₂	b ₁	b ₂	h	🔧	📦
6018880	2 27x29	*	345	14.8	16.4	40.1	42.5	35.5	680	1
6018960	2 27x30		345	15.4	16.4	40.1	44.1	35.5	680	5
6019180	2 27x32		370	15.4	17.4	40.1	47.1	37.4	680	5
6019260	2 30x32		370	16.4	17.4	44.1	47.1	37.4	680	5
6025900	2 30x34		375	16.4	18.7	44.1	50.0	37.4	680	1
6019340	2 30x36		400	16.4	19.4	43.6	53.0	38.4	1000	1
6019420	2 32x36		400	17.4	19.4	47.1	53.0	38.4	1100	1
6026040	2 34x36		420	18.7	19.4	50.0	53.0	38.4	950	1
6019500	2 36x41		440	19.4	20.4	53.0	60.5	40.4	1210	1
6019690	2 38x42	*	440	19.7	20.4	56.4	62.5	40.4	1210	1
6019770	2 41x46		485	20.4	22.2	62.0	68.9	42.8	1600	1
6019850	2 46x50		535	22.2	23.6	68.9	75.5	47.8	2150	1
6019930	2 55x60	*	610	24.6	25.6	84.9	91.8	54.2	3150	1
6020000	2 65x70	*	685	26.6	27.6	101.4	107.4	58.1	4650	1
6020190	2 75x80	*	790	29.0	30.0	120.0	127.0	61.0	6200	1
6010980	2 85x90	*	800	29.0	30.0	120.0	127.0	61.0	7000	1

Code	No.		L	a ₁	a ₂	b ₁	b ₂	h	🔧	📦
6021400	2 1/4x5/16AF	🔧	170	6.0	7.2	11.0	13.2	20.7	50	1
6021590	2 5/16x3/8AF		180	7.2	8.2	13.2	15.2	21.7	65	1
6021670	2 3/8x7/16AF		195	8.2	9.5	15.2	17.5	23.6	95	1
6021750	2 7/16x1/2AF		212	9.5	10.0	17.5	20.0	25.1	110	1
6021830	2 1/2x9/16AF		225	10.0	10.6	20.0	22.1	26.1	155	1
6021910	2 9/16x5/8AF		225	10.6	11.6	22.1	24.2	26.1	155	1
6022050	2 19/32x11/16AF		245	11.3	12.3	22.9	26.5	27.1	210	1
6022130	2 5/8x11/16AF		245	11.6	12.3	24.2	26.5	27.1	210	1
6022210	2 5/8x3/4AF		265	11.6	13.0	24.2	29.0	28.6	260	1
6022480	2 11/16x3/4AF		265	12.3	13.0	26.5	29.0	28.6	260	1
6022560	2 3/4x25/32AF		265	13.0	13.3	29.0	30.0	28.6	260	1
6022640	2 3/4x7/8AF		285	13.0	14.3	29.0	33.3	31.0	325	1
6022720	2 25/32x13/16AF		285	13.3	13.6	30.0	31.0	31.0	325	1
6022800	2 13/16x7/8AF		285	13.6	14.3	31.0	33.3	31.0	325	1
6025580	2 7/8x1.1/16AF		325	14.3	15.8	33.3	40.1	34.5	440	1
6023020	2 15/16x1AF		325	14.8	15.0	35.7	37.5	34.5	475	1
6023100	2 1x1.1/8AF		345	15.0	16.3	37.5	42.2	35.5	580	1
6023290	2 1.1/16x1.1/8AF		345	14.8	16.4	40.0	42.5	35.5	680	1
6023370	2 1.1/16x1.1/4AF		370	15.8	17.7	40.1	47.1	37.4	680	1
6023450	2 1.1/8x1.5/16AF		370	16.7	18.2	42.5	49.2	37.4	680	1

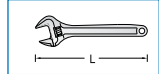
Code	No.		L	a ₁	a ₂	b ₁	b ₂	h	🔧	📦
6026550	2 1/8x3/16W	🔧	195	7.8	9.5	14.3	18.0	23.6	95	1
6026630	2 3/16x1/4W		212	9.5	10.3	18.0	20.9	25.1	110	1
6026710	2 1/4x5/16W		225	10.3	11.3	20.9	23.7	26.1	155	1
6026980	2 5/16x3/8W		245	11.3	12.6	23.7	27.0	27.1	210	1
6027280	2 3/8x7/16W		285	12.6	13.8	27.0	31.0	31.0	325	1
6027360	2 7/16x1/2W		305	13.8	14.6	31.0	34.8	33.0	410	1
6027440	2 1/2x9/16W		325	14.6	15.0	34.8	38.0	34.5	475	1
6027520	2 9/16x5/8W		345	15.0	16.3	38.0	41.0	35.5	580	1
6027600	2 9/16x11/16W		345	15.0	16.7	38.0	45.1	35.5	580	1
6027790	2 5/8x3/4W		370	16.3	18.2	41.4	48.5	37.4	680	1
6027870	2 11/16x3/4W		370	16.7	18.2	45.0	48.5	37.4	680	1
6027950	2 11/16x13/16W		400	17.7	19.7	45.5	52.0	38.4	1000	1
6028090	2 3/4x7/8W		400	18.7	20.2	48.8	55.5	38.4	1000	1
6028250	2 1x1.1/8W		485	20.4	22.2	63.5	71.0	42.8	1600	1
6028330	2 1.1/8x1.1/4W		535	22.2	23.6	71.0	78.5	47.8	2150	1



60 CP

ADJUSTABLE WRENCH open end, chrome-plated

- To DIN 3117 Form A
- Jaw set at 15°
- Swedish pattern, roller with left hand thread
- With scale



Code	No.	Size "	L	mm	"inch	Standard	🔧	📦
6380990	60 CP 6	6	155	20	25/32	0-20	150	1
6381020	60 CP 8	8	205	25	1	0-25	250	1
6381100	60 CP 10	10	255	30	1.3/16	0-30	450	1
6381290	60 CP 12	12	305	36	1.7/16	0-36	700	1

625

MAGNETO SPANNER SET 11 pieces

- Contents: 8 open ended spanners, 1 contact file, 1 screwdriver, 1 feeler gauge 0.40 mm



Code	No.	🔧	📦
6524820	625 M 4 4,5 5 5,5 6 6,5 7 7,5	50	1
6524900	625 A 3/16 7/32 1/4 9/32 5/16 11/32 3/8 7/16"	60	1



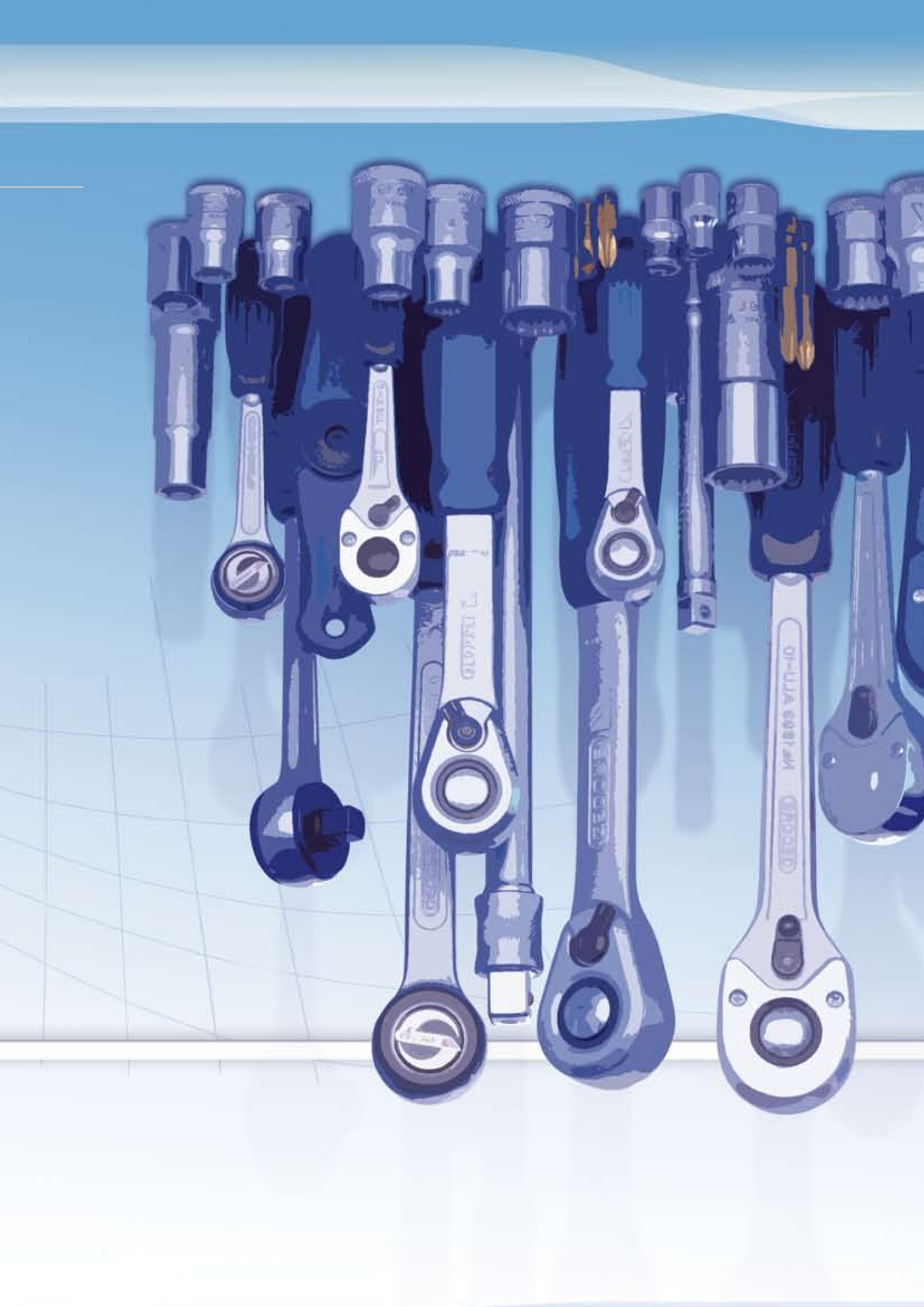
RUGGED AND VERSATILE SOCKETS

DESIGN FOR UNIVERSAL USE



overview

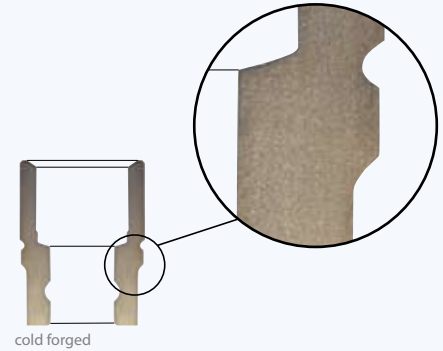
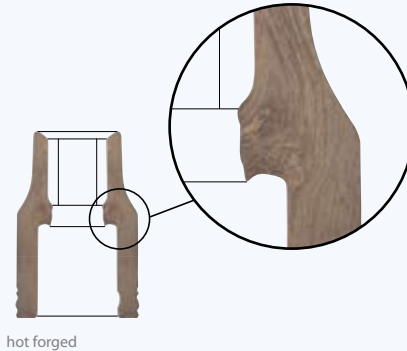
- Ratchets
- Socket sets
- Bits
- Sockets
- Accessories



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-formed tools, the fibres or lines of stress are bent. Fibre orientation is also important in the natural world. In a tree, the soft fibre orientation, adapted to the branch shape makes the wood 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



Blank cropped to size from 31CrV3



Hot forged in the forging press.



Accurately cropped to size.



Outside diameter turned and knurled. For this and the next step, GEDORE uses high-tech machinery from its in-house special mechanical engineering department.



Counterbored, square socket drive fluted (ball-stop flute), manufacturer and socket size permanently stamped.



Degreased - grease would destroy the protective gas atmosphere in hardening.



Hardened under protective gas atmosphere, followed by annealing.



Sand blasted as preparation for surface coating.

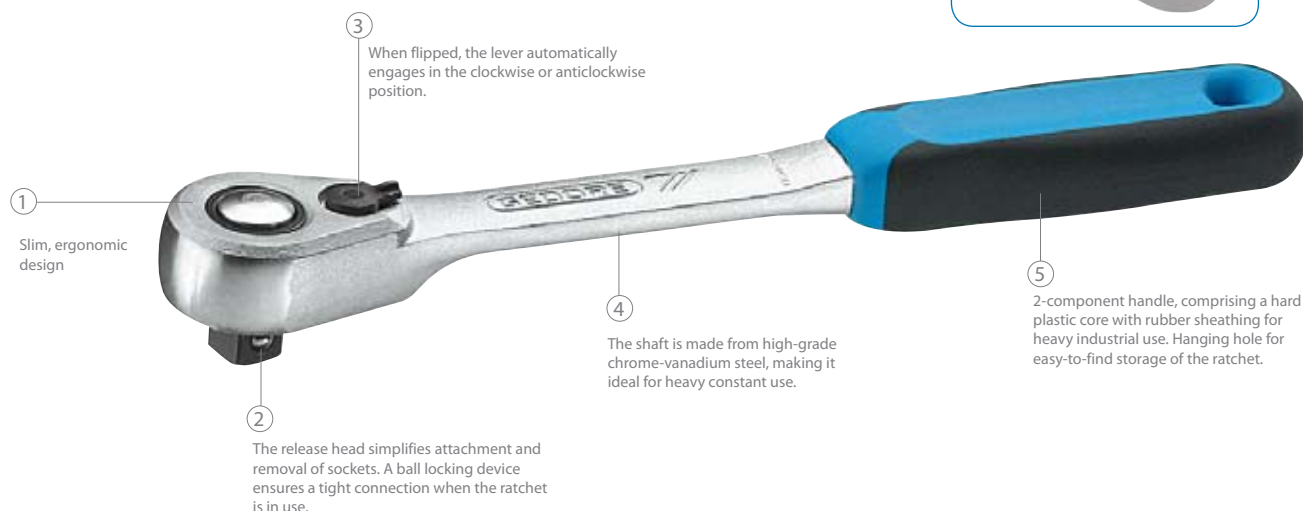


Nickel-plated and matt-chrome-plated to prevent dazzle. The electrolytically applied nickel coating ensures corrosion protection. The electroplated chrome improves the look and gives the socket a perfect finish.



U-20 RATCHETS

Design-orientated premium ratchets



SOCKETS AND RATCHETS

D 20

SOCKET 1/4" 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, polished, chrome-plated

6.3

1/4"



Code	No.	Ø mm	L	d ₁	d ₂	t	↺↻	⊞
1649558	D 20 4	4.0	24.7	6.9	12.0	2.0	15	1
1649566	D 20 4,5	4.5	24.7	7.5	12.0	2.3	15	1
1649574	D 20 5	5.0	24.7	8.2	12.0	2.5	10	1
1802402	D 20 5,5	5.5	24.7	8.8	12.0	3.0	12	1
1649582	D 20 6	6.0	24.7	9.4	12.0	3.5	11	1
1649590	D 20 7	7.0	24.7	11.0	12.0	4.0	11	1
6225750	D 20 8	8.0	24.7	12.0	12.0	5.0	15	5
6225830	D 20 9	9.0	24.7	13.0	13.0	5.0	15	1
6226050	D 20 10	10.0	24.7	14.7	14.7	6.0	20	5
6226130	D 20 11	11.0	24.7	16.0	16.0	7.0	25	1
6226480	D 20 12	12.0	24.7	17.0	17.0	8.0	25	1
6226640	D 20 13	13.0	24.7	18.5	18.5	8.0	30	5
6226720	D 20 14	14.0	24.7	19.7	19.7	10.0	40	1

Code	No.	Ø AF	L	d ₁	d ₂	t	↺↻	⊞
1812505	D 20 3/16AF	3/16	24.7	7.8	12.0	2.5	11	1
1812513	D 20 7/32AF	7/32	24.7	8.8	12.0	3.0	12	1
1812521	D 20 1/4AF	1/4	24.7	9.8	12.0	3.5	13	1
1812548	D 20 9/32AF	9/32	24.7	11.0	12.0	4.0	14	1
6226800	D 20 5/16AF	5/16	24.7	12.0	12.0	5.0	15	1
6226990	D 20 11/32AF	11/32	24.7	13.0	13.0	5.0	15	1
6227020	D 20 3/8AF	3/8	24.7	14.0	14.0	6.0	15	1
1901702	D 20 13/32AF	13/32	24.7	15.0	15.0	6.0	20	1
6227370	D 20 7/16AF	7/16	24.7	16.0	16.0	7.0	25	1
6227450	D 20 1/2AF	1/2	24.7	18.0	18.0	8.0	30	1
6228180	D 20 9/16AF	9/16	24.7	20.0	20.0	10.0	40	1

D 20 L

SOCKET 1/4" long, UD profile

6.3

1/4"



Code	No.	Ø AF	L	d ₁	d ₂	t	↺↻	⊞
1965433	D 20 L 3/16AF	3/16	50	7.8	11.0	3.7		1
1965476	D 20 L 7/32AF	7/32	50	8.8	11.0	4.5		1
1965417	D 20 L 1/4AF	1/4	50	9.8	11.0	5.2		1
1965484	D 20 L 9/32AF	9/32	50	11.0	11.0	6.0		1
1965441	D 20 L 5/16AF	5/16	50	12.0	11.0	7.5		1
1965492	D 20 L 11/32AF	11/32	50	13.0	11.0	7.5		1
1965425	D 20 L 3/8AF	3/8	50	14.0	11.0	9.0		1
1965468	D 20 L 7/16AF	7/16	50	16.0	11.0	10.5		1
1965409	D 20 L 1/2AF	1/2	50	18.0	11.0	12.0		1

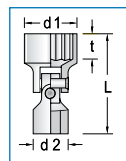
DG 20

SWIVEL HEAD SOCKET 1/4" UD profile

- Square drive
- Hand-operated
- Chrome-plated

6.3

1/4"



Code	No.	Ø AF	L	d ₁	d ₂	t	↺↻	⊞
1965336	DG 20 1/4AF	1/4	38.0	9.8	14.0	3.5		1
1965344	DG 20 5/16AF	5/16	38.0	12.0	14.0	5.0		1
1965352	DG 20 3/8AF	3/8	39.0	14.0	14.0	6.0		1
1965360	DG 20 7/16AF	7/16	41.0	16.0	14.0	7.0		1
1965379	DG 20 1/2AF	1/2	42.0	18.0	14.0	8.0		1
1965387	DG 20 9/16AF	9/16	43.5	20.0	14.0	9.0		1

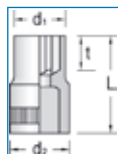
TX 20

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, polished, chrome-plated
- ✓ TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

6.3

1/4"



Code	No.	Ø	Form	mm	L	d ₁	d ₂	t	±	°
6193880	TX 20 E4	E4	M3	3.86	25	5.5	11	4.5	10	5
6187640	TX 20 E5	E5	M4	4.75	25	7.0	11	5.0	10	5
6187720	TX 20 E6	E6	M5	5.74	25	8.0	11	5.0	10	5
6187800	TX 20 E7	E7	M6	6.22	25	9.5	11	6.0	10	5
6187990	TX 20 E8	E8	M6 - M7	7.52	25	10.5	12	6.5	15	5
6193960	TX 20 E10	E10	M8	9.42	25	13.0	13	7.0	15	5

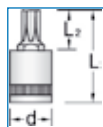
ITX 20

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, with pressed-in pin, gun-metal finish
- ✓ TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

6.3

1/4"



Code	No.	Ø	Form	mm	L ₁	L ₂	d	±	°
6190430	ITX 20 T8	T8	M2,5	2.31	30.5	14.5	12	10	10
6190510	ITX 20 T9	T9	M3	2.50	30.5	14.5	12	10	10
6190780	ITX 20 T10	T10	M3 - M3,5	2.74	30.5	14.5	12	10	10
6190860	ITX 20 T15	T15	M3,5 - M4	3.27	30.5	14.5	12	10	10
6190940	ITX 20 T20	T20	M4 - M5	3.86	30.5	14.5	12	10	10
6191080	ITX 20 T25	T25	M4,5 - M5	4.43	30.5	14.5	12	10	10
6191160	ITX 20 T27	T27	M4,5 - M6	4.99	30.5	14.5	12	10	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	20	10

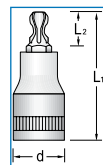
ITX 20 K

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, with pressed-in pin, gun-metal finish
- ✓ Swivel angle approx. 15°-20°
- ✓ TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

6.3

1/4"



Code	No.	Ø	Form	mm	L ₁	L ₂	d	±	°
6120220	ITX 20 K T10	T10	M3 - M3,5	2.74	30.5	14.5	12	20	1
6120300	ITX 20 K T15	T15	M3,5 - M4	3.27	30.5	14.5	12	20	1
6120490	ITX 20 K T20	T20	M4 - M5	3.86	30.5	14.5	12	20	1
6120570	ITX 20 K T25	T25	M4,5 - M5	4.43	30.5	14.5	12	20	1
6120650	ITX 20 K T27	T27	M4,5 - M6	4.99	30.5	14.5	12	20	1
6120730	ITX 20 K T30	T30	M6 - M7	5.52	30.5	14.5	12	20	1
6120810	ITX 20 K T40	T40	M7 - M8	6.65	33.5	14.0	14	20	1

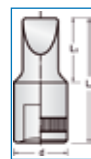
IS 20

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, chrome-plated
- ✓ Bit as per DIN ISO 2380-1, Form B, manganese-phosphated

6.3

1/4"



Code	No.	mm	mm	L ₁	L ₂	d	±	°
6171560	IS 20 4x0,8	0.8	4.0	28	14.5	12	20	10
6171640	IS 20 5,5x1	1.0	5.5	28	14.5	12	20	10
6174230	IS 20 6,5x1,2	1.2	6.5	28	14.5	12	20	10
6174310	IS 20 8x1,6	1.6	8.0	28	14.5	12	20	10

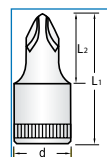
IKS 20

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, chrome-plated
- ✓ Bit as per DIN ISO 8764-1 PH, manganese-phosphated

6.3

1/4"



Code	No.	PH	L ₁	L ₂	d	±	°
6174580	IKS 20 1	1	28	15	12	20	10
6174660	IKS 20 2	2	28	15	12	20	10
6174740	IKS 20 3	3	28	15	12	20	10
6174820	IKS 20 4	4	28	15	12	20	10

INS 20 PM

SCREWDRIVER BIT SOCKET SET 1/4" 15 pieces

- ✓ In plastic case
- ✓ Dimensions: 160 x 95 x 38 mm

6.3

1/4"



Code	No.	°	°
1815601	INS 20 PM	275	1
	● IN 20 3 4 5 6 8		
	● IS 20 4 5,5 6,5 8		
	● IKS 20 1 2 3		
	● IKS 20 PZD 1 2 3		





ITX 20 TX-015

SCREWDRIVER BIT SOCKET SET 1/4" 15 pieces

- In plastic case
- Dimensions: 160 x 95 x 38 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

6,3

1/4"



Code	No.	mm	1
1815628	ITX 20 TX-015 ● ITX 20 T8 T9 T10 T15 T20 T25 T27 T30 T40 ● TX 20 E4 E5 E6 E7 E8 E10	295	1

IN 20 L

SCREWDRIVER BIT SOCKET 1/4" long, 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, chrome-plated, bit manganese-phosphated

6,3

1/4"



Code	No.	mm	L ₁	L ₂	d	mm	1
1933256	IN 20 L 3-60	3	60	28	12	24	1
1933264	IN 20 L 4-60	4	60	28	12	25	1
1933272	IN 20 L 5-60	5	60	28	12	27	1
1933280	IN 20 L 6-60	6	60	28	12	29	1
1933299	IN 20 L 8-60	8	60	28	14	50	1

ITX 20 PM

SCREWDRIVER BIT SOCKET SET 1/4" 9 pieces

- In plastic case
- Dimensions: 110 x 65 x 31 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

6,3

1/4"



Code	No.	mm	1
1815636	ITX 20 PM ● ITX 20 T8 T9 T10 T15 T20 T25 T27 T30 T40	200	1

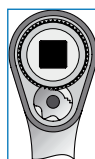
2093 U-20

REVERSIBLE RATCHET 1/4"

- Acc. to DIN 3122, ISO 3315
- 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

6,3

1/4"



Code	No.	"		°	mm			
1703749	2093 U-20	1/4	6.3	9	127	20	91	1

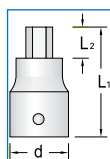
IN 20

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, chrome-plated, bit, manganese-phosphated
- * not standardised

6,3

1/4"



Code	No.	*	mm	L ₁	L ₂	d	mm	1
1812556	IN 20 2	*	2.0	28	4.5	12	12	1
1707736	IN 20 2,5	*	2.5	28	5.0	12	13	1
6176010	IN 20 3		3.0	28	5.5	12	20	10
6176280	IN 20 4		4.0	28	7.0	12	20	10
6176360	IN 20 5		5.0	28	8.0	12	20	10
6178490	IN 20 6		6.0	28	8.5	12	25	10
6178570	IN 20 8	*	8.0	28	10.0	12	25	10



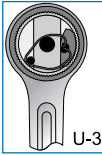
2093 U-3

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

6.3

1/4"



Code	No.	■"	■	↺°	↻mm	↻	↻
6170590	2093 U-3	1/4	6.3	5	129	25	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

6.3

1/4"



Code	No.	■"	■	↺°	↻mm	↻	↻
6069870	2093 HR-94	1/4	6.3	18	28		1



2093 U-3 T

RATCHET WITH T-HANDLE 1/4"

- With metal reversing disc and fine-toothed ratchet wheel
- For hand-operated sockets and accessories with square drive as per DIN 3120 - C 6.3, ISO 1174, ball locking device

6.3

1/4"



Code	No.	■"	■	↺°	↻mm	↻	↻
1791532	2093 U-3 T	1/4	6.3	5	140	56	1



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, ball locking device

6.3

1/4"



Code	No.	■"	■	↺°	↻mm	↻	↻
6170160	2087	1/4	6.3		115	40	5

2087 A

SLIDING T BAR WITH RELEASE 1/4"

- Secured against unintentional removal
- Turn handle for easy locking and releasing
- An unintentional release during work is averted because of the asymmetrical detachment point
- Particularly useful for work in sensitive areas where certainty against loss is a theme
- Examples: Airplane engine, work in deep machine bodies
- DBGM

6.3

1/4"



Code	No.	■"	■	↺°	↻mm	↻	↻
1834398	2087 A	1/4	6.3		115	38	1



2088

FLEXIBLE EXTENSION 1/4"

- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, ball locking device

6,3

1/4"



Code	No.	■"	■	↳ mm	↳ mm	↳ mm
6170240	2088	1/4	6.3	120	45	10

2090

EXTENSION 1/4"

- Acc. to DIN 3123, ISO 3316
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, ball locking device
- * not standardised

6,3

1/4"



Code	No.	*	■"	■	↳ mm	↳ mm	↳ mm
6170320	2090-2		1/4	6.3	55	25	10
6170400	2090-4		1/4	6.3	97	45	10
6171210	2090-6		1/4	6.3	148	50	10
6173340	2090-12	*	1/4	6.3	305	120	1

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

6,3

1/4"



Code	No.	■"	■	↳ mm	↳ mm	↳ 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"

- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, ball locking device
- The extension is able to pivot up to 15°

6,3

1/4"



Code	No.	■"	■	↳ mm	↳ mm	↳ mm
1812564	2090 KR-2	1/4	6.3	55	25	1
1812572	2090 KR-4	1/4	6.3	97	45	1
6121030	2090 KR-6	1/4	6.3	148	60	1

2094

COUPLER 1/4"

- Acc. to DIN 3122, ISO 3315
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, ball locking device

6,3

1/4"



Code	No.	■"	■	↳ mm	↳ mm	↳ mm
6170830	2094	1/4	6.3	19.8	5	10

2095

UNIVERSAL JOINT 1/4"

- Acc. to DIN 3123, ISO 3316
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, ball locking device

6,3

1/4"



Code	No.	■"	■	□"	□	↳ mm	↳ mm	↳ mm
6170910	2095	1/4	6.3	1/4	6.3	38	20	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, ball locking device

6,3

1/4"



Code	No.	■"	■	↳ mm	↳ mm	↳ mm
6171050	2097	1/4	6.3	146	75	1

2098

DRIVING HANDLE 1/4"

- Acc. to DIN 3122, ISO 3315
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, ball locking device

6,3

1/4"



Code	No.	■"	■	↳ mm	↳ mm	↳ mm
6171480	2098	1/4	6.3	140	70	10

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

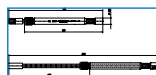
6,3

1/4"

6,3

1/4"

Ω



Code	No.	□"	□	○"	○	↳ mm	↳ mm	↳ mm
1888455	2099	1/4	6.3	1/4	6.3	186-296	205	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 L 134 x W 51 x H 51 mm
- Please take note of the maximum capacity of the external squares of the reducers acc. to DIN 3123, ISO 3316

6.3

1/4"

10

3/8"

12.5

1/2"

20

3/4"



Code	No.	Contents	335	1
1729071	S 2032-05	2030 1930 3020 3019 1932		

20 EAU

SOCKET SET 1/4" INCH 14 pieces

6.3

1/4"

10



Code	No.	700
6172450	20 EAU-3 U-3 2093 U-3 O 20 3/16 7/32 1/4 9/32 5/16 11/32 3/8 7/16 1/2" 2087 2090-4 2095 2098	

D 30

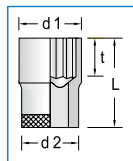
SOCKET 3/8" UD profile

- Acc. to DIN 3124, ISO 2725-1
- Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- Hand-operated, polished, chrome-plated
- * not standardised

10

3/8"

UNIT DRIVE



Code	No.	*	mm	L	d ₁	d ₂	t	10	5
1845705	D 30 6	*	6	28	9.7	17.5	5.0	20	10
1845713	D 30 7		7	28	11.0	17.5	5.0	22	10
1845721	D 30 8		8	28	12.1	17.5	9.0	24	10
1845748	D 30 9		9	28	13.5	17.5	9.0	26	10
6229230	D 30 10		10	28	14.7	17.5	9.0	30	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	35	10

Code	No.	*	mm	L	d ₁	d ₂	t	10	5
6230910	D 30 14		14	29	19.7	18.4	11.0	40	5
6231050	D 30 15		15	30	21.0	19.7	12.5	42	5
6231130	D 30 16		16	30	22.2	21.0	12.5	48	5
6231210	D 30 17		17	30	23.5	22.3	12.5	55	10
6231480	D 30 18		18	30	24.7	23.0	12.5	60	5
6231560	D 30 19		19	30	26.0	23.7	12.5	70	10
6231640	D 30 20		20	31	27.2	24.5	12.5	75	5
6231720	D 30 21		21	31	28.5	25.8	13.5	82	5
6231800	D 30 22		22	32	29.7	26.3	14.5	85	5

Code	No.	mm	L	d ₁	d ₂	t	10	5
1997122	D 30 5/16AF	5/16	28	12.1	17.5	5.0		1
1997130	D 30 3/8AF	3/8	28	14.1	17.5	9.0		1
1997149	D 30 13/32AF	13/32	28	15.0	17.5	9.0		1
6232610	D 30 7/16AF	7/16	28	16.1	17.5	9.0	30	1
6232880	D 30 1/2AF	1/2	28	18.1	19.2	9.0	35	1
6232960	D 30 9/16AF	9/16	29	20.1	18.7	11.0	40	1
6233180	D 30 19/32AF	19/32	30	21.0	19.7	12.5	42	1
6233260	D 30 5/8AF	5/8	30	22.1	20.7	12.5	48	1
6233340	D 30 11/16AF	11/16	30	24.0	22.7	12.5	55	1
6233420	D 30 3/4AF	3/4	30	26.0	23.7	12.5	70	1
1997157	D 30 25/32AF	25/32	31	27.0	24.3	12.5		1
1997165	D 30 13/16AF	13/16	31	28.0	25.3	12.5		1
6232020	D 30 7/8AF	7/8	32	30.0	26.5	14.5	100	1
1997173	D 30 15/16AF	15/16	33	31.9	28.0	15.5		1
1983296	D 30 1AF	1	33	33.9	30.0	15.5		1

D 30 L

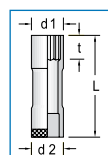
SOCKET 3/8" long, UD profile

- Acc. to DIN 3124, ISO 2725-1
- Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- Hand-operated, polished, chrome-plated

10

3/8"

UNIT DRIVE



Code	No.	mm	L	d ₁	d ₂	t	10	5
6258330	D 30 L 10	10	63.5	14.7	17.5	11	50	10
6258410	D 30 L 11	11	63.5	16.0	17.5	12	60	5
6258680	D 30 L 12	12	63.5	17.2	17.5	14	65	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	85	5
6258920	D 30 L 15	15	63.5	21.0	20.5	17	85	5
6259060	D 30 L 16	16	63.5	22.2	22.0	17	95	5
6259140	D 30 L 17	17	63.5	23.5	20.5	17	105	5
6259220	D 30 L 18	18	63.5	24.7	21.5	20	110	5
6259300	D 30 L 19	19	63.5	26.0	22.0	20	120	5
6259490	D 30 L 20	20	63.5	27.2	23.5	20	135	1
6259570	D 30 L 21	21	63.5	28.5	23.5	20	145	1
6259650	D 30 L 22	22	63.5	29.7	23.5	23	160	1

Code	No.	mm	L	d ₁	d ₂	t	10	5
6259730	D 30 L 3/8AF	3/8	63.5	14.1	17.5	11	50	1
6259810	D 30 L 7/16AF	7/16	63.5	16.1	17.5	12	60	1
6260070	D 30 L 1/2AF	1/2	63.5	18.1	19.0	14	70	1
6260150	D 30 L 9/16AF	9/16	63.5	20.1	19.5	17	85	1
6260230	D 30 L 5/8AF	5/8	63.5	22.1	22.0	17	95	1
6260310	D 30 L 11/16AF	11/16	63.5	24.0	20.5	17	105	1
6260580	D 30 L 3/4AF	3/4	63.5	26.0	22.0	20	135	1
6260660	D 30 L 13/16AF	13/16	63.5	28.3	23.5	20	145	1
6260740	D 30 L 7/8AF	7/8	63.5	30.0	23.5	23	160	1



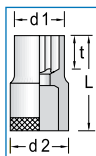
TX 30

SOCKET 3/8" for protruding TORX® head screws

- ✓ Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- ✓ Hand-operated, polished, chrome-plated
- ✓ TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

10

3/8"



Code	No.	Ø	mm	mm	L	d ₁	d ₂	t	±	°
6250270	TX 30 E5	E5	M4	4.75	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	6.22	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	25	5
6250780	TX 30 E10	E10	M8	9.42	28	13.2	17.5	9.0	30	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	30	5
6251080	TX 30 E14	E14	M12	12.90	28	16.8	18.3	9.0	35	5

ITX 30 L

SCREWDRIVER BIT SOCKET 3/8" long, for recessed TORX® head screws

- ✓ Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- ✓ Hand-operated, with pressed-in pin, gun-metal finish
- ✓ TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

10

3/8"



Code	No.	Ø	mm	mm	L ₁	L ₂	d	±	°
1394177	ITX 30 L T20	T20	M4 - M5	3.86	94	62	17.5	45	5
1394185	ITX 30 L T25	T25	M4,5 - M5	4.43	94	62	17.5	45	5
1394193	ITX 30 L T27	T27	M4,5 - M6	4.99	94	62	17.5	45	5
1394207	ITX 30 L T30	T30	M6 - M7	5.52	94	62	17.5	45	5
1394215	ITX 30 L T40	T40	M7 - M8	6.65	94	62	17.5	45	5
1394223	ITX 30 L T45	T45	M8 - M10	7.82	94	62	17.5	50	5
1394231	ITX 30 L T50	T50	M10	8.83	94	62	19.0	70	5

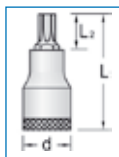
ITX 30

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, with pressed-in pin, gun-metal finish
- ✓ TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

10

3/8"



Code	No.	Ø	mm	mm	L ₁	L ₂	d	±	°
6246320	ITX 30 T20	T20	M4 - M5	3.86	49	17	17.5	45	5
6246830	ITX 30 T25	T25	M4,5 - M5	4.43	49	17	17.5	45	5
6247210	ITX 30 T27	T27	M4,5 - M6	4.99	49	17	17.5	45	5
6247560	ITX 30 T30	T30	M6 - M7	5.52	49	17	17.5	45	5
6247720	ITX 30 T40	T40	M7 - M8	6.65	49	17	17.5	45	5
6247800	ITX 30 T45	T45	M8 - M10	7.82	49	17	17.5	50	5
6247990	ITX 30 T50	T50	M10	8.83	49	17	19.0	70	5

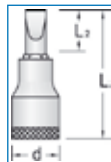
IS 30

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, chrome-plated
- ✓ With pressed-in pin, blade as per DIN ISO 2380-1, Form B, manganese-phosphated

10

3/8"



Code	No.	mm	mm	L ₁	L ₂	d	±	°
6666100	IS 30 5,5x1	1.0	5.5	55	27	17.5	45	5
1640895	IS 30 6,5x1,2	1.2	6.5	55	27	17.5	45	1
6666290	IS 30 8x1,2	1.2	8.0	55	23	17.5	50	5
6666370	IS 30 10x1,6	1.6	10.0	55	23	19.0	55	5
1640909	IS 30 12x2	2.0	12.0	55	23	20.5	80	1

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, with pressed-in pin, gun-metal finish
- ✓ TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

10

3/8"



Code	No.	Ø	mm	mm	L ₁	L ₂	d	Bore	±	°
1440969	ITX 30 B T20	T20	M4 - M5	3.86	49	17	17.5	1,55 x 1,86	47	5
1440977	ITX 30 B T25	T25	M4,5 - M5	4.43	49	17	17.5	1,93 x 2,04	47	5
1440985	ITX 30 B T27	T27	M4,5 - M6	4.99	49	17	17.5	2,18 x 2,29	46	5
1440993	ITX 30 B T30	T30	M6 - M7	5.52	49	17	17.5	2,56 x 2,92	84	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	65	5
1441019	ITX 30 B T50	T50	M10	8.83	49	17	20.5	3,83 x 3,78	77	5

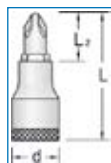
IKS 30

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, chrome-plated
- ✓ With pressed-in pin, tip as per DIN ISO 8764-1 PH, gun-metal finish

10

3/8"



Code	No.	Ø PH	L ₁	L ₂	d	±	°
6666610	IKS 30 1	1	55	27	17.5	35	5
6666880	IKS 30 2	2	55	23	17.5	45	5
6666960	IKS 30 3	3	55	23	19.0	50	5

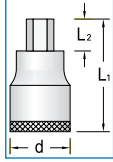
IN 30

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, chrome-plated
- With pressed-in pin, bit manganese-phosphated
- * not standardised

10

3/8



Code	No.	*	mm	L ₁	L ₂	d	°	mm
6241010	IN 30 4		4	47	19	17.5	43	10
6241280	IN 30 5		5	47	19	17.5	44	10
6241360	IN 30 6		6	47	19	17.5	45	10
1643037	IN 30 7	*	7	47	19	17.5	46	1
6241440	IN 30 8		8	49	17	17.5	47	10
6242920	IN 30 10		10	49	17	19.0	60	10

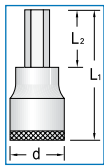
IN 30 L

SCREWDRIVER BIT SOCKET 3/8" long, for in-hex screws

- Acc. to DIN 7422
- Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- Hand-operated, chrome-plated
- With pressed-in pin, bit manganese-phosphated

10

3/8



Code	No.	mm	L ₁	L ₂	d	°	mm
1510118	IN 30 L 4-95	4	95	67	17.5	44	10
1394347	IN 30 L 5-95	5	95	67	17.5	44	10
1394355	IN 30 L 6-95	6	95	67	17.5	44	10
1394363	IN 30 L 7-95	7	95	67	17.5	44	10
1394371	IN 30 L 8-95	8	95	63	17.5	44	10
1394398	IN 30 L 10-95	10	95	63	19.0	44	10

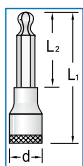
IN 30 LK

SCREWDRIVER BIT SOCKET 3/8" long, with ball end, for in-hex screws

- Total swivel angle approx. 15°-20°
- Square drive as per DIN 3120 - C 10, ISO 1174, with ball retaining groove
- Hand-operated, chrome-plated
- With pressed-in pin, bit gun-metal finished

10

3/8



Code	No.	mm	L ₁	L ₂	d	°	mm
1505718	IN 30 LK 4	4	132	104	17.5	44	10
1505726	IN 30 LK 5	5	132	104	17.5	51	10
1505742	IN 30 LK 6	6	132	104	17.5	59	10
1505750	IN 30 LK 8	8	134	102	17.5	88	10
1505769	IN 30 LK 10	10	134	102	19.0	126	10

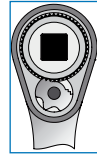
3093 U-20

REVERSIBLE RATCHET 3/8"

- Acc. to DIN 3122, ISO 3315
- 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

10

3/8



Code	No.	mm	°	mm	mm	mm	mm
1556800	3093 U-20	3/8	10	6	200	29.7	320

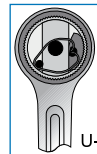
3093 U-3

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

10

3/8



Code	No.	mm	°	mm	mm	mm	mm
6237090	3093 U-3	3/8	10	5	200	33.5	200

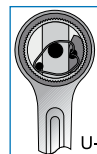
3093 GU-3

SWIVEL HEAD REVERSIBLE RATCHET 3/8"

- Swivels through 180°, with joint lock
- Fine-toothed, 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

10

3/8



Code	No.	mm	°	mm	mm	mm	mm
6237170	3093 GU-3	3/8	10	5	282	33.5	350



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 ball locking device
- Load capacity as per size 10 (3/8")

10 3/8"
12.5 1/2"



Code	No.	□"	□	■"	■	↳ mm	↺	↻
6236010	3019	3/8	10	1/2	12.5	35	50	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 ball locking device

10 3/8"



Code	No.	□"	■	↳ mm	↺	↻
6236360	3081	3/8	10	180	150	1

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 ball locking device

10 3/8"



Code	No.	□"	■	↳ mm	↺	↻
6236440	3084	3/8	10	288	440	1
1965395	3084 L	3/8	10	463		1

3084 L

SPEED BRACE 3/8" long

- Acc. to DIN 3122, ISO 3315
- For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174 ball locking device

10 3/8"



Code	No.	□"	■	↳ mm	↺	↻
1965395	3084 L	3/8	10	463		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 ball locking device

10 3/8"



Code	No.	□"	■	↳ mm	↺	↻
6236520	3087	3/8	10	163	125	5

3087 A

SLIDING T BAR WITH RELEASE 3/8"

- Secured against unintentional removal
- Turn handle for easy locking and releasing
- An unintentional release during work is averted because of the asymmetrical detachment point
- Particularly useful for work in sensitive areas where certainty against loss is a theme
- Examples: Airplane engine, work in deep machine bodies
- DBGM

10 3/8"



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 ball locking device

10 3/8"



Code	No.	□"	■	↳ mm	↺	↻
1476637	3090-2	3/8	10	50	70	5
6236600	3090-3	3/8	10	76	70	5
6236790	3090-5	3/8	10	125	110	5
1476645	3090-7	3/8	10	180	70	5
6236870	3090-10	3/8	10	250	200	5
6238570	3090-12	3/8	10	305	260	5
1476653	3090-20	3/8	10	500	330	1

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 ball locking device

10 3/8"



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"

- For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174 ball locking device
- The extension is able to pivot up to 15°

10

3/8"



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 ball locking device

10

3/8"



Code	No.	■"	■	↳mm↳	↺↻	📦
6237760	3094	3/8	10	28.8	10	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 ball locking device

10

3/8"



Code	No.	■"	■	□"	□	↳mm↳	↺↻	📦
6238140	3095	3/8	10	3/8	10	51	60	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 ball locking device

10

3/8"



Code	No.	■"	■	↳mm↳	↺↻	📦
6238220	3096	3/8	10	254	240	5

3098

SWIVEL HANDLE 3/8"

- For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174 ball locking device

10

3/8"



Code	No.	■"	■	↳mm↳	↺↻	📦
6182410	3098	3/8	10	450	1000	1

D 30 DAU

SOCKET SET 3/8" INCH 12 pieces

10

3/8"

UNIT DRIVE



Code	No.	↺↻	pieces
6239030	D 30 DAU-10 ● U-10 3093 U-10 ○ 30 1/4 5/16 11/32 3/8" ⊗ D 30 7/16 1/2 9/16 5/8 11/16 3/4" ↳ 3090-5	1005	12

D 30 GAU

SOCKET SET 3/8" INCH 17 pieces

10

3/8"

UNIT DRIVE



Code	No.	↺↻	pieces
6240390	D 30 GAU-3 ● U-3 3093 U-3 ○ 30 1/4 9/32 5/16 11/32 3/8" ⊗ D 30 7/16 1/2 9/16 19/32 5/8 11/16 3/4" ↳ 3087 ↳ 3090-5 -10 ↳ 3095	1860	17
6239540	D 30 GAU-10 ● U-10 3093 U-10 ○ 30 1/4 9/32 5/16 11/32 3/8" ⊗ D 30 7/16 1/2 9/16 19/32 5/8 11/16 3/4" ↳ 3087 ↳ 3090-5 -10 ↳ 3095	1880	17

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 Bauer + Schaurte

10

3/8"

INBUS



Code	No.	↺↻	📦
1509918	IN 30 LKM ● IN 30 4 5 6 8 10 ● IN 30 L 4 5 6 8 10	765	1



ITX 30 PM

SCREWDRIVER BIT SOCKET SET 3/8" 7 pieces

- For recessed TORX® screws
- In blue sheet steel case
- Dimensions: 210 x 70 x 32 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

10

3/8



Code	No.		
1509926	ITX 30 PM • ITX 30 T20 T25 T27 T30 T40 T45 T50	585	1

TX 30 E-08

SCREWDRIVER BIT SOCKET SET 3/8" 8 pieces

- For protruding TORX® screws
- In GEDORIT blue sheet steel case
- Dimensions: 210 x 70 x 32 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

10

3/8



Code	No.		
1509934	TX 30 E-08 • TX 30 E5 E6 E7 E8 E10 E11 E12 E14	450	1

ITX 30 LKP

SCREWDRIVER BIT SOCKET SET 3/8" 14 pieces

- For recessed TORX® screws, short and long
- In plastic case
- Dimensions: 210 x 120 x 38 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

10

3/8



Code	No.		
1509950	ITX 30 LKP • ITX 30 T20 T25 T27 T30 T40 T45 T50 • ITX 30 L T20 T25 T27 T30 T40 T45 T50	1065	1

30 TX 20

SCREWDRIVER BIT SOCKET SET 1/4"-3/8" 28 pieces

- 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

6,3

1/4

10

3/8



Code	No.		
1509969	30 TX 20 • ITX 30 T25 T27 T30 T40 T45 T50 • ITX 30 L T20 T25 T27 T30 T40 T45 T50 • TX 30 E8 E10 E11 E12 E14 • ITX 20 T8 T9 T10 T15 T20 • TX 20 E4 E5 E6 E7 2030	1465	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

10

3/8



Code	No.		
1509942	ITX 30 TX-015 • ITX 30 T20 T25 T27 T30 T40 T45 T50 • TX 30 E5 E6 E7 E8 E10 E11 E12 E14	803	1



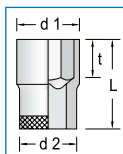
19

SOCKET 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, polished, chrome-plated
- * not standardised

12.5

1/2"



Code	No.	*	Ø mm	L	d ₁	d ₂	t	±	±
6130020	198		8	38.0	13.0	22.5	13.5	45	10
6130100	199	*	9	38.0	14.2	22.5	13.5	48	10
6130290	1910		10	38.0	15.5	22.5	13.5	50	10
6130370	1911		11	38.0	16.7	22.5	12.5	53	10
6130450	1912		12	38.0	18.0	22.5	12.5	55	10
6130530	1913		13	38.0	19.2	22.5	12.5	60	10
6130610	1914		14	38.0	20.5	22.5	12.5	62	10
6130880	1915		15	39.5	21.7	23.8	15.0	65	10
6130960	1916		16	39.5	22.5	23.8	15.0	68	10
6131180	1917		17	39.5	24.0	22.5	15.0	70	10
6131260	1918		18	39.5	25.5	23.0	17.0	72	10
6131340	1919		19	40.0	26.7	24.2	17.0	80	10
6131420	1920		20	40.0	28.0	25.5	17.0	85	10
6131500	1921		21	41.5	29.2	26.0	18.5	95	10
6131690	1922		22	41.5	30.5	26.3	18.5	100	10
6131770	1923	*	23	41.5	31.7	27.5	18.5	105	10
6131850	1924		24	41.5	33.0	28.0	18.5	110	10
6131930	1925	*	25	41.5	34.2	28.8	18.5	120	10
6132070	1926	*	26	41.5	35.5	29.4	18.5	130	10
6132150	1927		27	41.5	36.7	30.0	18.5	150	10
6132230	1928	*	28	43.0	38.0	30.5	20.0	165	10
6132310	1929	*	29	43.0	39.2	31.2	20.0	180	10
6132580	1930		30	43.0	40.5	32.5	20.5	200	10
6132740	1932		32	44.5	43.0	34.5	22.5	210	10
6138270	1934		34	44.5	45.5	37.0	22.5	260	10
1718711	1936	*	36	44.5	48.0	38.0	22.5	260	10

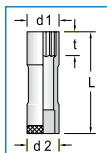
D 19 L

SOCKET 1/2" long, 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, polished, chrome-plated
- Sizes 16, 18, 21 with Ø 8 mm hole drilled for tommy bar

12.5

1/2"



Code	No.	Ø mm	L	d ₁	d ₂	t	±	±
6141140	D 19 L 10	10	77.0	15.5	22.5	12.0	85	10
6141220	D 19 L 12	12	77.0	18.0	22.5	14.0	90	10
6140170	D 19 L 13	13	77.0	19.2	22.5	16.0	105	10
6140250	D 19 L 14	14	77.0	20.5	22.5	17.0	125	10
6142460	D 19 L 15	15	77.0	21.7	22.5	17.0	110	10
6142540	D 19 L 16	16	77.0	23.0	24.0	18.0	120	10
6140330	D 19 L 17	17	77.0	24.0	24.0	18.0	140	10
6142380	D 19 L 18	18	82.0	25.5	25.0	20.0	145	10
6140410	D 19 L 19	19	82.0	26.7	26.0	22.0	165	10
6140680	D 19 L 21	21	82.0	29.2	28.5	24.0	205	10

Code	No.	Ø mm	L	d ₁	d ₂	t	±	±
6145050	D 19 L 22	22	82.0	30.5	28.5	24.0	200	10
6140760	D 19 L 24	24	82.0	33.0	29.0	26.0	250	10
6141060	D 19 L 27	27	82.0	36.7	30.0	30.0	270	10
6145640	D 19 L 30	30	82.0	40.5	32.5	33.0	330	10
6191320	D 19 L 32	32	82.0	43.0	34.5	36.0	410	10
6147500	D 19 L 34	34	82.0	45.5	36.5	37.0	500	5

Code	No.	Ø AF	L	d ₁	d ₂	t	±	±
6141300	D 19 L 1/2AF	1/2	77.0	18.7	22.5	16.0	105	1
6141490	D 19 L 9/16AF	9/16	77.0	20.7	22.5	17.0	125	1
6141570	D 19 L 5/8AF	5/8	77.0	22.5	24.0	18.0	130	1
6141650	D 19 L 11/16AF	11/16	77.0	24.7	24.8	18.0	140	1
6141730	D 19 L 3/4AF	3/4	82.0	26.7	26.0	22.0	165	1
6141810	D 19 L 13/16AF	13/16	82.0	28.5	28.5	22.0	205	1
6142030	D 19 L 7/8AF	7/8	82.0	30.6	28.5	24.0	230	1
6142110	D 19 L 15/16AF	15/16	82.0	32.6	29.0	26.0	250	1

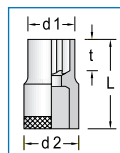
TX 19

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, polished, chrome-plated
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

12.5

1/2"



Code	No.	Ø	±	± mm	L	d ₁	d ₂	t	±	±
6145720	TX 19 E10	E10	M8	9.42	38.0	13.5	22.5	15.5	50	10
6194180	TX 19 E11	E11	-	10.08	38.0	14.0	22.5	15.5	50	5
6147340	TX 19 E12	E12	M10	11.17	38.0	15.5	22.5	15.5	55	10
6147420	TX 19 E14	E14	M12	12.90	38.0	17.0	22.5	13.0	55	10
6194420	TX 19 E16	E16	M12	14.76	38.0	19.0	22.5	13.0	60	10
6194500	TX 19 E18	E18	M14	16.70	40.0	21.0	24.5	14.0	65	10
6194690	TX 19 E20	E20	M16	18.45	40.0	23.5	24.5	14.0	70	10
6195070	TX 19 E24	E24	M18 - M20	22.16	41.5	28.5	26.0	16.0	85	5

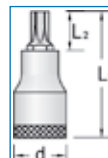
ITX 19

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, chrome-plated
- With pressed-in pin, gun-metal finish
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

12.5

1/2"



Code	No.	±	±	± mm	L ₁	L ₂	d	±	±
6152930	ITX 19 T20	T20	M4 - M5	3.86	55	17	22.5	60	10
6154200	ITX 19 T25	T25	M4.5 - M5	4.43	55	17	22.5	65	10
6154630	ITX 19 T27	T27	M4.5 - M6	4.99	55	17	22.5	65	10
6156170	ITX 19 T30	T30	M6 - M7	5.52	55	17	22.5	65	10
6156330	ITX 19 T40	T40	M7 - M8	6.65	55	17	22.5	65	10
6157060	ITX 19 T45	T45	M8 - M10	7.82	55	17	22.5	70	10
6158030	ITX 19 T50	T50	M10	8.83	55	17	22.5	90	10
6158380	ITX 19 T55	T55	M12	11.22	55	17	23.0	110	10
6158540	ITX 19 T60	T60	M14	13.25	55	15	24.7	110	10



ITX 19 L

SCREWDRIVER BIT SOCKET 1/2" long, for recessed TORX® head screws

- ✓ Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- ✓ Hand-operated, chrome-plated
- ✓ With pressed-in pin, gun-metal finish
- ✓ TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

12,5

1/2"



Code	No.	*	mm	mm	L ₁	L ₂	d	mm	mm
6188020	ITX 19 L T20-100	T20	M4 - M5	3.86	100	62	22.5	80	5
6188100	ITX 19 L T25-100	T25	M4,5 - M5	4.43	100	62	22.5	85	5
6188370	ITX 19 L T27-100	T27	M4,5 - M6	4.99	100	62	22.5	85	5
6152500	ITX 19 L T30-100	T30	M6 - M7	5.52	100	62	22.5	85	10
6152690	ITX 19 L T40-100	T40	M7 - M8	6.65	100	62	22.5	85	10
6155870	ITX 19 L T45-100	T45	M8 - M10	7.82	100	62	22.5	90	10
6158700	ITX 19 L T50-100	T50	M10	8.83	100	62	22.5	105	10
6159940	ITX 19 L T55-100	T55	M12	11.22	100	62	23.0	155	10
6188450	ITX 19 L T60-100	T60	M14	13.25	100	60	24.7	155	5
6105180	ITX 19 L T70-100	T70	M16	15.55	100	60	28.0	170	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, chrome-plated
- ✓ With pressed-in pin, gun-metal finish
- ✓ TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

12,5

1/2"



Code	No.	*	mm	mm	L ₁	L ₂	d	Bore	mm	mm
6192720	ITX 19 B T20	T20	M4 - M5	3.86	55	17	22.5	1,55 x 1,86	60	5
6195660	ITX 19 B T25	T25	M4,5 - M5	4.43	55	17	22.5	1,93 x 2,04	65	5
6196390	ITX 19 B T27	T27	M4,5 - M6	4.99	55	17	22.5	2,18 x 2,29	65	5
6200170	ITX 19 B T30	T30	M6 - M7	5.52	55	17	22.5	2,56 x 2,92	65	5
6200410	ITX 19 B T40	T40	M7 - M8	6.65	55	17	22.5	2,92 x 3,28	65	5
6200840	ITX 19 B T45	T45	M8 - M10	7.82	55	17	22.5	3,45 x 3,68	70	5
6201300	ITX 19 B T50	T50	M10	8.83	55	17	23.0	3,83 x 3,78	90	5
6202700	ITX 19 B T55	T55	M12	11.22	55	15	24.7	4,85 x 4,79	110	5
6203270	ITX 19 B T60	T60	M14	13.25	56	16	28.0	5,63 x 7,87	110	5



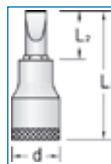
IS 19

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, chrome-plated
- ✓ With pressed-in pin, blade as per DIN ISO 2380-1, Form B, manganese-phosphated

12,5

1/2"



Code	No.	mm	mm	L ₁	L ₂	d	mm	mm
6161760	IS 19 6,5x1,2	1.2	6.5	60	22	22.5	60	1
6656060	IS 19 8x1,2	1.2	8.0	60	22	22.5	50	5
6656140	IS 19 10x1,6	1.6	10.0	60	22	22.5	50	5
6656220	IS 19 12x2	2.0	12.0	60	22	23.0	65	5
6162140	IS 19 14x2,5	2.5	14.0	60	20	24.7	120	5
6656490	IS 19 16x2,5	2.5	16.0	60	20	28.0	50	5
6656570	IS 19 18x2,5	2.5	18.0	60	20	27.0	65	10

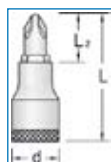
IKS 19

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, chrome-plated
- ✓ With pressed-in pin, tip as per DIN ISO 8764-1 PH, gun-metal finish

12,5

1/2"



Code	No.	PH	L ₁	L ₂	d	mm	mm
6656650	IKS 19 2	2	60	22	22.5	75	10
6656730	IKS 19 3	3	60	22	22.5	80	10
6656810	IKS 19 4	4	60	22	23.0	100	10

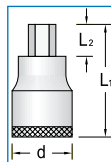
IN 19

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, chrome-plated
- ✓ With pressed-in pin, bit manganese-phosphated
- ✓ **IN 19 17** for oil filter and drain plug screws
- ✓ * not standardised

12,5

1/2"



Code	No.	*	mm	L ₁	L ₂	d	mm	mm
6153070	IN 19 4	*	4	60	22	22.5	45	10
6153150	IN 19 5	*	5	60	22	22.5	50	10
6153230	IN 19 6	*	6	60	22	22.5	55	10
6153310	IN 19 7	*	7	60	22	22.5	58	10
6153580	IN 19 8	*	8	60	22	22.5	60	10
6153660	IN 19 9	*	9	60	22	22.5	63	10
6153740	IN 19 10	*	10	60	22	22.5	65	10
6153820	IN 19 12	*	12	60	22	23.0	75	10
6153900	IN 19 14	*	14	60	20	24.7	85	10
6154040	IN 19 17	*	17	60	20	28.0	115	10
6154120	IN 19 19	*	19	60	20	27.0	120	10

Code	No.	●"AF"	L ₁	L ₂	d	↔	⊞
6154710	IN 19 3/16AF	3/16	60	22	22.5	50	10
6154980	IN 19 7/32AF	7/32	60	22	22.5	53	10
6155010	IN 19 1/4AF	1/4	60	22	22.5	55	10
6155280	IN 19 9/32AF	9/32	60	22	22.5	58	5
6155360	IN 19 5/16AF	5/16	60	22	22.5	60	10
6155440	IN 19 3/8AF	3/8	60	22	22.5	65	10
6155520	IN 19 1/2AF	1/2	60	22	23.0	80	10
6155600	IN 19 9/16AF	9/16	60	20	24.7	85	10
6155790	IN 19 5/8AF	5/8	60	20	28.0	115	10

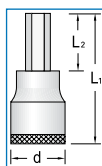
IN 19 L

SCREWDRIVER BIT SOCKET 1/2" long, 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, chrome-plated
- With pressed-in pin, bit manganese-phosphated
- * t = stepped hexagon bit 13 mm
- * not standardised

12.5

1/2"



Code	No.	*	●mm	L ₁	L ₂	d	* t	↔	⊞
6162060	IN 19 L 5-90	*	5	90	52	22.5	13	75	10
6157140	IN 19 L 5-180	*	5	180	142	22.5	13	150	10
6157300	IN 19 L 6-90		6	90	52	22.5		70	10
6145800	IN 19 L 6-140		6	140	102	22.5	13	90	10
6145990	IN 19 L 6-160		6	160	122	22.5	13	120	10
6157570	IN 19 L 7-100		7	100	62	22.5		100	10
6157730	IN 19 L 8-90		8	90	52	22.5		75	10
6157810	IN 19 L 8-120		8	120	82	22.5		20	10
6158110	IN 19 L 10-140		10	140	102	22.5		130	10
6158460	IN 19 L 12-140		12	140	102	23.0		155	10
6158620	IN 19 L 14-140		14	140	100	24.7		190	10

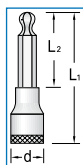
IN 19 LK

SCREWDRIVER BIT SOCKET 1/2" long, with ball end for in-hex screws

- Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retaining groove
- Hand-operated, chrome-plated
- With pressed-in pin, bit gun-metal finished
- Total swivel angle approx. 15°-20°

12.5

1/2"



Code	No.	●mm	L ₁	L ₂	d	↔	⊞
6162810	IN 19 LK 6-140	6	140	102	22.5	80	10
6165080	IN 19 LK 7-140	7	140	102	22.5	90	5
6165160	IN 19 LK 8-140	8	140	102	22.5	100	10
6166800	IN 19 LK 10-140	10	140	102	22.5	150	10
6172370	IN 19 LK 12-140	12	140	102	23.0	190	5



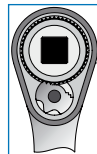
1993 U-20

REVERSIBLE RATCHET 1/2"

- Acc. to DIN 3122, ISO 3315
- 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

12.5

1/2"



Code	No.	■"	■	↗°	↔mm↔	↔	↔	⊞
1436686	1993 U-20	1/2	12.5	6	270	37.5	530	5

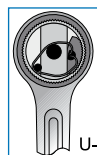
1993 U-3

REVERSIBLE RATCHET 1/2"

- 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 12.5, ISO 1174, ball locking device

12.5

1/2"



Code	No.	■"	■	↗°	↔mm↔	↔	↔	⊞
6144240	1993 U-3	1/2	12.5	5	270	40.5	400	5

1993 GU-3

SWIVEL HEAD REVERSIBLE RATCHET 1/2"

- Swivels through 180°, with joint lock
- Fine-toothed
- 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

12.5

1/2"



Code	No.	■"	■	↗°	↔mm↔	↔	↔	⊞
6144320	1993 GU-3	1/2	12.5	5	282	40.5	380	5

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, ball locking device
- Load capacity max. 202 N-m

12.5

1/2"

10

3/8"



Code	No.	□"	□	■"	■	↔mm↔	↔	⊞
6143000	1930	1/2	12.5	3/8	10	38.5	60	10

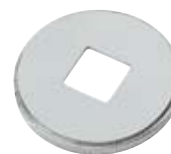
1940

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

12.5

1/2"



Code	No.	□"	□	■"	■	↔mm↔	↔	⊞
1640887	1940	1/2	12.5				15	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, ball locking device

12,5

1/2"



Code	No.	"	"	mm	mm	
6143270	1981 K	1/2	12.5	220	260	1

1985

SPEED BRACE 1/2"

- Acc. to DIN 3122, ISO 3315
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, ball locking device

12,5

1/2"



Code	No.	"	"	mm	mm	
6143350	1985	1/2	12.5	395	650	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, ball locking device

12,5

1/2"



Code	No.	"	"	mm	mm	
6143430	1987	1/2	12.5	292	350	10

1987 A

SLIDING T BAR WITH RELEASE 1/2"

- Secured against unintentional removal
- Turn handle for easy locking and releasing
- An unintentional release during work is averted because of the asymmetrical detachment point
- Particularly useful for work in sensitive areas where certainty against loss is a theme
- Examples: Airplane engine, work in deep machine bodies
- DBGM

12,5

1/2"



Code	No.	"	"	mm	mm	
1871641	1987 A	1/2	12.5	292	375	1



1990

EXTENSION 1/2"

- Acc. to DIN 3123, ISO 3316
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, ball locking device

12,5

1/2"



Code	No.	"	"	mm	mm	
6143510	1990-2.1/2	*	1/2	12.5	63	110
6143780	1990-3		1/2	12.5	76	120
6143860	1990-5		1/2	12.5	125	165
6142890	1990-7	*	1/2	12.5	180	250
6143940	1990-10		1/2	12.5	250	290

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, ball locking device

12,5

1/2"



Code	No.	"	"	mm	mm	
1640828	1990 A-5		1/2	12.5	125	315
1640801	1990 A-10		1/2	12.5	250	190



1990 KR

UNIVERSAL EXTENSION 1/2"

- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, ball locking device
- The extension is able to pivot up to 15°
- Load capacity max. 230 N-m

12,5

1/2"



Code	No.	"	"	mm	mm	
6173180	1990 KR-5		1/2	12.5	125	180
6225590	1990 KR-7		1/2	12.5	180	245
6366570	1990 KR-10		1/2	12.5	250	250

1994

COUPLER 1/2"

- Acc. to DIN 3122, ISO 3315
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, ball locking device

12.5

1/2"



Code	No.	"	"	mm	mm	
6144670	1994	1/2	12.5	37.8	40	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, ball locking device

12.5

1/2"



Code	No.	"	"	"	mm	mm	
6144750	1995	1/2	12.5	1/2	12.5	73.5	150 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, ball locking device

12.5

1/2"



Code	No.	"	"	mm	mm	
6144830	1996	1/2	12.5	255	440	1
6144910	1997	1/2	12.5	381	750	10

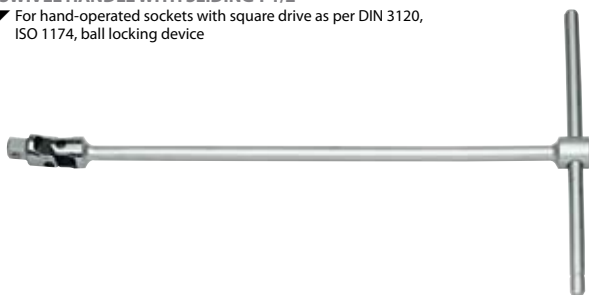
1998

SWIVEL HANDLE WITH SLIDING T 1/2"

- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, ball locking device

12.5

1/2"



Code	No.	"	"	mm	mm	
6199730	1998	1/2	12.5	460	1000	1



D 19 WAU

SOCKET SET 1/2" INCH 24 pieces

12.5

1/2"

UNIT DRIVE



Code	No.		pieces
1954024	D 19 WAU-3 U-3 1993 U-3 D 19 5/16 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" 1987 1990-5 -10 1995	5.0	24

D 19 T

SOCKET SET 1/2" INCH 25 pieces

12.5

1/2"

UNIT DRIVE



Code	No.		pieces
6148900	D 19 TAZ Z-94 1993 Z-94 D 19 5/16 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" 1985 1987 1990-5 -10 1995	5.4	25
6149040	D 19 TAU-10 U-10 T 1993 U-10 T D 19 5/16 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" 1985 1987 1990-5 -10 1995	5.6	25

D 19 XMAU

SOCKET SET 1/2" INCH 31 pieces

12.5

1/2"

UNIT DRIVE



Code	No.		pieces
6149470	D 19 XMAU-10 U-10 T 1993 U-10 T D 19 11 13 14 17 19 22 24 27 30 32 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 1990-5 -10 1995	5.8	31



D 19 YMAWU

SOCKET SET 1/2" INCH 41 pieces

12,5

1/2"



Code	No.	Stück	pieces
6149980	D 19 YMAWU-10 U-10T 1993 U-10T D 19 10 11 12 13 14 15 16 17 18 19 20 21 22 D 19 L 21 D 19 7/16 1/2 9/16 19/32 5/8 11/16 3/4 25/32 7/8 15/16 1" D 19 3/16 1/4 5/16 3/8 7/16 1/2 9/16 5/8 11/16 3/4 W 1985 1990-5 -10 1987 1995	7.3	41

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 208 x 55 mm
- INBUS® = reg. trademark of Bauer + Schaurte

12,5

1/2"



Code	No.	Stück	pieces
6129360	IN 19 LKM 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	1.9	1

IN 19 P

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 Bauer + Schaurte

12,5

1/2"



Code	No.	Stück	pieces
6156250	IN 19 PM IN 19 5 6 7 8 9 10 12 14 17	820	1
6156410	IN 19 PA IN 19 3/16 7/32 1/4 9/32 5/16 3/8 1/2 9/16 5/8"	815	1

INX 19 P

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

12,5

1/2"



Code	No.	Stück	pieces
6150050	INX 19 PM INX 19 5 6 8 10 12 IKS 19 2 3 IS 19 12 16	2.5	1

IN 19 Q

SCREWDRIVER BIT SOCKET SET 1/2" 11 pieces

- For in-hex screws (INBUS®)
- In GEDORIT blue sheet steel case
- Dimensions: 318 x 118 x 50 mm
- INBUS® = reg. trademark of Bauer + Schaurte

12,5

1/2"



Code	No.	Stück	pieces
6156920	IN 19 Q U-10T 1993 U-10T IN 19 5 6 7 8 9 10 12 14 17 1990-7	2.5	1

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

12,5

1/2"



Code	No.	Stück	pieces
6158970	ITX 19 PM ITX 19 T20 T25 T27 T30 T40 T45 T50 T55 T60	2.5	1
1394894	ITX 19 B-PM ITX 19 B T20 T25 T27 T30 T40 T45 T50 T55 T60	2.5	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 208 x 55 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

12,5

1/2"



Code	No.		
6138510	ITX 19 LKP ✱ ITX 19 T20 T25 T27 T30 T40 T45 T50 T55 T60 ✱ ITX 19 LT20 T25 T27 T30 T40 T45 T50 T55 T60	1.9	1

19 TX 20

SCREWDRIVER BIT SOCKET SET 1/2" 34 pieces

- 1/4" and 1/2" sockets for protruding and recessed TORX® screws
- In GEDORIT blue sheet steel case
- Dimensions: 320 x 208 x 55 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

6,3

1/4"

12,5

1/2"



Code	No.		
6129440	19 TX 20 ✱ ITX 19 T40 T45 T50 T55 T60 ✱ ITX 19 LT20 T25 T27 T30 T40 T45 T50 T55 T60 ✱ TX 19 E12 E14 E16 E18 E20 E24 ✱ ITX 20 T8 T9 T10 T15 T20 T25 T27 T30 ✱ TX 20 E4 E5 E6 E7 E8 E10	3.2	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 208 x 55 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

12,5

1/2"



Code	No.		
6129520	ITX 19 TX-017 ✱ ITX 19 T20 T25 T27 T30 T40 T45 T50 T55 T60 ✱ TX 19 E10 E11 E12 E14 E16 E18 E20 E24	2.0	1

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

6,3

1/4"

10

3/8"

12,5

1/2"



Code	No.		
6173500	ITX 19-20-30 T ✱ ITX 20 T8 T10 T15 ✱ ITX 30 T20 T25 T30 ✱ ITX 19 T40 T50 T55 T60	0.8	1

TX 19 E-09

SCREWDRIVER BIT SOCKET SET 1/2" 9 pieces

- For protruding TORX® screws
- In GEDORIT blue sheet steel case
- Dimensions: 281 x 79 x 35 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

12,5

1/2"



Code	No.		
6265970	TX 19 E-09 ✱ TX 19 E10 E11 E12 E14 E16 E18 E20 E24 3019	0.9	1

BITS





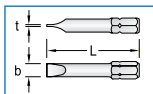
680

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 finish

6,3

1/4"



Code	No.	b	t	L	⚙	📦
6537640	680 4	4.0	0.5	25	7	10
6537720	680 4,5	4.5	0.6	25	7	10
6537800	680 5,5	5.5	0.8	25	8	10
6537990	680 6,5	6.5	1.2	25	9	10
6538020	680 7	7.0	1.2	25	9	10
6538100	680 8	8.0	1.6	25	14	10
6538290	680 10	10.0	1.6	39	16	5

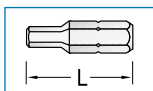
685

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

6,3

1/4"



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	7	10
6539340	685 6	6.0	M8	M10	25	8	10
6539420	685 8	8.0	M10	M12	33	12	10
6539500	685 10	10.0	M12	M14	33	15	5

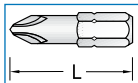
690

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

6,3

1/4"



Code	No.	PH	L	⚙	📦
1803514	690 0	0	25	5	10
6541240	690 1	1	25	5	10
1828150	690 1 L	1	50	9	10
6541320	690 2	2	25	5	10
6541400	690 2 L	2	50	10	10
6541590	690 3	3	25	5	10
6541670	690 3 L	3	50	8	10
6541750	690 4	4	32	15	10

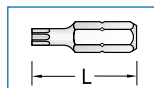
687 TX

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® is a registered trademark of Acument Intellectual Properties, LLC. USA

6,3

1/4"



Code	No.			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	5	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	6	10

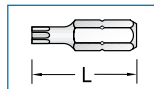
688 TX

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® is a registered trademark of Acument Intellectual Properties, LLC. USA

6,3

1/4"



Code	No.			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	5	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®

6,3

1/4"



Code	No.	⚙	📦
1965506	689 TS 2	6	1
1965514	689 TS 4	6	1
1965522	689 TS 6	12	1
1965530	689 TS 8	12	1
1965549	689 TS 10	20	1

689 TW

SCREWDRIVER BIT Tri-Wing®

6,3

1/4"



Code	No.	⚙	📦
1979868	689 TW 2	6	1
1979876	689 TW 4	6	1
1979884	689 TW 6	12	1
1979892	689 TW 8	12	1
1979906	689 TW 10	20	1

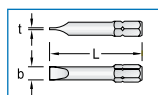
TIN SCREWDRIVER BITS

- 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
- = 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")

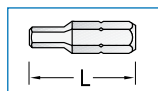


Code	No.	b	t	L		
1828320	TIN 680 4	4.0	0.5	25	7	5
1828339	TIN 680 5,5	5.5	0.8	25	8	5
1828347	TIN 680 6,5	6.5	1.2	25	9	5
1828355	TIN 680 8	8.0	1.6	25	14	5

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")



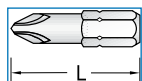
Code	No.	mm	ISO 4762	DIN 7984	L		
1828363	TIN 685 2	2.0	M2	M2	25	5	5
1828371	TIN 685 2,5	2.5	M3	M4	25	5	5
1828398	TIN 685 3	3.0	M4	M5	25	5	5
1828401	TIN 685 4	4.0	M5	M6	25	6	5
1828428	TIN 685 5	5.0	M6	M8	25	7	5
1828436	TIN 685 6	6.0	M8	M10	25	8	5
1828444	TIN 685 8	8.0	M10	M12	33	12	5
1828452	TIN 685 10	10.0	M12	M14	33	15	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")



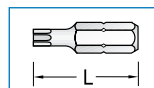
Code	No.	PH	L		
1828533	TIN 690 1	1	25	5	5
1828541	TIN 690 1 L	1	50	9	5

Code	No.	PH	L		
1828568	TIN 690 2	2	25	5	5
1828576	TIN 690 2 L	2	50	10	5
1828584	TIN 690 3	3	25	5	5
1828592	TIN 690 3 L	3	50	11	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")
- TORX® is a registered trademark of Acument Intellectual Properties, LLC. USA



Code	No.			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	5	5
1828495	TIN 687 TX T25	T25	M4,5 - M5	4.43	25	5	5
1828509	TIN 687 TX T27	T27	M4,5 - M6	4.99	25	5	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	6	5

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: 200 x 120 x 38 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Code	No.			
1814567	671-022		365	1
	671	680 4 5,5 6,5 8		
	685	3 4 5 6		
	690	PZD 1 2 3		
	687 TX	T10 T15 T20 T25 T27 T30		
	676	699		

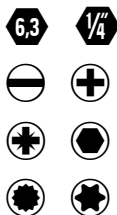




620-024

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.	mm	mm	mm
1815695	620-024	180		1
	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			

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: 200 x 120 x 38 mm
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

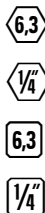


Code	No.	mm	mm	mm
1814524	693-024	375		1
	2093 U-3 T 2093 HR-94			
	680 4 6,5 685 3 4 5 6			
	690 1 2 690 PZD 1 2 3			
	687 TX T8 T9 T10 T15 T20 T25 T27 T30 T40			
	2090-6 620			

620

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")



Code	No.	mm	mm	mm
1649329	620	25	13	1

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

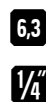


Code	No.	mm	mm	mm
1953796	670 K	1/4	6.3	80 100 1

2098 K

DRIVING HANDLE 1/4" short pattern

- Acc. to DIN 3122, ISO 3315
- For hand-operated sockets with square drive as per DIN 3120, ISO 1174, ball locking device



Code	No.	mm	mm	mm
1953788	2098 K	1/4	6.3	70 34 1

671

BIT REVERSIBLE RATCHET

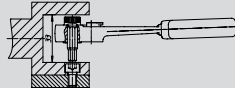
- With knurled head for quick starting or counter-holding of screws
- Hex recess drive as per DIN 3126 - D 6.3 (1/4")
- Slimline design for working in confined spaces



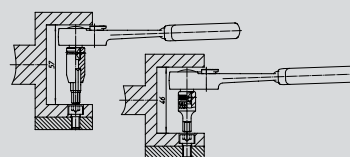
Code	No.	mm	mm	mm
6535350	671	1/4	15 127 18.3	105 5

FEATURES

(1) Bit ratchet and bit



(2) Ratchet and socket



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	mm
6530710	674	1/4	55 215 200	5



169

MAGAZINE HANDLE SCREWDRIVER

- Magnetic magazine handle with room for 7 bits
- Cap with click-locking
- No. 169 L = empty



Code	No.	mm	mm	mm
6432700	169	115	220	200 1
	680 4 5,5 6,5			
	690 1 2			
	690 PZD 1 2			
6432620	169 L	115	220	150 1

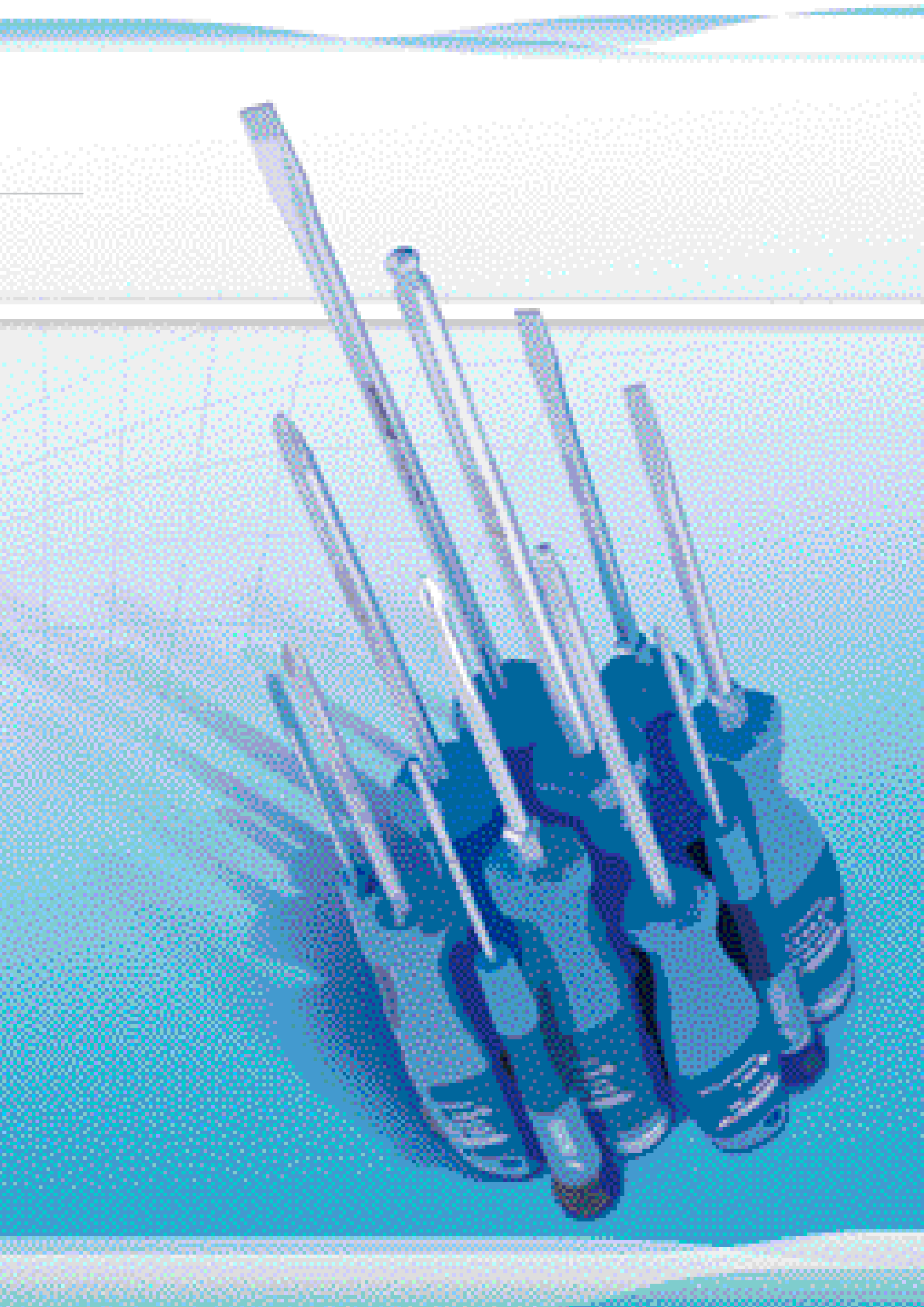
POWER USE

THE PERFECT DRIVE



overview

- ▀ slotted head
- ▀ cross-slotted head PH
- ▀ cross-slotted head PZ
- ▀ hexagon head
- ▀ splined head
- ▀ TORX® head
- ▀ Electronic screwdriver
- ▀ Hexagon socket key
- ▀ Voltage tester



DREMO PLUS 3 C

Proven strength in constant use and is very tough!

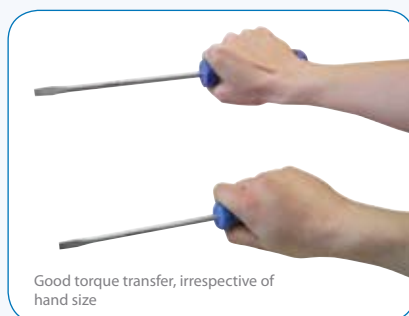


① The soft component in the rear part of the handle lies especially well in the hand. It permits the full force of the hand to be employed in turning the screwdriver and prevents early tiredness when the tool is used continually.

② 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.

③ The hard component in the front part of the handle has been designed to make fast turning with low resistance much easier.

④ In the case of screws, which have become stuck, the forged-on hexagonal piece permits an increase in the torque with the use of an adjustable spanner. (Only screwdrivers 2154SK, 2160SK and 2154)



Good torque transfer, irrespective of hand size

⑤ The blade in chrome vanadium steel is fully hardened over the whole length and thus fulfills all the requirements for safe working.

3C-SCREWDRIVER

2150

3C-SCREWDRIVER for slotted head screws

- To DIN ISO 2380-2, blade tip DIN ISO 2380-1 Form A
- Blade in vanadium plus steel
- 3-component handle with hanging hole
- * not standardised



Code	No.	*	mm	mm	Ø	mm	mm	mm	mm
6679270	2150 3		0.5	3.0	3	80	160	25	10
6679350	2150 4		0.8	4.0	4	100	190	45	10
6679430	2150 5,5		1.0	5.5	5	125	225	69	10
6679510	2150 6,5		1.2	6.5	6	150	260	101	10
6679780	2150 8		1.2	8.0	7	175	295	156	10
6679860	2150 10		1.6	10.0	8	200	320	189	10
6679940	2150 12		2.0	12.0	9	250	370	243	10
1828673	2150 14	*	2.5	14.0	11	250	370	309	1

2150

3C-SCREWDRIVER for slotted head screws, special lengths

- With parallel blade, blade tip DIN ISO 2380-1 Form B
- Blade in vanadium plus steel
- 3-component handle with hanging hole
- * not standardised



Code	No.	*	mm	mm	Ø	mm	mm	mm	mm
6680010	2150 3-100		0.5	3.0	3,0	100	180	26	10
6680280	2150 3-150	*	0.5	3.0	3,0	150	230	29	10
6680360	2150 4-150	*	0.8	4.0	4,0	150	240	52	10
6680440	2150 5,5-100		1.0	5.5	5,5	100	200	70	10
6680520	2150 5,5-150		1.0	5.5	5,5	150	250	79	10
6680600	2150 5,5-250	*	1.0	5.5	5,5	250	350	89	10
6680790	2150 6,5-100		1.2	6.5	6,5	100	210	90	10
6680870	2150 6,5-200	*	1.2	6.5	6,5	200	310	120	10
1646478	2150 6,5-300	*	1.2	6.5	6,0	300	410	136	1
1646486	2150 6,5-400	*	1.2	6.5	6,0	400	510	157	1
6680950	2150 8-125		1.2	8.0	8,0	125	245	159	10
6681090	2150 8-225	*	1.2	8.0	8,0	225	345	199	10
1646494	2150 8-300	*	1.2	8.0	8,0	300	420	210	1
1646508	2150 8-400	*	1.2	8.0	8,0	400	520	250	1
6681170	2150 10-150		1.6	10.0	10,0	150	270	219	10
6681840	2150 10-250	*	1.6	10.0	10,0	250	370	281	10

2153

SCREWDRIVER for slotted head screws, stubby

- To DIN ISO 2380-2, blade tip DIN ISO 2380-1 Form B
- Blade in vanadium plus steel
- 1-component handle, blue, with hanging hole



Code	No.	mm	mm	Ø	mm	mm	mm	mm
1531174	2153 4	0.8	4.0	4,0	25	75	25	10
1482432	2153 5,5	1.0	5.5	5,5	25	75	30	10
1531182	2153 6,5	1.2	6.5	6,5	25	75	35	10
1531190	2153 8	1.2	8.0	8,0	25	75	40	10



2154

3C-SCREWDRIVER for slotted head screws

- Blade with hexagon bolster
- To DIN ISO 2380-2, blade tip DIN ISO 2380-1 Form A
- Blade in vanadium plus steel
- 3-component handle with hanging hole
- * not standardised



Code	No.	*	mm	mm	Ø	mm	mm	mm	mm	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	67	10
6682570	2154 5,5		1,0	5,5	5	100	200	8	68	10
6682650	2154 6,5		1,2	6,5	6	125	235	10	95	10
6682730	2154 8		1,2	8,0	7	150	270	13	157	10
6682810	2154 10		1,6	10,0	8	175	295	13	187	10
6683030	2154 12		2,0	12,0	9	200	320	16	233	10
1531158	2154 14		2,5	14,0	11	250	370	16	295	10

2170

3C-SCREWDRIVER for slotted head screws, insulated blade

- To DIN ISO 2380-2, blade tip DIN ISO 2380-1 Form B
- Blade in vanadium plus steel
- 3-component handle with hanging hole



Code	No.	*	mm	mm	Ø	mm	mm	mm	mm	mm
6678700	2170 2,5		0,4	2,5	2,5	75	155	25	10	
6678890	2170 3		0,5	3,0	3,0	75	155	27	10	
6678970	2170 4		0,8	4,0	4,0	100	190	46	10	
6679000	2170 5,5		1,0	5,5	5,5	125	225	79	10	
6679190	2170 6,5		1,2	6,5	6,5	150	260	107	10	

2160 PH

3C-SCREWDRIVER for cross-slotted head screws PH

- To DIN ISO 8764, tip to DIN ISO 8764-1 PH
- Blade in vanadium plus steel
- 3-component handle with hanging hole
- Size 3 and 4 blade with hexagon bolster
- * not standardised



Code	No.	*	PH	Ø	mm	mm	mm	mm	mm	mm
6683110	2160 PH 0		0	3,0	60	140	25	10		
6683380	2160 PH 1		1	4,5	80	180	55	10		
6683700	2160 PH 1-200		1	4,5	200	300	74	10		
6683460	2160 PH 2		2	6,0	100	210	90	10		
6683890	2160 PH 2-200		2	6,0	200	310	111	10		
1646516	2160 PH 2-300	*	2	6,0	300	410	135	1		
1646524	2160 PH 2-400	*	2	6,0	400	510	156	1		
6683540	2160 PH 3		3	8,0	150	270	13	177	10	
6683620	2160 PH 4		4	10,0	200	320	16	265	10	



2161 PH

SCREWDRIVER for cross-slotted head screws PH, stubby

- To DIN ISO 8764, tip to DIN ISO 8764-1 PH
- Blade in vanadium plus steel
- 1-component handle, blue, with hanging hole



Code	No.	PH	Ø	mm	mm	mm	mm	mm
1482440	2161 PH 1	1	4,5	25	75	30	10	
1531204	2161 PH 2	2	6,0	25	75	32	10	



2163 BTX

3C-SCREWDRIVER for recessed TORX® head screws

- Blade in vanadium plus steel
- 3-component handle with hanging hole
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Code	No.	T	M	mm	Ø	mm	mm	mm	mm	mm
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	24	10	
6685400	2163 BTX T6	T6	M2	1.69	3,0	60	140	24	10	
6685590	2163 BTX T7	T7	M2,5	1.99	3,0	60	140	24	10	
6685670	2163 BTX T8	T8	M2,5	2.31	3,0	60	140	24	10	
6685750	2163 BTX T9	T9	M3	2.50	3,0	60	140	24	10	
6685830	2163 BTX T10	T10	M3 - M3,5	2.74	3,0	80	160	25	10	
6685910	2163 BTX T15	T15	M3,5 - M4	3.27	3,5	80	170	39	10	
6686050	2163 BTX T20	T20	M4 - M5	3.86	4,0	100	190	45	10	
6686130	2163 BTX T25	T25	M4,5 - M5	4.43	4,5	100	200	62	10	
6686210	2163 BTX T27	T27	M4,5 - M6	4.99	5,5	115	215	74	10	
6686480	2163 BTX T30	T30	M6 - M7	5.52	6,0	115	225	93	10	
6686560	2163 BTX T40	T40	M7 - M8	6.65	7,0	130	240	100	10	
6686640	2163 BTX T45	T45	M8 - M10	7.82	8,0	130	250	165	10	
6686720	2163 BTX T50	T50	M10	8.83	9,0	150	270	193	10	

2163 TXB

3C-SCREWDRIVER for recessed TORX® head screws with pilot

- Blade in vanadium plus steel
- 3-component handle with hanging hole
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Code	No.	T	M	mm	Ø	mm	mm	mm	mm	mm
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	25	10	
6677730	2163 TXB T9	T9	M3	2.50	3,0	60	140	25	10	
6677810	2163 TXB T10	T10	M3 - M3,5	2.74	3,0	80	160	27	10	
6678030	2163 TXB T15	T15	M3,5 - M4	3.27	3,5	80	170	28	10	
6678110	2163 TXB T20	T20	M4 - M5	3.86	4,0	100	190	36	10	
6678380	2163 TXB T25	T25	M4,5 - M5	4.43	4,5	100	200	61	10	
6678460	2163 TXB T27	T27	M4,5 - M6	4.99	5,5	115	215	74	10	
6678540	2163 TXB T30	T30	M6 - M7	5.52	6,0	115	225	93	10	
6678620	2163 TXB T40	T40	M7 - M8	6.65	7,0	130	240	100	10	

2150-2160 PH

3C-SCREWDRIVER SET 6 pieces / 10 pieces

- For slotted and cross-slotted head screws PH



Code	No.	mm	mm	mm	mm
1482319	2150-2160 PH-06 ⊖ 2150 4 5,5 6,5 8 ⊕ 2160 PH 1 2	650			1
1482343	2150-2160 PH-010 ⊖ 2150 3 4 5,5 6,5 8 ⊖ 2153 5,5 ⊕ 2160 PH 1 2 ⊕ 2161 PH 1 ⊖ 4615 3,5	780			1

2154-2160 PH-07

3C-SCREWDRIVER SET 7 pieces

- For slotted head and cruciform head screws PH



Code	No.	mm	mm	mm	mm
1731149	2154-2160 PH-07 ⊖ 2154 4,5 5,5 6,5 8 ⊕ 2160 PH 1 2 ⊖ 4615 3	710			1

2163 BTX

3C-SCREWDRIVER SET 5 pieces / 10 pieces

- For recessed TORX® head screws
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Code	No.	mm	mm	mm	mm
1482327	2163 BTX-05 ⊕ 2163 BTX T10 T15 T20 T25 T30	380			1
1482335	2163 BTX-010 ⊕ 2163 BTX T7 T8 T9 T10 T15 T20 T25 T27 T30 T40	630			1

2163 TXB-05

3C-SCREWDRIVER SET 5 pieces

- For recessed TORX® head screws with pilot
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Code	No.	mm	mm	mm	mm
1616617	2163 TXB-05 ⊕ 2163 TXB T10 T15 T20 T25 T30	240			1

ELECTRONIC SCREWDRIVER

- 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, with anti-slip surface
- Pivoting 2-component end cap with anti-slip surface and colour coding
- Colour coding of the drive type

171 IS

ELECTRONIC SCREWDRIVER for slotted head screws



Code	No.	mm	mm	mm	mm	mm
1845004	171 IS 1,2	1.2	60	155	12	5
6436450	171 IS 1,5	1.5	60	155	12	5
1845012	171 IS 1,8	1.8	60	155	13	5
6438660	171 IS 2	2.0	60	155	13	5
1845020	171 IS 2,5	2.5	75	170	15	5
1845039	171 IS 3	3.0	100	195	16	5

165 PH

ELECTRONIC SCREWDRIVER for cross-slotted head screws PH



Code	No.	mm	mm	mm	mm	mm
1845047	165 PH 000	60	155	13	5	
6442770	165 PH 00	60	155	13	5	
6442930	165 PH 0	60	155	15	5	
1845055	165 PH 1	80	175	16	5	

165 TX

ELECTRONIC SCREWDRIVER for recessed TORX® head screws

- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Code	No.	mm	mm	mm	mm	mm
1845098	165 TX T3	T3	M1,2 - M1,4	1.13	60	155 16 5
1845101	165 TX T4	T4	M1,4	1.29	60	155 16 5
1845128	165 TX T5	T5	M1,8	1.42	60	155 17 5
1845136	165 TX T6	T6	M2	1.69	60	155 19 5
1845144	165 TX T7	T7	M2,5	1.99	60	155 19 5
1845152	165 TX T8	T8	M2,5	2.31	60	155 19 5
1845160	165 TX T9	T9	M3	2.50	60	155 19 5
1845179	165 TX T10	T10	M3 - M3,5	2.74	60	155 20 5
1845187	165 TX T15	T15	M3,5 - M4	3.27	60	155 23 5
1845195	165 TX T20	T20	M4 - M5	3.86	80	175 29 5



164 IN

ELECTRONIC SCREWDRIVER for in-hex screws



Code	No.	mm	mm	mm	mm	mm
1845063	164 IN 0,7	0.7	60	155	12	5
1845071	164 IN 0,9	0.9	60	155	12	5
6443150	164 IN 1,3	1.3	60	155	13	5
6443230	164 IN 1,5	1.5	60	155	13	5
6443310	164 IN 2	2.0	60	155	13	5
6443580	164 IN 2,5	2.5	60	155	14	5
6443740	164 IN 3	3.0	60	155	16	5

1021

ELECTRONIC SCREWDRIVER SET 7 pieces

► In plastic case



Code	No.	mm	mm	mm
6601830	1021 171 IS 1,2 1,5 2 165 PH 00 0 8305-2 8306-5	620	1	

165-171-06

ELECTRONIC SCREWDRIVER SET 6 pieces

► For slotted and cross-slotted head screws PH



Code	No.	mm	mm	mm
1902849	165-171-06 165 PH 000 00 0 171 IS 1,2 1,8 2,5	385	1	

VARIOUS

149

MAGNETIZER AND DEMAGNETIZER

► Magnetizes screwdrivers, tweezers and similar tools made from steel
► Blue housing, made from high-quality plastic, unbreakable, cadmium-free

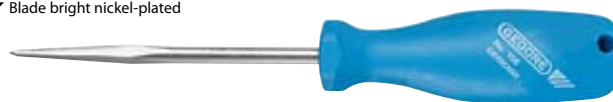


Code	No.	L	H	W	mm
6416500	149	52	26	50	85

156 S

SQUARE BLADED AWL

► Blue handle with hanging hole
► Blade bright nickel-plated



Code	No.	mm	mm	mm	mm
6424520	156 S	100	200	75	10

165 TX-06

ELECTRONIC SCREWDRIVER SET 6 pieces

► For recessed TORX® head screws

► TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



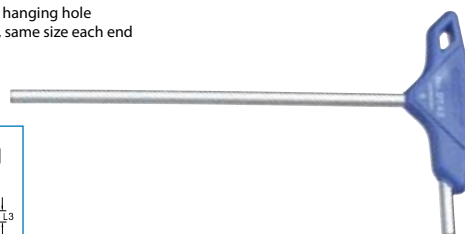
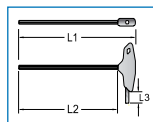
Code	No.	mm	mm	mm
1902857	165 TX-06 165 TX T5 T6 T7 T8 T9 T10	415	1	

HEXAGON SOCKET KEYS

DT 42

HEXAGON SOCKET KEY WITH T-HANDLE for in-hex screws

► Blue handle with hanging hole
► With 2 hexagons, same size each end



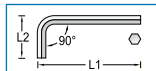
Code	No.	mm	L ₁	L ₂	L ₃	mm	mm
1476408	DT 42 2	2.0	107.0	87	12.0	15	10
1476424	DT 42 2,5	2.5	127.0	107	12.0	18	10
1476432	DT 42 3	3.0	147.0	127	12.0	22	10
1476440	DT 42 4	4.0	173.5	141	15.5	40	10
1476459	DT 42 5	5.0	193.5	161	17.5	57	10
1476467	DT 42 6	6.0	213.5	181	20.5	80	10
1476475	DT 42 7	7.0	231.0	192	28.0	120	10
1476483	DT 42 8	8.0	246.0	207	28.0	155	10
1476491	DT 42 10	10.0	261.0	222	28.0	245	10

42

HEXAGON SOCKET KEY for in-hex screws

► To DIN ISO 2936

► Zinc-plated up to size 12 mm, chrome-plated up from size 14 mm



Code	No.	mm	L ₁	L ₂	±	10
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	3	10
6340500	42 3	3.0	66.0	23.0	5	10
6340690	42 4	4.0	74.0	29.0	10	10
6340770	42 5	5.0	85.0	33.0	18	10
6340850	42 6	6.0	96.0	38.0	29	10
6340930	42 7	7.0	102.0	41.0	42	10
6341070	42 8	8.0	108.0	44.0	58	10
6341150	42 9	9.0	114.0	47.0	78	10
6341230	42 10	10.0	122.0	50.0	100	10
6341310	42 12	12.0	137.0	57.0	163	10
6341580	42 14	14.0	154.0	70.0	260	10
6341660	42 17	17.0	177.0	80.0	420	10
6341740	42 19	19.0	199.0	89.0	600	10
6341820	42 22	22.0	222.0	102.0	910	10
6341900	42 24	24.0	248.0	114.0	1210	5
6342550	42 27	27.0	277.0	127.0	1700	5
6342630	42 30	30.0	315.0	142.0	2500	1
6342710	42 32	32.0	347.0	157.0	3200	1

Code	No.	AF	L ₁	L ₂	±	10
6342120	42 3/64AF	3/64	41.0	13.0	2	10
6342040	42 1/16AF	1/16	46.5	15.5	1	10
6340340	42 2 (5/64AF)	5/64	52.0	18.0	2	10
6344330	42 3/32AF	3/32	56.5	20.5	3	10
6344410	42 1/8AF	1/8	60.0	23.0	5	10
6344680	42 5/32AF	5/32	67.0	26.0	9	10
6344760	42 3/16AF	3/16	73.0	30.0	14	10
6344840	42 7/32AF (5,5MM)	7/32	82.0	32.0	21	10
6344920	42 1/4AF	1/4	92.0	36.5	31	10
6345060	42 5/16AF	5/16	102.0	43.0	54	10
6345140	42 3/8AF	3/8	115.0	49.0	87	10
6345220	42 1/2AF	1/2	142.0	61.0	193	10
6345300	42 9/16AF	9/16	154.0	66.0	270	10
6345490	42 5/8AF	5/8	168.0	76.0	350	5
6345570	42 3/4AF	3/4	199.0	89.0	580	5

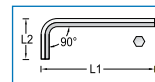


42 EL

HEXAGON SOCKET KEY for in-hex screws, extra long

► To DIN ISO 2936

► Zinc-plated up to size 12 mm, chrome-plated up from size 14 mm



Code	No.	mm	L ₁	L ₂	±	10
6350810	42 EL 2 (5/64AF)	2.0	102.0	18.0	3	10
6351030	42 EL 2,5	2.5	114.5	20.5	5	10
6351110	42 EL 3	3.0	129.0	23.0	9	10
6351380	42 EL 4	4.0	144.0	29.0	18	10
6351460	42 EL 5	5.0	165.0	33.0	31	10
6351540	42 EL 6	6.0	186.0	38.0	51	10
6351620	42 EL 8	8.0	208.0	44.0	100	10
6351700	42 EL 10	10.0	234.0	50.0	170	10
6351890	42 EL 12	12.0	262.0	57.0	280	10
6351970	42 EL 14	14.0	294.0	70.0	440	10

Code	No.	AF	L ₁	L ₂	±	10
1543377	42 EL 3/32AF	3/32	114.5	20.5	3	10
1543318	42 EL 1/8AF	1/8	129.0	23.0	9	10
1543326	42 EL 5/32AF	5/32	144.0	29.0	14	10
1543334	42 EL 3/16AF	3/16	165.0	33.0	26	10
1543342	42 EL 7/32AF (5,5MM)	7/32	186.0	38.0	45	10
1543369	42 EL 1/4AF	1/4	197.0	41.0	49	10
1543350	42 EL 5/16AF	5/16	208.0	44.0	95	10
1543385	42 EL 3/8AF	3/8	234.0	50.0	155	10
1543393	42 EL 1/2AF	1/2	277.0	63.0	323	10
1543407	42 EL 9/16AF	9/16	294.0	70.0	455	10



42

HEXAGON SOCKET KEY SET for in-hex screws

► In blue PVC wallet

► Zinc-plated



Code	No.	±	10
6347510	42-07 2 2,5 3 4 5 6 8	135	1
6349050	42-70 2,5 3 4 5 6 8 10	230	1
6347780	42-08 3 4 5 6 8 10 12 14	380	1
6347860	42-09 2 2,5 3 4 5 6 7 8 10	270	1
6348750	42-07 A 5/64 3/32 1/8 5/32 3/16 7/32 1/4"	93	1
6348830	42-08 A 1/8 5/32 3/16 1/4 5/16 3/8 1/2 9/16"	690	1
6348910	42-09 A 5/64 3/32 1/8 5/32 3/16 7/32 1/4 5/16 3/8"	230	1



H 42 - H 42 EL

HEXAGON SOCKET KEY SET for in-hex screws

- ✓ In blue PVC holder
- ✓ Zinc-plated
- ✓ Execution K with ball end, phosphated



Code	No.		
1505408	H 42-10 1,3 1,5 2 2,5 3 4 5 6 8 10	254	1
1505424	H 42-88 A 5/64 3/32 1/8 5/32 3/16 7/32 1/4 5/16"	25	1
1505416	H 42 EL-88 2 2,5 3 4 5 6 8 10	25	1
1543555	H 42 EL-88 A 5/64 3/32 1/8 5/32 3/16 7/32 1/4 5/16"	297	1
1523988	H 42 KEL-88 2 2,5 3 4 5 6 8 10	25	1

S 42

HEXAGON SOCKET KEY SET for in-hex screws

- ✓ On key ring with quick release
- ✓ Zinc-plated

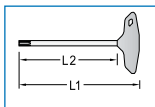


Code	No.		
6347430	S 42-07 2 2,5 3 4 5 6 8	144	1
6348160	S 42-09 A 5/64 3/32 1/8 5/32 3/16 7/32 1/4 5/16 3/8"	250	1

42 TX

SCREWDRIVER WITH T-HANDLE for recessed TORX® screws

- ✓ Blue handle with hanging hole
- ✓ TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

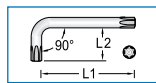


Code	No.			L ₁	L ₂		
1531328	42 TX T5	M1,8	1.42	107.0	87	30	10
1531336	42 TX T6	M2	1.70	107.0	87	30	10
1531344	42 TX T7	M2,5	1.99	107.0	87	30	10
1531352	42 TX T8	M2,5	2.31	119.5	87	30	10
6361180	42 TX T9	M3	2.50	139.5	107	30	10
6362070	42 TX T10	M3 - M3,5	2.74	139.5	107	30	10
6362820	42 TX T15	M3,5 - M4	3.27	159.5	127	31	10
6362900	42 TX T20	M4 - M5	3.86	173.5	141	33	10
6365330	42 TX T25	M4,5 - M5	4.43	180.0	141	50	10
6365410	42 TX T27	M4,5 - M6	4.99	200.0	161	53	10
6365680	42 TX T30	M6 - M7	5.52	200.0	161	61	10
6365760	42 TX T40	M7 - M8	6.65	220.0	181	71	5
6365840	42 TX T45	M8 - M10	7.82	231.0	192	142	5
6365920	42 TX T50	M10	8.83	246.0	207	165	5

43 TX

CRANKED SOCKET SCREWDRIVER for recessed TORX® screws

- ✓ TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Code	No.	mm	mm	mm	mm	mm	mm
6363550	43 TX T6	M2	1.69	42	16	2	5
6363630	43 TX T7	M2,5	1.99	48	16	3	5
6363710	43 TX T8	M2,5	2.31	48	16	3	5
6363980	43 TX T9	M3	2.50	48	16	3	5
6364010	43 TX T10	M3 - M3,5	2.74	51	17	3	5
6364280	43 TX T15	M3,5 - M4	3.27	54	18	5	5
6364360	43 TX T20	M4 - M5	3.86	57	19	7	5
6364440	43 TX T25	M4,5 - M5	4.43	60	20	10	5
6364520	43 TX T27	M4,5 - M6	4.99	64	21	15	5
6364600	43 TX T30	M6 - M7	5.52	70	24	20	5
6364790	43 TX T40	M7 - M8	6.65	76	26	30	5
6364870	43 TX T45	M8 - M10	7.82	83	29	40	5
6364950	43 TX T50	M10	8.83	95	32	60	5
6365090	43 TX T55	M12	11.22	108	35	120	1
6365170	43 TX T60	M14	13.25	120	38	180	1

H 43 TX

CRANKED SOCKET SCREWDRIVER SET for recessed TORX® screws

- ✓ In blue PVC holder
- ✓ Execution K with ball end
- ✓ TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA

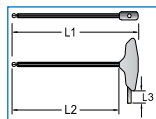


Code	No.		
1531417	H 43 TX-09 T7 T8 T9 T10 T15 T20 T25 T30 T40	109	1
1531425	H 43 TX-88 T9 T10 T15 T20 T25 T27 T30 T40	118	1
1531433	H 43 TX-08 T10 T15 T20 T25 T27 T30 T40 T45	155	1
1531441	H 43 KTX-07 T10 T15 T20 T25 T27 T30 T40	115	1

DT 43 KTX

CRANKED SOCKET SCREWDRIVER WITH T-HANDLE with ball end for recessed TORX® screws

- ✓ Working angle approx. 25°
- ✓ Blue handle with hanging hole
- ✓ 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	35	1
1505548	DT 43 KTX T15	T15	M3,5 - M4	3.27	170.0	150	12.0	40	1
1505556	DT 43 KTX T20	T20	M4 - M5	3.86	202.5	170	15.5	57	1
1505564	DT 43 KTX T25	T25	M4,5 - M5	4.43	222.5	190	17.5	80	1
1505572	DT 43 KTX T27	T27	M4,5 - M6	4.99	242.5	210	20.0	120	1
1505580	DT 43 KTX T30	T30	M6 - M7	5.52	279.0	240	28.0	155	1
1505599	DT 43 KTX T40	T40	M7 - M8	6.65	309.0	270	28.0	245	1

708

TORX® GAUGE

- Easy determination of TORX® sizes, internal E4-E16, external T10-T60
- TORX® = reg. trademark of Acument Intellectual Properties, LLC. USA



Code	No.	mm	mm	mm	mm
1394428	708	E4 - E16	T10 - T60	21	1

42 X

CRANKED ALLEN SOCKET SCREWDRIVER for multi-point screws INBUS®XZN

- To DIN 65253, tips DIN 2325



Code	No.	mm	L ₁	L ₂	mm	mm
1531212	42 X 4	M 4	63	20	25	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	40	5
6350300	42 X 10	M 10	110	46	90	5
6350490	42 X 12	M 12	124	52	140	5
6350570	42 X 14	M 14	139	59	200	5
6350650	42 X 16	M 16	156	72	320	5
6350730	42 X 18	M 18	178	81	370	1

173

CRANKED SCREWDRIVER for slotted head screws

- To DIN 5200, blade tips DIN ISO 2380-1



Code	No.	mm	mm	mm	mm	mm
6437180	173 3,5	3.5	0.6	90	12	5
6437850	173 4	4.0	0.8	100	20	10
6436100	173 5,5	5.5	1.0	125	20	10
6436370	173 8	8.0	1.2	150	50	10
6437930	173 10	10.0	1.6	175	105	5
6436530	173 12	12.0	2.0	200	175	5

174

CRANKED SCREWDRIVER for cross-slotted head screws PH

- To DIN 5208, tips to DIN ISO 8764-1 PH



Code	No.	PH	mm	mm	mm	mm
6436880	174 1	1-2	M2 - M5	100	30	10
6436960	174 3	3-4	M6 - M10	200	110	5

VOLTAGE TESTER

4611

VOLTAGE TESTER

- For 6-24 Volt
- With cable and alligator crimp



Code	No.	mm	mm	mm	mm	mm
6698650	4611	3	55	115	27	10

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
- TUV and GS tested, IEC / EN 61010-1 (DIN VDE 0411)
- Measurements: 145 x 25 x 16mm
- Degree of protection IP40, protection class III



Code	No.	mm	mm	mm	mm	mm
1881647	4612			120		1

4615

VOLTAGE TESTER

- For 150-250 Volt
- Blade nickel-plated, fully insulated blade conforming to VDE 0680
- Transparent handle



Code	No.	mm	mm	mm	mm	mm
6699110	4615 3	0.5	3.0	60	140	10
6699380	4615 3,5	0.6	3.5	90	180	10



TAKE A FIRM GRIP STRONG AND TIGHT



overview

- Combination pliers
- Side cutters
- Circlip pliers
- Electronic pliers
- Long-nose pliers
- Mechanics pliers
- Lock-grip pliers
- Water pump pliers
- Crimping pliers
- Wire-stripping pliers



MANUFACTURING PROCESS FOR 8250 COMBINATION PLIERS



Blank cropped to size from C50 hardened and tempered steel.



Hot forged in the double forging die. The excess burr is removed under an eccentric press



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.



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.



The joint faces are precision milled. The pliers head takes on its final form.



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.



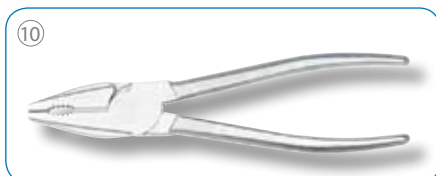
In a chamber hardening kiln, the pliers are hardened in a protective gas atmosphere, quenched in oil and finally annealed. The design of the hardening kiln ensures that the process gases are uniformly distributed, which has a positive effect on the desired material properties.



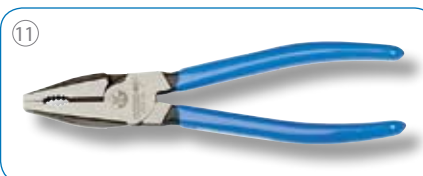
The cutting edges of GEDORE pliers are once again induction hardened. The additional hardness that this achieves ensures a good cutting performance and a long life between sharpening.



The pliers head is ground to achieve a flush geometry.



The surface is cleaned by sand blasting. The removal of scale and grease is necessary for the follow-on electroplating process.



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.



TL pliers are painted black by a robot, using water soluble paint.



The 2-component handles are pressed on and bonded.



The plastic coating on the handles is built up by multiple dipping in liquid immersion compound.

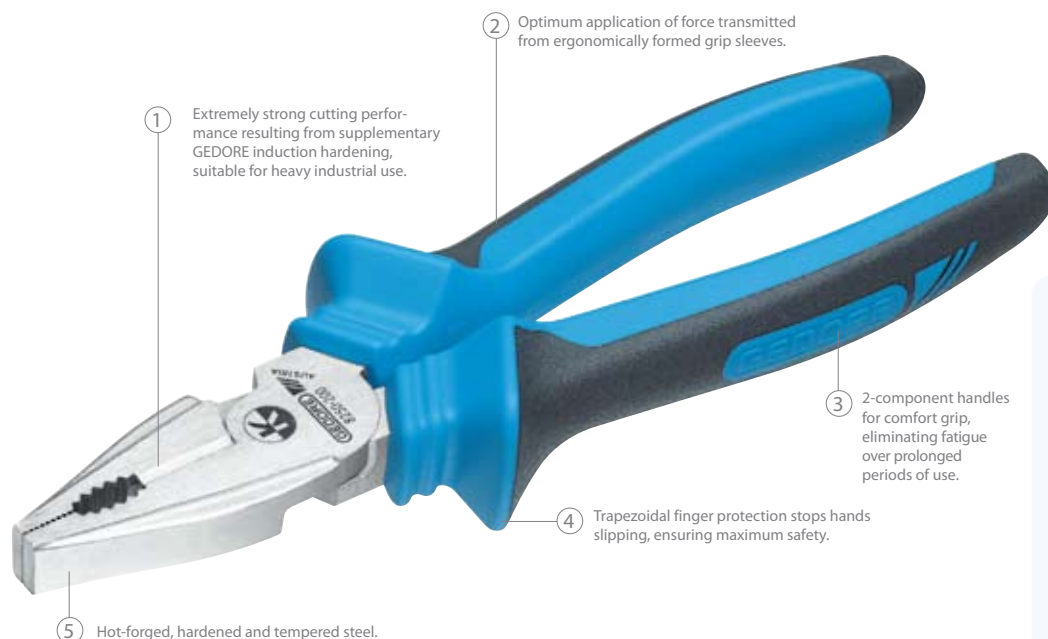
The pliers are laser marked
The joint is oiled

Tip: An occasional drop of oil on the joint will ensure that your pliers have a long life. 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.



POWER PLIERS

New Look, New Technical Features, New Safety Features



1 Extremely strong cutting performance resulting from supplementary GEDORE induction hardening, suitable for heavy industrial use.

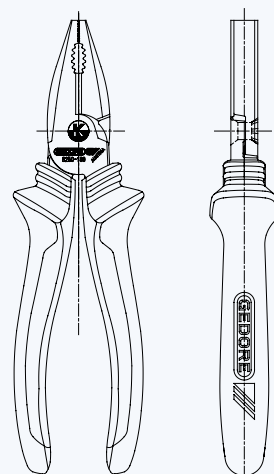
2 Optimum application of force transmitted from ergonomically formed grip sleeves.

3 2-component handles for comfort grip, eliminating fatigue over prolonged periods of use.

4 Trapezoidal finger protection stops hands slipping, ensuring maximum safety.

5 Hot-forged, hardened and tempered steel.

Technical features



PLIERS

GEDORE PLIERS RANGE

- 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, with 2-component handle sleeves
- Hot-forged tempered steel
- Precision machined, oil-hardened and annealed
- Induction-rehardened cutting edges
- Protective nickel and chrome plating
- 2-component handles with secure-grip hand protection
- Optimum transfer of force
- High cutting performance
- Fatigue-free, even in constant use
- Guaranteed GEDORE quality



8245

COMBINATION PLIERS Euro pattern

- Universal model with slimline head
- Induction-hardened precision cutting edges, hardness 62-64 HRC
- For medium-hard and hard wire
- To DIN ISO 5746



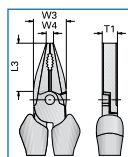
Code	No.	L	L ₁	W ₁	W ₂	T ₁	W ₃	W ₄	T ₂
6733070	8245-160 JC	160	34	23.0	5.8	8.8	191	5	
6730050	8245-160 TL	160	34	23.0	5.8	8.8	162	5	
6733150	8245-180 JC	180	38	27.0	6.4	9.8	260	5	
6730210	8245-180 TL	180	38	27.0	6.4	9.8	230	5	
6733230	8245-200 JC	200	42	29.5	7.4	10.5	350	5	
6730720	8245-200 TL	200	42	29.5	7.4	10.5	280	5	

Code	No.	L	L ₁	W ₁	W ₂	T ₁	W ₃	W ₄	T ₂
1698753	SB 8245-160 JC	160	34	23.0	5.8	8.8	201	5	
1698729	SB 8245-160 TL	160	34	23.0	5.8	8.8	172	5	
1698761	SB 8245-180 JC	180	38	27.0	6.4	9.8	270	5	
1698737	SB 8245-180 TL	180	38	27.0	6.4	9.8	240	5	
1698788	SB 8245-200 JC	200	42	29.5	7.4	10.5	360	5	
1698745	SB 8245-200 TL	200	42	29.5	7.4	10.5	290	5	

8250

POWER COMBINATION PLIERS

- For heavy, continuous use
- Good lever action for easy cutting
- Induction-hardened precision cutting edges, hardness 62-64 HRC
- To cut all wire types including piano wire
- To DIN ISO 5746



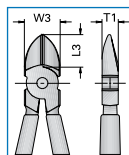
Code	No.	L	L ₃	W ₃	W ₄	T ₁	↔	☒
1429566	8250-160 JC	160	35.0	22.8	5.8	10.4	194	5
1429574	8250-160 TL	160	35.0	22.8	5.8	10.4	168	5
6707070	8250-180 JC	180	38.5	25.6	6.5	11.0	240	5
6707660	8250-180 TL	180	38.5	25.6	6.5	11.0	210	5
6707310	8250-200 JC	200	39.5	27.0	6.5	12.4	320	5
6707740	8250-200 TL	200	39.5	27.0	6.5	12.4	270	5
6708040	8250-225 TL	225	42.2	27.7	6.5	13.0	320	1

Code	No.	L	L ₃	W ₃	W ₄	T ₁	↔	☒
1698826	SB 8250-160 JC	160	35.0	22.8	5.8	10.4	204	5
1698834	SB 8250-160 TL	160	35.0	22.8	5.8	10.4	178	5
1698877	SB 8250-180 JC	180	38.5	25.6	6.5	11.0	250	5
1698842	SB 8250-180 TL	180	38.5	25.6	6.5	11.0	220	5
1698885	SB 8250-200 JC	200	39.5	27.0	6.5	12.4	330	5
1698850	SB 8250-200 TL	200	39.5	27.0	6.5	12.4	280	5
1698869	SB 8250-225 TL	225	42.2	27.7	6.5	13.0	330	1

8314

SIDE CUTTER Swedish pattern

- For medium-hard wire
- Induction-hardened precision cutting edges, hardness 63-65 HRC
- To DIN ISO 5749
- Max. cutting capacity Ø mm



Code	No.	L	L ₃	W ₃	T ₁	Ø mm	↔	☒
6742300	8314-125 JC	125	16.0	17.0	8.5	1,6	118	5
6740870	8314-125 TL	125	16.0	17.0	8.5	1,6	96	5

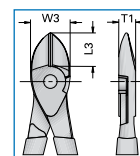
Code	No.	L	L ₃	W ₃	T ₁	Ø mm	↔	☒
6742730	8314-140 JC	140	18.5	18.5	9.5	1,6	152	5
6740950	8314-140 TL	140	18.5	18.5	9.5	1,6	120	5
6743380	8314-160 JC	160	19.0	22.0	10.0	1,6	190	5
6741090	8314-160 TL	160	19.0	22.0	10.0	1,6	165	5

Code	No.	L	L ₃	W ₃	T ₁	Ø mm	↔	☒
1698923	SB 8314-125 JC	125	16.0	17.0	8.5	1,6	128	5
1698893	SB 8314-125 TL	125	16.0	17.0	8.5	1,6	106	5
1698931	SB 8314-140 JC	140	18.5	18.5	9.5	1,6	162	5
1698907	SB 8314-140 TL	140	18.5	18.5	9.5	1,6	130	5
1698966	SB 8314-160 JC	160	19.0	22.0	10.0	1,6	200	5
1698915	SB 8314-160 TL	160	19.0	22.0	10.0	1,6	175	5

8316

POWER SIDE CUTTER American pattern

- For hard wire, including piano wire
- Induction-hardened precision cutting edges, hardness 63-65 HRC
- To DIN ISO 5749
- Max. cutting capacity Ø mm



Code	No.	L	L ₃	W ₃	T ₁	Ø mm	↔	☒
6744190	8316-140 JC	140	17.0	22.0	9.5	1,4	152	5
6711930	8316-140 TL	140	17.0	22.0	9.5	1,4	132	5
6744510	8316-160 JC	160	19.0	24.5	10.0	1,6	210	5
6712070	8316-160 TL	160	19.0	24.5	10.0	1,6	185	5
1439588	8316-180 JC	180	22.6	26.0	11.0	1,8	230	5
1439596	8316-180 TL	180	22.6	26.0	11.0	1,8	210	5
6745080	8316-200 JC	200	22.0	28.0	11.0	2,0	305	5
6712150	8316-200 TL	200	22.0	28.0	11.0	2,0	250	5

Code	No.	L	L ₃	W ₃	T ₁	Ø mm	↔	☒
1699024	SB 8316-140 JC	140	17.0	22.0	9.5	1,4	162	5
1698974	SB 8316-140 TL	140	17.0	22.0	9.5	1,4	142	5
1699032	SB 8316-160 JC	160	19.0	24.5	10.0	1,6	220	5
1698990	SB 8316-160 TL	160	19.0	24.5	10.0	1,6	195	5
1699040	SB 8316-180 JC	180	22.6	26.0	11.0	1,8	240	5
1699008	SB 8316-180 TL	180	22.6	26.0	11.0	1,8	220	5
1699059	SB 8316-200 JC	200	22.0	28.0	11.0	2,0	315	5
1699016	SB 8316-200 TL	200	22.0	28.0	11.0	2,0	260	5

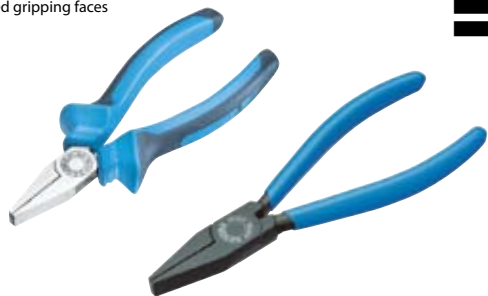
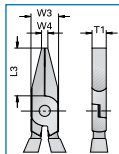




8110

FLAT NOSE PLIERS without wire cutter, serrated

- Short jaws, serrated gripping faces
- DIN ISO 5745



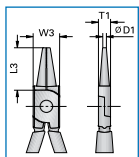
Code	No.	L	L ₂	W ₃	W ₄	T ₁		
6711690	8110-140 JC	140	28.5	16.5	3.6	8.5	127	1
6711500	8110-140 TL	140	28.5	16.5	3.6	8.5	104	1

Code	No.	L	L ₂	W ₃	W ₄	T ₁		
1699547	SB 8110-140 JC	140	28.5	16.5	3.6	8.5	137	1
1699539	SB 8110-140 TL	140	28.5	16.5	3.6	8.5	114	1

8112

ROUND NOSE PLIERS serrated

- Short jaws, serrated gripping faces
- Similar to DIN ISO 5745



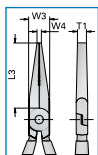
Code	No.	L	L ₂	W ₃	D ₁	T ₁		
6713390	8112-140 JC	140	29.0	17.0	2.5	8.5	117	1
6713200	8112-140 TL	140	28.5	16.5	2.5	8.5	92	1

Code	No.	L	L ₂	W ₃	D ₁	T ₁		
1699598	SB 8112-140 JC	140	29.0	17.0	2.5	8.5	127	1
1699571	SB 8112-140 TL	140	28.5	16.5	2.5	8.5	102	1

8120

FLAT NOSE PLIERS without wire cutter, serrated

- Long jaws, serrated gripping faces
- DIN ISO 5745

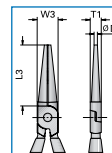
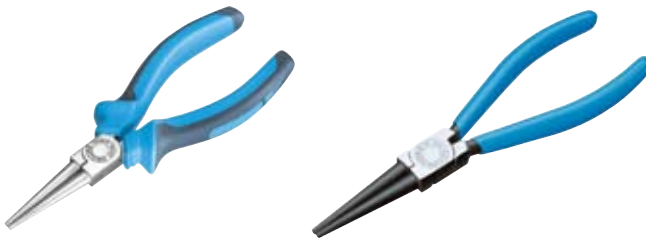


Code	No.	L	L ₂	W ₃	W ₄	T ₁		
6715170	8120-160 JC	160	51	16.5	3.4	9	140	5
6710370	8120-160 TL	160	51	16.5	3.4	9	121	5

8122

ROUND NOSE PLIERS serrated

- Long jaws, serrated gripping faces
- DIN ISO 5745



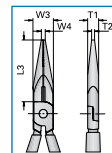
Code	No.	L	L ₂	W ₃	D ₁	T ₁		
6716490	8122-140 JC	140	40	15.5	2.3	8.2	111	1
6710450	8122-140 TL	140	40	15.5	2.3	8.2	91	1
6716810	8122-160 JC	160	48	16.5	2.5	8.7	125	5
6710530	8122-160 TL	160	48	16.5	2.5	8.7	112	5

Code	No.	L	L ₂	W ₃	D ₁	T ₁		
1699636	SB 8122-140 JC	140	40	15.5	2.3	8.2	121	1
1699601	SB 8122-140 TL	140	40	15.5	2.3	8.2	101	1
1699644	SB 8122-160 JC	160	48	16.5	2.5	8.7	135	5
1699628	SB 8122-160 TL	160	48	16.5	2.5	8.7	122	5

8132

NEEDLE NOSE PLIERS with wire cutter, serrated, straight pattern

- Flat-round jaws, straight gripping faces, serrated
- To DIN ISO 5745
- Induction-hardened precision cutting edges, hardness 61-63 HRC



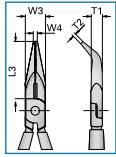
Code	No.	L	L ₂	W ₃	W ₄	T ₁	T ₂		
6718860	8132-140 JC	140	42.0	15.0	2.5	7.8	2.0	118	5
6710610	8132-140 TL	140	42.0	15.0	2.5	7.8	2.0	103	5
6719240	8132-160 JC	160	50.0	16.5	3.2	9.0	2.5	140	5
6710880	8132-160 TL	160	50.0	16.5	3.2	9.0	2.5	120	5
6719670	8132-200 JC	200	75.7	18.5	3.7	9.5	2.8	200	5
6710960	8132-200 TL	200	75.7	18.5	3.7	9.5	2.8	175	5

Code	No.	L	L ₂	W ₃	W ₄	T ₁	T ₂		
1699083	SB 8132-140 JC	140	42.0	15.0	2.5	7.8	2.0	128	5
1699652	SB 8132-140 TL	140	42.0	15.0	2.5	7.8	2.0	113	5
1699091	SB 8132-160 JC	160	50.0	16.5	3.2	9.0	2.5	150	5
1699067	SB 8132-160 TL	160	50.0	16.5	3.2	9.0	2.5	130	5
1699105	SB 8132-200 JC	200	75.7	18.5	3.7	9.5	2.8	210	5
1699075	SB 8132-200 TL	200	75.7	18.5	3.7	9.5	2.8	185	5

8132 AB

NEEDLE NOSE PLIERS with wire cutter, serrated, angled pattern

- Flat-round jaws, angled gripping faces, serrated
- Induction-hardened precision cutting edges, hardness 61-63 HRC
- Similar to DIN ISO 5745



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	140	5
6711180	8132 AB-160 TL	160	46.0	16.5	3.2	9.0	2.5	120	5
6721300	8132 AB-200 JC	200	70.5	18.5	3.7	9.5	2.8	200	5
6711260	8132 AB-200 TL	200	70.5	18.5	3.7	9.5	2.8	175	5

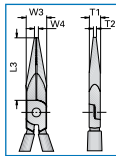
Code	No.	L	L ₃	W ₃	W ₄	T ₁	T ₂	↕	☐
1699148	SB 8132 AB-160 JC	160	46.0	16.5	3.2	9.0	2.5	150	5
1699113	SB 8132 AB-160 TL	160	46.0	16.5	3.2	9.0	2.5	130	5
1699156	SB 8132 AB-200 JC	200	70.5	18.5	3.7	9.5	2.8	210	5
1699121	SB 8132 AB-200 TL	200	70.5	18.5	3.7	9.5	2.8	185	5



8136

MECHANICS PLIERS without wire cutter, straight pattern

- Without wire cutter, flat-round tapered jaws, cross-hatched gripping surfaces
- DIN ISO 5745
- Fine-tipped nose, for safe work in confined spaces



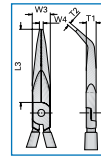
Code	No.	L	L ₃	W ₃	W ₄	T ₁	T ₂	↕	☐
6722700	8136-200 JC	200	75.7	18.5	3.7	9.5	2.8	210	1
6722890	8136-200 TL	200	75.7	18.5	3.7	9.5	2.8	178	1

Code	No.	L	L ₃	W ₃	W ₄	T ₁	T ₂	↕	☐
1699679	SB 8136-200 JC	200	75.7	18.5	3.7	9.5	2.8	220	1
1699660	SB 8136-200 TL	200	75.7	18.5	3.7	9.5	2.8	188	1

8136 AB

MECHANICS PLIERS without wire cutter, angled pattern

- Without wire cutter, flat-round tapered jaws, cross-hatched gripping surfaces
- Fine-tipped nose, for safe work in confined spaces
- Similar to DIN ISO 5745



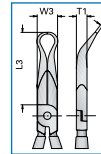
Code	No.	L	L ₃	W ₃	W ₄	T ₁	T ₂	↕	☐
6722970	8136 AB-200 JC	200	70	18.5	3.7	9.5	2.8	210	1
6723000	8136 AB-200 TL	200	70	18.5	3.7	9.5	2.8	178	1

Code	No.	L	L ₃	W ₃	W ₄	T ₁	T ₂	↕	☐
1699695	SB 8136 AB-200 JC	200	70	18.5	3.7	9.5	2.8	220	1
1699687	SB 8136 AB-200 TL	200	70	18.5	3.7	9.5	2.8	188	1

8138

MECHANICS PLIERS without wire cutter, 30° angled

- Without wire cutter, 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



Code	No.	L	L ₃	W ₃	T ₁	T ₂	↕	☐
6723350	8138-200 JC	200	68	18.5	9.5	2.8	210	1
6723430	8138-200 TL	200	68	18.5	9.5	2.8	178	1

Code	No.	L	L ₃	W ₃	T ₁	T ₂	↕	☐
1699733	SB 8138-200 JC	200	68	18.5	9.5	2.8	220	1
1699725	SB 8138-200 TL	200	68	18.5	9.5	2.8	188	1

8385



Code	No.	↕ mm ↕	↕ inch ↕	↕	☐
1979957	8385	229	9	400	1



8386

CONNECTOR PLIERS



Code	No.	mm	mm	mm	mm
2003481	8386	20-60	300	1	5
2003694	E-8386			1	5

142

UNIVERSAL PLIERS 15 settings

- Acc. to DIN ISO 8976 Form C
- With safety box joint and protection against blocking
- Fine adjustment
- Single-hand push-button adjustment
- Long slim jaws
- Long jaws, slim handles with forged serrations in execution C
- Offset gripping faces for self-gripping of nuts and pipes
- GEDORE chrome-vanadium special steel
- Induction-rehardened serrated faces
- SB = self-service pack



Code	No.	L ₁	L ₂	b	h	mm	mm	mm	mm
6416260	142 10 C	250	39	7.5	48	38	310	5	
6416180	142 10 TL	255	39	7.5	48	38	320	5	
6416340	142 10 JC	260	39	7.5	48	38	350	5	
1995553	142 12 C	300	43		55	44		1	
1995413	142 12 TL	300	43		55	44		1	

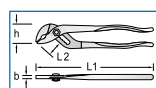
Code	No.	L ₁	L ₂	b	h	mm	mm	mm	mm
1700138	SB 142 10 C	250	39	7.5	48	38	320	5	
1700146	SB 142 10 JC	260	39	7.5	48	38	360	5	
1700111	SB 142 10 TL	255	39	7.5	48	38	330	5	



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
- E-144 = spare bolt, washer and nut



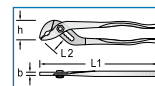
Code	No.	L ₁	L ₂	b	h	mm	mm	mm	mm
6411110	144 4.1/2 C	113	13	3.8	23	16	50	1	
6411380	144 7 C	175	22	5.5	35	26	150	1	

Code	No.	Description	mm	mm
5411170	E-144 A 4.1/2	Set of spares	7	1
5411330	E-144 A 7	Set of spares	10	1

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
- Execution C = handles cross-hatched
- Execution JC = with 2-component handle sleeves
- 145 10 = 7 settings, with extra narrow jaws
- 145 15 = 9 settings
- 145 20 = 11 settings
- E-145 = spare bolt, washer and nut
- SB = self-service pack



Code	No.	L ₁	L ₂	b	h	mm	mm	mm	mm
6412000	145 10 C	250	41	7.8	47	39	320	5	
6415610	145 10 JC	260	41	7.8	47	39	330	5	
6412190	145 15 C	375	46	10.4	72	50	700	1	
6412270	145 20 C	500	55	13.8	98	65	1450	1	

Code	No.	L ₁	L ₂	b	h	mm	mm	mm	mm
1700073	SB 145 10 C	250	32	7.8	47	39	330	5	
1700081	SB 145 10 JC	260	32	7.8	47	39	340	5	

Code	No.	Description	mm	mm
5412140	E-145 A 15	Set of spares 3-5a	20	1
5412220	E-145 A 20	Set of spares 3-5b	35	1

ELECTRONIC PLIERS

- Welded-in double leaf spring cannot be lost, ensuring perfect functioning and a long service life
- Precision box joint, induction-hardened cutting edges
- 2-component handles with thermoplastic inserts, slip-inhibiting comfort grip
- Precision-polished faces
- Two different bevel edge designs for different uses:
 - mini bevel for a normal cut
 - no bevel for almost flush cut



- ESD = electrostatic discharge protection
- 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
- B = non-glare gun-metal finish for reflection-free working



- 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.

BL [JL] = Jaw length, SL [CL] = Cutting edge length

8306-7

ELECTRONIC SIDE CUTTER CARBIDE

- Oval head, with bevel
- Tungsten-carbide cutting edges for an extremely long service life
- Cutting values:
 - Piano wire: 0.6 mm/AWG 22
 - Hard steel: 1.0 mm/AWG 18
 - Nickel wire: 1.2 mm/AWG 16



Code	No.	CL	[mm]		
6727770	8306-7	11	125	65	1

Code	No.	CL	[mm]		
1700642	SB 8306-7	11	125	75	1



8306-5

MINIATURE ELECTRONIC SIDE CUTTER

- Pointed head, with mini bevel
- Cutting values:
 - Hard wire: 0.4 mm/AWG 26
 - Soft steel: 1.0 mm/AWG 18
 - Copper wire: 1.2 mm/AWG 16



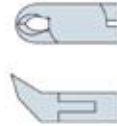
Code	No.	CL	[mm]		
6727340	8306-5	12	125	50	1

Code	No.	CL	[mm]		
1700626	SB 8306-5	12	125	60	1

8308-2

ELECTRONIC CARBIDE MINI DIAGONAL CUTTER

- Long service life
- Tungsten-carbide cutting edges for maximum cutting performance
- Pointed head, without bevel
- Cutting edges angled 55°
- Cutting values:
 - Piano wire: 0.6 mm/AWG 22
 - Hard steel: 1.0 mm/AWG 18
 - Nickel wire: 1.2 mm/AWG 16



Code	No.	CL	[mm]		
1743619	8308-2	12	125	65	1

Code	No.	CL	[mm]		
1745913	SB 8308-2	12	125	75	1

8306-4

ELECTRONIC SIDE CUTTER

- Oval head, without bevel
- Cutting values:
 - Soft steel: 1.0 mm/AWG 18
 - Copper wire: 1.5 mm/AWG 15



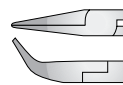
Code	No.	CL	[mm]		
6727180	8306-4	14	125	65	1

Code	No.	CL	[mm]		
1700618	SB 8306-4	14	125	75	1

8307-3

NEEDLE NOSE ELECTRONIC PLIERS

- Slim, narrow, flat-round tapered jaws, angled 45°
- Gripping faces with fine file cut



Code	No.	JL	[mm]		
1743554	8307-3	22	140	65	1

Code	No.	JL	[mm]		
1745859	SB 8307-3	22	140	75	1



8307-4

NEEDLE NOSE ELECTRONIC PLIERS

- Slim, narrow, flat-round tapered jaws
- Smooth-ground gripping faces



Code	No.	JL	mm	mm	mm
1743562	8307-4	31	145	65	1

Code	No.	JL	mm	mm	mm
1745867	SB 8307-4	31	145	75	1

8306-1

ELECTRONIC SIDE CUTTER

- Oval head, with mini bevel
- Cutting values:
Hard wire: 0.4 mm/AWG 26
Soft steel: 1.0 mm/AWG 18
Copper wire: 1.5 mm/AWG 15



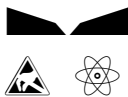
Code	No.	CL	mm	mm	mm
6726450	8306-1	12	125	65	1

Code	No.	CL	mm	mm	mm
1700561	SB 8306-1	12	125	75	1

8305-7

ELECTRONIC DIAGONAL CUTTER

- 30° angle cutting edges, without bevel
- With slim head for confined spaces
- Cutting values:
Soft steel: 0.6 mm/AWG 22
Copper wire: 0.8 mm/AWG 20



Code	No.	CL	mm	mm	mm
6725990	8305-7	6	135	60	1

Code	No.	CL	mm	mm	mm
1700731	SB 8305-7	6	135	70	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

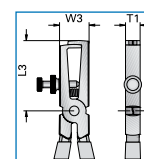


Code	No.	mm	mm ²	mm	mm
6702940	8097	200	0,2-6,0	130	1

8098

STRIPPING PLIERS

- With spring and brass adjusting screw
- For wires 0.8 - 6.0 mm²
- JC = chrome-plated, with 2-component handle protectors
- TL = enamelled black, with blue dipped handle protectors



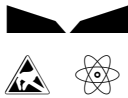
Code	No.	L	L ₂	W ₁	T ₁	mm ²	mm	mm
6708630	8098-160 JC	160	43.5	18.5	8.5	0,8-6,0	167	5
6710020	8098-160 TL	160	43.5	18.5	8.5	0,8-6,0	140	5

Code	No.	L	L ₂	W ₁	T ₁	mm ²	mm	mm
1699164	SB 8098-160 JC	160	43.5	18.5	8.5	0,8-6,0	177	5
1699172	SB 8098-160 TL	160	43.5	18.5	8.5	0,8-6,0	150	5

8308-1

ELECTRONIC MINI DIAGONAL CUTTER

- Pointed head, cutting edges angled 55°, without bevel
- For working in confined spaces
- Cutting values:
Hard steel: 0.4 mm/AWG 26
Soft steel: 1.0 mm/AWG 18
Copper wire: 1.2 mm/AWG 16



Code	No.	CL	mm	mm	mm
1743600	8308-1	12	125	65	1

Code	No.	CL	mm	mm	mm
1745905	SB 8308-1	12	125	75	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 150000 stripping processes



8146

STRIPPING PLIERS WITH EXCHANGEABLE MODULE INSERTS self-adjusting

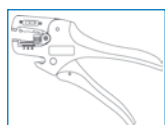
- Self-adjusting cutting and stripping tool (No. 8146) for modern electrical installations and equipment circuitry (90% of all wires can be stripped without any adjustment of the tool)
- The use of easily exchangeable module inserts allows accurate stripping of a wide range of insulation materials, including PVC and PTFE, with just one tool
- 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 12-6
- 8146-3 with V blade: PTFE 0.1-4 mm² / AWG 26-12 (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.	Ø mm ²	AWG		
1830805	8146			136	1
	Stripping pliers, self-adjusting, incl. module insert 8146-1				
1830813	8146-1	0,02-10,0	34-8	51	1
	Module insert with flat blade				
1830821	8146-2	4,0-16,0	12-6	51	1
	Module insert with round blade				
1830848	8146-3	0,1-4,0	26-12	51	1
	Module insert with V-blade				

KNIVES & SCISSORS

8096

SMALL UNIVERSAL SCISSORS

- With insulation stripping notch
- Nickel-plated, with blue handle sleeves



Code	No.	mm		
6707900	8096-140	140	75	1

Code	No.	mm		
1700782	SB 8096-140	140	85	1

4522

ELECTRICIANS' CABLE KNIFE

- With wire stripper, folding blade
- Rosewood-faced handle



Code	No.	mm	mm	mm	
6690240	4522	85	195	75	10

4522 SP

ELECTRICIANS' CABLE KNIFE

- With wire stripper, folding blade
- Rosewood-faced handle



Code	No.	mm	mm	mm	
6295530	4522 SP	80	190	70	5

4629

INSULATING TAPE



Code	No.	L m	mm		
6699540	4629	10	15	28	1

GRIP WRENCHES

137

GRIP WRENCH

- With adjusting screw and release lever, model 137 10 with blue dip-insulated lever
- Forged, hardened and tempered jaws, special jaw shape for secure gripping, clamping and holding
- Automatically welded upper jaw - absolutely solid connection with the sheet steel body
- Intelligent jaw design guarantees a three-point contact with all material cross-sections
- Threaded bore welded at bottom
- No widening under extreme loading
- Safe release
- Special spring keeps release lever under constant pressure
- Nickel-plated



Code	No.	mm	mm	mm	mm		
6406620	137 7	175	7	25	1	300	5
6406700	137 10	240	10	32	1.1/4	550	5
6407270	137 11	280	11	45	1.3/4	750	1
6406890	137 12	300	12	45	1.3/4	1000	1

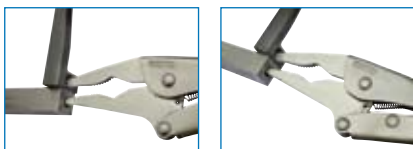
Code	No.	mm	mm	mm	mm		
1700022	SB 137 7	175	7	25	1	310	5
1700030	SB 137 10	240	10	32	1.1/4	560	5



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	mm	inch	mm	inch
1954113	210	280	1	
1868039	255	520	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
- E-137 PB = PVC protective jaws for jaw width 14 x 30 mm



Code	No.	mm	inch	mm	inch	mm	inch
6407000	137 P	250	10	50	2	700	1
6407190	137 PA	250	10	50	2	700	1
5400130	E-137 PB					50	1

139

GEDORE SPECIAL GRIP WRENCH

- With movable lower jaw for clamping over a large area
- Release lever dip-insulated
- Nickel-plated

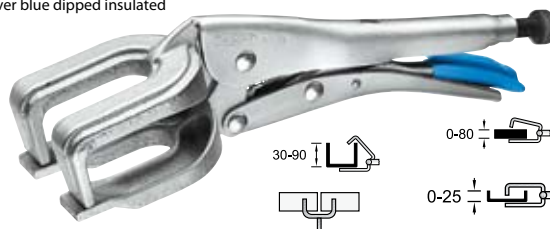


Code	No.	mm	inch	mm	inch	mm	inch
6407940	139	250	10	45	1.3/4	600	1
1700014	SB 139	250	10	45	1.3/4	610	1

138

WELDER'S GRIP WRENCH

- For clamping strips and profile sections when welding
- Malleable cast iron jaws
- Nickel-plated
- Release lever blue dipped insulated

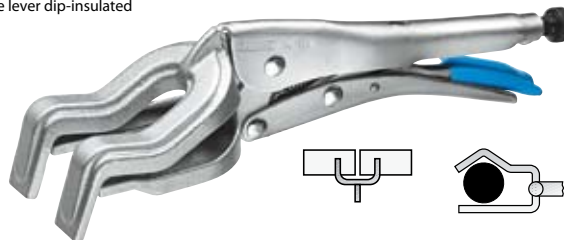


Code	mm	inch	mm	inch
6407350	280	11	900	1

138 X

WELDER'S GRIP WRENCH FOR TUBES

- For clamping tubes and round stock when welding
- Malleable cast iron jaws
- Nickel-plated
- Release lever dip-insulated



Code	mm	inch	mm	inch	mm	inch
6407510	280	11	10-90	3/8-3.1/2	900	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

Code	No.	mm	inch	mm	inch	mm	inch
1700049	SB 138 Y	280	11	95	3.3/4	75	3

138 Z

PROFILE-SECTION GRIP WRENCH

- For clamping extremely bulky profile sections
- Jaws made from forged and welded GEDORE chrome-vanadium special steel
- Extra wide clamping width
- Nickel-plated
- Release lever dip-insulated



Code	No.	mm	inch	mm	inch	mm	inch
6410730	138 Z-460	460	18	280	11	250	10
6410810	138 Z-600	600	24	400	16	400	16

CIRCLIP PLIERS

8000 A 0 - A 4

CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS Form A

- ▣ DIN 5254 Form A
- ▣ Straight nose



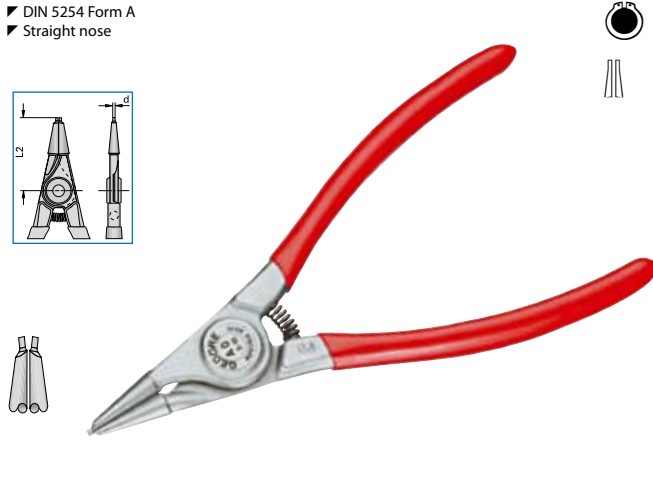
Code	No.	mm	inch	L	L ₂	d	mm	inch
6701380	8000 A 0	3-10	5/32-3/8	141	40.0	0.9	82	5
6701460	8000 A 1	10-25	3/8-1	141	40.0	1.3	82	5
6701540	8000 A 2	19-60	3/4-2.3/8	182	54.0	1.8	167	5
6701620	8000 A 3	40-100	1.5/8-4	230	69.0	2.3	280	1
6701700	8000 A 4	85-140	3.3/8-5.1/2	320	85.5	3.2	550	1

Code	No.	mm	inch	L	L ₂	d	mm	inch
1699180	SB 8000 A 0	3-10	5/32-3/8	141	40.0	0.9	92	5
1699199	SB 8000 A 1	10-25	3/8-1	141	40.0	1.3	92	5
1698257	SB 8000 A 2	19-60	3/4-2.3/8	182	54.0	1.8	177	5
1698273	SB 8000 A 3	40-100	1.5/8-4	230	69.0	2.3	290	1
1698303	SB 8000 A 4	85-140	3.3/8-5.1/2	320	85.5	3.2	560	1

8010 A 0 - A 4

CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS Form A

- ▣ DIN 5254 Form A
- ▣ Straight nose



Code	No.	mm	inch	L	L ₂	d	mm	inch
6704800	8010 A 0	3-10	5/32-3/8	141	40.0	0.9	82	5
6704990	8010 A 1	10-25	3/8-1	141	40.0	1.3	82	5
6705020	8010 A 2	19-60	3/4-2.3/8	182	54.0	1.8	167	5
6705100	8010 A 3	40-100	1.5/8-4	230	69.0	2.3	280	1
6705290	8010 A 4	85-140	3.3/8-5.1/2	320	85.5	3.2	550	1

Code	No.	mm	inch	L	L ₂	d	mm	inch
1700278	SB 8010 A 0	3-10	5/32-3/8	141	40.0	0.9	92	5
1700286	SB 8010 A 1	10-25	3/8-1	141	40.0	1.3	92	5
1700294	SB 8010 A 2	19-60	3/4-2.3/8	182	54.0	1.8	177	5
1700308	SB 8010 A 3	40-100	1.5/8-4	230	69.0	2.3	290	1
1700316	SB 8010 A 4	85-140	3.3/8-5.1/2	320	85.5	3.2	560	1

8000 J 0 - J 4

CIRCLIP PLIERS FOR INTERNAL RETAINING RINGS Form C

- ▣ Straight nose
- ▣ DIN 5256 Form C



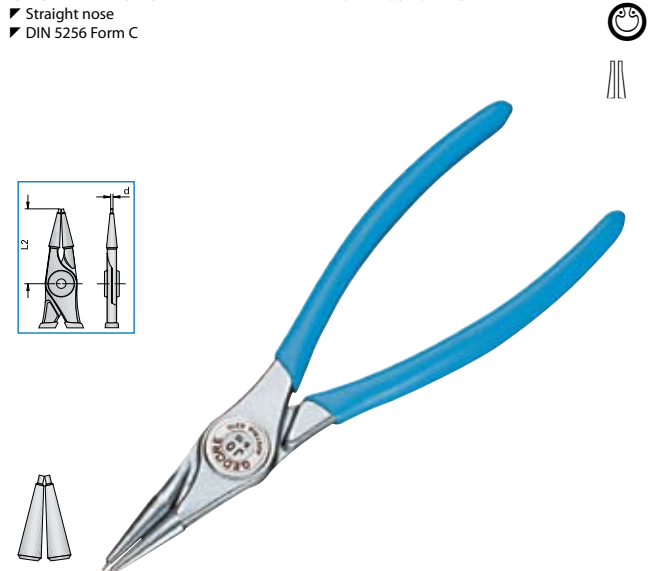
Code	No.	mm	inch	L	L ₂	d	mm	inch
6703240	8000 J 0	8-13	3/8-9/16	141	41.0	0.9	72	5
6703320	8000 J 1	12-25	3/8-1	141	41.0	1.3	72	5
6703400	8000 J 2	19-60	3/4-2.3/8	183	54.0	1.8	146	5
6703590	8000 J 3	40-100	1.5/8-4	230	68.0	2.3	230	1
6703670	8000 J 4	85-140	3.3/8-5.1/2	322	84.5	3.2	490	1

Code	No.	mm	inch	L	L ₂	d	mm	inch
1699296	SB 8000 J 0	8-13	3/8-9/16	141	41.0	0.9	82	5
1699318	SB 8000 J 1	12-25	3/8-1	141	41.0	1.3	82	5
1698311	SB 8000 J 2	19-60	3/4-2.3/8	183	54.0	1.8	156	5
1698346	SB 8000 J 3	40-100	1.5/8-4	230	68.0	2.3	240	1
1699342	SB 8000 J 4	85-140	3.3/8-5.1/2	322	84.5	3.2	500	1

8010 J 0 - J 4

CIRCLIP PLIERS FOR INTERNAL RETAINING RINGS Form C

- ▣ Straight nose
- ▣ DIN 5256 Form C



Code	No.	mm	inch	L	L ₂	d	mm	inch
6705370	8010 J 0	8-13	3/8-9/16	141	41.0	0.9	72	5
6705450	8010 J 1	12-25	3/8-1	141	41.0	1.3	72	5
6705530	8010 J 2	19-60	3/4-2.3/8	183	54.0	1.8	146	5
6705610	8010 J 3	40-100	1.5/8-4	230	68.0	2.3	230	1
6705880	8010 J 4	85-140	3.3/8-5.1/2	322	84.5	3.2	490	1

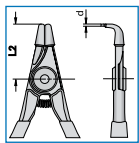
Code	No.	mm	inch	L	L ₂	d	mm	inch
1700375	SB 8010 J 0	8-13	3/8-9/16	141	41.0	0.9	82	5
1700383	SB 8010 J 1	12-25	3/8-1	141	41.0	1.3	82	5
1700391	SB 8010 J 2	19-60	3/4-2.3/8	183	54.0	1.8	156	5
1700413	SB 8010 J 3	40-100	1.5/8-4	230	68.0	2.3	240	1
1700421	SB 8010 J 4	85-140	3.3/8-5.1/2	322	84.5	3.2	500	1



8000 A 01 - A 41

CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS Form B

- DIN 5254 Form B
- 90° angled nose



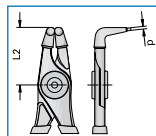
Code	No.	mm	inch	L	L ₂	d		
6702270	8000 A 01	3-10	5/32-3/8	130	29	0.9	82	5
6702350	8000 A 11	10-25	3/8-1	130	29	1.3	82	5
6702430	8000 A 21	19-60	3/4-2.3/8	170	43	1.8	200	5
6702510	8000 A 31	40-100	1.5/8-4	210	53	2.3	280	1
6702780	8000 A 41	85-140	3.3/8-5.1/2	305	64	3.2	600	1

Code	No.	mm	inch	L	L ₂	d		
1699237	SB 8000 A 01	3-10	5/32-3/8	130	29	0.9	92	5
1699245	SB 8000 A 11	10-25	3/8-1	130	29	1.3	92	5
1699253	SB 8000 A 21	19-60	3/4-2.3/8	170	43	1.8	210	5
1698281	SB 8000 A 31	40-100	1.5/8-4	210	53	2.3	290	1
1699288	SB 8000 A 41	85-140	3.3/8-5.1/2	305	64	3.2	610	1

8000 J 01 - J 41

CIRCLIP PLIERS FOR INTERNAL RETAINING RINGS Form D

- DIN 5256 Form D
- 90° angled nose



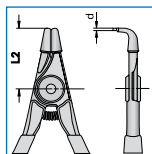
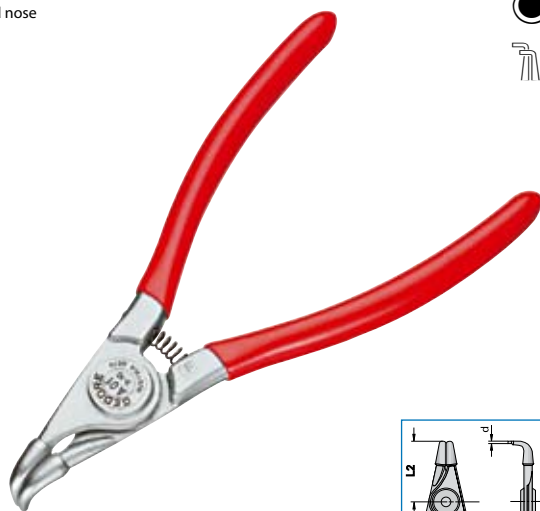
Code	No.	mm	inch	L	L ₂	d		
6704130	8000 J 01	8-13	3/8-9/16	129	28	0.9	72	5
6704210	8000 J 11	12-25	3/8-1	129	28	1.3	72	5
6704480	8000 J 21	19-60	3/4-2.3/8	169	41	1.8	146	5
6704560	8000 J 31	40-100	1.5/8-4	214	50	2.3	230	1
6704640	8000 J 41	85-140	3.3/8-5.1/2	292	65	3.2	490	1

Code	No.	mm	inch	L	L ₂	d		
1699482	SB 8000 J 01	8-13	3/8-9/16	129	28	0.9	82	5
1699490	SB 8000 J 11	12-25	3/8-1	129	28	1.3	82	5
1698338	SB 8000 J 21	19-60	3/4-2.3/8	169	41	1.8	156	5
1699512	SB 8000 J 31	40-100	1.5/8-4	214	50	2.3	240	1
1699520	SB 8000 J 41	85-140	3.3/8-5.1/2	292	65	3.2	500	1

8010 A 01 - A 41

CIRCLIP PLIERS FOR EXTERNAL RETAINING RINGS Form B

- DIN 5254 Form B
- 90° angled nose



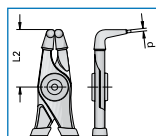
Code	No.	mm	inch	L	L ₂	d		
6705960	8010 A 01	3-10	5/32-3/8	130	29	0.9	82	5
6706180	8010 A 11	10-25	3/8-1	130	29	1.3	82	5
6706260	8010 A 21	19-60	3/4-2.3/8	170	43	1.8	167	5
6706340	8010 A 31	40-100	1.5/8-4	210	53	2.3	280	1
6706930	8010 A 41	85-140	3.3/8-5.1/2	305	64	3.2	550	1

Code	No.	mm	inch	L	L ₂	d		
1700324	SB 8010 A 01	3-10	5/32-3/8	130	29	0.9	92	5
1700332	SB 8010 A 11	10-25	3/8-1	130	29	1.3	92	5
1700340	SB 8010 A 21	19-60	3/4-2.3/8	170	43	1.8	177	5
1700359	SB 8010 A 31	40-100	1.5/8-4	210	53	2.3	290	1
1700367	SB 8010 A 41	85-140	3.3/8-5.1/2	305	64	3.2	560	1

8010 J 01 - J 41

CIRCLIP PLIERS FOR INTERNAL RETAINING RINGS Form D

- DIN 5256 Form D
- 90° angled nose



Code	No.	mm	inch	L	L ₂	d		
6706420	8010 J 01	8-13	3/8-9/16	129	28	0.9	72	5
6706500	8010 J 11	12-25	3/8-1	129	28	1.3	72	5
6706690	8010 J 21	19-60	3/4-2.3/8	169	41	1.8	146	5
6706770	8010 J 31	40-100	1.5/8-4	214	50	2.3	230	1
6706850	8010 J 41	85-140	3.3/8-5.1/2	292	65	3.2	490	1

Code	No.	mm	inch	L	L ₂	Ø-d		
1700448	SB 8010 J 01	8-13	3/8-9/16	129	28	0.9	82	5
1700456	SB 8010 J 11	12-25	3/8-1	129	28	1.3	82	5
1700464	SB 8010 J 21	19-60	3/4-2.3/8	169	41	1.8	156	5
1700472	SB 8010 J 31	40-100	1.5/8-4	214	50	2.3	240	1
1700480	SB 8010 J 41	85-140	3.3/8-5.1/2	292	65	3.2	500	1

SAFETY BEAT BY BEAT

OPTIMUM WORK RESULTS



overview

- Engineers' hammers
- Recoilless hammers
- Safety hammers
- Scraper, chisels
- Pin, Drift and Centre punches



ROT BAND-PLUS hammer

- ① The hammer shaft is pressed into the hammer head.
- ② The ring wedge is pressed in to secure the shaft in the eye of the hammer head.
- ③ The round, conical form ensures an all-round, uniform pressure.
- ④ Tightening the wood screw ensures a positive fit of the safety plate with the shaft.

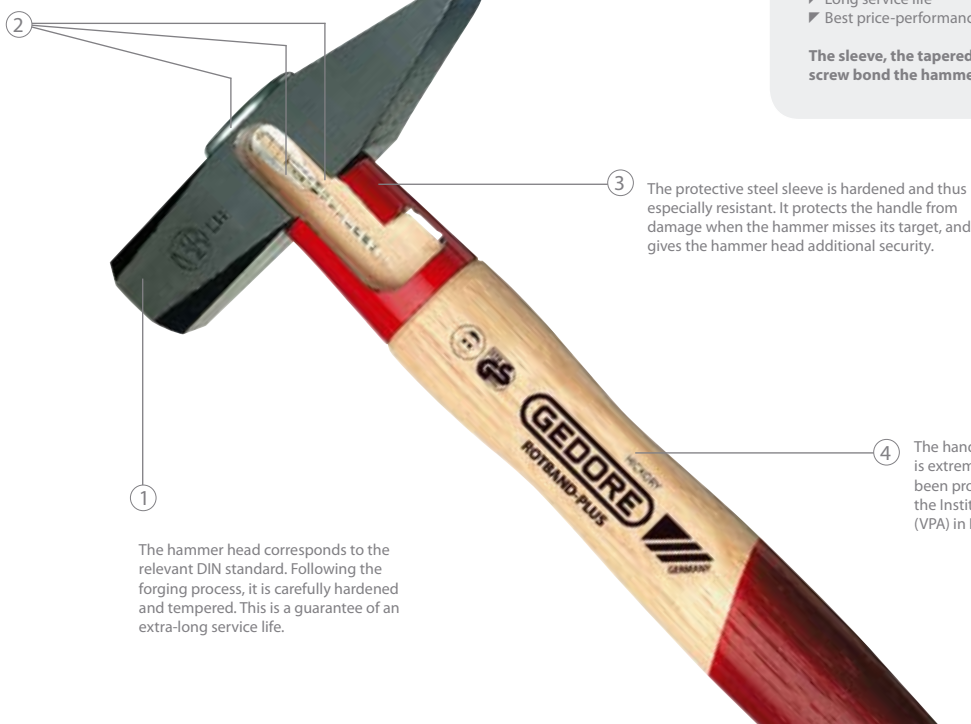
Wood screw with fixing plate and tapered collar

Long protective steel sleeve

Wooden handle in ash or hickory

ROT BAND-PLUS HAMMERS A safe join

The join between the hammer head and the handle is one of the most important features of the ROT BAND-PLUS. A wood screw, a tapered collar and a fixing plate ensure a permanent and safe holding.



All advantages at a glance

- ✓ Patented handle join
- ✓ High safety
- ✓ Long service life
- ✓ Best price-performance ratio

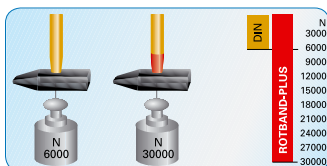
The sleeve, the tapered collar, the fixing plate and the wood screw bond the hammer head and the handle into one unit.

① 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.

③ The protective steel sleeve is hardened and thus especially resistant. It protects the handle from damage when the hammer misses its target, and gives the hammer head additional security.

④ The handle in hand-friendly wood, is extremely bend-resistant. This has been proven by tests carried out at the Institute for testing and checking (VPA) in Remscheid.

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 ROT BAND-PLUS hammers more than five times required force was reached.



Due to the hardened ROT BAND-PLUS protective sleeve for the handle and the fixing plate, the bending strength of the ROT BAND-PLUS hammers compared to standard DIN hammers was increased several

Safety principle



Unprotected hammer handle - After 30 impacts: Noticeable damage to the handle - risk of breakage!



Wooden handle with ROT BAND-PLUS Safety Feature - After 1,000 impacts: Slight traces in the paint, no deformation, absolutely firm seating.



With the standardised ROT BAND-PLUS handles every standardised hammer head can be turned into a ROT BAND-PLUS hammer.



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 regulation 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 annual 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.

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
- 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

HAMMERS

500 F

ENGINEERS' HAMMER

- Forged hammer head made from special steel
- Carefully hardened and tempered
- Striking face and pein polished, accurate chamfer
- Nearly unbreakable fibreglass handle with plastic grip
- Additionally hardened handle protective steel sleeve, up from 1000 g with secured head
- Induction tempered edges of the flat side of the head available on request



Code	No.	mm	mm	mm
8598180	500 F-200	200	330	6
8598260	500 F-300	300	460	6
8598340	500 F-400	400	605	6
8598420	500 F-500	500	710	6
8598500	500 F-600	600	835	6
8598690	500 F-800	800	1025	6
8598770	500 F-1000	1000	1315	6
8598850	500 F-1500	1500	1890	6
8598930	500 F-2000	2000	2460	6

4 E + H

ENGINEERS' HAMMER

- Forged hammer head DIN 1041
- Carefully hardened and tempered
- Striking face and pein polished, accurate chamfer
- Ash (4 E) or hickory handle (4 H) DIN 5111



Code	No.	mm	mm	mm
8586090	4 E-50	50	85	6
8586170	4 E-100	100	150	6
8586250	4 E-200	200	255	6
8586330	4 E-300	300	420	6
8586410	4 E-400	400	510	6
8586680	4 E-500	500	610	6
8586760	4 E-600	600	730	6
8586840	4 E-800	800	970	6
8586920	4 E-1000	1000	1235	6
8587060	4 E-1500	1500	1755	6
8587140	4 E-2000	2000	2345	6
8590010	4 H-50	50	85	6
8590280	4 H-100	100	150	6
8590360	4 H-200	200	255	6
8590440	4 H-300	300	420	6
8590520	4 H-400	400	510	6
8590600	4 H-500	500	610	6
8590790	4 H-600	600	730	6
8590870	4 H-800	800	970	6
8590950	4 H-1000	1000	1235	6
8591090	4 H-1500	1500	1755	6
8591170	4 H-2000	2000	2345	6

600 E + H

ENGINEERS' HAMMER ROTBAND-PLUS

- Forged hammer head DIN 1041 made from special steel
- With contoured ash (600 E) or hickory handle (600 H) DIN 5111
- Additionally shaped with a long hardened handle protective steel sleeve
- Patented handle join, high working safety, long service life, best price-performance ratio



Code	No.	mm	mm	mm
8581610	600 E-100	100	170	6
8581880	600 E-200	200	275	6
8581960	600 E-300	300	425	6
8582180	600 E-400	400	510	6
8582260	600 E-500	500	615	6
8582340	600 E-600	600	765	6
8582420	600 E-800	800	1000	6
8582500	600 E-1000	1000	1215	6
8582690	600 E-1500	1500	1750	6
8582770	600 E-2000	2000	2375	6
8582850	600 H-100	100	170	6
8582930	600 H-200	200	275	6
8583070	600 H-300	300	425	6
8583150	600 H-400	400	510	6
8583230	600 H-500	500	615	6
8583310	600 H-600	600	765	6
8583580	600 H-800	800	1000	6
8583660	600 H-1000	1000	1215	6
8583740	600 H-1500	1500	1750	6
8583820	600 H-2000	2000	2375	6

625 H

HAMMER KOMBI-PLUS

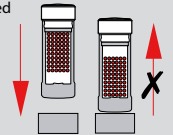
- Combination of engineers' and plastic hammer
- ROTBAND-PLUS execution
- With hickory handle (E 600 H) with hardened handle protective steel sleeve
- Spare head E 225-27



Code	No.	mm	mm	mm
2010844	625 H-500	27	320	500

RECOILLESS HAMMERS

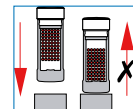
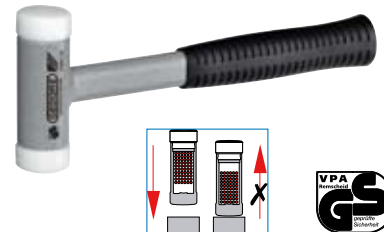
- Due to the special filling insert in the hammer head a considerable higher striking effect is reached compared to standard engineers' and recoilless hammers
- Universal use for service and assembly work, with all advantages of a recoilless hammer with higher striking effect
- "Dead blows" with no recoil reduces stress on muscles, nerves and wrists
- Reduction in expenses due to universal use as an engineer's and recoilless hammer
- Recoilless hammers improve effect of impact and so protect sensitive surfaces
- Each blow is up to 100% 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



248 ST

RECOILLESS HAMMER

- With very robust and durable steel tube handle
- Splinter-proof, shatter-proof and wear-resistant polyamide heads, 75 Shore D
- Powder-coated with silver hammer-effect enamel

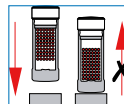
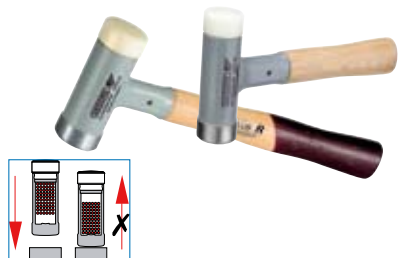


Code	No.	mm	mm	mm
8724070	248 ST-25	270	25	370
8828950	248 ST-30	290	30	585
8829090	248 ST-35	295	35	670
8829170	248 ST-40	300	40	820
8829410	248 ST-45	305	45	1030
8829250	248 ST-50	310	50	1180
8829330	248 ST-60	335	60	1800
8724150	248 ST-70	335	70	2400

247 H

COMBINATION HAMMER KOMBI-PLUS R

- Reduction in expenses due to universal use as an engineers' and recoilless hammer
- With hickory handle (E 247 H)
- With exchangeable insert in breakage and wear-resistant modified polyamide (E 247), 75 Shore D
- DBGM (German utility patent)



Code	No.	mm	mm	mm
1603299	247 H-30	305	30	520
1885979	247 H-30-200	200	30	480
1603396	247 H-35	310	35	670
1687883	247 H-40	330	40	820
1605313	E 247 H-30	270	10	1
1630709	E 247 H-35	270	14	1
1688014	E 247 H-40	290	135	1
1605305	E 247-30	30	19	1
1605380	E 247-35	35	27	1
1688022	E 247-40	40	40	1



CHISELS

WHAT IS THE SPECIAL ABOUT GEDORE STRIKING TOOLS

- ✓ The material (45 CrMoV7) used by GEDORE is a pure air-hardening steel which hardens at a temperature of about 850°C in still air. This material features very high stability and enormous strength. The tools cannot break even under the hardest working conditions. Pin punches, drift punches and centre punches are also hot forged in our factory and are thus provided with a very homogeneous structure.
- ✓ All tools are fully hardened over their whole length
- ✓ The hammer heads of our tools are electro-inductively and hence extremely homogeneously tempered. In this way the maximum stability is achieved and splintering is avoided.



PROTECTIVE HAND GUARD 108 UNI

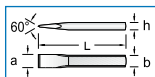
- ✓ The 108 UNI protective hand guard recently won the Product Design Award 2008 of the prestigious International Forum (IF) for its attractive design. This competition is one of the oldest design competitions anywhere in the world. For more than 50 years, the logo has been synonymous with high-quality design awards.



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, free of burrs
- ✓ * not standardised

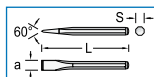


Code	No.	*	L	a	b	h	↺↻	📦
8698560	95-100		100	15	14	9	75	10
8698640	95-125		125	15	14	9	125	10
8698720	95-150		150	18	17	11	225	10
8698800	95-175		175	21	20	12	270	10
8698990	95-200		200	24	23	13	400	10
8699610	95-225	*	225	24	23	13	440	10
8699020	95-253		250	25	23	13	480	10
8699100	95-250	*	250	28	26	13	560	10
8699290	95-303		300	26	23	13	560	10
8699370	95-300	*	300	30	26	13	700	10
8699450	95-400	*	400	30	26	13	905	10
8699530	95-500	*	500	30	26	13	1140	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, free of burrs

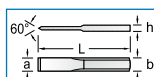


Code	No.	L	a	s	↺↻	📦
8703820	97-125	125	12	10	90	10
8703900	97-150	150	16	12	140	10
8704040	97-175	175	20	16	240	10
8704120	97-200	200	22	18	305	10
2004666	97-250	250	24	20	405	10

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, free of burrs
- ✓ 104 HS with protective hand guard 108 UNI

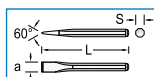
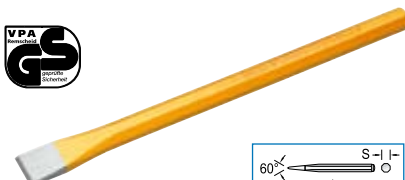


Code	No.	L	a	b	h	↺↻	📦
8723850	104	240	26	26	7	245	1
8723930	104 HS	240	26	26	7	405	1

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, free of burrs
- ✓ * not standardised

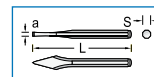


Code	No.	*	L	a	s	↺↻	📦
8731280	110-216		200	23	16	295	10
8731440	110-256		250	23	16	380	10
8731600	110-316	*	300	23	16	460	10
8731790	110-318		300	26	18	635	10
8731870	110-358		350	26	18	700	10
8731950	110-418	*	400	26	18	810	10
8732090	110-420		400	30	20	970	10
8732170	110-520		500	30	20	1240	1
8732250	110-622	*	600	32	22	1510	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, free of burrs

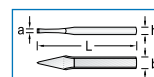
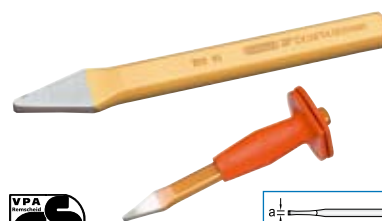


Code	No.	L	a	s	↺↻	📦
8704630	98-125	125	5	10	90	10
8704710	98-150	150	7	12	140	10
8704980	98-175	175	9	16	240	10
8705010	98-200	200	10	18	305	10

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, free of burrs
- ✓ 96 HS with protective hand guard 108 UNI

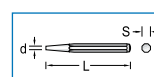
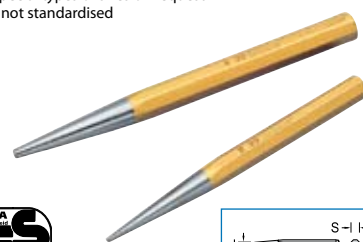


Code	No.	L	a	b	h	↺↻	📦
8702180	96-125	125	5	14	9	140	10
8702260	96-150	150	6	17	11	220	10
8702340	96-175	175	7	17	11	270	10
8702420	96-200	200	8	20	12	380	10
8702500	96-250	250	9	23	13	535	10
8702690	96-300	300	10	23	13	690	10
8702770	96 HS-250	250	9	23	13	695	1
8702850	96 HS-300	300	10	23	13	850	1

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



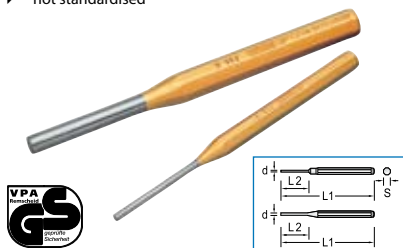
Code	No.	*	L	s	d	↺↻	📦
8708700	99 10-1		120	10	1	60	10
8708970	99 10-2		120	10	2	60	10

Code	No.	*	L	s	d	±	±
8709190	99 10-3		120	10	3	60	10
8709350	99 10-4		120	10	4	60	10
8709510	99 10-5		120	10	5	60	10
8709780	99 10-6		120	10	6	60	10
8710520	99 12-1		120	12	1	90	10
8710790	99 12-2		120	12	2	90	10
8710950	99 12-3		120	12	3	90	10
8711170	99 12-4		120	12	4	90	10
8711330	99 12-5		120	12	5	90	10
8711410	99 12-6		120	12	6	90	10
8711680	99 12-7		120	12	7	100	10
8711760	99 12-8		120	12	8	105	10
8711840	99 12-9	*	120	12	9	105	10
8711920	99 12-10	*	120	12	10	110	10
8713890	99 15-9		150	12	9	130	10
8713970	99 15-10		150	12	10	135	10
8714430	99 15-12	*	150	14	12	185	10
8714940	99 15-14	*	150	16	14	245	10

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



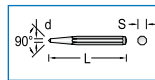
Code	No.	*	L ₁	L ₂	d	s	±	±
2004658	119-1,5	*	110	30	1.5	8	65	10
8758640	119-2		150	30	2.0	10	65	10
8758720	119-2,5	*	150	30	2.5	10	65	10
8758800	119-3		150	40	3.0	10	65	10
8758990	119-3,5	*	150	40	3.5	10	65	10
8759020	119-4		150	50	4.0	10	65	10
8759290	119-5		150	50	5.0	10	70	10
8759370	119-6		150	50	6.0	10	75	10
8759450	119-7	*	150	50	7.0	12	105	10
8759530	119-8		150	50	8.0	12	110	10
8759610	119-9	*	150	50	9.0	12	115	10
8759880	119-10	*	150	50	10.0	12	125	10
8759960	119-12	*	150	50	12.0	14	180	10
8760110	119-84	*	180	80	4.0	10	80	10
8760380	119-86	*	180	80	6.0	10	85	10
8761350	119-175		175	85	6.0	10	85	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	60	10
8721130	100-12		120	12	5	95	10
8721210	100-15		150	12	5	120	10
8721480	100-16	*	150	16	8	240	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	128	1
8870800	E 101			4	12	1

116 A - 116 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 long pattern



Code	No.	Execution	±	±
8757240	116	wooden stand	730	1
8758050	116 D	metal case with lid	800	1
8757670	116 A	PVC holder	510	1
8839990	116 L	PVC holder	525	1
	119-2 -3 -5 -84 -86 -175			

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



Code	No.	Execution	±	±
8753680	113	PVC holder	450	1
	99 10-1 2 3			
	99 12-4 5			
	100-10			
8754060	113 D	metal case with lid	720	1
	99 10-1 2 3			
	99 12-4 5			
	100-10			

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



Code	No.	Execution	±	±
8725200	106	PVC holder	550	1
	97-125 150			
	98-125			
	99 12-3			
	100-10			
	119-4			
8725710	106 D	Metal case with lid	820	1
	97-125 150			
	98-125			
	99 12-3			
	100-10			
	119-4			



SRAPERS

130

THREE-EDGED BEARING SCRAPER

- Made from special steel
- Working ends polished
- With wooden handle
- Flanged blade



Code	No.	1 mm	2 mm	3 mm	4 mm
8777270	130-125	125	225	95	10
8777350	130-150	150	270	120	10
8777430	130-200	200	315	150	10
8777510	130-250	250	365	200	10

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.	1 mm	2 mm	3 mm	4 mm
8778910	132-100	100	200	70	10
8779050	132-125	125	225	80	10
8779130	132-150	150	270	100	10
8779210	132-175	175	295	120	10
8779480	132-200	200	315	155	10
8779560	132-250	250	365	210	10
8779640	132-300	300	415	290	10

133

FLAT SCRAPER

- Acc. to DIN 8350 Form A
- Made from special steel
- Working ends polished
- With wooden handle
- Flanged blade



Code	No.	1 mm	2 mm	3 mm	4 mm
8780220	133 F-100	100	200	115	10
8780300	133 F-125	125	225	125	10
8780490	133 F-150	150	270	140	10
8780570	133 F-175	175	295	150	10
8780650	133 F-200	200	315	220	10
8780730	133 F-250	250	365	310	10
8780810	133 F-300	300	415	290	10

SAWS

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)



Code	No.	1 mm	2 mm	3 mm	4 mm
6500210	403	410	460		1
5500350	403 A-405 A		55		10
5500430	403 B-405 B		55		10

404

SMALL SAW FOR METAL PUK

- Bright nickel-plated
- Saw blade 404 A-406 A



Code	No.	1 mm	2 mm	3 mm	4 mm
6500480	404	290	250		1
5501080	404 A-406 A	145	20		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



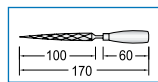
Code	No.	1 mm	2 mm	3 mm	4 mm
6501020	406	250	250		1
5501080	404 A-406 A	145	20		10

FILES - SCRIBERS

8728

KEY FILE SET 6 pieces

- In blue plastic wallet
- DIN 7283



Code	No.	5 types	Cut	1 mm	2 mm
6771910	8728		2	115	1

8701

HAND FILE

- PVC handle
- DIN 7261, Form A
- Cut: 2



Code	No.	L	L'	W	H	1 mm	2 mm
6768020	8701 2-6	150	6	16	4	65	1
6768100	8701 2-8	200	8	20	5	180	1
6768290	8701 2-10	250	10	25	6	280	1

8719

TRIANGULAR FILE

- PVC handle
- DIN 7261, Form C
- 2-6 = not standardised
- Cut: 2



Code	No.	L	L'	W	H	1 mm	2 mm
6769260	8719 2-6	150	6	10	45	1	
6769340	8719 2-8	200	8	14	140	1	
6769420	8719 2-10	250	10	17	250	1	

8722

ROUND FILE

- PVC handle
- DIN 7261, Form F
- Cut: 2



Code	No.	L	L'	Ø	H	1 mm	2 mm
6770000	8722 2-6	150	6	6.0	30	1	
6770190	8722 2-8	200	8	7.5	100	1	
6770270	8722 2-10	250	10	9.5	120	1	

8725

HALF-ROUND BLUNT FILE

- PVC handle
- DIN 7261, Form E
- Cut: 2



Code	No.	L	L'	W	H	1 mm	2 mm
6770350	8725 2-6	150	6	16	4.5	80	1
6770430	8725 2-8	200	8	20	6.0	165	1
6770510	8725 2-10	250	10	25	7.0	280	1

745

SCRIBER

- Made from special steel



Code	No.	1 mm	2 mm	3 mm	4 mm
6559530	745	250	55		10

746

SCRIBER

- Tungsten carbide, with retractable, replaceable tip (E-746)



Code	No.	1 mm	2 mm	3 mm	4 mm
6559610	746	140	20		10
5545100	E-746	35	2		1

MEASURING TOOLS + SPECIAL HELPERS

702

FEELER GAUGE SET, FAN PATTERN

- With protective handle, folding, blade length 100 mm
- 702 22 A + 702 26 A, each incrementing by 1/1000"



Code	No.	μm	mm	inch	mm
6547520	702 8 M	5 10 15 20 25 30 40 50/100	38	5	
6547600	702 88 M	3 4 5 6 7 8 9 10/100	28	5	
6547790	702 13 M	5 10 15 20 25 30 40 50 60 70 80 90 100/100	70	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	70	5	
6548250	702 8 A	.002 .004 .006 .008 .010 .012 .015 .020"	38	1	
6548410	702 11 A	.0015 .002 .003 .004 .006 .008 .010 .012 .015 .020 .025"	45	1	
6548680	702 13 A	.002 .003 .004 .005 .006 .008 .010 .012 .015 .020 .025 .030 .035"	56	5	
6548760	702 22 A	.004 -.025"	85	5	
6548840	702 26 A	.0015 -.025"	85	1	

710

POCKET VERNIER CALLIPER

- DIN 862, Form A 2
- Quick locking, for internal and external measurements, with ground tips and depth gauge
- In leather wallet



Code	No.	(=mm=)	mm	inch	mm
6555030	710	213	140	5.1/2	200

710-80

VERNIER CALLIPER, SMALL

- With inside and outside jaws, ground tips, depth gauge
- In leather pouch

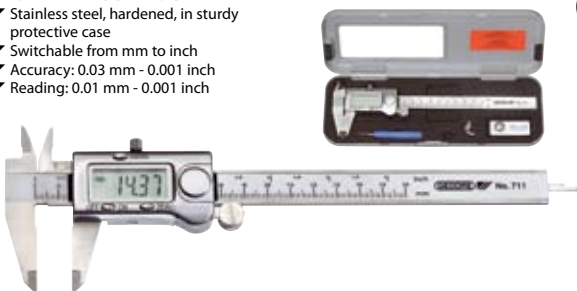


Code	No.	mm	mm
1933205	710-80	100	1

711

DIGITAL MEASURING CALLIPER

- Stainless steel, hardened, in sturdy protective case
- Switchable from mm to inch
- Accuracy: 0.03 mm - 0.001 inch
- Reading: 0.01 mm - 0.001 inch



Code	No.	(=mm=)	mm	inch	mm
6550070	711	230	153	6	50

717

STEEL RULE



Code	No.	(=mm=)	mm	inch
1965603	717-30	300	10	1

4534

STEEL TAPE MEASURE

- With belt clip and rewind stop
- mm-divisions
- Approved standard mark



Code	No.	Lm	mm	mm	inch
6697920	4534-3	3	13	100	5
6698060	4534-5	5	19	200	5
6698140	4534-8	8	25	360	1

716

ANGLE MEASURE with adjusting screw



Code	No.	mm	mm
1965581	716	200	1

715

CONTROL SQUARE



Code	No.	mm	mm
1965565	715-1	200	1
1965573	715-2	200	1



740

SPRING DIVIDERS



Code	No.	l mm	mm	mm
1965557	740	100	1	

718

INSPECTION MIRROR



Code	No.	Ø	mm	mm	mm
1979841	718	60	90	1	

640

MAGNETIC LIFTER

- With flexible shaft and plastic handle
- Bright nickel-plated



Code	No.	l mm	Magnet-Ø	Ø	mm	mm
6531010	640-500	460	9	500	80	1
6531280	640-1800	520	15	1800	250	1
6531360	640-3000	520	19	3000	320	1

640

MINI MAGNETIC LIFTER

- Flexible thin shaft for the smallest apertures



Code	No.	l mm	Magnet-Ø	Ø	mm	mm
6530630	640-120	400	4	120	25	1
1785338	640-270	400	5	270	21	1

641

CLAW GRIPPER

- With flexible shaft
- Max. gripping capacity 14 mm



Code	No.	l mm	Ø	mm	mm
6531520	641	540	7	100	1

720

TWEEZERS

- With angled tips
- Bright nickel-plated



Code	No.	l mm	mm	mm
6556270	720	150	24	5

721

CROSS TWEEZERS

- With straight tips
- Bright nickel-plated



Code	No.	l mm	mm	mm
6556350	721	160	35	1

722-1

PRECISION TWEEZERS

- Flat, fine, long points
- Satin non-glare finish



Code	No.	l mm	mm	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.	l mm	mm	mm
1881663	722-1 ESD	130	22	1

722-2

PRECISION TWEEZERS

- Flat, fine points
- Satin non-glare finish



Code	No.	l mm	mm	mm
1881671	722-2	95	10	1

722-3/-4

ELECTRONIC TWEEZERS

- Curved, fine, long points
- 722-4 double curved
- Satin non-glare finish



Code	No.	l mm	mm	mm
1881698	722-3	122	18	1
1881701	722-4	122	16	1

CONTROLLED SAFETY

SECURE PRECISION JOINTS

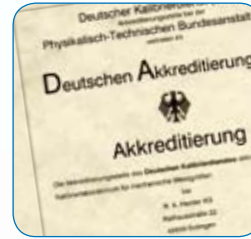


overview

- ▀ Torque angle indicators
- ▀ Special DREMO tools
- ▀ DREMOMETER range
- ▀ Torque screwdrivers
- ▀ Torque wrenches



OUR SERVICE - QUALIFIED AND CUSTOMISED



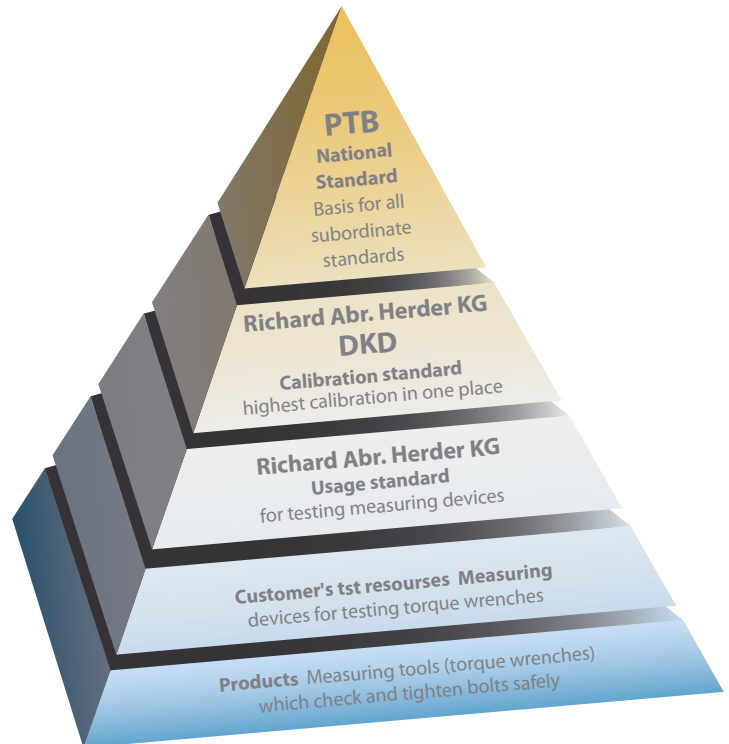
- Our reasonably-priced factory calibration service for RAHSOL products as well as our proprietary accredited DKD calibration laboratory create certificates in accordance with the applicable standards and requirements as per DIN EN ISO 9000 ff.
- Our repair service will repair your RAHSOL torque wrenches within 5-7 working days. On request, we will of course provide you with replacement tools - for a small fee.

OUR FACTORY CALIBRATION SERVICE WITH INSPECTION CERTIFICATE TO INDUSTRY STANDARD

Since 01/01/2007, all our own, mechanical torque wrenches will be calibrated and adjusted in our factory. Each calibrated torque wrench will be provided with a inspection certificate.

The affixed works calibration mark provides an indicator of tested safety (month/year) at a glance. The mark will serve to support your inspection equipment monitoring.

We recommend an annual verification of your torque wrenches. Remember that the verification interval can be shorter if you reach the 5000 load cycles earlier on account of move intensive use.



Service concept

We have developed a new, customer-orientated service concept. A service flyer, with associated advice sheet gives you all the information you need about our services and procedure at a glance. Or simply visit us on the Internet at www.gedore.de. Our service flyer, including advice sheet, can be downloaded from the site.

Service at a glance



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 optimum tool - from standard solutions up to and including the 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...



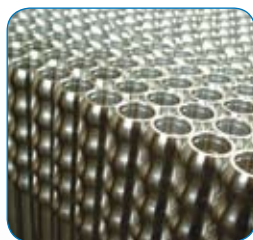
Service-telephone

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

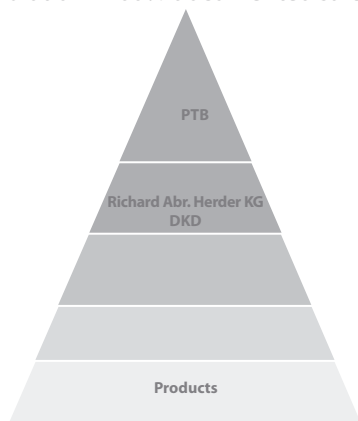
Instant help on the service-telephone





DKD CALIBRATION WITH 100% SAFETY

DKD calibration - 100% documented safety



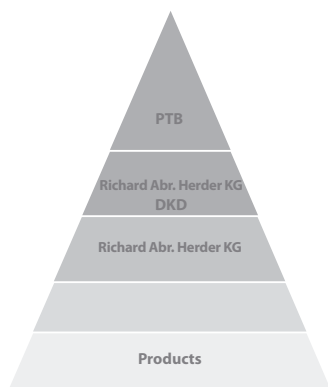
- ✓ Direct traceability to the national standard
- ✓ DKD calibration as per DKD guidelines 3-7 / 3-8 / DIN EN ISO 6789
- ✓ Minimum measurement inaccuracies
- ✓ DKD calibration of our own products and those of other manufactures
- ✓ Air-conditioned laboratory controls under the most stringent conditions
- ✓ DKD calibration certificate and DKD calibration stamp

DKD Calibration

Test subject	Test device	Test result
Mech. torque wrench 0,2-1.000 N · m	PTB 1%	DKD DIN EN ISO 6789
Electr. torque wrench 2-1.000 N · m	PTB 0,2%	DKD DKD-R 3-7
Torque testers 2-1.000 N · m	PTB 0,2%	DKD DKD-R 3-8

FACTORY CALIBRATION - SOLID RELIABILITY!

We give you the security you need



- ✓ Direct traceability to the national standard
- ✓ Calibration according to the standard DIN EN ISO 6789
- ✓ RAHSOL calibration if necessary with adjustments and repairs - for RAHSOL products only
- ✓ RAHSOL test certificate and calibration stamp

Calibration

Test subject	Test device	Test result
Mech. torque wrench 0,2-1.000 N · m		DIN EN ISO 6789
Electr. torque wrench 2-1.000 N · m		
Torque testers 2-1.000 N · m		

Remark

The creation of a test certificate in accordance with RAHSOL criteria, as well as adjustment and repair, is only possible for torque wrenches and torque testers made by RAHSOL. Depending on requirements and on the customer's wishes, we will calibrate in accordance with DKD guidelines or according to RAHSOL criteria.

DREMOMETER - PERMANET PRECISION

Torque wrench made of high-strength aluminium alloy

DREMOMETER - permanet precision

Drive in accordance with application: DREMOMETER are available for a large variety of areas of application in the area of 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 angular tightening (W), spigot end (Z) and rectangular cavity (SE) particularly for hand-to-access locations and where space problems are the case. All DREMOMETER models have separate ratchet heads. And there are good reasons for that: It is possible to optionally work with or without the ratchet head function as desired.

② 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.

③ Automatic resetting: The DREMOMETER gives operator an audible signal and tactile impulse and is back in operation in an instant.

④ Lightweight and pleasant: The aluminium housing and the ergonomically designed handgrip enable simple and safe operation over wide tightening ranges.

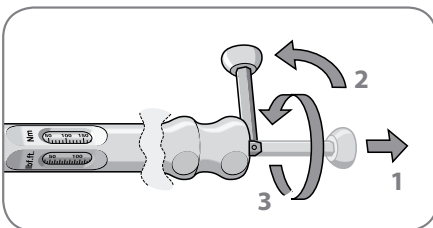
⑤ Scale: Clear dual scale N-m and lbf-in/lbf-ft on every DREMOMETER

⑥ Max. +/- 3% tolerance: Of the relevant scale value, guaranteed DREMOMETER precision of +/- 3% of reading for the least 5000 tightening cycles. Includes a test certificate according to DIN EN ISO 6789. Serial number in the wrench and on the certificate is used for unambiguous product identification, traceable to national standards.

⑦ Maximum precision: Extended tool life and long life cycle even if used intensely over a long period.

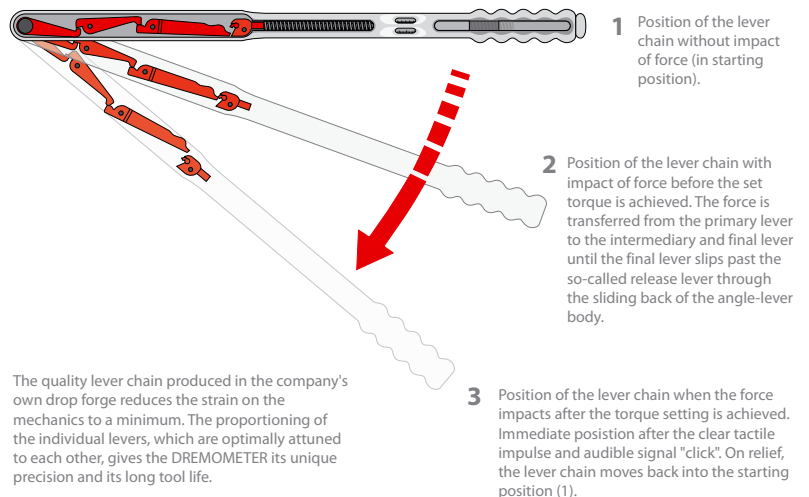


TECHNOLOGY



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. All DREMOMETER are also available with locking and safety device (A+S).

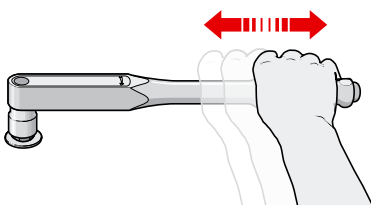
Working principle



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.

DREMOMETER Type AM-F

Operable without inaccuracies



Irrespective of where you apply the force - whether it be at the centre of the handgrip or at another part of the DREMOMETER, with both hands or using extension tube - your torque setting will always be attained precisely - without shifts in value. By virtue of the unique single-axis location of the centre of rotation and the output square drive, the DREMOMETER is a tool which can be operated free from errors. By contrast to conventional torque wrenches, this single lever enables tightening to take place without shifts in the measured value and without interfering with the precision caused by activation outside of the handgrip. (However, bear possible shifts in value in mind when activating the DREMOMETER with special spanners or in general in the case of spanners having different depth gauges.)



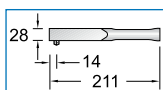
753

DREMOMETER MINI 2-12 N-m / 18-106 lbf-in

- Working accuracy: +/- 3% tolerance of scale set torque
- 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
- Micrometer scale graduations of 0.05 N-m
- Window with a magnifying-glass effect

6,3

1/4"



Code	No.	Type	Inclusion	
1957694	753-11	MINI	in plastic box	253
1957708	753-12	MINI	in plastic cassette	628
1957724	753-13	MINI	Set mm 4 5 5,5 6 7 8 9 10 1 2 3 4 5,5 6,5 3 4 5 6 T20 T27 T30 754-00 55 + 97 mm 2098	968
1957732	753-14	MINI	Set INCH 3/16 7/32 1/4 9/32 5/16 11/32 3/8 7/16" 1 2 3 4 5,5 6,5 3 4 5 6 T20 T27 T30 754-00 55 + 97 mm 2098	968

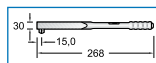
8554 - 8559 AM

DREMOMETER 6-30 N-m / 50-270 lbf-in

- Working accuracy: +/- 3% tolerance of scale set torque
- Full-metal construction from high-strength aluminium alloy
- With 1/4" single square drive for controlled clockwise tightening (type AM No. 8554) or double square drive for bi-directional tightening (type AML No. 8559)
- If ordering with pre-set-value locking and safety device (type AM/AML A+S No. 7554/7559), please specify the N-m value - if fixed factory-pre-setting is desired

6,3

1/4"



Code	No.	Type	Inclusion	
7775440	8554-01	AM	in plastic box	580
7775870	8559-01	AML	in plastic box	580
1210891	7554-01	AM A+S	in plastic box, with pre-set-value locking and safety device	580
1210904	7559-01	AML A+S	in plastic box, with pre-set-value locking and safety device	580
7674090	8554-02	AM	in plastic cassette	910
7673790	8559-02	AML	in plastic cassette	910
7674170	8554-03	AM	Set mm 8 9 10 11 12 13 14 3 5,5 4 5 6 8 T20 T27 T30 754-00 55 + 97 mm	1300
7675060	8559-03	AML	Set mm 8 9 10 11 12 13 14 3 5,5 4 5 6 8 T20 T27 T30 754-00 55 + 97 mm	1300
7674410	8554-04	AM	Set INCH 9/32 5/16 11/32 3/8 7/16 1/2 9/16 3 5,5 4 5 6 8 T20 T27 T30 754-00 55 + 97 mm	1300
7675140	8559-04	AML	Set INCH 9/32 5/16 11/32 3/8 7/16 1/2 9/16 3 5,5 4 5 6 8 T20 T27 T30 754-00 55 + 97 mm	1300

- On request, all torque wrenches can be factory pre-set - at extra charge-
- When ordering, please specify the N-m value



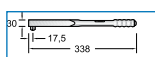
8560 - 8565 A

DREMOMETER 8-40 N-m / 70-350 lbf-in

- Working accuracy: +/- 3% tolerance of scale set torque
- Full-metal construction from high-strength aluminium alloy
- With 3/8" single square drive for controlled clockwise tightening (type A No. 8560) or double square drive for bi-directional tightening (type AL no. 8565)
- If ordering with pre-set-value locking and safety device (type A/AL A+S no. 7560/7565), please specify the N-m value - if fixed factory-pre-setting is desired

10

3/8"



Code	No.	Type	Inclusion	
7682000	8560-01	A	in plastic box	1.0
7682190	8565-01	AL	in plastic box	1.0
7708920	7560-01	A A+S	in plastic box, with pre-set-value locking and safety device	1.0
1210939	7565-01	AL A+S	in plastic box, with pre-set-value locking and safety device	1.0
7682270	8560-02	A	in a sheet-metal case	2.2
7682350	8565-02	AL	in a sheet-metal case	2.2
7682430	8560-03	A	Set mm 8 10 11 13 14 15 17 19 4 5 6 8 754-01 125 + 250 mm	3.1
7682940	8565-03	AL	Set mm 8 10 11 13 14 15 17 19 4 5 6 8 754-01 125 + 250 mm	3.1
7683160	8560-04	A	Set INCH 3/8 7/16 1/2 9/16 19/32 5/8 11/16 1/4 5/16 3/8 754-01 125 + 250 mm	3.0
7683240	8565-04	AL	Set INCH 3/8 7/16 1/2 9/16 19/32 5/8 11/16 1/4 5/16 3/8 754-01 125 + 250 mm	3.0



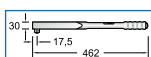
8561 - 8566 B

DREMOMETER 20-120 N-m / 15-90 lbf-ft

- Working accuracy: +/- 3% tolerance of scale set torque
- Full-metal construction from high-strength aluminium alloy
- With 1/2" single square drive for controlled clockwise tightening (type B no. 8561) or double square drive for bi-directional tightening (type BL no. 8566)
- If ordering with pre-set-value locking and safety device (type B/BL A+S no. 7561/7566), please specify the N-m value - if fixed factory-pre-setting is desired (price on request)

12,5

1/2"



Code	No.	Type	Inclusion	
7683320	8561-01	B	in plastic box	1.5
7683400	8566-01	BL	in plastic box	1.5
7709060	7561-01	B A+S	in plastic box, with pre-set-value locking and safety device	1.5
1210947	7566-01	BL A+S	in plastic box, with pre-set-value locking and safety device	1.5
7683830	8561-02	B	in a sheet-metal case	2.8
7684130	8566-02	BL	in a sheet-metal case	2.8
7684480	8561-03	B	Set mm 11 13 14 17 19 22 24 6 8 10 12 754-02 76 + 125 + 250 mm	4.7
7684640	8566-03	BL	Set mm 11 13 14 17 19 22 24 6 8 10 12 754-02 76 + 125 + 250 mm	4.7
7684990	8561-04	B	Set INCH 7/16 1/2 9/16 19/32 5/8 11/16 3/4 25/32 13/16 7/8 15/16 1" 5/16 3/8 1/2" 754-02 76 + 125 + 250 mm	5.3
7685100	8566-04	BL	Set INCH 7/16 1/2 9/16 19/32 5/8 11/16 3/4 25/32 13/16 7/8 15/16 1" 5/16 3/8 1/2" 754-02 76 + 125 + 250 mm	5.3



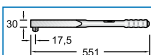
8573 - 8578 BC

DREMOMETER 40-200 N-m / 30-150 lbf-ft

- Working accuracy: +/- 3% tolerance of scale set torque
- Full-metal construction from high-strength aluminium alloy
- With 1/2" single square drive for controlled clockwise tightening (type BC no. 8573) or double square drive for bi-directional tightening (type BCL no. 8578)
- If ordering with pre-set-value locking and safety device (type BC/BCL A+S no. 7573/7578), please specify the N-m value - if fixed factory-pre-setting is desired (price on request)

12.5

1/2"



Code	No.	Type	Inclusion	
7685530	8573-00	BC	in plastic box	1.4
7683670	8578-00	BCL	in plastic box	1.3
1211013	7573-00	BC A+S	in plastic box, with pre-set value locking and safety device	1.4
1427113	7578-00	BCL A+S	in plastic box, with pre-set value locking and safety device	1.3
7683590	8573-02	BC	in a sheet-metal case	3.5
7683750	8578-02	BCL	in a sheet-metal case	3.5
7683910	8573-03	BC	Set mm 11 13 14 17 19 21 22 24 27 6 8 10 12 754-02 125 + 250 mm	5.1
7684050	8578-03	BCL	Set mm 11 13 14 17 19 21 22 24 27 6 8 10 12 754-02 125 + 250 mm	5.1
7684720	8573-04	BC	Set INCH 1/2 9/16 5/8 11/16 3/4 13/16 7/8 5/16 3/8 1/2 9/16 754-02 125 + 250 mm	4.9
7684210	8578-04	BCL	Set INCH 1/2 9/16 5/8 11/16 3/4 13/16 7/8 5/16 3/8 1/2 9/16 754-02 125 + 250 mm	4.9

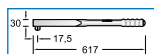
8562 - 8567 C

DREMOMETER 50-300 N-m / 35-220 lbf-ft

- Working accuracy: +/- 3% tolerance of scale set torque
- Full-metal construction from high-strength aluminium alloy
- With 1/2" single square drive for controlled clockwise tightening (type C no. 8562) or double square drive for bi-directional tightening (type C no. 8567)
- If ordering with pre-set-value locking and safety device (type C/CL A+S no. 7562/7567), please specify the N-m value - if fixed factory-pre-setting is desired (price on request)

12.5

1/2"



Code	No.	Type	Inclusion	
7685450	8562-10	C	in plastic box	2.0
7685960	8567-10	CL	in plastic box	2.0
7709650	7562-10	C A+S	in plastic box, with pre-set value locking and safety device	2.0
1210955	7567-10	CL A+S	in plastic box, with pre-set value locking and safety device	2.0
7686340	8562-20	C	in a sheet-metal case	3.6
7686690	8567-20	CL	in a sheet-metal case	3.6
7687070	8562-30	C	Set mm 17 19 22 24 27 30 32 8 10 12 14 754-02 76 + 125 + 250 mm	6.0
7687310	8567-30	CL	Set mm 17 19 22 24 27 30 32 8 10 12 14 754-02 76 + 125 + 250 mm	6.0
7687820	8562-40	C	Set INCH 3/4 25/32 13/16 7/8 15/16 1" 1.1/16 1.1/8 1.1/4 3/8 1/2 9/16 5/8 754-02 76 + 125 + 250 mm	6.2
7688120	8567-40	CL	Set INCH 3/4 25/32 13/16 7/8 15/16 1" 1.1/16 1.1/8 1.1/4 3/8 1/2 9/16 5/8 754-02 76 + 125 + 250 mm	6.2



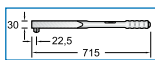
8570 - 8575 CD

DREMOMETER 80-360 N-m / 60-260 lbf-ft

- Working accuracy: +/- 3% tolerance of scale set torque
- Full-metal construction from high-strength aluminium alloy
- With 3/4" single square drive for controlled clockwise tightening (type CD no. 8570) or double square drive for bi-directional tightening (type CDL no. 8575)
- If ordering with pre-set-value locking and safety device (type CD/CDL A+S no. 7570/7575), please specify the N-m value - if fixed factory-pre-setting is desired (price on request)

20

3/4"



Code	No.	Type	Inclusion	
7688470	8570-10	CD	in cardboard packaging	2.4
7688710	8575-10	CDL	in cardboard packaging	2.4
1210998	7570-10	CD A+S	in cardboard packaging, with pre-set-value locking and safety device	2.4
1211021	7575-10	CDL A+S	in cardboard packaging, with pre-set-value locking and safety device	2.4
7689280	8570-20	CD	in a sheet-metal case	6.2
7689520	8575-20	CDL	in a sheet-metal case	6.2
7689950	8570-30	CD	Set mm O 19 22 24 27 30 32 754-04 200 + 400 mm	11.0
7690290	8575-30	CDL	Set mm O 19 22 24 27 30 32 754-04 200 + 400 mm	11.0
7690530	8570-40	CD	Set INCH O 7/8 15/16 1" 1.1/8 1.1/4 1.3/8 1.1/2 1.5/8" 754-04 200 + 400 mm	11.3
7691180	8575-40	CDL	Set INCH O 7/8 15/16 1" 1.1/8 1.1/4 1.3/8 1.1/2 1.5/8" 754-04 200 + 400 mm	11.3

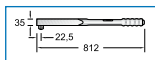
8574 - 8579 DS

DREMOMETER 110-550 N-m / 80-405 lbf-ft

- Working accuracy: +/- 3% tolerance of scale set torque
- Full-metal construction from high-strength aluminium alloy
- With 3/4" single square drive for controlled clockwise tightening (type DS no. 8574) or double square drive for bi-directional tightening (type DSL no. 8579)
- If ordering with pre-set-value locking and safety device (type DS/DSL A+S no. 7574/7579), please specify the N-m value - if fixed factory-pre-setting is desired (price on request)

20

3/4"



Code	No.	Type	Inclusion	
1427156	8574-10	DS	in cardboard packaging	2.9
1427121	8579-10	DSL	in cardboard packaging	2.9
1427164	7574-10	DS A+S	in cardboard packaging, with pre-set-value locking and safety device	2.9
1427148	7579-10	DSL A+S	in cardboard packaging, with pre-set-value locking and safety device	2.9
1436112	8574-20	DS	in a sheet-metal case	6.7
1436120	8579-20	DSL	in a sheet-metal case	6.7

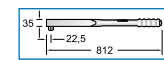
8563 - 8568 D

DREMOMETER 140-760 N-m / 105-560 lbf-ft

- Working accuracy: +/- 3% tolerance of scale set torque
- Full-metal construction from high-strength aluminium alloy
- With 3/4" single square drive for controlled clockwise tightening (type D no. 8563) or double square drive for bi-directional tightening (type DL no. 8568)
- If ordering with pre-set-value locking and safety device (type D/DL A+S no. 7563/7568), please specify the N-m value - if fixed factory-pre-setting is desired (price on request)

20

3/4"



Code	No.	Type	Inclusion	
7691500	8563-10	D	in cardboard packaging	3.2
7691850	8568-10	DL	in cardboard packaging	3.2
1210921	7563-10	D A+S	in cardboard packaging, with pre-set-value locking and safety device	3.2
1210971	7568-10	DL A+S	in cardboard packaging, with pre-set-value locking and safety device	3.2
7692070	8563-20	D	in a sheet-metal case	7.7
7692310	8568-20	DL	in a sheet-metal case	7.7
7692660	8563-30	D	Set mm O 22 24 27 30 32 36 41 46 754-04 200 + 400 mm	13.6
7692900	8568-30	DL	Set mm O 22 24 27 30 32 36 41 46 754-04 200 + 400 mm	13.6
7693200	8563-40	D	Set INCH O 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" 754-04 200 + 400 mm	13.3
7693550	8568-40	DL	Set INCH O 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" 754-04 200 + 400 mm	13.3





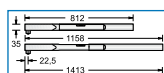
8563 - 8568 DR

DREMOMETER 140-760 N-m / 105-560 lbf-ft

- Working accuracy: +/- 3% tolerance of scale set torque
- Full-metal construction from high-strength aluminium alloy
- With 3/4" single square drive for controlled clockwise tightening (type DR no. 8563) or double square drive for bi-directional tightening (type DRL no. 8568)
- If ordering with pre-set-value locking and safety device (type DR/DRL A+S no. 7563/7568), please specify the N-m value - if fixed factory-pre-setting is desired (price on request)

20

3/4"



Code	No.	Type	Inclusion	
7670180	8563-01	DR	in cardboard packaging with extension tube	5.0
7670500	8568-01	DRL	in cardboard packaging with extension tube	5.0
1210912	7563-01	DR A+S	in cardboard packaging with extension tube, with pre-set-value locking and safety device	5.0
1210963	7568-01	DRL	in cardboard packaging with extension tube, with pre-set-value locking and safety device	5.0
7670260	8563-02	DR	in a sheet-metal case with extension tube	8.8
7670690	8568-02	DRL	in a sheet-metal case with extension tube	8.8
7670340	8563-03	DR	Set mm 22 24 27 30 32 36 41 46 754-04 200 + 400 mm	14.4
7670770	8568-03	DRL	Set mm 22 24 27 30 32 36 41 46 754-04 200 + 400 mm	14.4
7670420	8563-04	DR	Set INCH 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" 754-04 200 + 400 mm	16.7
7670850	8568-04	DRL	Set INCH 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" 754-04 200 + 400 mm	16.7

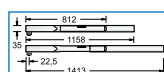
8571 - 8576 DX

DREMOMETER 520-1000 N-m / 380-730 lbf-ft

- Working accuracy: +/- 3% tolerance of scale set torque
- Full-metal construction from high-strength aluminium alloy
- With 3/4" single square drive for controlled clockwise tightening (type DX no. 8571) or double square drive for bi-directional tightening (type DXL no. 8576)
- If ordering with pre-set-value locking and safety device (type DX/DXL A+S no. 7571/7576), please specify the N-m value - if fixed factory-pre-setting is desired (price on request)

20

3/4"



Code	No.	Type	Inclusion	
7694010	8571-01	DX	in cardboard packaging with extension tube	5.6
7694360	8576-01	DXL	in cardboard packaging with extension tube	5.6
1211005	7571-01	DX A+S	in cardboard packaging with extension tube, with pre-set-value locking and safety device	5.6
1211048	7576-01	DXL A+S	in cardboard packaging with extension tube, with pre-set-value locking and safety device	5.6
7694520	8571-02	DX	in a sheet-metal case with extension tube	10.0
7694600	8576-02	DXL	in a sheet-metal case with extension tube	10.0
7694870	8571-03	DX	Set mm 30 32 36 41 46 50 754-04 200 + 400 mm	16.8
7694950	8576-03	DXL	Set mm 30 32 36 41 46 50 754-04 200 + 400 mm	16.8
7695170	8571-04	DX	Set INCH 1.1/8 1.1/4 1.3/8 1.1/2 1.3/4 1.7/8" 754-04 200 + 400 mm	16.0
7695330	8576-04	DXL	Set INCH 1.1/8 1.1/4 1.3/8 1.1/2 1.3/4 1.7/8" 754-04 200 + 400 mm	16.0

EXTENSION TUBES FOR DREMOMETER DR - F + W

- Spare extension tube for torque wrench series DREMOMETER DR - F and DXZ
- To enable high torque values by means of 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



Code	No.	(mm)	
7622020	8572-74	745	3.6
1686313	8571-80	772	0.8
7621720	8564-92	925	3.4
7621640	8564-40	400	2.3



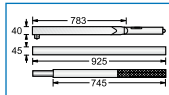
8572 F

DREMOMETER 1500-3000 N-m

- Working accuracy: +/- 3% tolerance of scale set torque
- Full-metal construction from high-strength aluminium alloy
- Extension tubes (no. 8564-92/8572-74) with max. lever length of 2343 mm
- If ordering with pre-set-value locking and safety device (type F A+S no. 7572), please specify the N-m value - if fixed factory-pre-setting is desired (price on request)

40

1 1/2"



Code	No.	Type	Inclusion	
7717160	8572-01	F	in cardboard packaging with 2 extension tubes	13.2
1547259	7572-01	F A+S	in cardboard packaging with 2 extension tubes with pre-set-value locking and safety device	13.2
7717240	8572-02	F	in a sheet-metal case with 2 extension tubes	24.0

8460 - 8471 Z

DREMOMETER WITH QUICK-FITTING CHANGE 8-1000 N-m / 70 lbf-in-730 lbf-ft

- Working accuracy: +/- 3% tolerance of scale set torque
- Full-metal construction from high-strength aluminium alloy, type DXZ with aluminium extension tube
- Factory depth gauges: 32 mm (16), 56 mm (22) or 75 mm (28), use type DXZ only with aluminium extension tube
- If ordering with pre-set-value locking and safety device (AZ to DXZ A+S no. 7460-7471), please specify the N-m value - if fixed factory-pre-setting is desired (price on request)

16

22

28



Code	No.	Type	Ø	N-m	lbf-in	lbf-ft	
7703610	8460-01	AZ	16	8-40	70-350		1000
7704260	8461-01	BZ	16	20-120		15-90	1450
7704340	8462-01	CZ	16	50-400		35-300	2000
7703020	8463-10	DZ	22	140-620		105-450	3000
1427067	7460-01	AZ A+S	16	8-40	70-350		1000
1427075	7461-01	BZ A+S	16	20-120		15-90	1450
1225669	7462-01	CZ A+S	16	50-400		35-300	2000
1427083	7463-10	DZ A+S	22	140-620		105-450	3000

8791

OPEN END FITTING 16 Z

- For accessing bolts in cramped and hard-to-access locations - easy to change
- Forged
- Chrome-vanadium steel, chrome-plated
- With eject-pin for unlocking

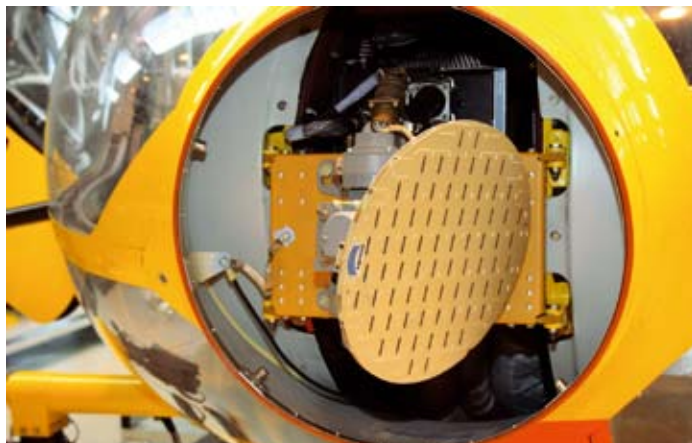
16



Code	No.	Ø mm	Depth gauge	
7774470	8791-07	7	32	80
7774550	8791-08	8	32	80
7774630	8791-09	9	32	80
7710070	8791-10	10	32	90
7710150	8791-11	11	32	90
7676890	8791-12	12	32	90
7710230	8791-13	13	32	120
7710310	8791-14	14	32	120
7710580	8791-15	15	32	120
7710660	8791-16	16	32	160
7710740	8791-17	17	32	160
7676970	8791-18	18	32	160
7710820	8791-19	19	32	180
7710900	8791-20	20	32	180
7677000	8791-21	21	32	180
7711040	8791-22	22	32	220
7711120	8791-24	24	32	220
7711200	8791-27	27	32	260
7774710	8791-30	30	32	300
7774980	8791-32	32	32	300
1552317	8791-36	36	32	300

Code	No.	Ø AF	Depth gauge	
1211421	8791-1/4AF	1/4	32	90
7720030	8791-5/16AF	5/16	32	80
1211447	8791-3/8AF	3/8	32	90
7720110	8791-7/16AF	7/16	32	90
7720380	8791-1/2AF	1/2	32	90
7720460	8791-9/16AF	9/16	32	120
7720540	8791-5/8AF	5/8	32	160
7720620	8791-11/16AF	11/16	32	160
7720700	8791-3/4AF	3/4	32	180
1211439	8791-13/16AF	13/16	32	90
7720890	8791-7/8AF	7/8	32	220
7720970	8791-15/16AF	15/16	32	220
7721000	8791-1AF	1	32	220
7721190	8791-1.1/16AF	1.1/16	32	260
7721270	8791-1.1/8AF	1.1/8	32	300
7776170	8791-1.3/16AF	1.3/16	32	300
7776250	8791-1.1/4AF	1.1/4	32	300
7776330	8791-1.5/16AF	1.5/16	32	300





8792

RING END FITTING 16 Z

- For accessing bolts in cramped and hard-to-access locations - easy to change
- Forged
- Chrome-vanadium steel, chrome-plated
- With eject-pin for unlocking

16



Code	No.	Ø mm	Depth gauge	↕
7775010	8792-07	7	32	90
7775280	8792-08	8	32	90
7775360	8792-09	9	32	90
7712600	8792-10	10	32	100
7712790	8792-11	11	32	100
7677190	8792-12	12	32	100
7712870	8792-13	13	32	140
7712950	8792-14	14	32	140
7713090	8792-15	15	32	140
7713170	8792-16	16	32	180
7713250	8792-17	17	32	180
7677270	8792-18	18	32	180
7713330	8792-19	19	32	210
7713410	8792-20	20	32	210
7677350	8792-21	21	32	210
7713680	8792-22	22	32	260
1211471	8792-23	23	32	270
7713760	8792-24	24	32	260
7713840	8792-27	27	32	300

Code	No.	Ø AF	Depth gauge	↕
1211455	8792-1/4AF	1/4	32	100
7721350	8792-5/16AF	5/16	32	90
1211498	8792-3/8AF	3/8	32	100
7721430	8792-7/16AF	7/16	32	100
7721510	8792-1/2AF	1/2	32	100
7721780	8792-9/16AF	9/16	32	140
7721860	8792-5/8AF	5/8	32	140
7721940	8792-11/16AF	11/16	32	180
7722080	8792-3/4AF	3/4	32	210
1211463	8792-13/16AF	13/16	32	100
7722160	8792-7/8AF	7/8	32	260
7722240	8792-15/16AF	15/16	32	260
7722320	8792-1AF	1	32	300
7722400	8792-1.1/16AF	1.1/16	32	300

8755

END FITTING TORX® 16 Z

- For accessing bolts in cramped and hard-to-access locations - easy to change
- Forged
- Chrome-vanadium steel, chrome-plated
- With eject-pin for unlocking
- TORX® = registered trademark of Acument Intellectual Properties, LLC. USA

16



Code	No.	Ø	Depth gauge	↕
7672040	8755-20	20	32	100
7672120	8755-25	25	32	100
7672200	8755-27	27	32	140
7672390	8755-30	30	32	140
7672470	8755-40	40	36	140
7672550	8755-45	45	36	180

8756

END FITTING INBUS® 16 Z

- For accessing bolts in cramped and hard-to-access locations - easy to change
- Forged
- Chrome-vanadium steel, chrome-plated
- With eject-pin for unlocking
- INBUS® = registered Trademark of Bauer + Schaurte

16



Code	No.	Ø mm	Depth gauge	↕
7773740	8756-03	3	32	100
7773820	8756-04	4	32	100
7773900	8756-05	5	32	100
7774040	8756-06	6	32	100
7774120	8756-08	8	36	110

8754

RATCHET HEAD 16 Z

- For accessing bolts in cramped and hard-to-access locations - easy to change
- Forged
- Chrome-vanadium steel, chrome-plated
- With eject-pin for unlocking

16



10

3/8"

12,5

1/2"



Code	No.	Type	Ø"	↕°	Depth gauge	↕
7711980	8754-01	●	3/8	10,0	32	170
7712010	8754-02	●	1/2	7,5	32	270

8797

FLARED END FITTING 16 Z

- For accessing bolts in cramped and hard-to-access locations - easy to change
- Forged
- Chrome-vanadium steel, chrome-plated
- With eject-pin for unlocking



16



Code	No.	Ø mm	max. N·m	Depth gauge	↕
1211587	8797-07	7	7.0	32	90
1211595	8797-08	8	6.5	32	90
1211609	8797-09	9	5.5	32	90
1211625	8797-10	10	26.0	32	100
1211633	8797-11	11	19.0	32	100
1211641	8797-12	12	13.0	32	120
1211668	8797-13	13	34.0	32	140
7664290	8797-14	14	24.0	32	140
1211684	8797-15	15	18.0	32	140
1211692	8797-16	16	66.0	32	180
1211706	8797-17	17	56.0	32	180
1211714	8797-18	18	45.0	32	200
1211722	8797-19	19	80.0	32	210
1211731	8797-20	20	60.0	32	210
1211749	8797-21	21	43.0	32	210
1211757	8797-22	22	172.0	32	260
1211765	8797-23	23	153.0	32	260
1211773	8797-24	24	118.0	32	260
1211781	8797-27	27	76.0	32	300

Code	No.	Ø AF	max. N·m	Depth gauge	↕
1326503	8797-1/4AF	1/4	7.0	32	390
7709300	8797-5/16AF	5/16	6.5	32	90
1211803	8797-3/8AF	3/8	26.0	32	140
7715620	8797-7/16AF	7/16	18.0	32	100
7715970	8797-1/2AF	1/2	37.0	32	140
7716350	8797-9/16AF	9/16	22.0	32	140
7716430	8797-5/8AF	5/8	68.0	32	180
7719610	8797-11/16AF	11/16	51.0	32	180
7719880	8797-3/4AF	3/4	77.0	32	210
1211676	8797-13/16AF	13/16	58.0	32	370
7725180	8797-7/8AF	7/8	169.0	32	210
7719960	8797-15/16AF	15/16	138.0	32	210
7725260	8797-1AF	1	104.0	32	260
7725340	8797-1.1/16AF	1.1/16	77.0	32	300

8790 - 8793

FIXED SQUARE HEAD 16 Z

- For accessing bolts in cramped and hard-to-access locations - easy to change
- Forged
- Chrome-vanadium steel, chrome-plated
- With eject-pin for unlocking



16



10 3/8

12,5 1/2

Code	No.	Type	■"	Depth gauge	↕
7709490	8790-00		3/8	32	350
7709570	8793-00		1/2	32	380



8796

RING END FITTING 22 Z

- For accessing bolts in cramped and hard-to-access locations - easy to change
- Forged
- Chrome-vanadium steel, chrome-plated
- With eject-pin for unlocking



22



Code	No.	Ø mm	Depth gauge	↕
7707950	8796-22	22	56	350
7708090	8796-24	24	56	330
7708170	8796-27	27	56	370
7708250	8796-30	30	56	350
7708330	8796-32	32	56	420
7677510	8796-34	34	56	420
7708410	8796-36	36	56	390
7708680	8796-41	41	56	560
7708760	8796-46	46	56	520

Code	No.	Ø AF	Depth gauge	↕
1532677	8796-1.1/8AF	1.1/8	56	400
1532685	8796-1.3/16AF	1.3/16	56	470
1532693	8796-1.1/4AF	1.1/4	56	550
1532707	8796-1.5/16AF	1.5/16	56	460
1532715	8796-1.7/16AF	1.7/16	56	430

8794

FIXED SQUARE HEAD / RATCHET HEAD 22 Z

- For accessing bolts in cramped and hard-to-access locations - easy to change
- Forged
- Chrome-vanadium steel, chrome-plated
- With eject-pin for unlocking



22



20

3/4

Code	No.	Type	■"	↖°	Depth gauge	↕
7708840	8794-00		3/4		56	610
1427318	8794-03		3/4	10	56	950

8795

OPEN END FITTING 22 Z

- For accessing bolts in cramped and hard-to-access locations - easy to change
- Forged
- Chrome-vanadium steel, chrome-plated
- With eject-pin for unlocking



22



Code	No.	Ø mm	Depth gauge	↕
7707010	8795-22	22	56	330
7707280	8795-24	24	56	320
7707360	8795-27	27	56	380
7707440	8795-30	30	56	370
7707520	8795-32	32	56	450
7677430	8795-34	34	56	430
7707600	8795-36	36	56	430
7707790	8795-41	41	56	580
7707870	8795-46	46	56	530

Code	No.	Ø AF	Depth gauge	↕
1532650	8795-1.7/16AF	1.7/16	56	425
1532669	8795-1.1/2AF	1.1/2	56	429



8797

FLARED END FITTING 22 Z

- For accessing bolts in cramped and hard-to-access locations - easy to change
- Forged
- Chrome-vanadium steel, chrome-plated
- With eject-pin for unlocking



22



Code	No.	Ø AF	max. N-m	Depth gauge	↔
1532723	8797-1.1/8AF	1.1/8	166	56	370
1532731	8797-1.3/16AF	1.3/16	145	56	360
1532758	8797-1.1/4AF	1.1/4	396	56	440
1532766	8797-1.5/16AF	1.5/16	367	56	430
1532774	8797-1.7/16AF	1.7/16	271	56	390

TECHNICAL INFORMATION ANGULAR TIGHTENING

For activation with torque angle measurement, set the DREMOMETER to the stipulated setting torque. Loosen the lamping screw on the flexible rod and place the magnet firmly onto the metallic surface or securely affix the claw to the other end of the flexible spindle. In the process, bend the rod into place and firmly re-tighten the clamping screw. Slowly and evenly pull through the DREMOMETER until the "click" is heard. The proper resting position of the screw on the surface (setting torque) has now been reached. Now, hold the DREMOMETER in this position and set the angle-disc to the desired angle. Pull it further until the arrow is pointing to zero. The connection now has the desired pre-tension force.

- Please note:
- Pay attention to the maximum output of the torque wrenches to avoid overloading. The total torque (set torque plus angle tightening) may not pass the indicated maximum output of the torque wrenches.

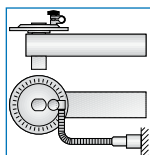
8261 - 8273 W

DREMOMETER 20-300 N-m / 15-220 lbf-ft

- Working accuracy: +/- 3% tolerance of scale set torque
- Torque angle indicator with a sliding magnetic and gripping arm
- Full-metal construction from high-strength aluminium alloy
- For controlled clockwise tightening with angle measurement
- The maximum output of the torque wrench must not be passed
- The 4-piece DREMOMETER W set (-03) with 1/2" accessories: 1x ratchet head for controlled clockwise tightening (no. 754-02), 2x extension tubes (125 + 250 mm)
- Delivery in solid sheet metal case

12.5

1/2"



Code	No.	Type	Ø"	N-m	lbf-ft	Wrench	Set
7696730	8261-03	BW	1/2	20-120	15-90	1500	4700
7696810	8273-03	BCW	1/2	40-200	30-150	1700	4800
7697030	8262-03	CW	1/2	50-300	35-220	1900	5200

8200

TORQUE ANGLE INDICATOR

- For additional precise angle tightening (0-360°)
- 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

12.5

1/2"

20

3/4"



Code	No.	Ø"	max. N-m	Ø mm	0-360°	↔
1195980	8200-01	1/2	12.5	80	0-360	330
7718480	8200-11	1/2	12.5	80	0-360	330
7716510	8200-02	3/4	20.0	120	0-360	530

6550 - 6551

TORCOFLEX K US 10 lbf-in - 600 lbf-ft / 1,1 - 810 N-m

- Anglo-American unit
- Adjustable torque wrench with square drive and integrated ratchet function
- For controlled bi-directional tightening
- 1/4", 3/8", 1/2" mushroom-head reversible square drive with ball locking device as per DIN 3120 - A 6.3, A 10 or A 12.5, ISO 1174
- 3/4" push-through square drive with pin locking device DIN 3120 - B 20, ISO 1174 (no. 6551-120)
- Working accuracy: +/- 3% tolerance of scale set torque
- Robust, silk-matt chrome-plated steel tube construction, with chrome-plated ratchet head and glass-fibre-reinforced plastic parts
- Dual scale in lbf-in resp. lbf-ft and N-m underneath a window with a magnifying-glass effect

6.3

1/4"

10

3/8"

12.5

1/2"

20

3/4"

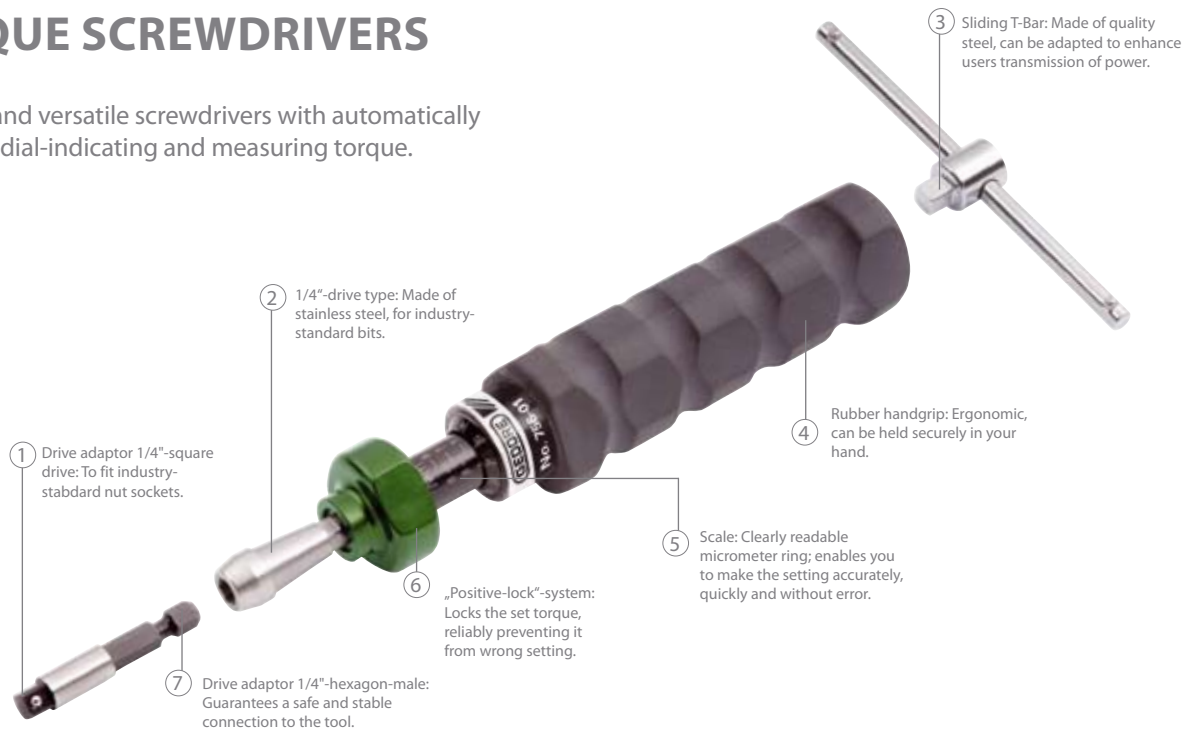


Code	No.	Ø"	lbf-in	lbf-ft	المقياس	↔
1956744	6550-01	1/4	10-50		0,25 lbf-in	300
1956752	6550-02	1/4	20-100		0,25 lbf-in	300
1956779	6550-05	3/8	50-250		1,0 lbf-in	800
1956787	6550-15	3/8	150-1000		5,0 lbf-in	900
1956795	6551-07	3/8		7-50	0,25 lbf-ft	900
1956817	6551-10	1/2		10-75	0,25 lbf-ft	900
1956833	6551-30	1/2		30-150	0,5 lbf-ft	1100
1956841	6551-60	1/2		60-300	1,0 lbf-ft	1600
1956868	6551-120	3/4		120-600	1,0 lbf-ft	4500



TORQUE SCREWDRIVERS

Compact and versatile screwdrivers with automatically actuating, dial-indicating and measuring torque.



755

TORQUE SCREWDRIVER TYPE FS 0.02-13.6 N-m

- Working accuracy: +/- 6% tolerance of the selected torque
- Precision radial ball clutch and cam design for controlled bidirectional tightening
- The pre-setting can be made at the RAHSOL DREMOTEC factory or by the user on suitable torque testers
- If a factory setting is required, please specify the N-m value on the order
- ESD = electrostatic discharge protection (with one exception: model 755-05 is available only with ESD protection as an optional extra)

6,3

1/4"

6,3

1/4"



Code	No.	Ø"	■"	cN-m	N-m	Colour	Stk
1471481	755-01	1/4	1/4	2-22		red	50
1471473	755-02	1/4	1/4	0,5-22		gold	72
1471465	755-03	1/4	1/4	2-135		blue	210
1471457	755-04	1/4	1/4	6-406		green	280
1228501	755-05	1/4	1/4		1-13,6	black	325

756

TORQUE SCREWDRIVER TYPE S 0.05-9 N-m

- Working accuracy: +/- 6% tolerance of the selected torque
- Compact, lightweight and non-slip rubber handle
- Precision radial ball clutch and cam design for controlled bidirectional tightening
- Positive locking system prevents torque setting from slipping
- ESD = electrostatic discharge protection

6,3

1/4"

6,3

1/4"



Code	No.	Ø"	■"	cN-m	N-m	Colour	Stk
1498738	756-00	1/4	1/4	5-40		silver	124
1400150	756-01	1/4	1/4	20-120		blue	165
1400169	756-06	1/4	1/4		1-6	red	340
1400177	756-09	1/4	1/4		4-9	green	340



757

TORQUE SCREWDRIVER TYPE S 0.2-9 N-m

- Working accuracy: +/- 6% tolerance of the selected torque
- Precision radial ball clutch and cam design for controlled bidirectional tightening
- Micrometer-scale graduation: 1 cN-m / 0.1 N-m
- Lightweight design with anodised aluminium handles
- ESD = electrostatic discharge protection

6.3

1/4"

6.3

1/4"



Code	No.	Ø"	■"	cN-m	N-m	Colour	↻
7718050	757-01	1/4	1/4	20-120		black	165
7718130	757-06	1/4	1/4		1-6	red	400
7718210	757-09	1/4	1/4		4-9	green	400

758

TORQUE SCREWDRIVER TYPE SP 10-500 cN-m / 14 ozf-in - 40 lbf-in

- Working accuracy +/- 6% tolerance of the indicated torque
- Dial-indicating torque and test screwdriver - with dual scale (cN-m/ozf-in/lbf-in)
- Lightweight design with anodised aluminium handles
- ESD = electrostatic discharge protection
- With bidirectional maximum indicator function

6.3

1/4"

6.3

1/4"



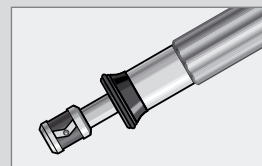
Code	No.	Ø"	■"	cN-m	ozf-in / lbf-in	Colour	↻
7096380	758-05	1/4	1/4	10-50	14-70 ozf-in	gold	190
7096460	758-10	1/4	1/4	20-100	28-140 ozf-in	blue	190
7096540	758-25	1/4	1/4	50-250	4-20 lbf-in	red	465
7096620	758-50	1/4	1/4	100-500	8-40 lbf-in	green	465

TORQUE SCREWDRIVER TECHNICAL FEATURES

Type FS 755

Pre-set torque screwdriver without scale for durable and identical value tightening

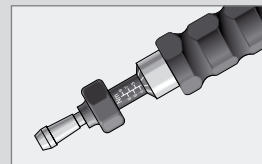
- Auto setting
- Bidirectional
- Anodised aluminium handgrip



Type 756

Adjustable torque screwdriver with micrometer scale

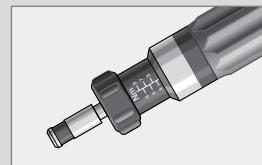
- "Positive-lock"-system
- Drive type made of stainless steel
- Auto setting
- Bidirectional
- Non-slip rubber handgrip
- ESD = electrostatically protected



Type S 757

Adjustable torque screwdriver with micrometer scale

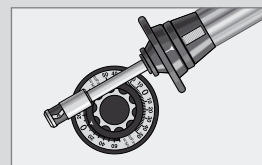
- Auto setting
- Bidirectional
- Anodised aluminium handgrip
- ESD = electrostatically protected



Type SP 758

Dial-indicating torque screwdriver with dual scale

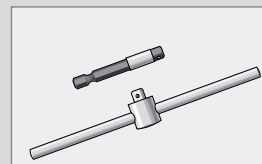
- Locking of maximum values / maximum value-display
- Bidirectional
- Anodised aluminium handgrip
- ESD = electrostatically protected



Scope of delivery

We supply a 1/4"-1/4"-drive adaptor with all models

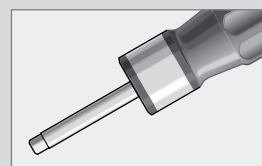
To make work easier, a sliding or removable T-bar is included with several models



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.



763

TORQUE WRENCH DREMOMETER T-FS pre-set, 1-14 N-m

- Torque wrench series with 14 pre-set models
- Working accuracy in accordance with DIN EN ISO 6789 Type II Class E (+/- 6%)
- Lightweight high-grade aluminium casing

6.3

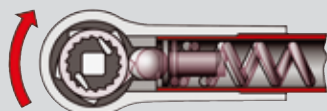
1/4"



Code	No.	■"	■"	N-m	↻
1947907	763-01	1/4	6.3	1	241
1947915	763-02	1/4	6.3	2	241
1947923	763-03	1/4	6.3	3	241
1947931	763-04	1/4	6.3	4	241
1947958	763-05	1/4	6.3	5	241
1947966	763-06	1/4	6.3	6	241
1947974	763-07	1/4	6.3	7	241
1947990	763-08	1/4	6.3	8	241
1948008	763-09	1/4	6.3	9	241
1948016	763-10	1/4	6.3	10	241
1948024	763-11	1/4	6.3	11	241
1948032	763-12	1/4	6.3	12	241
1948040	763-13	1/4	6.3	13	241
1948059	763-14	1/4	6.3	14	241

TSN-SIPPER WORKING PRINCIPLE

When the pre-set torque value is achieved, the mechanism slips through over the roller (without the possibility of over-tightening). The torque wrench is then immediately ready for the next operation.



759

TORQUE WRENCH TSN SLIPPER 3-125 N-m

- Working accuracy: +/- 4% tolerance of the selected torque
- Pre-set torque wrench - without scale
- The precision mechanism slips noticeably when the pre-set value is reached - completely eliminating the risk of over-tightening
- The pre-setting can be made at the RAHSOL DREMOTEC factory or by the user on suitable torque testers
- If a factory setting is required, please specify the N-m value on the order

6.3

1/4"

10

3/8"

12.5

1/2"

5000 x

5000 x

5000 x

5000 x

5000 x

5000 x

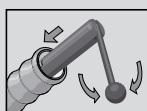
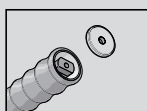
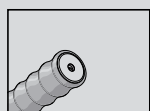
5000 x



Code	No.	□"	N-m	↕
7091900	759-00	1/4	3-25	340
7092040	759-01	3/8	3-25	340
7092120	759-02	3/8	15-55	800
7092200	759-03	1/2	40-125	1360



TSN SLIPPER AND TBN BREAKER TECHNICAL INFORMATION



All TSN Slippers and TBN Breaker torque wrenches (apart from 760-00/-01) are fitted with the patented "Mechanical Torque Adjustment Locking Device" to modify torque tester.



761

TORQUE WRENCH TSP SLIPPER 1-10 N-m / 10-90 lbf-in

- Working accuracy: +/- 6% tolerance of the selected torque
- Pre-set torque wrench - without scale
- The precision mechanism slips noticeably when the pre-set value is reached - completely eliminating the risk of over-tightening
- ESD = electrostatic discharge protection
- The pre-setting can be made at the RAHSOL DREMOTEC factory or by the user on suitable torque testers
- If a fixed factory setting is required, please specify the N-m value on the order

6.3

1/4"

5000 x

5000 x

5000 x

5000 x

5000 x



Code	No.	□"	N-m	lbf-in	↕
1196650	761-05	1/4	1-5	10-45	190
1196731	761-10	1/4	2-10	20-90	190

762

TORQUE WRENCH TSC SLIPPER 1-10 N-m

- Working accuracy: +/- 6% tolerance of the scale set torque
- Adjustable torque wrench - with scale
- The precision mechanism slips noticeably when the pre-set value is reached - completely eliminating the risk of over-tightening
- Automatic reset to start position
- ESD = electrostatic discharge protection

6.3

1/4"

5000 x

5000 x

5000 x

5000 x

5000 x



Code	No.	□"	N-m	↕
1196480	762-05	1/4	1-5	235
1196510	762-10	1/4	2-10	235



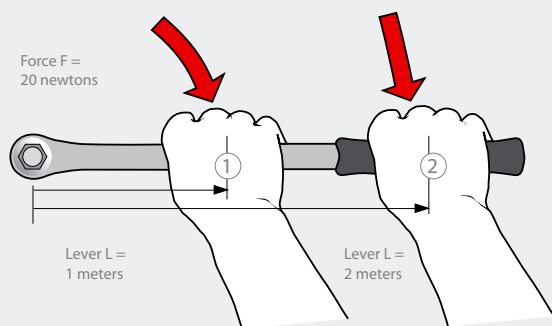


HOW IS THE TORQUE MEASURED?



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).

Working principle



Mathematically, that is expressed as follows: Torque M_A = Force F x Lever L

The diagram shows dependencies of force F and lever L on the torque on the base of 2 examples.

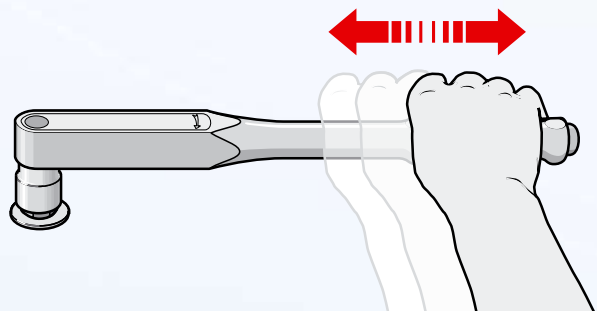
In order to determine the relevant torque, we employ the formula „ $M_A = F \times L$ “.

① $M_A = F \times L = 20 \text{ N} \times 1 \text{ m} = 20 \text{ N-m (newton meters)}$

② $M_A = F \times L = 20 \text{ N} \times 2 \text{ m} = 40 \text{ N-m (newton meters)}$

This means that the actual torque applied to the screw changes if the hand's position on the wrench changes.

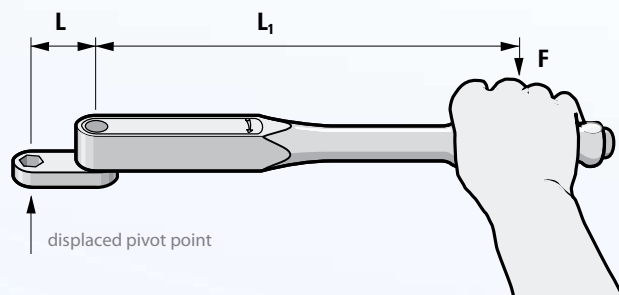
Operable without inaccuracies



DREMOMETER Type AM-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 of 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 accuracy.

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 so-called double lever ("L₁+L") 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.

The set torque when using special spanners is determined along the following lines:

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 norm-compliant standard spanner end fittings, then the setting torque does not have to be re-calculated on the basis of the below-specified formula. Here, we already take the gauge (L) into consideration when adjusting the wrench.

Only if you are using your own designs (thereby changing the dimension "L") does the setting torque have to be re-calculated.

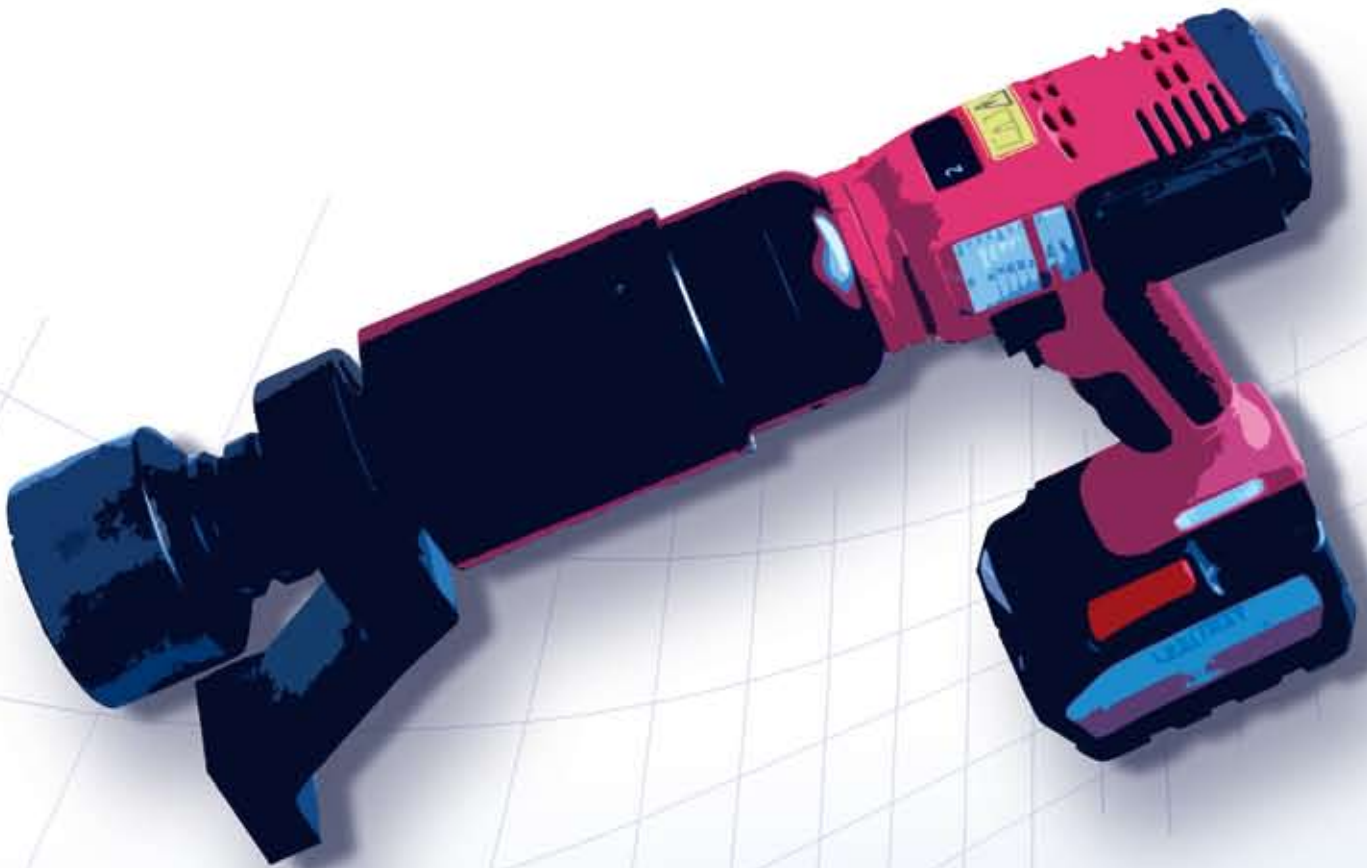
F = Force

L₁ = Distance (path) from the middle of the handgrip to the pivot point

L = Distance (path) from the middle of the screw to the pivot point

M_A = Torque

$$\text{Set torque} = \frac{M_A \times L_1}{L + L_1}$$



TORQUE WRENCHES

For more than 30 years the innovative partner for precise torques. Battery-operated wrenches, electric wrenches, hydraulic wrenches, torque multipliers or pneumatic wrenches - LÖSOMAT torque wrenches are ideal for all assembly and maintenance work from 100 - 30000 N-m.

As inventor of the first precise electric torque wrench in the 1980s, and major market success gave the company the impetus to work on innovative new developments in the future. Numerous patents and globally unique torque wrenches have been the consequence of these efforts.

Today LÖSOMAT-Schraubtechnik Neef GmbH is the youngest partner in the GEDORE Group - a high-tech centre for innovative product developments and individual solutions in the bolt technology sector. An in-house development department, a depth of production of well over 90% on the most modern machines, and an excellent level of service, are the guarantee for Made in Germany.

Your advantages:

- The use of state-of-the-art materials and high precision during the production process guarantees a long service life
- User-friendly and ergonomic due to its light weight
- Compact design for use in otherwise inaccessible areas
- Dynamic torque wrenches with individual test certificate for high safety at all bolted connections
- Customer-specific special wrenches
- Process reliability due to optional documentation with RFID radio technology
- Own test facilities for the calibration of customer's special wrenches
- Repair within three working days
- Our competent team will advise and analyse your tightening and loosening task on-site. Please contact us!



LÖSOMAT - Schraubtechnik Neef GmbH

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info@loesomat.de · www.loesomat.de

TIGHTENING / TEST TORQUE

Suggested bolt tightening torque in Nm (Newton metres)							Wrench/spanner test torques in accordance with DIN ISO 1711-1 (minimum guaranteed values) Nm							
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 and 7990. These produce a 90% utilization 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 MOS, compound and with cadmium-plated connecting elements on both sides, the tightening torque should be reduced by around 20%.								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
														
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	4			1,90				
M 2,2	0,196	0,265	0,510	0,598	0,843	1,010	4,5*			2,64				
M 2,5	0,284	0,373	0,726	0,863	1,206	1,451	5	11,5		3,55				
M 3	0,441	0,588	1,128	1,344	1,883	2,256	5,5	14,4		4,64		14,4		2,32
M 3,5	0,677	0,902	1,736	2,060	2,893	3,481	6*	17,6	7,4	5,92		17,6		2,96
M 4	1,000	1,344	2,599	3,040	4,315	5,148	7	25,2	11,4	9,12		25,2		4,56
M 5	1,916	2,648	5,099	6,031	8,483	10,200	8 9*	34,5 45,4	16,6 23	13,3 18,4		34,5 45,4	34,5 45,4	6,65 9,20
M 6	3,432	4,511	8,728	10,300	14,710	17,652	10	58,1	31	24,8	58,1	58,1	58,1	12,4
M 7	5,590	7,453	14,220	17,162	24,517	28,439	11 12	72,7 89,1	40,4 51,5	32,3 41,2	72,7 89,1	72,7 89,1	72,7 89,1	16,1 20,6
M 8	8,238	10,787	21,575	25,497	35,304	42,168	13 14*	107 128	64,5 79,4	51,6 63,5	107 128	107 128	107 128	25,8 31,7
M 10	16,67	21,575	42,168	50,014	70,608	85,317	15 16 17	150 175 201	96,2 115 134	77,0 92,3 107	150 175 201	150 175 201	150 175 201	38,5 46,1 53,5
M 12	28,44	38,246	73,550	87,279	122,60	147,10	18 19* 20*	230 261 294	160 186 215	128 149 172	230 261 294	230 261 294	230 261 294	64,0 74,5 86,0
M 14	45,11	60,801	116,70	138,30	194,20	235,40	21 22* 23*	330 368 408	247 281 319	198 225 255	330 368 408	330 368 408	330 368 408	99,0 112 127
M 16	69,63	93,163	178,5	210,80	299,10	357,90	24 25* 26*	451 496 544	359 402 449	287 322 359	451 496 544	451 496 544	451 496 544	143 161 179
M 18	95,12	127,50	245,20	289,3	411,90	490,30	27 28*	594 647	499 552	399 442	594 647	594 647	594 647	199 221
M 20	135,3	180,45	384,10	411,90	578,60	696,30	30	760	670	536	760	760	760	268
M 22	182,4	245,16	470,70	559,00	784,50	941,40	32* 34	884 1019	804 951	643 761	884 1019	884 1019	884 1019	321 381
M 24	230,5	308,91	598,20	711,00	1000	1196	36	1165	1117	894	1165	1165	1165	447
M 27	343,2	460,90	887,50	1049	1481	1775	41	1579	1442	1154	1579	1579	1579	577
M 30	465,8	622,72	1206	1422	2010	2403	46	2067	1816	1453	2067	2067	2067	726
M 33	632,5	848,30	1628	1932	2716	3266	50	2512	2145	1716	2512	2512	2512	858
M 36	814,0	1089	2099	2481	3491	4197	55	3140		2077	3140	3140	3140	1038
M 39	1059	1412	2716	3226	4531	5443	60	3849		2471	3849		3849	1235
M 42	1304	1746	3364	3991	5609	6727	65	4021		2900	4021		4021	1422
M 45	1638	2177	4207	4992	7012	8414	70	4658		3364	4658		4658	1618
M 48	1981	2638	5080	6021	8473	10150	75	5394		3862			5394	1765
M 52	2540	3393	6541	7747	10885	13092	80	6178		4394			6178	1912
M 56	3168	4227	8149	9650	13582	16279	85	6963					6963	2059
M 60	3932	5247	10101	11964	16867	20202	90	7845					7845	-
M 64	4737	6306	12160	14416	20300	24320	95	8336					8336	-

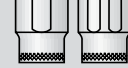
*These sizes are not included in DIN ISO 272

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 standardized.



TIGHTENING / TEST TORQUE

Wrench/spanner test torques in accordance with DIN ISO 1711-1 (minimum guaranteed values) Nm							Test torques for tightening tools for hexagon socket head screws									
		With square socket head 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		
																
		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	6,6					
M 5	8	33,6	45,5	94,1			4	16	16	16	16	16	16			
	9*	41,1	59,9	119,2												
M 6	10	49,1	76,7	147			5	30	30	30	30	30	30			
M 7	11	57,8	96	178												
	12	67,0	118	212												
M 8	13	68,6	141	249			6	52	52	52	52	52	52			
	14*	68,6	169	288			7	80			80	80	80			
M 10	15		198	331			8	120	120	120	120	120	120			
	16		225	377												
	17		225	425			9	165					165			
M 12	18		225	477			10	220	220			220	220			
	19*		225	531												
	20*		225	569			12	370	370				370			
M 14	21		225	569												
	22*		225	569	569											
	23*			569	569											
M 16	24			569	569		14	590	590				590	590		
	25*			569	583											
	26*			569	624											
M 18	27			569	665											
	28*			569	707											
M 20	30			569	795		17	980	980				1000	1000	1000	
M 22	32*			569	888											
	34			569	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.

Attention:

Hand tightening sockets are unsuited to use with impact drivers. Inappropriate use poses an accident risk. Power driver sockets can be found up from page 102.

HEAD WIDTHS AND THREAD DIAMETERS

mm 				Head widths		Thread Ø		Head widths	
	Metric as per DIN ISO 272	Metric for high-tensile bolted structural joints as per EN 14399-4	 AE	inch	mm	 Whitw.	BS 916 1083	inch	mm
2,5 3 3,2	1 1,4 and 1,2 1,6								
4 4,5 5	2 2,3 2,5		5/32 3/16	0,1562 0,1875	3,97 4,76	8 BA 7 BA 6 BA		0,152 0,172 0,193	3,86 4,37 4,90
5,5 6	3 3,5		7/32 1/4	0,2187 0,2500	5,56 6,35	5 BA 4 BA 1/16 W		0,220 0,248 0,256	5,59 6,30 6,90
7 7+8	4 5		9/32 5/16	0,2812 0,3125	7,14 7,94	3 BA 3/32 W 2 BA		0,282 0,297 0,324	7,16 7,54 8,23
9 8+10	5 Old 6		11/32 3/8 13/32	0,3438 0,3750 0,4062	8,73 9,52 10,32	1/8 W 1 BA 0 BA	(3/16) (7/32)	0,340 0,365 0,413	8,64 9,27 10,49
11 12 10+13	7 8		7/16 1/2	0,4375 0,5000	11,11 12,70	3/16 W 1/4 W	1/4 5/16	0,445 0,525	11,30 13,34
14* 15 16	8 Old 10 KFZ 10		9/16 19/32 5/8	0,5625 0,5938 0,6250	14,29 15,08 15,88	5/16 W	3/8	0,600	15,24
13+15+17 18 15+18+19	10 12 12		11/16 3/4	0,6875 0,7500	17,46 19,05	3/8 W	7/16	0,710	18,03
20* 18+21 22+24	14 14	12	25/32 13/16 7/8	0,7812 0,8125 0,8750	19,84 20,64 22,22	7/16 W	1/2	0,820	20,83
23* 21+24* 25*+27*	16		15/16 1.	0,9375 1,0000	23,81 25,40	1/2 W	9/16	0,920	23,37
26* 27 27+28*+30	18 18	16	1.1/16	1,0625	26,99	9/16 W 5/8 W	5/8 (11/16)	1,010 1,100	25,65 27,94
27+30+34 32+36+41	20 22	20	1.1/8 1.3/16 1.1/4	1,1250 1,1875 1,2500	28,58 30,16 31,75	11/16 W	3/4	1,200	30,48
34 36+41	22 24	22	1.5/16 1.3/8 1.7/16	1,3125 1,3750 1,4375	33,34 34,92 36,51	3/4 W 13/16 W	7/8 (15/16)	1,300 1,390	33,02 35,31
38* 41+46	27	24	1.1/2 1.5/8 1.11/16	1,5000 1,6250 1,6875	38,10 41,28 42,86	7/8 W 1 W	1. 1.1/8	1,480 1,670	37,59 42,42
46+50	30	27	1.3/4 1.13/16 1.7/8	1,7500 1,8125 1,8750	44,45 46,04 47,62	1.1/8 W	1.1/4	1,860	47,24
50+55 55+60	33 36	30	2. 2.1/16 2.3/16	2,0000 2,0625 2,1875	50,80 52,39 55,56	1.1/4 W	1.3/8	2,050	52,07
60+65	39	36	2.1/4 2.3/8 2.7/16	2,2500 2,3750 2,4375	57,15 60,32 61,91	1.3/8 W 1.1/2 W	1.1/2 1.5/8	2,220 2,410	56,39 61,21
65 70	42 45		2.9/16 2.5/8 2.3/4	2,5625 2,3750 2,7500	65,09 66,68 69,85	1.5/8 W 1.3/4 W	1.3/4 2.	2,580 2,760	65,53 70,10
75	48		2.13/16 2.15/16 3	2,8125 2,9375 3,0000	71,44 74,61 76,20	(1.7/8 W)			76,70
80 85 90	52 56 60		3.1/8 3.3/8 3.1/2	3,1250 3,3750 3,5000	79,38 85,72 88,90		2.1/4 2.1/2	3,150 3,550	80,01 90,17
95 100	64 68		3.3/4 3.7/8	3,7500 3,8750	95,25 98,42		2.3/4	3,890	98,81
105 110 115	72 76 80		4.1/8 4.1/4 4.1/2	4,1250 4,2500 4,5000	104,78 107,95 114,30		3. 3.1/4	4,180 4,530	106,17 115,06
120 125*	85		4.5/8 4.7/8 5.	4,6250 4,8750 5,0000	117,48 123,82 127,00		3.1/2	4,850	123,19
130 135 140*	90 95		5.1/4 5.3/8 5.5/8	5,2500 5,3750 5,6250	133,35 136,52 142,88		3.3/4 4.	5,180 5,550	131,57 140,97
145 150 155	100 105 110		5.3/4 6. 6.1/8	5,7500 6,0000 6,1250	146,05 152,40 155,58		4.1/2	6,380	162,05
160* 165 170	115 120								
175* 180 185	125 130								
200 210	140 150								

* not standardised





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	-	-

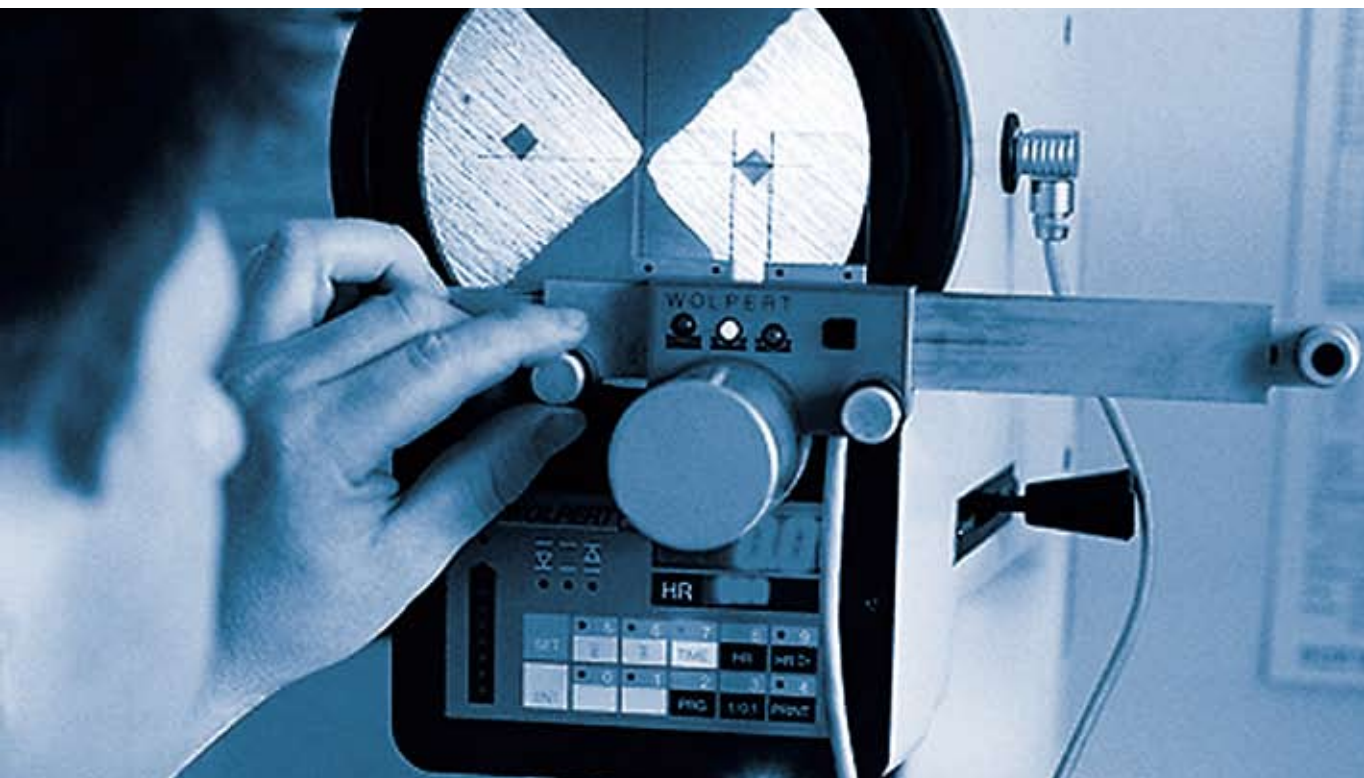
^a This tolerance class applies only to ring spanners that have not been manufactured by material removal.

Spanner sizes in accordance with this international standard must be marked with:

- Spanner head size
- Reference to the international standard, i.e. ISO 691
- Nominal size s in millimetres
- Tolerance class 1 or 2

Conversion tables inches to decimal-inches and mm

in.	dec. in.	mm	in.	dec. in.	mm
0	0	0	1/2	0.5	12,7000
1/64	0.015625	0,3969	33/64	0.515625	13,0969
1/32	0.03125	0,7938	17/32	0.53125	13,4938
3/64	0.046875	1,1906	35/64	0.546875	13,8906
1/16	0.0625	1,5875	9/16	0.5625	14,2875
5/64	0.078125	1,9844	37/64	0.578125	14,6844
3/32	0.09375	2,3812	19/32	0.59375	15,0812
7/64	0.109375	2,7781	39/64	0.609375	15,4781
1/8	0.125	3,1750	5/8	0.625	15,8750
9/64	0.140625	3,5719	41/64	0.640625	16,2719
5/32	0.15625	3,9688	21/32	0.65625	16,6688
11/64	0.171875	4,3656	43/64	0.671875	17,0656
3/16	0.1875	4,7625	11/16	0.6875	17,4625
13/64	0.203125	5,1594	45/64	0.703125	17,8594
7/32	0.21875	5,5562	23/32	0.71875	18,2562
15/64	0.234375	5,9531	47/64	0.734375	18,6531
1/4	0.25	6,3500	3/4	0.75	19,0500
17/64	0.265625	6,7469	49/64	0.765625	19,4469
9/32	0.28125	7,1438	25/32	0.78125	19,8438
19/64	0.296875	7,5406	51/64	0.796875	20,2406
5/16	0.3125	7,9375	13/16	0.8125	20,6375
21/64	0.328125	8,3344	53/64	0.828125	21,0344
11/32	0.34375	8,7312	27/32	0.84375	21,4312
23/64	0.359375	9,1281	55/64	0.859375	21,8281
3/8	0.375	9,5250	7/8	0.875	22,2250
25/64	0.390625	9,9219	57/64	0.890625	22,6219
13/32	0.40625	10,3188	29/32	0.90625	23,0188
27/64	0.421875	10,7156	59/64	0.921875	23,4156
7/16	0.4375	11,1125	15/16	0.9375	23,8125
29/64	0.453125	11,5094	61/64	0.953125	24,2094
15/32	0.46875	11,9062	31/32	0.96875	24,6062
31/64	0.484375	12,3031	63/64	0.984375	25,0031
			1	1	25,4000



TORQUE CONVERSION TABLES

Torque conversion factors

Units to be	= mN-m	= cN-m	= N-m	= ozf-in	Corresponding unit		= gf-cm	= kgf-cm (kp-cm)	= kgf-m (kp-m)
					= lbf-in	= lbf-ft			
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)

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

1 N-m = 0,102 kgf-m

Conversion from kgf-m(kp-m) in 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

1 kgf-m (kp-m) = 9,807 N-m

Conversion from N-m in 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

1 N-m = 0,7386 lbf-ft

Conversion from lbf-ft in 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

1 lbf-ft = 1,356 N-m

Conversion from N-m in 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

1 N-m = 8,851 lbf-in

Conversion from lbf-in in 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	10,85	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

1 lbf-in = 0,113 N-m



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/s ²	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/m ²	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 (N)	= 0,102 kp
1 kilopond (kp)*	= 9,81 N
1 kilopond metre (kp·m)*	= 9,81 N·m

* Statutory unit in the Federal Republic of Germany until 1977

Material properties

	Density g/cm ³	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
 $x \text{ °C exp.} = 100 \text{ mm} \times 0,000012 \times 10 = 0,012 \text{ mm} = 12 \text{ μm}$

Example 2: Elastic expansion $e = s/E$.

A body of 100 mm in length made of ABS is stretched with $s = 50 \text{ N/mm}^2$. $e = 50 \text{ N/mm}^2 : 2500 \text{ N/mm}^2 = 0,02$.
The expansion is: $100 \text{ mm} \times 0,02 = 2 \text{ mm}$.

Example 3: Two steel plates with a total thickness of 20 mm are pre-stressed by means of a screw connection of $s = 50 \text{ N/mm}^2$; $e = 50 : 210000 = 0,00024$.
The compression in the surrounding area of the screw is $20 \text{ mm} \times 0,00024 = 0,0048 \text{ mm} = 5 \text{ μm}$.

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/mm ²
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



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 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.

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 choice of the coefficient of friction. 80% of the tightening-torque values apply for countersunk head screws on account of the remaining base thickness.

Screw thread Nut thread			blackened or Zinc-phosphate			Steel		
			pressed rolled	rolled cut	sharpened	cadmiumplated 6μ	zincplated 6μ	
Steel	ground		Slightly rolled	0,14	0,10	0,16	0,10	0,10
	sharpened			0,16	0,10	0,16	0,10	0,10
	ground sharpened	Zn-phosphat.		0,14	0,10			
	turned sharpened			0,10				
	turned sharpened			0,10	0,10		0,10	0,10
	cadmium-plated	6 μ					0,14	
	zinc-plated							0,10
	cadmium-plated			0,10	0,10		0,14	
	zinc-plated			0,10	0,10			0,14

Guideline values for the coefficient of friction μ

In order to 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 can 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 particular, 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.



FRICION VALUE μ_{ges} 0,10 AND 0,14

Friction value μ_{ges} 0,10				Shank screws with metric ISO-medium threads in accordance with DIN 13 Part 12 (selection)											
μ_{ges} 0,10	P mm	4.6		5.6		6.8		8.8		10.9		12.9			
		Fsp N	M _A N-m	Fsp N	M _A N-m	Fsp N	M _A N-m	Fsp N	M _A N-m	Fsp N	M _A N-m	Fsp 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 13 Part 12 (selection)															
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 μ_{ges} 0,14				Shank screws with metric ISO-medium threads in accordance with DIN 13 Part 12 (selection)											
μ_{ges} 0,14	P mm	4.6		5.6		6.8		8.8		10.9		12.9			
		Fsp N	M _A N-m	Fsp N	M _A N-m	Fsp N	M _A N-m	Fsp N	M _A N-m	Fsp N	M _A N-m	Fsp 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	5											

FRICION VALUE μ_{ges} 0,16

Friction value μ_{ges} 0,16													
Shank screws with metric ISO medium threads in accordance with DIN 13 Part 12 (selection)													
μ_{ges} 0,16	P mm	Fsp N	M_A N-m	Fsp N	M_A N-m	Fsp N	M_A N-m	Fsp N	M_A N-m	Fsp N	M_A N-m	Fsp 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 13 Part 12 (selection)													
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

- μ_{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 % utilisation 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 330. 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 external 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 1 2 d>16 mm 3	9.8 2	10.9	12.9
5.1	Norm, tensile strength R _m , nominal	N/mm ²	300	400	400	500	500	600	800	800	900	1000	1200
5.2	Norm, tensile strength R _m , min. 4, 5	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 6	220 6	220 6	220 6	220 6	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 6			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
		max.	HRB	95,0 6	95,0 6	95,0 6	95,0 6	95,0 6	99,5	–	–	–	–
		max.	HRC	–	–	–	–	–	–	32	34	37	39
5.6	Surface hardness HV 0,3	max.	–	–	–	–	–	–	–	–	7		
5.7	Lower yield point ReL 8 in N/mm ²	Nominal value	180	240	320	300	400	480	–	–	–	–	–
		min.	190	240	340	300	420	480	–	–	–	–	–
5.8	0,2%-yield strength Rp 0,2 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 5		The values under diagonal pull strain for whole screws (not pin screws) must not fall below the minimum tensile strengths stated in Section.										
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 _t	1/2 H _t	1/2 H _t	2/3 H _t	3/4 H _t
	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 6157-1 or ISO 6157-3, where applicable										

- 1 In the case of screws of the strength class 8.8 having a thread diameter $d \leq 16$ 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.
- 2 The strength class 9.8 only applies for nominal thread diameters ≤ 16 mm.
- 3 For steel screws, the limit is 12 mm.
- 4 The minimum tensile strengths apply for screws with nominal lengths $l \geq 2,5 d$. 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).
- 5 For tests on full screws, the fracture forces used to calculate R_m must concur with the properties of the screws at higher temperature.
- 6 A hardness value at the end of the screw is permitted to be 250 HV, 238 HB or 99,5 HRB at most.
- 7 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.
- 8 If the lower yield point ReL cannot be determined, the 0.2 % yield strength R_{p0,2}, lowerd, applies. For the strength classes 4.8, 5.8 and 6.8, the values for ReL are only specified as a calculation basis – they are not tested.
- 9 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

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