

**GEDORE** 



## **GSA** RANGE CATALOGUE

**2024-25**

TOOLS FOR **LIFE**

0861-GEDORE

[www.gedore.co.za](http://www.gedore.co.za)



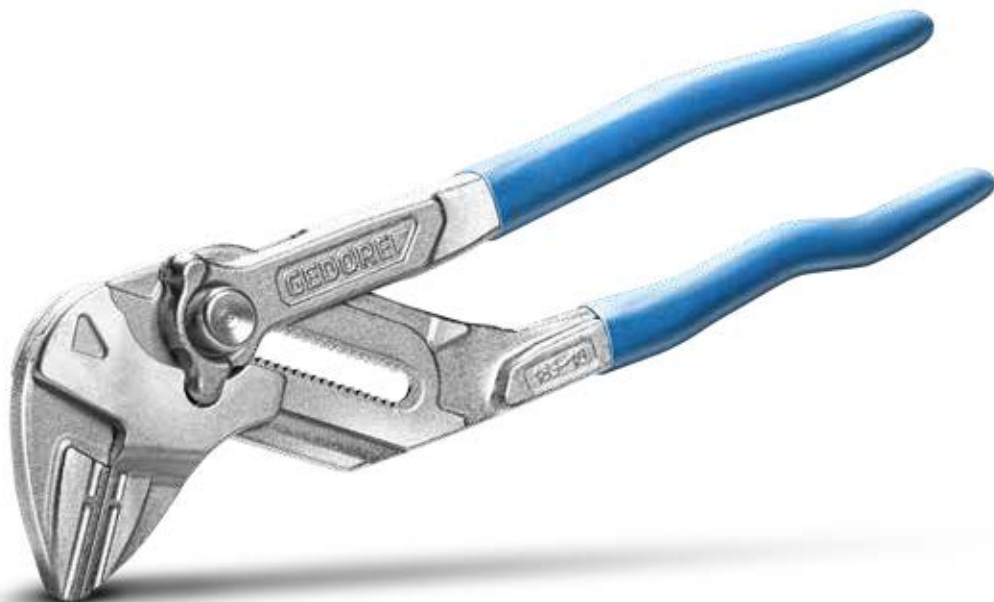
**54**

**SCREWDRIVERS**



**82**

**AUTOMOTIVE TOOLS**



**66**

**PLIERS**



**117**

**SHEETMETAL PRODUCTS**



**186**

**APPRENTICE / ARTISAN TOOLKITS**





# CONTENTS

|                                                                                     |                               |                |
|-------------------------------------------------------------------------------------|-------------------------------|----------------|
|    | SPANNERS                      | <b>2-17</b>    |
|    | SOCKETS & ACCESSORIES         | <b>18-53</b>   |
|    | SCREWDRIVERS                  | <b>54-65</b>   |
|   | PLIERS                        | <b>66-81</b>   |
|  | AUTOMOTIVE & SPECIAL TOOLS    | <b>82-99</b>   |
|  | SHEETMETAL & TOOL ASSORTMENTS | <b>100-121</b> |
|  | HAMMERS & STRIKING TOOLS      | <b>122-129</b> |
|  | VDE INSULATED SAFETY TOOLS    | <b>130-141</b> |
|  | TORQUE TOOLS                  | <b>142-165</b> |
|  | LDA / LAW                     | <b>166-167</b> |
|  | MULTIPLIERS                   | <b>168-175</b> |
|  | PULLERS                       | <b>176-185</b> |
|  | APPRENTICE / ARTISAN TOOLKITS | <b>186-205</b> |

TECHNOLOGY & SAFETY / ARTICLE INDEX **206-224**



# SPANNERS

The key to success: perfect work results can only be reached with the perfect spanner. The name GEDORE stands for exact nominal dimensions, long service life, full torque transmission and work safety worldwide.

The GEDORE story began with the spanner in 1919. Since then, the range of open-end, ring, ring ratchet and special spanners has grown steadily. Classics such as the No. 6 and the 7R ratchet spanner continue to set standards in terms of precision and reliability. All GEDORE spanners are manufactured from high-quality steel in a forging

furnace, have precise nominal dimensions and a complex surface finish. Quality made in Germany and South Africa for optimum working quality and safety.



## PRECISION, CORRECT MEASUREMENTS AND PERFECT FIT

- The most important requirements for a safe working environment
- Easy transmission of torque
- Profiles easy on the bolt heads (UD, jaw, hexagon)
- Precise manufacture of spanners ensure that spanners fit perfectly on bolts







## WHY MATT CHROME-PLATED?

- Secure grip, even with oily hands
- Double corrosion protection

PRECISE  
RELIABLE



## DURABLE AND RESILIENT

- For hard, safe continuous use
- High torque tolerance - spanners bend instead of breaking when overloaded
- Extreme durability for a long life

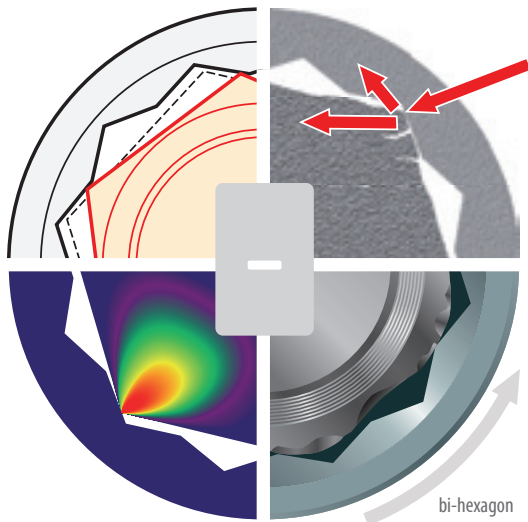
## WIDEST RANGE

- A wide range of spanners for all work requirements.
- Available individually or in convenient sets

# GEDORE UNIT-DRIVE

The GEDORE UNIT-DRIVE profile prevents the "round turning" of screw heads by means of a wave profile without pointed or sharp edges.

## TRADITIONAL PROFILE



- 1** The reduced contact surface lessens the force closure. Certain torque transfer is no longer possible and can become a risk.
- 2** The influence exerted of the sharp edges raises the notching effect on the bolt. The profile is ruined.
- 3** Since there is no longer any torque transfer, the rounded bolt profiles cannot be unscrewed - the tool keeps on slipping.
- 4** Pronounced force on the tip of the bolt profile. Concentrated pressure deforms the bolt.

- 1** A large contact surface provides a secure force closure even for those bolts whose sizes lie outside of the tolerances.

- 2** Uniform distribution of the force on the bolt flanks. The resulting reduced notching effect stops the bolt from turning round and round.

- 3** Gentle torque transfer enables even worn bolts to be unscrewed with every certainty - no slipping of the tool at all.

- 4** Thanks to the optimally distributed force up to 20 % higher torques can be transferred.

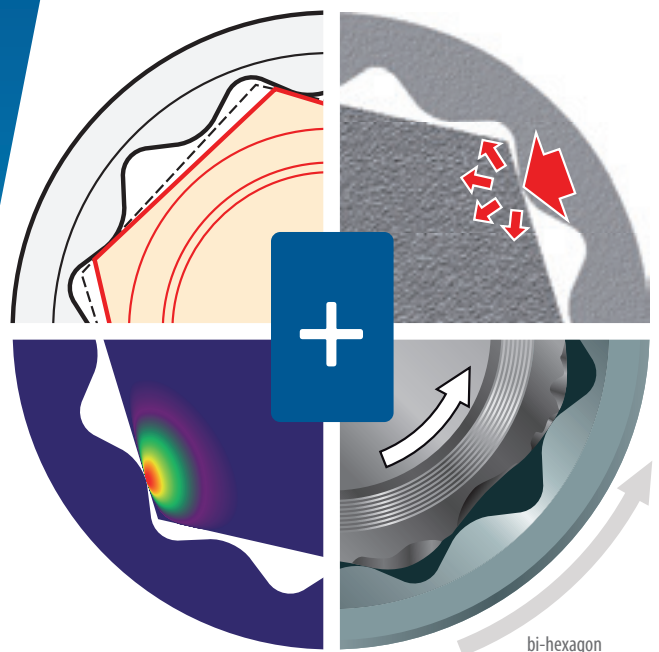
## OPTIMUM FRICTIONAL LOCKING PROTECTS SCREW HEADS



Enlarged, round contact surfaces of GEDORE tools ensure reliable torque transmission, which acts evenly on the screw head.

The notch effect, reduced to a minimum as a result, prevents damage to the screw head profile - a plus for safety, as slipping and spinning is prevented, even with damaged screw heads.

## GEDORE UNIT-DRIVE PROFILE (UD-PROFILE)





# i NO. 1 B

## The strong all-rounder



**1** JAW: GROUND PRECISELY TO EXACT NOMINAL SIZE FOR OPTIMUM CONTACT AREAS

**2** NON-GLARE, MATT CHROME-PLATING

**3** RING: 10° OFFSET FROM SHAFT, WITH UD PROFILE FOR GENTLE TRANSMISSION OF FORCE

**4** SLIM RIBBED OPEN END FOR ADDED STRENGTH GUARANTEES MAXIMUM TORQUE

- Acc. to DIN 3113 Form B, ISO 3318, ISO 7738
- Sizes 5 and 5.5 mm with hexagon ring, up from size 6 mm with UD profile
- GEDORE vanadium steel 31CrV3, chrome plated
- Carefully forged and professionally machined

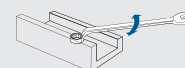
- Ring: cranked and angled 10°, with UD Profile for gentle power transmission
- Overloading indicated by deformation
- The offset ring ensures a better grip on deep seated or inset nuts or bolts
- Top-grade industrial quality for the hardest of continuous use

## 1 B (MM)

Combination spanner  
with same size each end, metric



- > Size 5 and 5.5 mm with hexagonal ring, from 6mm with UD profile for gentle power transmission
- > Ring cranked and angled 10°
- > For actuating recessed or deep-set nuts or screws



| Code    | No.     | mm  | L   |       | Code   | No.    | mm | L   |       | Code    | No.    | mm | L   |       |
|---------|---------|-----|-----|-------|--------|--------|----|-----|-------|---------|--------|----|-----|-------|
| 6000240 | 1 B 5   | 5   | 100 | 0.015 | 600172 | 1 B 18 | 18 | 245 | 0.160 | 002540  | 1 B 33 | 33 | 412 | 1.000 |
| 6000320 | 1 B 5,5 | 5.5 | 100 | 0.015 | 600180 | 1 B 19 | 19 | 258 | 0.190 | 600415  | 1 B 34 | 34 | 412 | 0.840 |
| 600040  | 1 B 6   | 6   | 100 | 0.014 | 600199 | 1 B 20 | 20 | 270 | 0.220 | 600342  | 1 B 36 | 36 | 460 | 1.160 |
| 600059  | 1 B 7   | 7   | 112 | 0.021 | 600202 | 1 B 21 | 21 | 280 | 0.250 | 600350  | 1 B 38 | 38 | 460 | 1.450 |
| 600067  | 1 B 8   | 8   | 125 | 0.025 | 600210 | 1 B 22 | 22 | 292 | 0.300 | 002527  | 1 B 41 | 41 | 520 | 1.485 |
| 600075  | 1 B 9   | 9   | 138 | 0.033 | 600229 | 1 B 23 | 23 | 305 | 0.335 | 002528  | 1 B 46 | 46 | 550 | 1.900 |
| 600083  | 1 B 10  | 10  | 148 | 0.044 | 600237 | 1 B 24 | 24 | 318 | 0.370 | 002529  | 1 B 50 | 50 | 580 | 2.350 |
| 600091  | 1 B 11  | 11  | 158 | 0.050 | 600245 | 1 B 25 | 25 | 328 | 0.410 | 002530  | 1 B 55 | 55 | 620 | 3.600 |
| 600105  | 1 B 12  | 12  | 168 | 0.070 | 600253 | 1 B 26 | 26 | 340 | 0.450 | 6004070 | 1 B 60 | 60 | 660 | 3.600 |
| 600113  | 1 B 13  | 13  | 185 | 0.077 | 600261 | 1 B 27 | 27 | 352 | 0.500 | 6004660 | 1 B 65 | 65 | 710 | 4.500 |
| 600121  | 1 B 14  | 14  | 198 | 0.088 | 600288 | 1 B 28 | 28 | 370 | 0.560 | 6004740 | 1 B 70 | 70 | 760 | 5.600 |
| 600148  | 1 B 15  | 15  | 210 | 0.103 | 600296 | 1 B 29 | 29 | 370 | 0.570 | 6004820 | 1 B 75 | 75 | 810 | 6.454 |
| 600156  | 1 B 16  | 16  | 220 | 0.120 | 600318 | 1 B 30 | 30 | 390 | 0.645 | 6004900 | 1 B 80 | 80 | 860 | 8.800 |
| 600164  | 1 B 17  | 17  | 232 | 0.140 | 600326 | 1 B 32 | 32 | 412 | 0.780 |         |        |    |     |       |

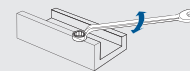
# 1 B (AF)

Combination spanner  
with same size each end, imperial



- > With UD profile for gentle power transmission, from SW 1.3/8" 12-edge ring
- > Ring cranked and angled 10
- > For actuating recessed or deep-set nuts or screws

\*WHILE STOCKS LAST



| Code   | No.         | AF     | L   | kg    |
|--------|-------------|--------|-----|-------|
| 600512 | 1 B 1/4AF   | 1/4"   | 100 | 0.014 |
| 600520 | 1 B 5/16AF  | 5/16"  | 125 | 0.025 |
| 600539 | 1 B 3/8AF   | 3/8"   | 148 | 0.045 |
| 600547 | 1 B 7/16AF  | 7/16"  | 158 | 0.050 |
| 600555 | 1 B 1/2AF   | 1/2"   | 185 | 0.080 |
| 600563 | 1 B 9/16AF  | 9/16"  | 198 | 0.097 |
| 600571 | 1 B 5/8AF   | 5/8"   | 220 | 0.120 |
| 600598 | 1 B 11/16AF | 11/16" | 245 | 0.174 |
| 600601 | 1 B 3/4AF   | 3/4"   | 258 | 0.185 |
| 600628 | 1 B 13/16AF | 13/16" | 280 | 0.250 |

| Code   | No.          | AF      | L   | kg    |
|--------|--------------|---------|-----|-------|
| 600636 | 1 B 7/8AF    | 7/8"    | 292 | 0.300 |
| 600644 | 1 B 15/16AF  | 15/16"  | 318 | 0.370 |
| 600652 | 1 B 1AF      | 1"      | 340 | 0.450 |
| 600660 | 1 B 1.1/16AF | 1.1/16" | 352 | 0.500 |
| 600679 | 1 B 1.1/8AF  | 1.1/8"  | 370 | 0.570 |
| 600881 | 1 B 1.3/16AF | 1.3/16" | 370 | 0.570 |
| 600687 | 1 B 1.1/4AF  | 1.1/4"  | 412 | 0.780 |
| 600695 | 1 B 1.5/16AF | 1.5/16" | 412 | 0.790 |
| 600709 | 1 B 1.3/8AF  | 1.3/8"  | 460 | 1.150 |
| 600717 | 1 B 1.7/16AF | 1.7/16" | 460 | 1.160 |

| Code    | No.            | AF      | L   | kg    |
|---------|----------------|---------|-----|-------|
| 600725  | 1 B 1.1/2AF    | 1.1/2"  | 460 | 1.170 |
| 6007330 | 1 B 1.5/8AF    | 1.5/8"  | 520 | 1.500 |
| 6007410 | 1 B 1.3/4AF    | 1.3/4"  | 550 | 1.900 |
| 6007760 | 1 B 1.7/8AF    | 1.7/8"  | 550 | 1.900 |
| 6007840 | 1 B 2AF        | 2"      | 580 | 2.400 |
| 6007920 | 1 B 2.1/16AF   | 2.1/16" | 580 | 3.200 |
| 6008060 | 1 B 2.3/16AF * | 2.3/16" | 620 | 3.600 |
| 6008140 | 1 B 2.1/4AF    | 2.1/4"  | 620 | 4.000 |
| 6008220 | 1 B 2.3/8AF    | 2.3/8"  | 660 | 4.400 |
| 6008300 | 1 B 2.7/16AF   | 2.7/16" | 660 | 4.800 |

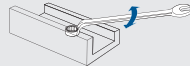
# 1B

Combination spanner sets



- > With UD profile for gentle power transmission, from SW 1.3/8" 12-edge ring
- > Ring cranked and angled 10
- > For actuating recessed or deep-set nuts or screws

\*WHILE STOCKS LAST

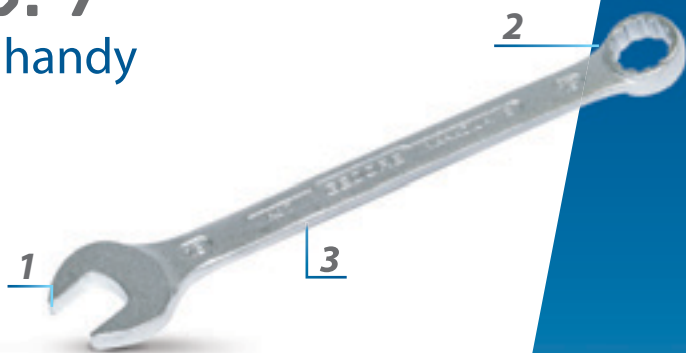


| Code     | No.                    | Contents                                             | pieces | kg    |
|----------|------------------------|------------------------------------------------------|--------|-------|
| 601152   | 1 B-04M                | 10 13 17 19 mm                                       | 4      | 0.500 |
| 601160   | 1 B-06M*               | 10 11 13 14 17 19 mm                                 | 6      | 0.670 |
| 601187   | 1 B-08M                | 10 12 13 14 17 19 22 24 mm                           | 8      | 1.380 |
| 601200   | 1 B-10M*               | 10 11 12 13 14 15 16 17 18 19 mm                     | 10     | 2.100 |
| 601217   | 1 B-12M                | 10 11 12 13 14 17 19 22 24 27 30 32 mm               | 12     | 3.260 |
| 601268   | 1 B-17M                | 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 mm    | 17     | 1.910 |
| 601268TR | 1 B-17M WITH TOOLROLL* | 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 mm    | 17     | 2.270 |
| 601438   | 1 B-18M                | 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 24 mm | 18     | 2.390 |

| Code     | No.                    | Contents                                                                                               | pieces | kg    |
|----------|------------------------|--------------------------------------------------------------------------------------------------------|--------|-------|
| 601276   | 1 B-26M                | 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 32 mm                           | 26     | 6.740 |
| 601276TR | 1 B-26M WITH TOOLROLL* | 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 32 mm                           | 26     | 7.100 |
| 601179   | 1 B-13A                | 1/4" 5/16" 3/8" 7/16" 1/2" 9/16" 5/8" 11/16" 3/4" 13/16" 7/8" 15/16" 1."                               | 13     | 2.285 |
| 601209   | 1 B-017A               | 1/4" 5/16" 3/8" 7/16" 1/2" 9/16" 5/8" 11/16" 3/4" 13/16" 7/8" 15/16" 1." 1.1/16" 1.1/8" 1.3/16" 1.1/4" | 17     | 4.765 |

# i NO. 7

## The handy



- 1** JAW: GROUND PRECISELY TO EXACT NOMINAL SIZE FOR OPTIMUM CONTACT AREAS
- 2** RING: 15° OFFSET FROM SHAFT, WITH UD PROFILE FOR GENTLE TRANSMISSION OF FORCE
- 3** NON-GLARE, MATT CHROME-PLATING

- Acc. to DIN 3113 Form A, ISO 3318, ISO 7738
- GEDORE vanadium steel 31CrV3, chrome plated
- Carefully forged and professionally machined
- Slim jaw and jaw walls make this spanner lighter overall
- Overloading indicated by deformation

- Secure grip thanks to hollow shaft - very ergonomic and handy
- Non-glare look thanks to matt chrome-plating
- Designed for universal use
- Top-grade industrial quality for the hardest of continuous use

## 7 (MM)

Combination spanner with same size each end metric



- › Slim jaw and jaw walls make this spanner lighter overall
- › Ring 15° angled, with UD profile - for gentle power transmission
- › Mouth position 15°, precisely ground to exact nominal dimension for optimum contact surfaces

| Code   | No.  | mm | L   | kg    |
|--------|------|----|-----|-------|
| 608955 | 7 6  | 6  | 100 | 0.012 |
| 608963 | 7 7  | 7  | 110 | 0.015 |
| 608971 | 7 8  | 8  | 120 | 0.020 |
| 608998 | 7 9  | 9  | 130 | 0.032 |
| 609005 | 7 10 | 10 | 140 | 0.034 |
| 609013 | 7 11 | 11 | 150 | 0.045 |
| 609021 | 7 12 | 12 | 160 | 0.050 |

| Code   | No.  | mm | L   | kg    |
|--------|------|----|-----|-------|
| 609048 | 7 13 | 13 | 170 | 0.065 |
| 609056 | 7 14 | 14 | 180 | 0.073 |
| 609064 | 7 15 | 15 | 190 | 0.090 |
| 609161 | 7 16 | 16 | 200 | 0.120 |
| 609072 | 7 17 | 17 | 210 | 0.105 |
| 609188 | 7 18 | 18 | 220 | 0.165 |
| 609080 | 7 19 | 19 | 230 | 0.150 |

| Code   | No.  | mm | L   | kg    |
|--------|------|----|-----|-------|
| 609196 | 7 20 | 20 | 240 | 0.220 |
| 609218 | 7 21 | 21 | 252 | 0.250 |
| 609099 | 7 22 | 22 | 262 | 0.215 |
| 609226 | 7 23 | 23 | 270 | 0.335 |
| 609102 | 7 24 | 24 | 282 | 0.295 |
| 609234 | 7 25 | 25 | 290 | 0.410 |
| 609242 | 7 26 | 26 | 302 | 0.450 |

| Code   | No.  | mm | L   | kg    |
|--------|------|----|-----|-------|
| 609110 | 7 27 | 27 | 310 | 0.400 |
| 609250 | 7 28 | 28 | 320 | 0.440 |
| 609269 | 7 29 | 29 | 330 | 0.500 |
| 609129 | 7 30 | 30 | 340 | 0.544 |
| 609137 | 7 32 | 32 | 380 | 0.624 |

## 7 (MM)

Combination spanner set metric



- › Practical composition
- › With same size each end
- › Ring 15° angled, with UD profile - for gentle power transmission
- › Mouth position 15°, precisely ground to exact nominal dimension for optimum contact surfaces

| Code   | No.    | Contents                                             | pieces | kg   |
|--------|--------|------------------------------------------------------|--------|------|
| 609358 | 7-17 M | 6 7 8 9 10 11 12 13 14 15 16 17 18 19<br>20 21 22 mm | 17     | 1.65 |

| Code   | No.    | Contents                                                                        | pieces | kg   |
|--------|--------|---------------------------------------------------------------------------------|--------|------|
| 609374 | 7-26 M | 6 7 8 9 10 11 12 13 14 15 16 17 18 19<br>20 21 22 23 24 25 26 27 28 29 30 32 mm | 26     | 5.11 |



# **RATCHET SPANNER**

The revolution



- 1** HOLLOW PROFILE  
COMFORTABLE TO HOLD
- 2** FOR RATCHET LOOSENING  
AND TIGHTENING
- 3** WARP-RESISTANT GEOMETRY  
WITH DOUBLE T-GIRDER EFFECT
- 4** NON-GLARE, MATT CHROME-PLATING

- With same size each end
- UD profile
- GEDORE vanadium steel 31CrV3
- Non-glare look thanks to matt chrome plating

- Locking insert and pawl manganese-phosphated
- Hot forged
- Jaw: ground precisely to exact nominal size for optimum contact areas
- High torque transfer

## 7R (MM)

Combination ratchet spanner  
Flat pattern, metric



- > With same size each end
- > For ratcheting release or quick tightening
- > Flat pattern
- > High torque transfer

| Code    | No.    | mm   | L   | kg    |
|---------|--------|------|-----|-------|
| 2297051 | 7 R 8  | 8,0  | 140 | 0.032 |
| 2297078 | 7 R 9  | 9,0  | 150 | 0.042 |
| 2297086 | 7 R 10 | 10   | 160 | 0.054 |
| 2297094 | 7 R 11 | 11   | 164 | 0.063 |
| 2297108 | 7 R 12 | 12,0 | 170 | 0.069 |
| 2297116 | 7 R 13 | 13,0 | 180 | 0.088 |
| 2297124 | 7 R 14 | 14,0 | 190 | 0.101 |

| Code    | No.    | mm   | L   | kg    |
|---------|--------|------|-----|-------|
| 2297132 | 7 R 15 | 15,0 | 200 | 0.125 |
| 2297140 | 7 R 16 | 16,0 | 212 | 0.137 |
| 2297159 | 7 R 17 | 17,0 | 225 | 0.160 |
| 2297167 | 7 R 18 | 18,0 | 237 | 0.197 |
| 2297175 | 7 R 19 | 19,0 | 250 | 0.202 |
| 2219433 | 7 R 21 | 21,0 | 274 | 0.262 |
| 2297191 | 7 R 22 | 22,0 | 292 | 0.319 |

| Code    | No.    | mm   | L   | kg    |
|---------|--------|------|-----|-------|
| 2297205 | 7 R 24 | 24,0 | 325 | 0.520 |
| 2297213 | 7 R 27 | 27,0 | 359 | 0.590 |
| 2297221 | 7 R 30 | 30,0 | 399 | 0.780 |
| 2297248 | 7 R 32 | 32,0 | 424 | 0.920 |
| 2219549 | 7 R 34 | 34,0 | 449 | 1.010 |
| 2219557 | 7 R 36 | 36,0 | 480 | 1.208 |

## 7 R-005

Combination ratchet spanner set  
5 pieces



- > Practical composition
- > For ratchet loosening and fast tightening
- > Flat pattern
- > In plastic case

\*WHILE STOCKS LAST

| Code    | No.     | Contents             | Pieces | kg    |
|---------|---------|----------------------|--------|-------|
| 2297434 | 7 R-005 | 7 R 8 10 13 17 19 mm | 5      | 0.930 |

## 7 R-012

Combination ratchet spanner set  
12 pieces



- > Practical composition
- > For ratchet loosening and fast tightening
- > Flat pattern
- > In robust sheet metal case

| Code    | No.     | Contents                            | Pieces | kg    |
|---------|---------|-------------------------------------|--------|-------|
| 2297442 | 7 R-012 | 7 R 8 10 12 13 14 15 16 17 18 19 mm | 12     | 2.840 |

## i NO. 2

Offset



- RINGS DEEP OFFSET, THIN, STRONG WALLS
- ACC. TO DIN 838, ISO 3318, ISO 1085, ISO 10104
- GEDORE VANADIUM STEEL 31CRV3, CHROME PLATED
- CAREFULLY FORGED AND PROFESSIONALLY MACHINED:
- RING: THIN-WALLED, 5° DEEP OFFSET FROM SHAFT, WITH UD PROFILE FOR GENTLE TRANSMISSION OF FORCE
- HIGH TORQUE - DOES NOT FRACTURE OR SPLINTER WHEN OVERLOADED, MINIMISING THE RISK OF INJURY
- OVERLOADING INDICATED BY DEFORMATION
- NON-GLARE LOOK, MATT CHROME-PLATING
- FOR DEEP OR INSET BOLTS
- TOP-GRADE INDUSTRIAL QUALITY FOR THE HARD, CONTINUOUS USE

## 2 (MM)

Double ended ring spanners, metric



- > With different key widths
- > Rings deeply cranked and angled at 5°
- > For extremely deep or inset bolts

| Code   | No.     | mm    | L   | kg    |
|--------|---------|-------|-----|-------|
| 601535 | 2 6X7   | 6x7   | 170 | 0.050 |
| 601551 | 2 8X9   | 8x9   | 182 | 0.065 |
| 601594 | 2 10X11 | 10x11 | 195 | 0.095 |
| 601659 | 2 12X13 | 12x13 | 212 | 0.120 |
| 601691 | 2 14X15 | 14x15 | 225 | 0.155 |
| 601721 | 2 16X17 | 16x17 | 245 | 0.210 |
| 601748 | 2 17X19 | 17x19 | 265 | 0.260 |
| 601756 | 2 18X19 | 18x19 | 265 | 0.260 |
| 601780 | 2 20X22 | 20x22 | 287 | 0.325 |

| Code   | No.     | mm    | L   | kg    |
|--------|---------|-------|-----|-------|
| 601799 | 2 19X24 | 19x24 | 305 | 0.410 |
| 601802 | 2 21X23 | 21x23 | 305 | 0.410 |
| 601837 | 2 24X26 | 24x26 | 325 | 0.475 |
| 601853 | 2 24X30 | 24x30 | 345 | 0.580 |
| 601861 | 2 25X28 | 25x28 | 345 | 0.580 |
| 601918 | 2 27X32 | 27x32 | 370 | 0.680 |
| 601926 | 2 30X32 | 30x32 | 370 | 0.680 |
| 601934 | 2 30X36 | 30x36 | 400 | 1.000 |
| 601942 | 2 32X36 | 32x36 | 400 | 1.100 |

| Code   | No.             | mm           | L   | kg    |
|--------|-----------------|--------------|-----|-------|
| 003518 | 2 36X41         | 36x41        | 440 | 1.150 |
| 003518 | 2 38X42         | 38x42        | 440 | 1.200 |
| 003520 | 2 41X46         | 41x46        | 485 | 2.250 |
| 003521 | 2 46X50         | 46x50        | 535 | 2.150 |
| 003558 | 2 13/16x7.8*    | 13/16x7.8    | 285 | 0.360 |
| 003561 | 2 1.1/16x1.1/4* | 1.1/16x1.1/4 | 370 | 0.700 |
| 003567 | 2 1.7/16x1.5/8* | 1.7/16x1.5/8 | 440 | 1.300 |
| 003568 | 2 1.13/16x2*    | 1.13/16x2    | 540 | 2.200 |

## 2

Double ended ring spanner sets



- > Practical composition
- > With different key widths
- > Rings deeply cranked and angled at 5°

\*WHILE STOCKS LAST

| Code   | No.    | Contents                                                         | Pieces | kg    |
|--------|--------|------------------------------------------------------------------|--------|-------|
| 603058 | 2-8M   | 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 mm                   | 8      | 1.297 |
| 603112 | 2-11M* | 6x7 8x9 10x11 12x13 14x15 16x17 17x19 18x19 20x22 21x23 24x30 mm | 11     | 2.555 |

| Code   | No.   | Contents                                                               | Pieces | kg   |
|--------|-------|------------------------------------------------------------------------|--------|------|
| 603090 | 2-12M | 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x26 25x28 27x32 mm | 12     | 4.06 |

## TX4

Flat ring spanner  
TORX®



> With different key widths

\*WHILE STOCKS LAST

| Code    | No.           | mm              | L   | kg    | Code    | No.           | mm               | L   | kg    |
|---------|---------------|-----------------|-----|-------|---------|---------------|------------------|-----|-------|
| 6059800 | TX 4 E6XE8*   | 5,74 x 7,52 mm  | 110 | 0.014 | 6060140 | TX 4 E14XE18* | 12,90 x 16,70 mm | 180 | 0.074 |
| 6059990 | TX 4 E10XE12* | 9,42 x 11,17 mm | 140 | 0.039 | 6060220 | TX 4 E20XE24* | 18,45 x 22,16 mm | 226 | 0.163 |



## SPECIAL



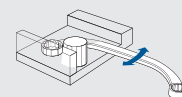
- THIN WALLED RINGS
- GEDORE VANADIUM STEEL 31CRV3, CHROME PLATED
- SPECIALISTS IN TIGHT SPACES

## 304 (MM)

Half moon ring  
spanners, metric



- > Thin walled rings
- > For working in extremely difficult to access areas



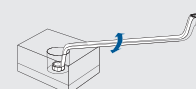
| Code    | No.       | mm    | L   | kg    | Code    | No.       | mm    | L   | kg    | Code   | No.          | mm       | L   | kg    |
|---------|-----------|-------|-----|-------|---------|-----------|-------|-----|-------|--------|--------------|----------|-----|-------|
| 006001  | 304 11X13 | 11x13 | 152 | 0.075 | 6470390 | 304 14X17 | 14X17 | 185 | 0.135 | 006004 | 304 19X22    | 19X22    | 233 | 0.230 |
| 006006  | 304 13X15 | 13x15 | 185 | 0.135 | 006003  | 304 15X17 | 15X17 | 186 | 0.120 | 006051 | 304 7/16X1/2 | 7/16X1/2 | 150 | 0.075 |
| 6470120 | 304 13X17 | 13X17 | 185 | 0.135 | 006007  | 304 16X18 | 16X18 | 185 | 0.170 | 006052 | 304 9/16X5/8 | 9/16X5/8 | 185 | 0.135 |
| 006002  | 304 14X16 | 14X16 | 185 | 0.120 | 006005  | 304 19X21 | 19X21 | 233 | 0.230 | 006053 | 304 3/4X7/8  | 3/4X7/8  | 230 | 0.275 |

## 304

Half moon ring  
spanner sets



- > Thin walled rings
- > For working in extremely difficult to access areas



| Code   | No.    | Contents                               | Pieces | kg    |
|--------|--------|----------------------------------------|--------|-------|
| 634018 | 304 6M | 11x13 14x16 15x17 16x18 19x21 19x22 mm | 6      | 1.200 |



## 400 (MM)

Flare nut spanners, metric



- › With different key widths
- › Application on hydraulic/brake lines
- › Sizes 8x10 to 12x14 mm with hexagon
- › Heads 15° angled
- › hexagonal opening 30° offset, UD profile opening 15° offset

| Code    | No.       | mm    | L   | kg    |
|---------|-----------|-------|-----|-------|
| 005001  | 400 8X10  | 8x10  | 140 | 0.045 |
| 6056970 | 400 9X11  | 9x11  | 145 | 0.050 |
| 005002  | 400 10X11 | 10x11 | 150 | 0.055 |
| 6051070 | 400 10X12 | 10x12 | 150 | 0.110 |
| 005003  | 400 11X13 | 11x13 | 160 | 0.075 |

| Code   | No.          | mm       | L   | kg    |
|--------|--------------|----------|-----|-------|
| 005004 | 400 12X14    | 12x14    | 170 | 0.100 |
| 005005 | 400 14X17    | 14x17    | 195 | 0.135 |
| 005006 | 400 17X19    | 17x19    | 210 | 0.160 |
| 005007 | 400 22X24    | 22x24    | 250 | 0.320 |
| 005051 | 400 5/16x3/8 | 5/16x3/8 | 140 | 0.045 |

| Code   | No.          | mm       | L   | kg    |
|--------|--------------|----------|-----|-------|
| 005053 | 400 7/16x1/2 | 7/16x1/2 | 160 | 0.075 |
| 005055 | 400 9/16x5/8 | 9/16x5/8 | 195 | 0.135 |
| 005056 | 400 5/8x3/4  | 5/8x3/4  | 210 | 0.160 |

## 534 (MM)

Combination swivel head spanner, metric



- › Slim pattern, with free moving socket wrench
- › With hole for tommy bars 26 D and 26 RS (please order separately)

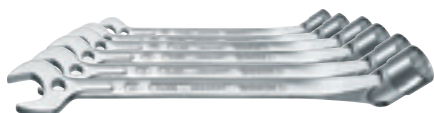
| Code   | No.    | mm | L   | 26 D | 26 RS | kg    |
|--------|--------|----|-----|------|-------|-------|
| 651206 | 534 10 | 10 | 179 | 1    |       | 0.055 |
| 651214 | 534 11 | 11 | 189 | 1    |       | 0.065 |
| 651222 | 534 12 | 12 | 198 | 1    |       | 0.075 |
| 651230 | 534 13 | 13 | 208 | 1    |       | 0.095 |

| Code   | No.    | mm | L   | 26 D | 26 RS | kg    |
|--------|--------|----|-----|------|-------|-------|
| 651249 | 534 14 | 14 | 218 | 6    | 1     | 0.110 |
| 651257 | 534 15 | 15 | 231 | 6    | 1     | 0.120 |
| 651265 | 534 16 | 16 | 244 | 6    | 1     | 0.140 |
| 651273 | 534 17 | 17 | 255 | 8    | 2     | 0.170 |

| Code   | No.    | mm | L   | 26 D | 26 RS | kg    |
|--------|--------|----|-----|------|-------|-------|
| 651303 | 534 18 | 18 | 269 | 8    | 2     | 0.220 |
| 651281 | 534 19 | 19 | 283 | 8    | 2     | 0.240 |

## 534

Combination swivel head spanner sets



- › Slim pattern, with free moving socket wrench
- › With hole for tommy bars 26 D and 26 RS (please order separately)

| Code   | No.    | Contents                   | Pieces | kg    |
|--------|--------|----------------------------|--------|-------|
| 651389 | 534-6M | 10 12 13 14 17 19          | 6      | 1.000 |
| 651397 | 534-9M | 10 11 12 13 14 15 16 17 19 | 9      | 1.410 |

## 400

Flare nut spanner set



- › Heads 15° angled
- › hexagonal opening 30° offset, UD profile opening 15° offset

| Code   | No.    | Contents                        | Pieces | kg    |
|--------|--------|---------------------------------|--------|-------|
| 634026 | 400 5M | 8X10 11X13 12X14 17X19 22X24 mm | 5      | 1.200 |

# **i NO. 6** Strong and accurate



- 1** JAW: GROUND PRECISELY TO EXACT NOMINAL SIZE FOR OPTIMUM CONTACT AREAS
- 2** NON-GLARE, MATT CHROME-PLATING
- 3** SECURE GRIP THANKS TO SLIM PROFILE SHAFT
- 4** SLIM PATTERN

- Acc. to DIN 3110, ISO 3318, ISO 1085, ISO 10102
- Top-grade industrial quality for the hardest of continuous use

- Overloading indicated by deformation
- GEDORE vanadium steel 31CrV3, heads finely polished, chrome-plated

## **6 (MM)** Double open ended spanners, metric



- > With different key widths
- > For hard to reach places thanks to very flat head

| Code          | No.     | Ø mm  | L   | kg    |
|---------------|---------|-------|-----|-------|
| <b>606383</b> | 6 6X7   | 6x7   | 122 | 0.020 |
| <b>606421</b> | 6 8X9   | 8x9   | 140 | 0.025 |
| <b>606448</b> | 6 8X10  | 8x10  | 140 | 0.030 |
| <b>606472</b> | 6 10X11 | 10x11 | 157 | 0.040 |
| <b>606537</b> | 6 12X13 | 12x13 | 172 | 0.060 |
| <b>606588</b> | 6 14X15 | 14x15 | 188 | 0.070 |
| <b>606626</b> | 6 16X17 | 16x17 | 205 | 0.110 |
| <b>606642</b> | 6 17X19 | 17x19 | 222 | 0.155 |

| Code          | No.     | Ø mm  | L   | kg    |
|---------------|---------|-------|-----|-------|
| <b>606650</b> | 6 18X19 | 18x19 | 222 | 0.155 |
| <b>606677</b> | 6 19X22 | 19x22 | 236 | 0.210 |
| <b>606685</b> | 6 20X22 | 20x22 | 236 | 0.210 |
| <b>606707</b> | 6 21X23 | 21x23 | 247 | 0.240 |
| <b>606731</b> | 6 24X26 | 24x26 | 266 | 0.300 |
| <b>606758</b> | 6 24X27 | 24x27 | 266 | 0.300 |
| <b>606774</b> | 6 25X28 | 25x28 | 280 | 0.355 |
| <b>004518</b> | 6 27X32 | 27x32 | 302 | 0.460 |

| Code          | No.     | Ø mm  | L   | kg    |
|---------------|---------|-------|-----|-------|
| <b>606812</b> | 6 30X32 | 30x32 | 302 | 0.460 |
| <b>004520</b> | 6 32X36 | 32x36 | 328 | 0.650 |
| <b>004521</b> | 6 36X41 | 36x41 | 360 | 0.850 |
| <b>004522</b> | 6 38X42 | 38x42 | 360 | 0.800 |
| <b>004523</b> | 6 41X46 | 41x46 | 400 | 1.100 |
| <b>004524</b> | 6 46X50 | 46x50 | 450 | 1.600 |

## **6 (MM)** Double open ended spanner sets, metric



- > Practical sets
- > With different key widths
- > For hard to reach places thanks to very flat head

| Code          | No.   | Contents                                                   | Pieces | kg    |
|---------------|-------|------------------------------------------------------------|--------|-------|
| <b>607738</b> | 6-8M  | 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 mm             | 8      | 0.690 |
| <b>607754</b> | 6-10M | 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 mm | 10     | 1.230 |

| Code          | No.    | Contents                                                               | Pieces | kg    |
|---------------|--------|------------------------------------------------------------------------|--------|-------|
| <b>607878</b> | 6-11M* | 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x27 30x32 mm       | 11     | 1.690 |
| <b>607770</b> | 6-12M  | 6x7 8x9 10x11 12x13 14x15 16x17 18x19 20x22 21x23 24x26 25x28 27x32 mm | 12     | 2.040 |

**i** **62**  
Heavy duty



**1** A SMALLER ANGLE 15° WRENCH ALIGNS THE WRENCH WITH THE NUT IN A MANNER THAT OFFERS SPEED, PRECISION, ERGONOMIC COMFORT AND PROVIDES GREATER LEVERAGE DISTANCE THUS REDUCING HAND & ARM FATIGUE

**2** NON-PROTRUDING ON THE MOVABLE JAW END. THIS ALLOWS A GREATER EASE OF USE IN TIGHT SPACES

**3** CHROME VANADIUM, EXCEEDING INTERNATIONAL STANDARDS AS ISO 6787-1982

**4** THICKER HANDLE PROVIDES A COMFORTABLE FIT MAKING IT EASY TO APPLY FORCE

**5** UNIFORM MECHANICAL GRINDING OF FACE GIVES WRENCHES A VERY FLAT AND STRONG INDUSTRIAL APPEARANCE

**6** WITH RULER SCALE

**7** COMES BLISTER PACKED

**62**  
Adjustable wrench



> Heavy duty  
> Exceeding international standards as ISO 6787-1982

| Code    | No.          | mm | L   |       |
|---------|--------------|----|-----|-------|
| 6368000 | 62 P6 150mm  | 22 | 155 | 0.138 |
| 6368190 | 62 P8 200mm  | 28 | 205 | 0.257 |
| 6368270 | 62 P10 250mm | 33 | 255 | 0.425 |
| 6368350 | 62 P12 300mm | 38 | 306 | 0.590 |

| Code    | No.          | mm | L   |       |
|---------|--------------|----|-----|-------|
| 6368430 | 62 P15 375mm | 50 | 383 | 1.030 |
| 6368510 | 62 P18 450mm | 60 | 460 | 1.675 |
| 6360880 | 62 P24 600mm | 63 | 610 | 3.555 |

## 2A (MM)

Single ended ring spanners, metric



- > Heavy-duty pattern for highest torques
- > Special sizes available on request
- > Optional accessories:  
No. 2 AR extension tube for extending the lever arm

| Code    | No.    | mm | L   | kg    |
|---------|--------|----|-----|-------|
| 6033840 | 2 A 24 | 24 | 180 | 0.350 |
| 6033920 | 2 A 27 | 27 | 190 | 0.400 |
| 6034060 | 2 A 30 | 30 | 200 | 0.450 |
| 6034140 | 2 A 32 | 32 | 235 | 0.550 |
| 6030150 | 2 A 34 | 34 | 235 | 0.650 |
| 6034220 | 2 A 36 | 36 | 245 | 0.750 |
| 6034300 | 2 A 41 | 41 | 265 | 1.050 |

| Code    | No.    | mm | L   | kg    |
|---------|--------|----|-----|-------|
| 6034490 | 2 A 46 | 46 | 280 | 1.150 |
| 6034570 | 2 A 50 | 50 | 290 | 1.400 |
| 6034650 | 2 A 55 | 55 | 300 | 2.100 |
| 6034730 | 2 A 60 | 60 | 345 | 2.300 |
| 6034810 | 2 A 65 | 65 | 355 | 2.600 |
| 6035030 | 2 A 70 | 70 | 365 | 2.600 |
| 6035110 | 2 A 75 | 75 | 375 | 3.000 |

| Code    | No.     | mm  | L   | kg    |
|---------|---------|-----|-----|-------|
| 6035380 | 2 A 80  | 80  | 385 | 3.450 |
| 6035460 | 2 A 85  | 85  | 385 | 3.800 |
| 6035540 | 2 A 90  | 90  | 410 | 4.870 |
| 6035620 | 2 A 95  | 95  | 410 | 4.560 |
| 6035700 | 2 A 100 | 100 | 412 | 4.500 |

## 2AR

Extension tube



- > For single ended ring spanner no. 2 A
- > Ideal for extending the lever arm and applying higher forces

| Code    | No.    | Internal-Ø | mm    | L   | kg    |
|---------|--------|------------|-------|-----|-------|
| 6048600 | 2 AR 0 | 19 mm      | 24-30 | 460 | 0.614 |
| 6048790 | 2 AR 1 | 22 mm      | 32-41 | 610 | 1.568 |

| Code    | No.    | Internal-Ø | mm    | L   | kg    |
|---------|--------|------------|-------|-----|-------|
| 6048870 | 2 AR 2 | 25 mm      | 46-55 | 760 | 2.840 |
| 6048950 | 2 AR 3 | 30 mm      | 60-95 | 860 | 3.715 |

## 2ATM

Single ended ring spanner set  
12 pieces



**NEW**

- > Heavy-duty pattern for highest torques
- > With push-on tubes No. 2 AR to extend the lever arm
- > With UD profile for gentle power transmission; from 65mm bi-hex
- > Includes sheet steel wall plate and hook set for organized storage

| Code    | No.  | Contents                                                                                          | Pieces | kg     |
|---------|------|---------------------------------------------------------------------------------------------------|--------|--------|
| 6049250 | 2ATM | A 24 27 30 32 36 41 46 50 55 60 65 70 75 80 85<br>2 AR 0 1 2 3<br>Sheet steel board with hook set | 19     | 53.000 |



# i THE SPECIAL

- OPENING AT RIGHT ANGLE TO SHAFT FOR MAXIMUM ACCESSIBILITY
- GEDORE VANADIUM STEEL 31CRV3, CHROME-PLATED



## 3114 (MM)

Crowfoot spanners,  
metric



- > Angled open-end wrench for working in hard-to-reach areas
- > Delivery without pivot pin

\* WHILE STOCKS LAST

| Code    | No.      | mm | L   | 26 D |       |
|---------|----------|----|-----|------|-------|
| 6670050 | 3114 13* | 13 | 160 | 8    | 0.095 |
| 6670130 | 3114 14* | 14 | 160 | 8    | 0.093 |
| 6676920 | 3114 16* | 16 | 200 | 10   | 0.160 |
| 6670210 | 3114 17* | 17 | 200 | 10   | 0.169 |
| 6677060 | 3114 18* | 18 | 200 | 12   | 0.216 |
| 6670480 | 3114 19* | 19 | 200 | 12   | 0.224 |
| 6677140 | 3114 21* | 21 | 200 | 12   | 0.272 |
| 6670560 | 3114 22* | 22 | 200 | 12   | 0.265 |

| Code    | No.      | mm | L   | 26 D |       |
|---------|----------|----|-----|------|-------|
| 6670640 | 3114 24* | 24 | 250 | 14   | 0.419 |
| 6670720 | 3114 27* | 27 | 250 | 14   | 0.519 |
| 6670800 | 3114 30* | 30 | 250 | 16   | 0.633 |
| 6670990 | 3114 32* | 32 | 250 | 16   | 0.712 |
| 6671020 | 3114 36* | 36 | 315 | 18   | 1.034 |
| 6671290 | 3114 46* | 46 | 315 |      | 1.500 |
| 6671370 | 3114 50* | 50 | 315 |      | 1.600 |

## 306 (MM) / (AF)

Ring slogging spanners,  
metric



> For heavy-duty work  
> Special sizes available on  
request

• SPECIAL ORDER  
\* WHILE STOCKS LAST

| Code    | No.    | mm | L   | kg    |
|---------|--------|----|-----|-------|
| 010001  | 306 22 | 24 | 185 | 0.300 |
| 010002  | 306 27 | 27 | 185 | 0.400 |
| 010003  | 306 30 | 30 | 195 | 0.500 |
| 010004  | 306 32 | 32 | 195 | 0.500 |
| 010035  | 306 34 | 34 | 195 | 0.400 |
| 010005  | 306 36 | 36 | 200 | 0.700 |
| 6474460 | 306 38 | 38 | 205 | 0.660 |
| 010006  | 306 41 | 41 | 225 | 0.800 |
| 010007  | 306 46 | 46 | 240 | 1.100 |
| 010008  | 306 50 | 50 | 250 | 1.200 |
| 6475940 | 306 55 | 55 | 260 | 1.500 |
| 6476080 | 306 60 | 60 | 270 | 1.600 |
| 6476160 | 306 65 | 65 | 290 | 2.200 |
| 6476240 | 306 70 | 70 | 325 | 2.500 |
| 6476320 | 306 75 | 75 | 325 | 3.200 |

| Code    | No.        | mm       | L   | kg     |
|---------|------------|----------|-----|--------|
| 6476400 | 306 80     | 80       | 345 | 3.600  |
| 6476590 | 306 85     | 85       | 345 | 3.900  |
| 6476670 | 306 90     | 90       | 380 | 7.000  |
| 6476750 | 306 95     | 95       | 380 | 7.000  |
| 6476830 | 306 100    | 100 *    | 410 | 6.600  |
| 6476910 | 306 105    | 105 *    | 415 | 9.600  |
| 6477050 | 306 110    | 110 *    | 435 | 9.600  |
| 6477130 | 306 115    | 115 •    | 435 | 9.600  |
| 6477210 | 306 120    | 120 •    | 480 | 9.800  |
| 6477480 | 306 125    | 125 •    | 510 | 9.800  |
| 6477560 | 306 130    | 130 •    | 510 | 13.600 |
| 010051  | 306 15/16" | 15/16" * | 185 | 0.400  |
| 010050  | 306 1"     | 1" *     | 185 | 0.400  |
| 010053  | 306 1.1/8" | 1.1/8" * | 185 | 0.400  |
| 010054  | 306 1.1/4" | 1.1/4" * | 195 | 0.500  |

| Code    | No.          | mm         | L   | kg    |
|---------|--------------|------------|-----|-------|
| 010056  | 306 1.7/16"  | 1.7/16"    | 200 | 0.700 |
| 010057  | 306 1.1/2"   | 1.1/2" *   | 200 | 0.600 |
| 010058  | 306 1.5/8"   | 1.5/8" *   | 225 | 0.800 |
| 010059  | 306 1.11/16" | 1.11/16" * | 225 | 0.800 |
| 010060  | 306 1.3/4"   | 1.3/4" *   | 240 | 1.100 |
| 010062  | 306 1.7/8"   | 1.7/8" *   | 240 | 1.100 |
| 010063  | 306 2"       | 2" *       | 250 | 1.200 |
| 6479930 | 306 2.3/16"  | 2.3/16" *  | 260 | 1.600 |
| 6480000 | 306 2.1/4"   | 2.1/4" *   | 260 | 1.600 |
| 6480190 | 306 2.3/8"   | 2.3/8" *   | 270 | 1.600 |
| 6480350 | 306 2.9/16"  | 2.9/16" *  | 290 | 2.200 |
| 6480430 | 306 2.5/8"   | 2.5/8"     | 290 | 2.200 |
| 6480510 | 306 2.3/4"   | 2.3/4"     | 325 | 2.400 |
| 6480780 | 306 3"       | 3"         | 325 | 3.100 |

## 133 (MM)

Open ended slogging spanner,  
metric



> For heavy-duty work  
> Special sizes available on  
request

\* SPECIAL ORDER

| Code   | No.    | mm | L   | kg    |
|--------|--------|----|-----|-------|
| 009000 | 133 25 | 25 | 180 | 0.400 |
| 009002 | 133 27 | 27 | 181 | 0.400 |
| 009003 | 133 30 | 30 | 188 | 0.500 |
| 009004 | 133 32 | 32 | 196 | 0.600 |
| 009035 | 133 34 | 34 | 196 | 0.600 |
| 009005 | 133 36 | 36 | 211 | 0.800 |
| 009006 | 133 41 | 41 | 227 | 1.000 |
| 009007 | 133 46 | 46 | 256 | 1.300 |

| Code    | No.    | mm | L   | kg    |
|---------|--------|----|-----|-------|
| 009008  | 133 50 | 50 | 281 | 1.700 |
| 6400850 | 133 55 | 55 | 310 | 2.700 |
| 6400930 | 133 60 | 60 | 321 | 2.700 |
| 6401070 | 133 65 | 65 | 351 | 3.400 |
| 6401150 | 133 70 | 70 | 370 | 4.600 |
| 6401230 | 133 75 | 75 | 390 | 5.900 |
| 6401310 | 133 80 | 80 | 406 | 7.000 |
| 6401580 | 133 85 | 85 | 406 | 6.800 |

| Code    | No.       | mm  | L   | kg     |
|---------|-----------|-----|-----|--------|
| 6401660 | 133 90    | 90  | 456 | 10.000 |
| 6401740 | 133 95*   | 95  | 456 | 9.500  |
| 6401820 | 133 100 * | 100 | 500 | 14.600 |
| 6401900 | 133 105 * | 105 | 500 | 13.500 |
| 6402040 | 133 110 * | 110 | 500 | 13.300 |
| 6402120 | 133 115 * | 115 | 525 | 16.800 |
| 6402200 | 133 120 * | 120 | 525 | 17.100 |

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## 29 I (MM)

Construction ratchets,  
metric



- Reversible ratchet with two different size heads
- Bi-hexagon and rat-tail handle

| Code    | No.        | Ø mm  | L   | kg    |
|---------|------------|-------|-----|-------|
| 1648934 | 29 I 17x19 | 17x19 | 315 | 0.500 |
| 1382853 | 29 I 19x22 | 19x22 | 315 | 0.700 |
| 1648926 | 29 I 19x24 | 19x24 | 365 | 0.700 |
| 031320  | 29 I 22x24 | 22x24 | 365 | 0.800 |

| Code    | No.        | Ø mm  | L   | kg    |
|---------|------------|-------|-----|-------|
| 031322  | 29 I 24x27 | 24x27 | 370 | 0.800 |
| 6262790 | 29 I 24x30 | 24x30 | 450 | 1.400 |
| 031325  | 29 I 27x30 | 27x30 | 450 | 1.400 |
| 031170  | 29 I 27x32 | 27x32 | 450 | 1.400 |

| Code   | No.        | Ø mm  | L   | kg    |
|--------|------------|-------|-----|-------|
| 031328 | 29 I 30x36 | 30x36 | 450 | 1.400 |
| 031330 | 29 I 32x36 | 32x36 | 450 | 1.600 |

## 40 (MM)

Hook spanners,  
metric



- Design according to DIN 1810 form A
- For slotted round nuts according to DIN 981

| Code    | No.      | Ø mm  | L   | kg    |
|---------|----------|-------|-----|-------|
| 6333990 | 40 16-20 | 16-20 | 110 | 0.020 |
| 6334020 | 40 25-28 | 25-28 | 135 | 0.040 |
| 6334100 | 40 30-32 | 30-32 | 135 | 0.045 |
| 6334290 | 40 34-36 | 34-36 | 170 | 0.075 |

| Code    | No.      | Ø mm  | L   | kg    |
|---------|----------|-------|-----|-------|
| 6334370 | 40 40-42 | 40-42 | 170 | 0.080 |
| 6334450 | 40 45-50 | 45-50 | 205 | 0.115 |
| 6334530 | 40 52-55 | 52-55 | 205 | 0.120 |
| 6334610 | 40 58-62 | 58-62 | 240 | 0.200 |

| Code    | No.        | Ø mm    | L   | kg    |
|---------|------------|---------|-----|-------|
| 6334880 | 40 68-75   | 68-75   | 240 | 0.210 |
| 6334960 | 40 80-90   | 80-90   | 280 | 0.290 |
| 6335180 | 40 95-100  | 95-100  | 280 | 0.300 |
| 6335260 | 40 110-115 | 110-115 | 335 | 0.480 |

## 40Z (MM)

Pin spanners,  
metric



- Design according to DIN 1810 form B
- For cross-drilled nuts according to DIN 1816

| Code    | No.        | Ø mm  | L   | kg    |
|---------|------------|-------|-----|-------|
| 6335850 | 40 Z 16-18 | 16-18 | 110 | 0.020 |
| 6335930 | 40 Z 20-22 | 20-22 | 110 | 0.025 |
| 6336580 | 40 Z 25-28 | 25-28 | 135 | 0.040 |
| 6336660 | 40 Z 30-32 | 30-32 | 135 | 0.045 |

| Code    | No.        | Ø mm  | L   | kg    |
|---------|------------|-------|-----|-------|
| 6336740 | 40 Z 34-36 | 34-36 | 170 | 0.075 |
| 6336820 | 40 Z 40-42 | 40-42 | 170 | 0.080 |
| 6336900 | 40 Z 45-50 | 45-50 | 205 | 0.115 |
| 6337040 | 40 Z 52-55 | 52-55 | 205 | 0.120 |

| Code    | No.         | Ø mm   | L   | kg    |
|---------|-------------|--------|-----|-------|
| 6337120 | 40 Z 58-62  | 58-62  | 240 | 0.200 |
| 6337200 | 40 Z 68-75  | 68-75  | 240 | 0.210 |
| 6337390 | 40 Z 80-90  | 80-90  | 280 | 0.290 |
| 6337470 | 40 Z 95-100 | 95-100 | 280 | 0.300 |

## 44

Caliper face spanners



- For loosening and clamping of cutting and grinding wheels
- Similar to DIN 3116
- Special sizes available on request

| Code    | No.  | Ø mm | L   | L " | kg    |
|---------|------|------|-----|-----|-------|
| 6354480 | 44 3 | 3    | 178 | 7"  | 0.135 |
| 6354560 | 44 4 | 4    | 178 | 7"  | 0.140 |

| Code    | No.  | Ø mm | L   | L " | kg    |
|---------|------|------|-----|-----|-------|
| 6354640 | 44 5 | 5    | 230 | 9"  | 0.275 |
| 6354720 | 44 6 | 6    | 230 | 9"  | 0.275 |

| Code    | No.  | Ø mm | L   | L " | kg    |
|---------|------|------|-----|-----|-------|
| 6354990 | 44 8 | 8    | 230 | 9"  | 0.285 |

# SOCKETS & ACCESSORIES

**Powerful, safe, durable: ratchets and sockets from GEDORE are made to meet the highest demands for long-term use. Whether in heavy industry or precision mechanics, GEDORE tools are at home wherever precision, safety and reliability are required.**

In industry and DIY, the hand-operated loosening and tightening of various thread connections is part of everyday life. With its comprehensive range of tools, GEDORE offers a wide range of ratchets and sockets for a huge variety of uses and applications. Over 100 years of manufacturing expertise are reflected in GEDORE's intelligently constructed and designed ratchets. Thanks to the careful selection of materials, advanced manufacturing processes and stringent quality management, all ratchets are extremely robust, durable and precise. Ergonomic designs and hand-flattering surfaces ensure that provide relief for the user, even during hard even in tough continuous use.

The broad portfolio of sockets includes solutions for every requirement - from classic sockets to intelligent solutions for power screwdriver sockets to specially developed intelligent profiles. A wide variety of combinations with extensions and articulated pieces enable the optimised use of tools without loss of torque, e.g. for very deep-seated screws or threaded connections.



## IT'S THE MECHANICS

- The pawl only engages 100% with the ratchet wheel when it is fully loaded.
- Ratchets work with perfect concentricity
- No unnecessary load on the components
- Mechanism does not jam - even under high loads
- A big plus in terms of efficiency and safety at work





DURABLE  
VERSATILE



#### HUGE RANGE IN FORM AND FUNCTION

- GEDORE actuating tools and accessories for professional use in every industry.
- For tough continuous use and safety in everyday working life
- Available individually or in practical sets

#### GEDORE SOCKETS

- Optimum power transmission and low wear
- Pronounced ball catching groove provides a secure grip on the square drive end
- Deep knurling ensures good grip even with oily hands or when working with protective gloves

#### GEDORE PREMIUM RATCHETS

- 2-component handle
- Slim and ergonomic design
- Robust and fine-tuned, durable and resilient
- High-grade industrial quality for the toughest continuous use
- Intelligently constructed and designed ratchets meet all demands



# U-10 RATCHETS

Design-oriented premium ratchets



1

The release head simplifies attachment and removal of sockets. A ball locking device ensures a tight connection when the ratchet is in use.

2

Slim, ergonomic design

3

Easy change lever for clockwise and anti-clockwise movement.

4

The shaft is made from high-grade chrome-vanadium steel, making it ideal for heavy and constant use.

5

2-component handle, comprising a hard plastic core with rubber sheathing for heavy industrial use. Hanging hole for easy-to-find storage.

## 2093 U-10

Reversible ratchet 1/4"



6,3 1/4"

- > Acc. to DIN 3122, ISO 3315
- > With recessed lever change, locks in middle position
- > Return angle 15°

- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 6.3, ISO 1174, ball locking device

| Code    | No.       | "    |     | °  | mm  | mm   | kg    |
|---------|-----------|------|-----|----|-----|------|-------|
| 6180470 | 2093 U-10 | 1/4" | 6,3 | 15 | 129 | 21,5 | 0.109 |

## 2093 U-3

Reversible ratchet 1/4"



6,3 1/4"

- > Acc. to DIN 3122, ISO 3315
- > With non-slip metal disc change, fine-toothed (72 teeth) and robust
- > Return angle 5°

- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 6.3, ISO 1174, ball locking device

| Code    | No.      | "    |     | ° | mm  | mm | kg    |
|---------|----------|------|-----|---|-----|----|-------|
| 6170590 | 2093 U-3 | 1/4" | 6,3 | 5 | 129 | 25 | 0.109 |

## 2093 Z-94

Ratchet handle with coupler 1/4"



6,3 1/4"

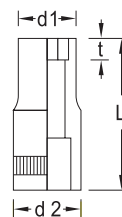
- > Acc. to DIN 3122, ISO 3315
- > With square coupler, medium-fine toothed, extremely rugged
- > Return angle 18°

- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 6.3, ISO 1174, ball locking device

| Code    | No.       | "    |     | °  | mm  | mm | kg    |
|---------|-----------|------|-----|----|-----|----|-------|
| 6170750 | 2093 Z-94 | 1/4" | 6,3 | 18 | 129 | 12 | 0.076 |

## 20 (MM)

Socket 1/4"  
hexagon



6,3 1/4"

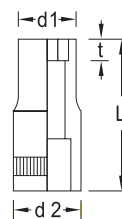
- > Acc. to DIN 3124, ISO 2725-1
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > Hand-operated

| Code    | No.      | mm  | L  | d1   | d2   | t   | kg    |
|---------|----------|-----|----|------|------|-----|-------|
| 6165400 | 20 4mm   | 4   | 25 | 6,9  | 12,0 | 2,0 | 0.012 |
| 6165590 | 20 4,5mm | 4,5 | 25 | 7,5  | 12,0 | 2,3 | 0.013 |
| 6165670 | 20 5mm   | 5   | 25 | 8,2  | 12,0 | 2,5 | 0.010 |
| 6165830 | 20 6mm   | 6   | 25 | 9,4  | 12,0 | 3,5 | 0.010 |
| 6165910 | 20 7mm   | 7   | 25 | 11,0 | 12,0 | 4,0 | 0.011 |
| 6166050 | 20 8mm   | 8   | 25 | 12,0 | 12,0 | 5,0 | 0.014 |

| Code    | No.     | mm | L  | d1   | d2   | t    | kg    |
|---------|---------|----|----|------|------|------|-------|
| 6166130 | 20 9mm  | 9  | 25 | 13,0 | 13,0 | 5,0  | 0.016 |
| 6166210 | 20 10mm | 10 | 25 | 14,7 | 14,7 | 6,0  | 0.018 |
| 6166480 | 20 11mm | 11 | 25 | 16,0 | 16,0 | 7,0  | 0.025 |
| 6166560 | 20 12mm | 12 | 25 | 17,0 | 17,0 | 8,0  | 0.029 |
| 6166640 | 20 13mm | 13 | 25 | 18,5 | 18,5 | 8,0  | 0.030 |
| 6166720 | 20 14mm | 14 | 25 | 19,7 | 19,7 | 10,0 | 0.180 |

## 20 (AF)

Socket 1/4"  
hexagon



6,3 1/4"

- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > Hand-operated

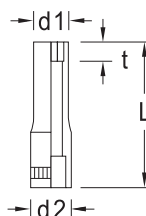
\* WHILE STOCKS LAST

| Code    | No.        | AF    | L  | d1   | d2   | t   | kg    |
|---------|------------|-------|----|------|------|-----|-------|
| 6167020 | 20 3/16AF* | 3/16" | 25 | 7,8  | 12,0 | 2,5 | 0.009 |
| 6167100 | 20 7/32AF* | 7/32" | 25 | 8,8  | 12,0 | 3,0 | 0.009 |
| 6167290 | 20 1/4AF*  | 1/4"  | 25 | 9,8  | 12,0 | 3,5 | 0.025 |
| 6167370 | 20 9/32AF* | 9/32" | 25 | 11,0 | 12,0 | 4,0 | 0.010 |
| 6167450 | 20 5/16AF* | 5/16" | 25 | 12,0 | 12,0 | 5,0 | 0.013 |

| Code    | No.         | AF     | L  | d1   | d2   | t    | kg    |
|---------|-------------|--------|----|------|------|------|-------|
| 6167530 | 20 11/32AF* | 11/32" | 25 | 13,0 | 13,0 | 5,0  | 0.015 |
| 6167610 | 20 3/8AF*   | 3/8"   | 25 | 14,0 | 6,0  | 6,0  | 0.018 |
| 6167880 | 20 7/16AF*  | 7/16"  | 25 | 16,0 | 16,0 | 7,0  | 0.023 |
| 6167960 | 20 1/2AF*   | 1/2"   | 25 | 18,0 | 18,0 | 8,0  | 0.029 |
| 6161840 | 20 9/16AF*  | 9/16"  | 25 | 20,0 | 20,0 | 10,0 | 0.036 |

## 20L (MM)

Socket 1/4"  
hexagon



6,3 1/4"

- > Acc. to DIN 3124, ISO 2725-1
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > Hand-operated

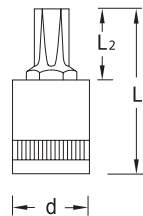
\* WHILE STOCKS LAST

| Code    | No. mm      | mm  | L  | d1   | d2   | t   | kg    |
|---------|-------------|-----|----|------|------|-----|-------|
| 6191400 | 20 L 4mm*   | 4   | 50 | 6,7  | 12,0 | 3,0 | 0.028 |
| 6191590 | 20 L 4,5mm* | 4,5 | 50 | 7,2  | 12,0 | 3,4 | 0.026 |
| 6191670 | 20 L 5mm*   | 5   | 50 | 7,8  | 12,0 | 3,7 | 0.030 |
| 6191830 | 20 L 6mm*   | 6   | 50 | 9,1  | 12,0 | 5,2 | 0.029 |
| 6191910 | 20 L 7mm*   | 7   | 50 | 10,5 | 12,0 | 6,0 | 0.025 |
| 6192050 | 20 L 8mm*   | 8   | 50 | 11,3 | 12,0 | 7,5 | 0.024 |

| Code    | No. mm     | mm | L  | d1   | d2   | t    | kg    |
|---------|------------|----|----|------|------|------|-------|
| 6192130 | 20 L 9mm*  | 9  | 50 | 12,0 | 13,2 | 7,5  | 0.032 |
| 6192210 | 20 L 10mm* | 10 | 50 | 12,7 | 14,7 | 9,0  | 0.039 |
| 6192480 | 20 L 11mm* | 11 | 50 | 14,0 | 16,0 | 10,5 | 0.050 |
| 6192560 | 20 L 12mm* | 12 | 50 | 15,0 | 17,0 | 12,0 | 0.055 |
| 6192640 | 20 L 13mm* | 13 | 50 | 16,0 | 18,0 | 12,0 | 0.055 |

## ITX20

Screwdriver bit socket 1/4" for recessed TX head screws



6.3 1/4"

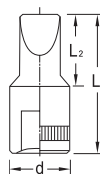
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > Hand-operated

| Code    | No.        |     |           | mm   | L1 | L2   | d  |       |
|---------|------------|-----|-----------|------|----|------|----|-------|
| 6190430 | ITX 20 T8  | T8  | M2,5      | 2,31 | 37 | 15,0 | 12 | 0.015 |
| 6190510 | ITX 20 T9  | T9  | M3        | 2,50 | 37 | 15,0 | 12 | 0.015 |
| 6190780 | ITX 20 T10 | T10 | M3 - M3,5 | 2,74 | 37 | 15,0 | 12 | 0.015 |
| 6190860 | ITX 20 T15 | T15 | M3,5 - M4 | 3,27 | 37 | 15,0 | 12 | 0.016 |
| 6190940 | ITX 20 T20 | T20 | M4 - M5   | 3,86 | 37 | 15,0 | 12 | 0.016 |

| Code    | No.        |     |           | mm   | L1 | L2   | d  |       |
|---------|------------|-----|-----------|------|----|------|----|-------|
| 6191080 | ITX 20 T25 | T25 | M4,5 - M5 | 4,43 | 37 | 15,0 | 12 | 0.016 |
| 6191160 | ITX 20 T27 | T27 | M4,5 - M6 | 4,99 | 37 | 15,0 | 12 | 0.016 |
| 6191240 | ITX 20 T30 | T30 | M6 - M7   | 5,52 | 37 | 15,0 | 12 | 0.016 |
| 6265890 | ITX 20 T40 | T40 | M7 - M8   | 6,65 | 37 | 15,0 | 12 | 0.017 |

## IS 20

Screwdriver bit socket 1/4" for slotted head screws



6.3 1/4"

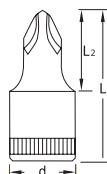
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > Hand-operated
- > Blade tip acc. to DIN ISO 2380-1 Form B

| Code    | No. mm    | mm  | mm  | L1 | L2   | d  |       |
|---------|-----------|-----|-----|----|------|----|-------|
| 6171560 | IS 20 4   | 4   | 0,8 | 28 | 16,0 | 12 | 0.011 |
| 6171640 | IS 20 5,5 | 5,5 | 1,0 | 28 | 16,0 | 12 | 0.012 |

| Code    | No. mm    | mm  | mm  | L1 | L2   | d  |       |
|---------|-----------|-----|-----|----|------|----|-------|
| 6174230 | IS 20 6,5 | 6,5 | 1,2 | 28 | 16,0 | 12 | 0.012 |
| 6174310 | IS 20 8   | 8   | 1,6 | 28 | 16,0 | 12 | 0.012 |

## IKS 20

Screwdriver bit socket 1/4" for cross-head screws PH



6.3 1/4"

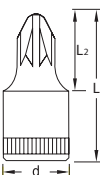
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > Hand-operated
- > Tip as per DIN ISO 8764-1 PH

| Code    | No.      | PH | L1 | L2   | d  |       |
|---------|----------|----|----|------|----|-------|
| 6174579 | IKS 20 0 | 0  | 28 | 16,0 | 12 | 0.011 |
| 6174580 | IKS 20 1 | 1  | 28 | 16,0 | 12 | 0.011 |

| Code    | No.      | PH | L1 | L2   | d  |       |
|---------|----------|----|----|------|----|-------|
| 6174660 | IKS 20 2 | 2  | 28 | 16,0 | 12 | 0.012 |
| 6174740 | IKS 20 3 | 3  | 28 | 16,0 | 12 | 0.012 |

## IKS 20 PZD

Screwdriver bit socket 1/4" for cross-head screws Pozzi PZ



6.3 1/4"

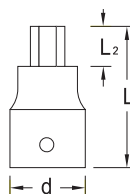
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > Hand-operated
- > Tip as per DIN ISO 8764-1 PZ

| Code    | No.          | PZ | L1 | L2   | d  |       |
|---------|--------------|----|----|------|----|-------|
| 6187130 | IKS 20 PZD 1 | 1  | 28 | 16,0 | 12 | 0.012 |
| 6187210 | IKS 20 PZD 2 | 2  | 28 | 16,0 | 12 | 0.013 |

| Code    | No.          | PZ | L1 | L2   | d  |       |
|---------|--------------|----|----|------|----|-------|
| 6187480 | IKS 20 PZD 3 | 3  | 28 | 16,0 | 12 | 0.014 |

## IN 20L

Screwdriver bit socket 1/4" for in-hex screws, long pattern



6.3 1/4"

- > Acc. to DIN 7422
- > Square drive as per DIN 3120 - C 6.3, ISO 1174, with ball retention groove
- > Hand-operated

| Code    | No.          | mm | L1 | L2   | d  |       |
|---------|--------------|----|----|------|----|-------|
| 1933256 | IN 20 L 3-60 | 3  | 60 | 32,0 | 12 | 0.024 |
| 1933264 | IN 20 L 4-60 | 4  | 60 | 32,0 | 12 | 0.025 |
| 1933272 | IN 20 L 5-60 | 5  | 60 | 32,0 | 12 | 0.027 |

| Code    | No.          | mm | L1 | L2   | d  |       |
|---------|--------------|----|----|------|----|-------|
| 1933280 | IN 20 L 6-60 | 6  | 60 | 32,0 | 12 | 0.029 |
| 1933298 | IN 20 L 7-70 | 7  | 60 | 32,0 | 12 | 0.035 |
| 1933299 | IN 20 L 8-60 | 8  | 60 | 32,0 | 12 | 0.050 |



## 20 E

Socket sets 1/4"



6.3 1/4"

- > For manually operated sockets and accessories with 1/4" square drive
- > Chrome Vanadium steel 31CrV3
- > Dimensions: 200x120x38mm

| Code    | No.       | Ratchet | Sockets   | Accessories                                                                                                                                                    |                        |
|---------|-----------|---------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 6172100 | No.20 EMZ | Z-94    | 2093 Z-94 | 20 4 4,5 5 6 7 8 9 10 11 13                                                                                                                                    | 2087<br>2090-4         |
| 6172250 | No.20 MDX | Z-94    | 2093 Z-94 | 20 4 5 6 7 8 9 10 11 12 13<br>IKS20 PZD1 PZD2 PZD3 IKS20 PH1 PH2 PH3 IN20L 3 4 5 6 7 8<br>IS20-4 IS20-5.5 IS20-6.5 IS20-7 ITX20 T8 T10 T15 T20 T25 T27 T30 T40 | 2090-4<br>2095<br>2098 |



0.71

1.197

20 MDX Foam Insert  
MDX Plastic Case

## 20 NZ

Socket sets 1/4"



6.3 1/4"

- > For manually operated sockets and accessories with 1/4" square drive
- > Chrome Vanadium steel 31CrV3
- > Dimensions: 200x120x38mm

| Code    | No.       | Ratchet | Sockets                                                                                                                                                                                                                         | Accessories                                   |                                                        |
|---------|-----------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------|
| 6172460 | No.20 NZA | Z-94    | 1/4" drive sockets 4 4,5 5 6 7 8 9 10 11 12 13 14<br>2093 Z-94 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2                                                                                                               | 2087<br>2090-2 / 4 Extensions<br>2095<br>2098 | 2088 Flexible Extension<br>Foam Insert<br>Plastic Case |
| 6172465 | No.20 NZI | Z-94    | 1/4" drive sockets 4 4,5 5 6 7 8 9 10 11 12 13 14<br>2093 Z-94 3/16 7/32 1/4 9/32 5/16 11/32 3/8 7/16 1/2<br>Torx T8 T10 T15 T20 T25 T27 T30 T40 Screwdriver bits IS20 4 5.5 6.5 7<br>Screwdriver sockets IKS20 PH0 PH1 PH2 PH3 | 2090-2 / 4 Extensions<br>2095<br>2098<br>2087 | 2088 Flexible Extension<br>Foam Insert<br>Plastic Case |



1.050

1.150

## 2030

Converter 1/4" to 3/8"



1/4" 6,3 mm 3/8" 10 mm

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

| Code    | No.  | 1/4" | 6,3 mm | 3/8" | 10 mm | 26 mm |      |
|---------|------|------|--------|------|-------|-------|------|
| 6170080 | 2030 | 1/4" | 6,3    | 3/8" | 10    | 26    | 0.02 |



## 2088

Flexible extension 1/4"

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



| Code    | No.  | 1/4" | 6,3 mm | 120 mm |       |
|---------|------|------|--------|--------|-------|
| 6170240 | 2088 | 1/4" | 6,3    | 120    | 0.046 |

## 2087

Sliding t-bar 1/4"

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



| Code    | No.  | 1/4" | 6,3 mm | 115 mm |       |
|---------|------|------|--------|--------|-------|
| 6170160 | 2087 | 1/4" | 6,3    | 115    | 0.039 |

## 2090

Extensions 1/4"



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

| Code    | No.    | "    | mm  | mm | kg    |
|---------|--------|------|-----|----|-------|
| 6170320 | 2090-2 | 1/4" | 6,3 | 55 | 0.025 |
| 6170400 | 2090-4 | 1/4" | 6,3 | 97 | 0.041 |

| Code    | No.     | "    | mm  | mm  | kg    |
|---------|---------|------|-----|-----|-------|
| 6171210 | 2090-6  | 1/4" | 6,3 | 148 | 0.061 |
| 6171211 | 2090-10 | 1/4" | 6,3 | 220 | 0.090 |

| Code    | No.     | "    | mm  | mm  | kg    |
|---------|---------|------|-----|-----|-------|
| 6173340 | 2090-12 | 1/4" | 6,3 | 305 | 0.124 |

## 2094

Coupler 1/4"



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

| Code    | No.  | "    | mm  | mm   | kg    |
|---------|------|------|-----|------|-------|
| 6170830 | 2094 | 1/4" | 6,3 | 19,8 | 0.006 |

## 2095

Universal joint 1/4"



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

| Code    | No.  | "    | mm  | "    | mm  | mm | kg    |
|---------|------|------|-----|------|-----|----|-------|
| 6170910 | 2095 | 1/4" | 6,3 | 1/4" | 6,3 | 38 | 0.026 |

## 2097

Swivel handle 1/4"



- For manually operated sockets and accessories with 1/4" square drive.
- Chrome Vanadium steel 31CrV3.
- In accordance with SANS 1113 and DIN 3122.

| Code    | No.  | "    | mm  | mm  | kg    |
|---------|------|------|-----|-----|-------|
| 6171050 | 2097 | 1/4" | 6,3 | 146 | 0.094 |

## 2098

Driving handle 1/4"



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

| Code    | No.  | "    | mm  | mm  | kg   |
|---------|------|------|-----|-----|------|
| 6171480 | 2098 | 1/4" | 6,3 | 140 | 0.07 |

## 3093 U-3

Reversible ratchet 3/8"



10 3/8"



- Acc. to DIN 3122, ISO 3315
- With non-slip metal disc change, fine-toothed (72 teeth) and robust
- Return angle 5°

- For hand-operated sockets and accessories with drive as per DIN 3120 - C 10, ISO 1174, ball locking device

| Code    | No.      | "    | mm | ° | mm  | mm   | kg    |
|---------|----------|------|----|---|-----|------|-------|
| 6237090 | 3093 U-3 | 3/8" | 10 | 5 | 200 | 33,5 | 0.244 |

## 3093 Z-94

Ratchet handle with coupler 3/8"



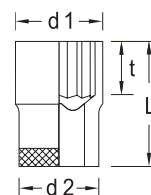
10 3/8"

- > Acc. to DIN 3122, ISO 3315
- > With square coupler, medium-fine toothed, extremely rugged
- > Return angle 10°

- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 10, ISO 1174, ball locking device

| Code    | No.       | "    | "  | °  | mm  | mm | kg    |
|---------|-----------|------|----|----|-----|----|-------|
| 6237680 | 3093 Z-94 | 3/8" | 10 | 10 | 200 | 18 | 0.223 |

## D30 (MM)

Sockets 3/8"  
Bi-hexagon UD profile


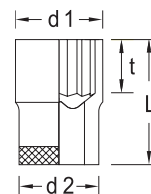
10 3/8"

- > Acc. to DIN 3124, ISO 2725-1
- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retention groove
- > Hand-operated

| Code    | No.       | "  | L  | d1   | d2   | t    | kg    |
|---------|-----------|----|----|------|------|------|-------|
| 6230160 | D 30 6mm  | 6  | 28 | 17,5 | 9,7  | 5,0  | 0.020 |
| 6230240 | D 30 7mm  | 7  | 28 | 17,5 | 11,0 | 5,0  | 0.024 |
| 6230320 | D 30 8mm  | 8  | 28 | 17,5 | 12,1 | 9,0  | 0.026 |
| 6230400 | D 30 9mm  | 9  | 28 | 17,5 | 13,5 |      | 0.027 |
| 6230590 | D 30 10mm | 10 | 28 | 17,5 | 14,7 | 9,0  | 0.028 |
| 6230670 | D 30 11mm | 11 | 28 | 17,5 | 16,0 | 9,0  | 0.030 |
| 6230750 | D 30 12mm | 12 | 28 | 18,3 | 17,2 | 9,0  | 0.032 |
| 6230830 | D 30 13mm | 13 | 28 | 17,5 | 18,5 | 9,0  | 0.031 |
| 6230910 | D 30 14mm | 14 | 29 | 18,4 | 19,7 | 11,0 | 0.037 |

| Code    | No.       | "  | L  | d1   | d2   | t    | kg    |
|---------|-----------|----|----|------|------|------|-------|
| 6231050 | D 30 15mm | 15 | 30 | 19,7 | 21,0 | 12,5 | 0.040 |
| 6231130 | D 30 16mm | 16 | 30 | 21,0 | 22,2 | 12,5 | 0.049 |
| 6231210 | D 30 17mm | 17 | 30 | 22,3 | 23,5 | 12,5 | 0.054 |
| 6231480 | D 30 18mm | 18 | 30 | 23,0 | 24,7 | 12,5 | 0.062 |
| 6231560 | D 30 19mm | 19 | 30 | 23,7 | 26,0 | 12,5 | 0.064 |
| 6231640 | D 30 20mm | 20 | 31 | 24,5 | 27,2 | 12,5 | 0.074 |
| 6231720 | D 30 21mm | 21 | 31 | 25,8 | 28,5 | 13,5 | 0.083 |
| 6231800 | D 30 22mm | 22 | 32 | 26,3 | 29,7 | 14,5 | 0.087 |

## D30 (AF)

Sockets 3/8"  
Bi-hexagon UD profile


10 3/8"

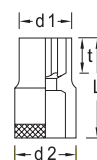
- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retention groove
- > Hand-operated

| Code    | No.          | "      | L  | d1   | d2   | t    | kg    |
|---------|--------------|--------|----|------|------|------|-------|
| 2016613 | D 30 1/4AF   | 1/4"   | 28 | 17,5 | 10,1 | 5,0  | 0.050 |
| 2101009 | D 30 9/32AF  | 9/32"  | 28 | 17,5 | 11,1 | 5,0  | 0.020 |
| 1997122 | D 30 5/16AF  | 5/16"  | 28 | 17,5 | 12,1 | 5,0  | 0.020 |
| 2101017 | D 30 11/32AF | 11/32" | 28 | 17,5 | 13,1 | 9,0  | 0.026 |
| 1997130 | D 30 3/8AF   | 3/8"   | 28 | 17,5 | 14,1 | 9,0  | 0.010 |
| 6232610 | D 30 7/16AF  | 7/16"  | 28 | 17,5 | 16,1 | 9,0  | 0.027 |
| 6232880 | D 30 1/2AF   | 1/2"   | 28 | 19,2 | 18,1 | 9,0  | 0.034 |
| 6232960 | D 30 9/16AF  | 9/16"  | 29 | 18,7 | 20,1 | 11,0 | 0.036 |

| Code    | No.          | "      | L  | d1   | d2   | t    | kg    |
|---------|--------------|--------|----|------|------|------|-------|
| 6233180 | D 30 19/32AF | 19/32" | 30 | 19,7 | 21,0 | 12,5 | 0.039 |
| 6233260 | D 30 5/8AF   | 5/8"   | 30 | 20,7 | 22,1 | 12,5 | 0.044 |
| 6233340 | D 30 11/16AF | 11/16" | 30 | 22,7 | 24,0 | 12,5 | 0.053 |
| 6233420 | D 30 3/4AF   | 3/4"   | 30 | 23,7 | 26,0 | 12,5 | 0.061 |
| 1997157 | D 30 25/32AF | 25/32" | 31 | 24,3 | 27,0 | 12,5 | 0.075 |
| 1997165 | D 30 13/16AF | 13/16" | 31 | 25,3 | 28,0 | 12,5 | 0.080 |
| 6232020 | D 30 7/8AF   | 7/8"   | 32 | 26,5 | 30,0 | 14,5 | 0.082 |

## TX 30

Sockets 3/8" for protruding TX head screws



10 3/8"

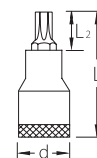
- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retention groove
- > Hand-operated

| Code    | No.      | mm | M  | mm   | L  | d1  | d2   | t   | kg    |
|---------|----------|----|----|------|----|-----|------|-----|-------|
| 6250270 | TX 30 E5 | E5 | M4 | 4,73 | 28 | 7,2 | 17,5 | 5,0 | 0.025 |
| 6250350 | TX 30 E6 | E6 | M5 | 5,74 | 28 | 8,5 | 17,5 | 5,0 | 0.025 |

| Code    | No.      | mm | M       | mm   | L  | d1   | d2   | t   | kg    |
|---------|----------|----|---------|------|----|------|------|-----|-------|
| 6250430 | TX 30 E7 | E7 | M6      | 6,16 | 28 | 9,5  | 17,5 | 5,5 | 0.025 |
| 6250510 | TX 30 E8 | E8 | M6 - M7 | 7,52 | 28 | 10,8 | 17,5 | 6,0 | 0.027 |

## ITX 30

Screwdriver bit sockets 3/8"



10 3/8"

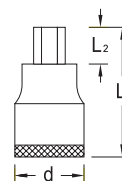
- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retention groove
- > Hand-operated

| Code    | No.        |     | M         | mm   | L1 | L2   | d    | kg    |
|---------|------------|-----|-----------|------|----|------|------|-------|
| 6246320 | ITX 30 T20 | T20 | M4 - M5   | 3,86 | 49 | 17,0 | 17,5 | 0.050 |
| 6246830 | ITX 30 T25 | T25 | M4,5 - M5 | 4,43 | 49 | 17,0 | 17,5 | 0.051 |
| 6247210 | ITX 30 T27 | T27 | M4,5 - M6 | 4,99 | 49 | 17,0 | 17,5 | 0.051 |

| Code    | No.        |     | M       | mm   | L1 | L2   | d    | kg    |
|---------|------------|-----|---------|------|----|------|------|-------|
| 6247560 | ITX 30 T30 | T30 | M6 - M7 | 5,52 | 49 | 17,0 | 17,5 | 0.051 |
| 6247720 | ITX 30 T40 | T40 | M7 - M8 | 6,65 | 49 | 17,0 | 17,5 | 0.052 |

## IN 30

Screwdriver bit sockets 3/8" for in-hex screws



10 3/8"

- > Acc. to DIN 7422
- > Square drive as per DIN 3120 - C 10, ISO 1174, with ball retention groove
- > Hand-operated

| Code    | No.       | mm | L1 | L2   | d    | kg    |
|---------|-----------|----|----|------|------|-------|
| 6241010 | IN 30 4mm | 4  | 47 | 19,0 | 17,5 | 0.038 |
| 6241280 | IN 30 5mm | 5  | 47 | 19,0 | 17,5 | 0.039 |
| 6241360 | IN 30 6mm | 6  | 47 | 19,0 | 17,5 | 0.041 |

| Code    | No.        | mm | L1 | L2   | d    | kg    |
|---------|------------|----|----|------|------|-------|
| 6241440 | IN 30 8mm  | 8  | 49 | 17,0 | 17,5 | 0.053 |
| 6242920 | IN 30 10mm | 10 | 49 | 17,0 | 19   | 0.073 |

## D30 FMZ

Socket set 3/8"



10 3/8"

- > Manually operated 3/8" sockets and accessories
- > Supplied in blue powder coated, D19 K steel box
- > Dimensions: 281x77x37mm

| Code   | No.     | Ratchet           | Sockets                                                      | Accessories | kg    |
|--------|---------|-------------------|--------------------------------------------------------------|-------------|-------|
| 623202 | D30 FMZ | Z-94<br>3093 Z-94 | D 30 6 7 8 9<br>10 11 12 13 14 15<br>16 17 18 19 20<br>21 22 | 3090-125    | 1.490 |

## D30 HMZ

Socket set 3/8"



10 3/8"

- > Manually operated 3/8" sockets and accessories.
- > Supplied in blue powder coated, D19 J steel box.
- > Dimensions: 290x186x52mm.

| Code   | No.     | Ratchet           | Sockets                                                      | Accessories                          | kg    |
|--------|---------|-------------------|--------------------------------------------------------------|--------------------------------------|-------|
| 623962 | D30 HMZ | Z-94<br>3093 Z-94 | D 30 6 7 8<br>9 10 11 12 13<br>14 15 16 17<br>18 19 20 21 22 | 3087<br>3090-250<br>3090-125<br>3095 | 2.750 |



## D30 NZZ

Socket set 3/8"



10 3/8"

- > Manually operated 3/8" sockets and accessories.
- > Supplied in blue powder coated, D19 Y steel box.
- > In high-density foam insert.

| Code   | No.     | Ratchet | Sockets                                                                                                                         | Accessories                                                  |       |
|--------|---------|---------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-------|
| 623968 | D30 NZZ | Z-94    | D 30 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22mm 1/4 9/32 5/16 11/32 3/8 7/16 1/2 9/16 19/32 5/8 11/16 3/4 25/32 13/16 7/8 | 3087<br>3090-250<br>3090-125<br>Plastic Insert<br>Metal Case | 3.025 |

## 3090

Extensions 3/8"

10 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



| Code    | No.     | "    | mm | mm  |       |
|---------|---------|------|----|-----|-------|
| 6236600 | 3090-3  | 3/8" | 10 | 75  | 0.093 |
| 6236790 | 3090-5  | 3/8" | 10 | 125 | 0.117 |
| 6236870 | 3090-10 | 3/8" | 10 | 250 | 0.222 |

## 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

| Code    | No.  | "    | mm | mm  |       |
|---------|------|------|----|-----|-------|
| 6238220 | 3096 | 3/8" | 10 | 254 | 0.201 |

## 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

| Code    | No.  | "    | mm | mm  |       |
|---------|------|------|----|-----|-------|
| 6236520 | 3087 | 3/8" | 10 | 163 | 0.164 |

## 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

| Code    | No.  | "    | mm | mm  |       |
|---------|------|------|----|-----|-------|
| 6236360 | 3081 | 3/8" | 10 | 180 | 0.153 |

## 3094

Coupler 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

## 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

| Code    | No.  | "    | mm | mm | kg   |
|---------|------|------|----|----|------|
| 6237760 | 3094 | 3/8" | 10 | 29 | 0.02 |

| Code    | No.  | "    | mm   | "    | mm | mm | kg    |
|---------|------|------|------|------|----|----|-------|
| 6238140 | 3095 | 3/8" | 10,0 | 3/8" | 10 | 50 | 0.053 |

## 3019

Converter 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



## 3020

Reducer 3/8" to 1/4"



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



| Code    | No.  | "    | mm   | "    | mm   | mm | kg    |
|---------|------|------|------|------|------|----|-------|
| 6236010 | 3019 | 3/8" | 10,0 | 1/2" | 12,5 | 35 | 0.053 |

| Code    | No.  | "    | mm   | "    | mm  | mm | kg    |
|---------|------|------|------|------|-----|----|-------|
| 6236280 | 3020 | 3/8" | 10,0 | 1/4" | 6,3 | 28 | 0.026 |

## 30 Spares

3/8"

- > For the 3096 power bar and 3093 U-3 ratchet.
- > For F and H socket sets. Blue powder coated steel case.
- > Black matt-finish insert.

| Code   | No.                 | kg    |
|--------|---------------------|-------|
| 545767 | 3096 Repair Kit     | 0.020 |
| 545759 | 3093 U-3 Repair Kit | 0.080 |
| 514632 | D 19 K Box          | 0.582 |
| 514640 | D 19 J Box          | 1.188 |
| 515175 | D 30 F Insert       | 0.075 |
| 515280 | D 30 H Insert       | 0.165 |

## 1993 U-10 T

Reversible ratchet 1/2"



- > Acc. to DIN 3122, ISO 3315
- > with push-button release
- > Return angle 7.5°

- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 12.5, ISO 1174, ball locking device

| Code   | No.         | "    | mm   | °   | mm  | mm | kg    |
|--------|-------------|------|------|-----|-----|----|-------|
| 614262 | 1993 U-10 T | 1/2" | 12,5 | 7,5 | 270 | 39 | 0.598 |

# 1993 ALU

Extra Light  
Aluminium Ratchet



## 1993 ALU-10

Aluminium Reversible ratchet 1/2"



1/2"

12,5

**NEW**

- > Forged and hardened from special aluminium
- > with push-button release
- > Return angle 7.5°

- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 12.5, ISO 1174, ball locking device



| Code    | No.         | "    |      | ° | mm  | mm | kg   |
|---------|-------------|------|------|---|-----|----|------|
| 6142700 | 1993 ALU-10 | 1/2" | 12,5 | 8 | 270 | 39 | 0,34 |

## 1993 Z-94

Ratchet handle with coupler 1/2"

1/2"

12,5

- > Acc. to DIN 3122, ISO 3315
- > With square coupler, medium-fine toothed, extremely rugged
- > Return angle 7.5°

- > For hand-operated sockets and accessories with square drive as per DIN 3120 - C 12.5, ISO 1174, ball locking device



| Code   | No.       | "    |      | °   | mm  | mm | kg    |
|--------|-----------|------|------|-----|-----|----|-------|
| 614459 | 1993 Z-94 | 1/2" | 12,5 | 7,5 | 270 | 45 | 0.476 |

## 1994 coupler 1/2"



1/2"

12,5

- > For manually operated sockets and accessories with 1/2" square drive.
- > Chrome Vanadium steel 31CrV3.
- > In accordance with SANS 1113 and DIN 3123.

| Code   | No.          | "    |      | mm | kg    |
|--------|--------------|------|------|----|-------|
| 614467 | 1994 Coupler | 1/2" | 12,5 | 46 | 0.056 |

## C19 (MM) / (AF)

Sockets 1/2"  
C profile



12.5 1/2"

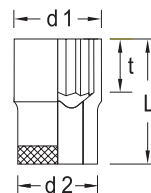
- > Manually operated sockets with thin walls and knurled base.
- > CHROME VANADIUM steel – 31CrV3.
- > Chrome plated and polished.
- > In accordance with SANS 1113 and DIN 3124.

| Code   | No.            |          | L  |       |
|--------|----------------|----------|----|-------|
| 612006 | C19 8-5/16mm   | 8-5/16   | 38 | 0.056 |
| 612014 | C19 9-11/32mm  | 9-11/32  | 38 | 0.054 |
| 612022 | C19 10-3/8mm   | 10-3/8   | 38 | 0.055 |
| 612030 | C19 11mm       | 11       | 38 | 0.057 |
| 612057 | C19 12mm       | 12       | 38 | 0.058 |
| 612065 | C19 13-1/2mm   | 13-1/2   | 38 | 0.057 |
| 612073 | C19 14mm       | 14       | 38 | 0.059 |
| 612081 | C19 15-19/32mm | 15-19/32 | 40 | 0.065 |
| 612103 | C19 16-5/8mm   | 16-5/8   | 40 | 0.065 |
| 612111 | C19 17mm       | 17       | 40 | 0.073 |
| 612138 | C19 18-11/16mm | 18-11/16 | 40 | 0.062 |
| 612146 | C19 19-3/4mm   | 19-3/4   | 40 | 0.078 |

| Code   | No.             |           | L    |       |
|--------|-----------------|-----------|------|-------|
| 612154 | C19 20-25/32mm  | 20-25/32  | 40   | 0.084 |
| 612162 | C19 21-13/16mm  | 21-13/16  | 41,5 | 0.096 |
| 612170 | C19 22mm        | 22        | 41,5 | 0.099 |
| 612189 | C19 23mm        | 23        | 41,5 | 0.121 |
| 612197 | C19 24-15/16mm  | 24-15/16  | 41,5 | 0.124 |
| 612200 | C19 25mm        | 25        | 41,5 | 0.135 |
| 612219 | C19 26-1. mm    | 26-1      | 41,5 | 0.135 |
| 612227 | C19 27-1.1/16mm | 27-1.1/16 | 41,5 | 0.145 |
| 612235 | C19 28mm        | 28        | 43,0 | 0.148 |
| 612243 | C19 29-1.1/8mm  | 29-1.1/8  | 43,0 | 0.159 |
| 612251 | C19 30-1.3/16mm | 30-1.3/16 | 43,0 | 0.175 |
| 612278 | C19 32-1.1/4 mm | 32-1.1/4  | 43,0 | 0.189 |

## D19 (MM)

Sockets 1/2"  
bi-hexagon UD profile



12.5 1/2"

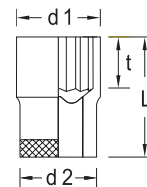
- > Acc. to DIN 3124, ISO 2725-1
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Hand-operated

| Code   | No. mm    |    | L    | d1   | d2   | t    |       |
|--------|-----------|----|------|------|------|------|-------|
| 613304 | D 19 8mm  | 8  | 38   | 22,5 | 13,0 | 7,0  | 0.051 |
| 613312 | D 19 9mm  | 9  | 38   | 22,5 | 14,2 | 8,0  | 0.052 |
| 613320 | D 19 10mm | 10 | 38   | 22,5 | 15,5 | 13,5 | 0.056 |
| 613339 | D 19 11mm | 11 | 38   | 22,5 | 16,7 | 12,5 | 0.057 |
| 613347 | D 19 12mm | 12 | 38   | 22,5 | 18,0 | 12,5 | 0.057 |
| 613355 | D 19 13mm | 13 | 38   | 22,5 | 19,2 | 12,5 | 0.059 |
| 613363 | D 19 14mm | 14 | 38   | 22,5 | 20,5 | 12,5 | 0.061 |
| 613371 | D 19 15mm | 15 | 39,5 | 23,8 | 21,7 | 15,0 | 0.072 |
| 613398 | D 19 16mm | 16 | 39,5 | 23,8 | 22,5 | 15,0 | 0.072 |
| 613401 | D 19 17mm | 17 | 39,5 | 22,5 | 24,0 | 15,0 | 0.070 |
| 613428 | D 19 18mm | 18 | 39,5 | 23,0 | 25,5 | 17,0 | 0.068 |
| 613436 | D 19 19mm | 19 | 40   | 24,2 | 26,7 | 17,0 | 0.081 |
| 613444 | D 19 20mm | 20 | 40   | 25,5 | 28,0 | 17,0 | 0.090 |

| Code   | No. mm    |    | L    | d1   | d2   | t    |       |
|--------|-----------|----|------|------|------|------|-------|
| 613452 | D 19 21mm | 21 | 41,5 | 26,0 | 29,2 | 18,5 | 0.101 |
| 613460 | D 19 22mm | 22 | 41,5 | 26,3 | 30,5 | 18,5 | 0.106 |
| 613479 | D 19 23mm | 23 | 41,5 | 27,5 | 31,7 | 18,5 | 0.118 |
| 613487 | D 19 24mm | 24 | 41,5 | 28,0 | 33,0 | 18,5 | 0.123 |
| 613495 | D 19 25mm | 25 | 41,5 | 28,8 | 34,2 | 18,5 | 0.131 |
| 613509 | D 19 26mm | 26 | 41,5 | 29,4 | 35,5 | 18,5 | 0.139 |
| 613517 | D 19 27mm | 27 | 41,5 | 30,0 | 36,7 | 18,5 | 0.143 |
| 613525 | D 19 28mm | 28 | 43   | 30,5 | 38,0 | 20,0 | 0.163 |
| 613533 | D 19 29mm | 29 | 43   | 31,2 | 39,2 | 20,0 | 0.168 |
| 613541 | D 19 30mm | 30 | 43   | 32,5 | 40,5 | 20,5 | 0.182 |
| 613576 | D 19 32mm | 32 | 44,5 | 34,5 | 43,0 | 22,5 | 0.204 |
| 613584 | D 19 33mm | 33 | 44,5 | 36,0 | 44,2 | 22,5 | 0.221 |
| 613568 | D 19 36mm | 36 | 44,5 | 38,0 | 48,0 | 22,5 | 0.287 |

## D19 (AF)

Sockets 1/2"  
bi-hexagon UD profile



12.5 1/2"

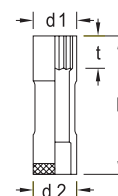
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Hand-operated

| Code   | No.          | 12.5   | L    | d1   | d2   | t    | kg    |
|--------|--------------|--------|------|------|------|------|-------|
| 613606 | D 19 5/16AF  | 5/16"  | 38   | 22,5 | 13,0 | 7,0  | 0.052 |
| 613614 | D 19 11/32AF | 11/32" | 38   | 22,5 | 13,9 | 8,0  | 0.054 |
| 613622 | D 19 3/8AF   | 3/8"   | 38   | 22,5 | 14,9 | 15,0 | 0.055 |
| 613630 | D 19 13/32AF | 13/32" | 38   | 22,5 | 15,9 | 13,5 | 0.055 |
| 613649 | D 19 7/16AF  | 7/16"  | 38   | 22,5 | 16,7 | 12,5 | 0.056 |
| 613657 | D 19 1/2AF   | 1/2"   | 38   | 22,5 | 18,7 | 12,5 | 0.058 |
| 613665 | D 19 9/16AF  | 9/16"  | 38   | 22,5 | 20,7 | 12,5 | 0.061 |
| 613673 | D 19 19/32AF | 19/32" | 39,5 | 23,8 | 21,7 | 15,0 | 0.070 |
| 613681 | D 19 5/8AF   | 5/8"   | 39,5 | 23,8 | 22,5 | 15,0 | 0.073 |
| 613703 | D 19 11/16AF | 11/16" | 39,5 | 22,5 | 24,7 | 17,0 | 0.066 |

| Code   | No.           | 12.5    | L    | d1   | d2   | t    | kg    |
|--------|---------------|---------|------|------|------|------|-------|
| 613711 | D 19 3/4AF    | 3/4"    | 40   | 24,2 | 26,7 | 17,0 | 0.084 |
| 613738 | D 19 25/32AF  | 25/32"  | 40   | 25,3 | 27,7 | 17,0 | 0.090 |
| 613746 | D 19 13/16AF  | 13/16"  | 41,5 | 25,7 | 28,5 | 41,5 | 0.097 |
| 613754 | D 19 7/8AF    | 7/8"    | 41,5 | 26,5 | 30,6 | 18,5 | 0.105 |
| 613762 | D 19 15/16AF  | 15/16"  | 41,5 | 28,3 | 32,6 | 18,5 | 0.126 |
| 613770 | D 19 1AF      | 1"      | 41,5 | 28,9 | 34,6 | 18,5 | 0.138 |
| 613789 | D 19 1.1/16AF | 1.1/16" | 41,5 | 30,0 | 36,7 | 41,5 | 0.147 |
| 613797 | D 19 1.1/8AF  | 1.1/8"  | 43   | 31,0 | 38,6 | 20,0 | 0.159 |
| 613800 | D 19 1.3/16AF | 1.3/16" | 43   | 32,5 | 40,6 | 20,5 | 0.183 |
| 613819 | D 19 1.1/4AF  | 1.1/4"  | 44,5 | 34,5 | 42,6 | 22,5 | 0.207 |

## D19L (MM)

Sockets 1/2"  
bi-hexagon UD profile, long pattern



12.5 1/2"

- > Acc. to DIN 3124, ISO 2725-1
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Hand-operated
- > Sizes 16, 18, 21 mm with hole drilled for tommy bar Ø 8 mm

| Code   | No. mm      | 12.5 | L  | d1   | d2   | t    | kg    |
|--------|-------------|------|----|------|------|------|-------|
| 015705 | D 19 L 10mm | 10   | 77 | 22,5 | 15,5 | 12,0 | 0.117 |
| 015706 | D 19 L 12mm | 12   | 77 | 22,5 | 18,0 | 14,0 | 0.127 |
| 015701 | D 19 L 13mm | 13   | 77 | 22,5 | 19,2 | 16,0 | 0.101 |
| 015702 | D 19 L 14mm | 14   | 77 | 22,5 | 20,5 | 16,5 | 0.109 |
| 015707 | D 19 L 15mm | 15   | 77 | 22,5 | 21,7 | 16,5 | 0.119 |
| 015712 | D 19 L 16mm | 16   | 77 | 24,0 | 23,0 | 16,5 | 0.128 |
| 015703 | D 19 L 17mm | 17   | 77 | 24,0 | 24,0 | 16,5 | 0.133 |
| 015708 | D 19 L 18mm | 18   | 82 | 25,0 | 25,5 | 20,0 | 0.147 |

| Code   | No. mm      | 12.5 | L  | d1   | d2   | t    | kg    |
|--------|-------------|------|----|------|------|------|-------|
| 015704 | D 19 L 19mm | 19   | 82 | 26,0 | 26,7 | 22,0 | 0.175 |
| 015709 | D 19 L 21mm | 21   | 82 | 28,5 | 29,2 | 24,0 | 0.211 |
| 015713 | D 19 L 22mm | 22   | 82 | 28,5 | 30,5 | 24,0 | 0.219 |
| 015710 | D 19 L 24mm | 24   | 82 | 29,0 | 33,0 | 26,0 | 0.257 |
| 015711 | D 19 L 27mm | 27   | 82 | 30,0 | 36,7 | 30,0 | 0.290 |
| 015714 | D 19 L 30mm | 30   | 82 | 32,5 | 40,5 | 33,0 | 0.351 |
| 015715 | D 19 L 32mm | 32   | 82 | 34,5 | 43,0 | 36,0 | 0.387 |



## 19L (MM) / (AF)

Sockets 1/2"  
hexagon, long pattern



12.5 1/2"

- > Manually operated sockets with thin walls and knurled base.
- > Chrome Vanadium steel 31CrV3.
- > 1/2" square drive.
- > Chrome plated and polished.

\*WHILE STOCKS LAST

## IN19 (MM)

Allen key sockets 1/2"  
for hexagon screws



12.5 1/2"

- > Acc. to DIN 7422
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Hand-operated
- > chrome-plated

| Code   | No.           |  | L  |  |
|--------|---------------|-----------------------------------------------------------------------------------|----|-----------------------------------------------------------------------------------|
| 614017 | 19 L 13mm     | 10                                                                                | 77 | 0.102                                                                             |
| 614025 | 19 L 14mm     | 12                                                                                | 77 | 0.109                                                                             |
| 614033 | 19 L 17mm     | 13                                                                                | 77 | 0.134                                                                             |
| 614041 | 19 L 19mm     | 14                                                                                | 82 | 0.171                                                                             |
| 614068 | 19 L 21mm     | 15                                                                                | 82 | 0.205                                                                             |
| 614076 | 19 L 24mm     | 16                                                                                | 82 | 0.250                                                                             |
| 614130 | 19L 1/2AF*    | 18                                                                                | 77 | 0.960                                                                             |
| 614149 | 19L 9/16AF*   | 19                                                                                | 77 | 0.110                                                                             |
| 614157 | 19L 5/8AF *   | 21                                                                                | 77 | 0.130                                                                             |
| 614165 | 19L 11/16AF * | 22                                                                                | 77 | 0.143                                                                             |
| 614173 | 19 L 24*      | 24                                                                                | 82 | 0.173                                                                             |
| 614173 | 19L 3/4AF*    | 27                                                                                | 82 | 0.173                                                                             |
| 614203 | 19L 7/8AF*    | 30                                                                                | 82 | 0.213                                                                             |
| 614211 | 19L 15/16AF*  | 32                                                                                | 82 | 0.233                                                                             |
| 614181 | 19L 13/16AF*  |                                                                                   | 82 | 0.210                                                                             |

| Code   | No.        |  mm | L  |  |
|--------|------------|----------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------|
| 615315 | IN 19 5mm  | 5                                                                                      | 60 | 0.069                                                                               |
| 615323 | IN 19 6mm  | 6                                                                                      | 60 | 0.070                                                                               |
| 615331 | IN 19 7mm  | 7                                                                                      | 60 | 0.075                                                                               |
| 615358 | IN 19 8mm  | 8                                                                                      | 60 | 0.082                                                                               |
| 615366 | IN 19 9mm  | 9                                                                                      | 60 | 0.091                                                                               |
| 615374 | IN 19 10mm | 10                                                                                     | 60 | 0.099                                                                               |
| 615382 | IN 19 12mm | 12                                                                                     | 60 | 0.113                                                                               |
| 615390 | IN 19 14mm | 14                                                                                     | 60 | 0.149                                                                               |
| 615404 | IN 19 17mm | 17                                                                                     | 60 | 0.210                                                                               |
| 615412 | IN 19 19mm | 19                                                                                     | 60 | 0.222                                                                               |

## IN19 (AF)

Allen key sockets 1/2"  
for hexagon screws



12.5 1/2"

- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Hand-operated

## INR 19L

Screwdriver bit sockets 1/2"  
for multi-spline screws  
RIBE®, long pattern



12.5 1/2"

- > RIBE® = reg. trademark of Richard Bergner GmbH & Co. KG, Schwabach

\*WHILE STOCKS LAST

| Code   | No.          | L  |  |
|--------|--------------|----|-------------------------------------------------------------------------------------|
| 615471 | IN 19 3/16AF | 60 | 0.069                                                                               |
| 615498 | IN 19 7/32AF | 60 | 0.069                                                                               |
| 615501 | IN 19 1/4AF  | 60 | 0.073                                                                               |
| 615528 | IN 19 9/32AF | 60 | 0.076                                                                               |
| 615536 | IN 19 5/16AF | 60 | 0.081                                                                               |
| 615544 | IN 19 3/8AF  | 60 | 0.098                                                                               |
| 615552 | IN 19 1/2AF  | 60 | 0.119                                                                               |
| 615560 | IN 19 9/16AF | 60 | 0.150                                                                               |
| 615579 | IN 19 5/8AF  | 60 | 0.205                                                                               |

| Code    | No.              |  | L   |  |
|---------|------------------|---------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------|
| 1449826 | INR 19 L 5-100*  | M5                                                                                    | 100 | 0.085                                                                                 |
| 1449850 | INR 19 L 6-100*  | M6                                                                                    | 100 | 0.085                                                                                 |
| 1449877 | INR 19 L 8-100*  | M8                                                                                    | 100 | 0.085                                                                                 |
| 1449591 | INR 19 L 10-100* | M10                                                                                   | 100 | 0.105                                                                                 |
| 1398636 | INR 19 L 12-188* | M12                                                                                   | 100 | 0.145                                                                                 |
| 1449893 | INR 19 L 14-188* | M14                                                                                   | 100 | 0.155                                                                                 |

## INX 19

Screwdriver bit sockets 1/2" for multi point screws



- > Design according to DIN 2324
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Hand-operated
- > Tip as per DIN 2325

## INX 19L

Screwdriver bit sockets 1/2" for multi point screws



- > Design according to DIN 2324
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Hand-operated
- > Tip as per DIN 2325

| Code   | No.       | mm  | L  | kg    |
|--------|-----------|-----|----|-------|
| 615889 | INX 19 5  | M5  | 55 | 0.075 |
| 615900 | INX 19 6  | M6  | 55 | 0.076 |
| 615927 | INX 19 8  | M8  | 55 | 0.077 |
| 615943 | INX 19 10 | M10 | 55 | 0.094 |
| 615978 | INX 19 12 | M12 | 55 | 0.110 |

| Code    | No.             | mm  | L   | kg    |
|---------|-----------------|-----|-----|-------|
| 615919  | INX 19 L 6-100  | M6  | 100 | 0.093 |
| 615935  | INX 19 L 8-100  | M8  | 100 | 0.097 |
| 615951  | INX 19 L 10-100 | M10 | 100 | 0.124 |
| 615986  | INX 19 L 12-100 | M12 | 100 | 0.149 |
| 1888951 | INX 19 L 14-100 | M14 | 100 | 0.190 |

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## IN 19L (MM) / (AF)

Allen key sockets 1/2" for hexagon screws, long pattern



- > Acc. to DIN 7422
- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Hand-operated

## IKS 19

Screwdriver bit sockets 1/2" for cross-head screws, PH



- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Hand-operated
- > Tip as per DIN ISO 8764-1 PH

| Code    | No.              | mm   | L   | kg    |
|---------|------------------|------|-----|-------|
| 6162060 | IN 19 L 5-90     | 5    | 90  | 0.091 |
| 615730  | IN 19 L 6-100    | 6    | 100 | 0.079 |
| 6157570 | IN 19 L 7-100    | 7    | 100 | 0.089 |
| 615773  | IN 19 L 8-100    | 8    | 100 | 0.097 |
| 615811  | IN 19 L 10-100   | 10   | 100 | 0.124 |
| 615846  | IN 19 L 12-100   | 12   | 100 | 0.151 |
| 615862  | IN 19 L 14-100   | 14   | 100 | 0.202 |
| 616265  | IN 19 L 1/4-100  | 1/4  | 100 | 0.081 |
| 616303  | IN 19 L 5/16-100 | 5/16 | 100 | 0.097 |
| 616346  | IN 19 L 3/8-100  | 3/8  | 100 | 0.119 |
| 616370  | IN 19 L 1/2-100  | 1/2  | 100 | 0.161 |
| 616397  | IN 19 L 9/16-100 | 9/16 | 100 | 0.207 |

| Code   | No.         | PH | PZ | L  | kg    |
|--------|-------------|----|----|----|-------|
| 665665 | IKS 19 PH 2 | 2  |    | 60 | 0.077 |
| 665673 | IKS 19 PH 3 | 3  |    | 60 | 0.092 |
| 665711 | IKS 19 PZ 2 |    | 2  | 60 | 0.077 |
| 665738 | IKS 19 PZ 3 |    | 3  | 60 | 0.108 |

## TX 19

Sockets 1/2" for protruding TX screws, female



12.5 1/2"

- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Hand-operated

| Code   | No.       | mm  | M   | mm    | L  | kg    |
|--------|-----------|-----|-----|-------|----|-------|
| 665908 | TX 19 E10 | E10 | M8  | 9,42  | 38 | 0.056 |
| 665916 | TX 19 E11 | E11 | -   | 10,08 | 38 | 0.055 |
| 665924 | TX 19 E12 | E12 | M10 | 11,17 | 38 | 0.059 |
| 665932 | TX 19 E14 | E14 | M12 | 12,9  | 38 | 0.059 |

| Code   | No.       | mm  | M         | mm    | L    | kg    |
|--------|-----------|-----|-----------|-------|------|-------|
| 665940 | TX 19 E16 | E16 | M12       | 14,76 | 38   | 0.062 |
| 665959 | TX 19 E18 | E18 | M14       | 16,7  | 40   | 0.078 |
| 665967 | TX 19 E20 | E20 | M16       | 18,45 | 40   | 0.085 |
| 665975 | TX 19 E24 | E24 | M18 - M20 | 22,16 | 41,5 | 0.116 |

## ITX 19

Sockets 1/2" for recessed TX screws, male



12.5 1/2"

- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Hand-operated

| Code   | No.        |     | M         | mm   | L  | kg    |
|--------|------------|-----|-----------|------|----|-------|
| 024710 | ITX 19 T20 | T20 | M4 - M5   | 3,86 | 55 | 0.076 |
| 024720 | ITX 19 T25 | T25 | M4,5 - M5 | 4,43 | 55 | 0.075 |
| 024730 | ITX 19 T27 | T27 | M4,5 - M6 | 4,99 | 55 | 0.076 |
| 024740 | ITX 19 T30 | T30 | M6 - M7   | 5,52 | 55 | 0.075 |
| 024750 | ITX 19 T40 | T40 | M7 - M8   | 6,65 | 55 | 0.076 |

| Code   | No.        |     | M        | mm    | L  | kg    |
|--------|------------|-----|----------|-------|----|-------|
| 024760 | ITX 19 T45 | T45 | M8 - M10 | 7,82  | 55 | 0.077 |
| 024770 | ITX 19 T50 | T50 | M10      | 8,83  | 55 | 0.092 |
| 024780 | ITX 19 T55 | T55 | M12      | 11,22 | 55 | 0.107 |
| 024790 | ITX 19 T60 | T60 | M14      | 13,25 | 55 | 0.137 |

## ITX 19L

Sockets 1/2" for recessed TX screws, long pattern



12.5 1/2"

- > Square drive as per DIN 3120 - C 12.5, ISO 1174, with ball retention groove
- > Hand-operated

| Code   | No.              |     | M         | mm   | L   | kg    |
|--------|------------------|-----|-----------|------|-----|-------|
| 024210 | ITX 19 L T20-100 | T20 | M4 - M5   | 3,86 | 100 | 0.095 |
| 024215 | ITX 19 L T25-100 | T25 | M4,5 - M5 | 4,43 | 100 | 0.095 |
| 024220 | ITX 19 L T27-100 | T27 | M4,5 - M5 | 4,99 | 100 | 0.096 |
| 024225 | ITX 19 L T30-100 | T30 | M6 - M7   | 5,52 | 100 | 0.096 |
| 024230 | ITX 19 L T40-100 | T40 | M7 - M8   | 6,65 | 100 | 0.096 |

| Code   | No.              |     | M        | mm    | L   | kg    |
|--------|------------------|-----|----------|-------|-----|-------|
| 024235 | ITX 19 L T45-100 | T45 | M8 - M10 | 7,82  | 100 | 0.098 |
| 024240 | ITX 19 L T50-100 | T50 | M10      | 8,83  | 100 | 0.124 |
| 024245 | ITX 19 L T55-100 | T55 | M12      | 11,22 | 100 | 0.151 |
| 024250 | ITX 19 L T60-100 | T60 | M14      | 13,25 | 100 | 0.197 |
| 024253 | ITX 19 L T70-100 | T70 | M16      | 15,55 | 100 | 0.277 |

## 19 SR

Socket set 1/2" 13 pieces



12.5 1/2"

- > Manually operated 1/2" sockets and accessories.
- > Blister packed.

| Code                                                      | No.     | Sockets                                             | kg    |
|-----------------------------------------------------------|---------|-----------------------------------------------------|-------|
| 611921                                                    | SR-C19Z | 10-3/8 11 12 13-1/2 14 15-19/32 16-5/8 17 19-3/4 22 | 1.390 |
| Accessories: Z-94 1993 Z-94 1990/75 Extension Socket Rail |         |                                                     |       |
| 616834                                                    | SR-D19Z | 10 12 13 14 15 16 17 19 22 24                       | 1.460 |
| Accessories: Z-94 1993 Z-94 1990/75 Extension Socket Rail |         |                                                     |       |

## 19 AK / MK

Socket sets 1/2"  
20 pieces

12.5 1/2"

- > Manually operated 1/2" sockets.
- > Supplied in blue powder coated, D19 K steel box.
- > Dimensions: 281x77x46mm.

\* WHILE STOCKS LAST



## 19 HMZ / KMZ

Socket sets 1/2"  
15 / 14 pieces

12.5 1/2"

- > Manually operated 1/2" sockets and accessories.
- > Supplied in blue powder coated, D19 K steel box.
- > Dimensions: 281x77x46mm.

\* WHILE STOCKS LAST



| Code   | No.     | Sockets                                                                                                                               |       |
|--------|---------|---------------------------------------------------------------------------------------------------------------------------------------|-------|
| 612936 | C19 MK  | C19 8-5/16 10-3/8 11 12 13-1/2 14 15-19/32 16-5/8 17 19-3/4 22 23 24-15/16 26-1. 27-1.1/16 28 30-1.3/16 32-1.1/4                      | 2.270 |
| 614122 | D19 MK  | D19 8 10 11 12 13 14 15 16 17 19 22 23 24 26 27 28 30 32                                                                              | 2.430 |
| 616419 | D19 AK* | D19 5/16AF 11/32AF 3/8AF 7/16AF 1/2AF 9/16AF 19/32AF 5/8AF 11/16AF 3/4AF 13/16AF 7/8AF 15/16AF 1.AF 1.1/16AF 1.1/8AF 1.3/16AF 1.1/4AF | 2.250 |

| Code        | No.      | Sockets                                                          |       |
|-------------|----------|------------------------------------------------------------------|-------|
| 612286      | C19 HMZ  | C19 8-5/16 10-3/8 11 12 13-1/2 14 15-19/32 16-5/8 17 19-3/4 22   | 1.940 |
| Accessories |          | ⊗ Z-94 1993 Z-94 1990/125 Extension                              |       |
| 614610      | D19 HMZ  | D19 8 10 11 12 13 14 15 16 17 19 22                              | 1.930 |
| Accessories |          | ⊗ Z-94 1993 Z-94 1990/125 Extension                              |       |
| 612316      | C19 KMZ* | C19 10-3/8 12 13-1/2 14 15-19/32 17 19-3/4 22 24-15/16 27-1.1/16 | 2.010 |
| Accessories |          | ⊗ Z-94 1993 Z-94 1990/125 Extension                              |       |
| 614653      | D19 KMZ  | D19 10 12 13 14 15 17 19 22 24 27                                | 2.050 |
| Accessories |          | ⊗ Z-94 1993 Z-94 1990/125 Extension                              |       |

## 19 1BMZ

Socket sets 1/2"  
23 pieces

12.5 1/2"

- > Manually operated 1/2" sockets and accessories.
- > Supplied in blue powder coated, D19 J steel box.
- > Dimensions: 290x186x52mm.



| Code   | No.      | 1B Spanners          | Ratchet          | Sockets                       | Accessories              |       |
|--------|----------|----------------------|------------------|-------------------------------|--------------------------|-------|
| 615595 | D19 1BMZ | 10 11 13 14 17 19 22 | ⊗ Z-94 1993 Z-94 | 10 11 12 13 14 15 16 17 19 22 | 1990-125 145-250 137-250 | 4.540 |

## 19 / 22 TMZ

Socket sets 1/2"  
29 pieces

12.5 1/2"

- > Manually operated 1/2" sockets and accessories.
- > Supplied in blue powder coated, D19 T steel box.
- > Dimensions: 435x170x50mm.



| Code   | No.        | Ratchet          | Sockets                                                                                                                                              | Accessories                 |       |
|--------|------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------|
| 611980 | C19/22 TMZ | ⊗ Z-94 1993 Z-94 | 8-5/16 9-11/32 10-3/8 11 12 13-1/2 14 15-19/32 16-5/8 17 18-11/16 19-3/4 20-25/32 21-13/16 22 24-15/16 26-1.27-1.1/16 28 29-1.1/8 30-1.3/16 32-1.1/4 | 1990-125 1990-250 1987 1995 | 5.200 |
| 616524 | D19/22 TMZ | ⊗ Z-94 1993 Z-94 | 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 24 26 27 28 29 30 32                                                                                      | 1990-125 1990-250 1987 1995 | 5.200 |

## 19 / 22 TMU-10T

Socket sets 1/2"  
29 pieces

12,5 1/2"

- > Manually operated 1/2" sockets and accessories.
- > Supplied in blue powder coated, D19 T steel box.
- > Dimensions: 435x170x50mm.



| Code          | No.           | Ratchet                    | Sockets                                        | Accessories     |       |
|---------------|---------------|----------------------------|------------------------------------------------|-----------------|-------|
| <b>611999</b> | C19/22TMU-10T | U-10<br><b>1993 U-10 T</b> | 8-5/16 9-11/32 10-                             | <b>1987</b>     | 5.400 |
|               |               |                            | 3/8 11 12 13-1/2 14                            | <b>1990-125</b> |       |
|               |               |                            | 15-19/32 16-5/8 17                             | <b>1990-250</b> |       |
|               |               |                            | 18-11/16 19-3/4 20-25/32                       | <b>1995</b>     |       |
|               |               |                            | 21-13/16 22 24-15/16                           |                 |       |
|               |               |                            | 26-1. 27-1.1/16 28 29-1.1/8 30-1.3/16 32-1.1/4 |                 |       |
| <b>616532</b> | D19/22TMU-10T | U-10<br><b>1993 U-10 T</b> | 8 9 10 11 12 13 14                             | <b>1987</b>     | 5.400 |
|               |               |                            | 15 16 17 18 19 20 21                           | <b>1990-125</b> |       |
|               |               |                            | 22 24 26 27 28 29                              | <b>1990-250</b> |       |
|               |               |                            | 30 32                                          | <b>1995</b>     |       |
|               |               |                            |                                                |                 |       |
|               |               |                            |                                                |                 |       |

## 19 TM97U-10T

Socket sets 1/2"  
22 pieces

12,5 1/2"

- > Manually operated 1/2" sockets and accessories.
- > Supplied in blue powder coated, D19 T steel box.
- > Dimensions: 435x170x50mm.



| Code          | No.           | Ratchet                    | Sockets                     | Accessories     |       |
|---------------|---------------|----------------------------|-----------------------------|-----------------|-------|
| <b>612413</b> | C19 TM97U-10T | U-10<br><b>1993 U-10 T</b> | 10-3/8 11 12 13-1/2 14      | <b>1990-125</b> | 4.540 |
|               |               |                            | 15-19/32 16-5/8 17 18-      | <b>1990-250</b> |       |
|               |               |                            | 11/16 19-3/4 21-13/16 22    | <b>1997-375</b> |       |
|               |               |                            | 24-15/16 30-1.3/16 32-1.1/4 | <b>50-20.8</b>  |       |
| <b>615455</b> | D19 TM97U-10T | U-10<br><b>1993 U-10 T</b> | 10 11 12 13 14 15 16        | <b>1990-125</b> | 4.740 |
|               |               |                            | 17 19 20 22 24 27           | <b>1990-250</b> |       |
|               |               |                            | 30 32                       | <b>1997-375</b> |       |
|               |               |                            |                             | <b>50-20.8</b>  |       |

## 19 TMU / TAU-10T

Socket sets 1/2"  
27 pieces

12,5 1/2"

- > Manually operated 1/2" sockets and accessories.
- > Supplied in blue powder coated, D19 T steel box.
- > Dimensions: 435x170x50mm.



| Code          | No.        | Ratchet                    | Sockets                                             | Accessories     |       |
|---------------|------------|----------------------------|-----------------------------------------------------|-----------------|-------|
| <b>612464</b> | C19TMU-10T | U-10<br><b>1993 U-10 T</b> | 8-5/16 10-3/8 11 12 13-1/2                          | <b>1987</b>     | 5.620 |
|               |            |                            | 14 15-19/32 16-5/8 17 18-                           | <b>1990-125</b> |       |
|               |            |                            | 11/16 19-3/4 21-13/16 22                            | <b>1990-250</b> |       |
|               |            |                            | 24-15/16 26-1.27-1.1/16 29-1.1/8 30-1.3/16 32-1.1/4 | <b>1995</b>     |       |
|               |            |                            |                                                     | <b>1985</b>     |       |
|               |            |                            |                                                     |                 |       |
| <b>615196</b> | D19TMU-10T | U-10<br><b>1993 U-10 T</b> | 8 10 11 12 13 14 15 16                              | <b>1987</b>     | 5.700 |
|               |            |                            | 17 19 21 22 23 24 26 27                             | <b>1990-125</b> |       |
|               |            |                            | 28 30 32                                            | <b>1990-250</b> |       |
|               |            |                            |                                                     | <b>1995</b>     |       |
|               |            |                            |                                                     | <b>1985</b>     |       |
|               |            |                            |                                                     |                 |       |
| <b>616206</b> | D19TAU-10T | U-10<br><b>1993 U-10 T</b> | 5/16AF 3/8AF 13/32AF 7/16AF                         | <b>1987</b>     | 5.650 |
|               |            |                            | 1/2AF 9/16AF 19/32AF 5/8AF                          | <b>1990-125</b> |       |
|               |            |                            | 11/16AF 3/4AF 25/32AF                               | <b>1990-250</b> |       |
|               |            |                            | 13/16AF 7/8AF 15/16AF 1. AF                         | <b>1995</b>     |       |
|               |            |                            | 1.1/16AF 1.1/8AF 1.3/16AF                           | <b>1985</b>     |       |
|               |            |                            | 1.1/4AF                                             |                 |       |

## 19 TMZ / TMAZ

Socket sets 1/2"  
27 pieces

12,5 1/2"

- > Manually operated 1/2" sockets and accessories.
- > Supplied in blue powder coated, D19 T steel box.
- > Dimensions: 435x170x50mm.



| Code          | No.      | Ratchet                  | Sockets                                                                                            | Accessories     |       |
|---------------|----------|--------------------------|----------------------------------------------------------------------------------------------------|-----------------|-------|
| <b>612456</b> | C19TMZ   | Z-94<br><b>1993 Z-94</b> | 8-5/16 10-3/8 11 12 13-1/2 14                                                                      | <b>1987</b>     | 5.480 |
|               |          |                          | 15-19/32 16-5/8 17 18-11/16 19-3/4 21-13/16 22 24-15/16 26-1.27-1.1/16 29-1.1/8 30-1.3/16 32-1.1/4 | <b>1990-125</b> |       |
|               |          |                          |                                                                                                    | <b>1990-250</b> |       |
|               |          |                          |                                                                                                    | <b>1995</b>     |       |
| <b>614831</b> | D19 TMZ  | Z-94<br><b>1993 Z-94</b> | 8 10 11 12 13 14 15 16 17 19                                                                       | <b>1987</b>     | 5.560 |
|               |          |                          | 21 22 23 24 26 27 28 30 32                                                                         | <b>1990-125</b> |       |
|               |          |                          |                                                                                                    | <b>1990-250</b> |       |
|               |          |                          |                                                                                                    | <b>1995</b>     |       |
| <b>614572</b> | D19TMA-Z | Z-94<br><b>1993 Z-94</b> | 10 13 14 15 16 17 19 22 24                                                                         | <b>1987</b>     | 5.420 |
|               |          |                          | 27 30 32 3/8 7/16 1/2 9/16 11/16 13/16 1.                                                          | <b>1990-125</b> |       |
|               |          |                          |                                                                                                    | <b>1990-250</b> |       |
|               |          |                          |                                                                                                    | <b>1995</b>     |       |
|               |          |                          |                                                                                                    | <b>1985</b>     |       |
|               |          |                          |                                                                                                    |                 |       |
|               |          |                          |                                                                                                    |                 |       |
|               |          |                          |                                                                                                    |                 |       |



## C19 YMAU-10T

Socket set 1/2"  
32 pieces

12.5 1/2"

- > Manually operated 1/2" sockets and accessories.
- > Supplied in blue powder coated, D19 T steel box.
- > Dimensions: 526x190x52mm.



## D19 YMAU-10T

Socket set 1/2"  
43 pieces

12.5 1/2"

- > Manually operated 1/2" sockets and accessories.
- > Supplied in blue powder coated, D19 Y steel box.
- > Dimensions: 526x190x52mm.



| Code   | No.          | Ratchet                | Sockets                                                                                                                                                                        | Accessories                                                       |       |
|--------|--------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-------|
| 612367 | C19 YMAU-10T | U-10<br>1993<br>U-10 T | 8-5/16 9-11/32 10-3/8<br>11 12 13-1/2 14 15-<br>19/32 16-5/8 17 18<br>19-3/4 21-13/16 22<br>24-15/16 26-1. 27-1.1/16<br>29-1.1/8 30-1.3/16 32-<br>1.1/4 7/16AF 9/16AF<br>7/8AF | 1990-125<br>1990-250<br>1997-375<br>50-20.8<br>1987<br>1995 Joint | 7.230 |

| Code   | No.          | Ratchet                | Sockets                                                                                                                                                                                   | Accessories                                                 |       |
|--------|--------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-------|
| 616222 | D19 YMAU-10T | U-10<br>1993<br>U-10 T | 8 9 10 11 12 13 14<br>15 16 17 18 19 20 21<br>22 23 24 27 5/16AF<br>11/32AF 3/8AF 13/32AF<br>7/16AF 1/2AF 9/16AF<br>19/32AF 5/8AF 11/16AF<br>3/4AF 25/32AF 13/16AF<br>7/8AF 15/16AF 1. AF | 1990-125<br>1990-250<br>1987-375<br>1995<br>50-20.8<br>1985 | 7.390 |

## D19 NZU-Z94

Socket sets 1/2"

12.5 1/2"

- > Manually operated 1/2" sockets and accessories.
- > Supplied in blue powder coated steel box.
- > In high-density foam insert.
- > Dimensions: 526x190x52mm.



## 19 62MU-10T

Socket sets 1/2"

12.5 1/2"

- > Manually operated 1/2" sockets and accessories.
- > Supplied in blue powder coated, D19 Y steel box.
- > Dimensions: 526x190x52mm.

\* WHILE STOCKS LAST

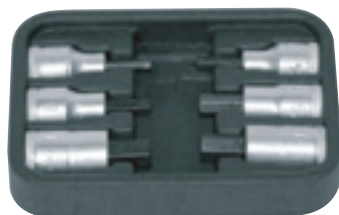


| Code   | No.            | Ratchet           | Sockets                                                                                                                                                   | Accessories                                       |       |
|--------|----------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------|
| 615298 | D19<br>NZU-Z94 | Z-94<br>1993 Z-94 | D19 10 11 12 13 14 15<br>16 17 18 19 21 22 23 24<br>26 27 30 32mm<br>3/8 7/16 1/2 9/16 5/8<br>11/16 3/4 13/16 7/8<br>15/16 1 1.1/16 1.1/8 1.3/16<br>1.1/4 | 1987<br>1990-125<br>1990-250<br>1995<br>50/20.8mm | 7.400 |

| Code   | No.                  | Ratchet                | 1B Spanners                                                                                                      | Sockets                                                                                            | Accessories                          |       |
|--------|----------------------|------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------|-------|
| 612391 | C19<br>62MU-<br>10T* | U-10<br>1993<br>U-10 T | No.2 6x7 8x9 10x11<br>12x13 14x15 16x17<br>18x19 20x22<br>No.6 6x7 8x9 10x11<br>12x13 14x15 16x17<br>18x19 20x22 | 10-3/8 11<br>12 13-1/2 14<br>15-19/32 16-<br>5/8 17 18-<br>11/16 19-3/4<br>20-25/32<br>21-13/16 22 | 1990-125<br>1990-250<br>1987<br>1995 | 6.760 |
| 616001 | D19<br>62MU-<br>10T* | U-10<br>1993<br>U-10 T | No.2 6x7 8x9 10x11<br>12x13 14x15 16x17<br>18x19 20x22<br>No.6 6x7 8x9 10x11<br>12x13 14x15 16x17<br>18x19 20x22 | 10 11 12 13<br>14 15 16<br>17 18 19 20<br>21 22                                                    | 1990-125<br>1990-250<br>1987<br>1995 | 7.120 |

## IN19 PM6 / PA6

Socket set 1/2"



12.5 1/2"

- > Manually operated 1/2" sockets.
- > Supplied in black matt-finish insert.
- > Also available in a blister pack.

## IN19 PM9 / PA9

Socket set 1/2"



12.5 1/2"

- > Manually operated 1/2" sockets.
- > Supplied in blue powder coated Ref D30 K steel box.
- > Dimensions: 281x77x37mm.
- > Also available in a blister pack.

| Code   | No.  | Sockets                                     | kg    |
|--------|------|---------------------------------------------|-------|
| 617474 | PM-6 | IN19 5 6 8 10 12 14                         | 1.260 |
| 617849 | PA-6 | IN19 3/16AF 1/4AF 5/16AF 3/8AF 1/2AF 9/16AF | 1.100 |

| Code   | No.  | Sockets                                                         | kg    |
|--------|------|-----------------------------------------------------------------|-------|
| 615625 | PM-9 | IN19 5 6 7 8 9 10 12 14 17                                      | 1.500 |
| 615641 | PA-9 | IN19 3/16AF 7/32AF 1/4AF 9/32AF 5/16AF 3/8AF 1/2AF 9/16AF 5/8AF | 1.470 |

## IN19 PM5D / PA5D

Socket set 1/2"



12.5 1/2"

- > Manually operated 1/2" sockets.
- > Supplied in black matt-finish insert.

## IN19 PM10 / PA10

Socket set 1/2"



12.5 1/2"

- > Manually operated 1/2" allen key sockets.
- > Supplied in black matt-finish insert.

| Code   | No.   | Sockets                                                     | kg    |
|--------|-------|-------------------------------------------------------------|-------|
| 617423 | PM 5D | IN19 6 8 10 12 14<br>IN19L 6-100 8-100 10-100 12-100 14-100 | 1.250 |

| Code   | No.   | Sockets                                                                    | kg    |
|--------|-------|----------------------------------------------------------------------------|-------|
| 617415 | PM-10 | IN19 5 6 7 8 9 10 12 14 17 19                                              | 1.260 |
| 617431 | PA-10 | IN19 3/16AF 7/32AF 1/4AF 5/16AF 3/8AF 1/2AF 9/16AF 5/8AF 9/32AF<br>IKS19 2 | 1.100 |

## INX19

Socket set 1/2"



12.5 1/2"

- > Manually operated 1/2" spline sockets.
- > Supplied in black matt-finish insert.

## ITX / TX19 FT

Socket set 1/2"  
TX



12.5 1/2"

- > Manually operated 1/2" sockets.
- > Supplied in blue powder coated, D19 J steel box.
- > Dimensions: 290x186x52mm.

| Code   | No.   | Sockets                                                          | kg    |
|--------|-------|------------------------------------------------------------------|-------|
| 617989 | PM-5D | INX19 5 6 8 10 12<br>INX19L 6-100 8-100 10-100 12-100<br>IKS19 2 | 1.320 |
| 617601 | 6     | INX19-6 5 6 8 10 12<br>IKS19 2                                   | 0.510 |

| Code   | No. | Sockets                                                                   | kg    |
|--------|-----|---------------------------------------------------------------------------|-------|
| 660099 | FMT | ITX19 T20 T25 T27 T30 T40 T45 T50<br>TX19 E10 E11 E12 E14 E16 E18 E20 E24 | 1.100 |

## TX 19

Socket set 1/2"  
TX



12.5 1/2"

- > Manually operated 1/2" sockets.
- > Supplied in blue powder coated, D30 K steel box.
- > Dimensions: 281x77x37mm.
- > Also available in a blister pack.

\*WHILE STOCKS LAST

## ITX19

Socket set 1/2"  
TX



12.5 1/2"

- > Manually operated 1/2" sockets.
- > Supplied in blue powder coated Ref D30 K steel box.
- > Dimensions: 281x77x37mm.
- > Also available in a blister pack.

\*WHILE STOCKS LAST

| Code   | No.    | Sockets                                                                             | kg    |
|--------|--------|-------------------------------------------------------------------------------------|-------|
| 665991 | FT     | <b>TX19</b> E10 E11 E12 E14 E16 E18 E20 E24                                         | 0.510 |
| 665994 | SR-FT* | <b>TX19</b> E10 E11 E12 E14 E16 E18 E20 E24<br>(Including Holding Rail and Adaptor) | 0.620 |

| Code   | No.    | Sockets                                                                          | kg    |
|--------|--------|----------------------------------------------------------------------------------|-------|
| 665983 | MT     | <b>ITX19</b> T20 T25 T27 T30 T40 T45 T50                                         | 1.000 |
| 665986 | SR-MT* | <b>ITX19</b> T20 T25 T27 T30 T40 T45 T50<br>(Including Holding Rail and Adaptor) | 0.540 |

## 19 Spares

Repair kits, boxes, inserts 1/2"

- > For the 1993Z ratchet and 1996/7 power bar.
- > Blue powder coated steel case.
- > Black matt-finish insert.

| Code   | No.               | Code   | No.                |
|--------|-------------------|--------|--------------------|
| 545694 | 1993 Z Repair Kit | 515515 | D 19/22 T Insert   |
| 545708 | 1996/7 Repair Kit | 544221 | D 19 Y Insert      |
| 514640 | D 19 J Box        | 515337 | D 19 YM1B Insert   |
| 514632 | D 19 K Box        | 544205 | D 19 1B Insert     |
| 514667 | D 19 T Box        | 515353 | D 19 62MU Insert   |
| 514675 | D 19 Y Box        | 515426 | IN19 - 5D Insert   |
| 515450 | C 19 Y Insert     | 515418 | IN19 - 6 Insert    |
| 515965 | D 19 GM Insert    | 544248 | IN19 - 9 Insert    |
| 515485 | D 19 H Insert     | 515396 | IN19PM - 10 Insert |
| 515975 | D 19 IM Insert    | 515876 | ITX19 MT Insert    |
| 544191 | D 19 J Insert     | 515868 | TX19 FT Insert     |
| 515507 | D 19 K Insert     | 515841 | ITX/TX19 FM Insert |
| 544213 | D 19 T Insert     | 515981 | K19 Insert         |
| 515310 | D 19 T 97 Insert  |        |                    |

## 1996 - 1997

Swivel handles 1/2"



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

| Code   | No.      | 1/2" | mm   | L   | kg    |
|--------|----------|------|------|-----|-------|
| 614483 | 1996     | 1/2" | 12,5 | 255 | 0.414 |
| 614491 | 1997-375 | 1/2" | 12,5 | 381 | 0.576 |
| 614556 | 1997-450 | 1/2" | 12,5 | 450 | 0.677 |

## 1987

Sliding t-bar 1/2"

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



| Code   | No.  | 1/2" | mm   | L   | kg    |
|--------|------|------|------|-----|-------|
| 614343 | 1987 | 1/2" | 12,5 | 292 | 0.386 |

## 1990

Extension bars 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

| Code   | No.      | 1/2" | mm   | L   | kg    |
|--------|----------|------|------|-----|-------|
| 614378 | 1990-75  | 1/2" | 12,5 | 75  | 0.137 |
| 614386 | 1990-125 | 1/2" | 12,5 | 125 | 0.188 |
| 614289 | 1990-175 | 1/2" | 12,5 | 180 | 0.264 |
| 614394 | 1990-250 | 1/2" | 12,5 | 250 | 0.361 |

## 1990 KR

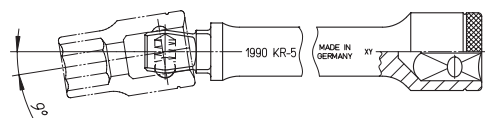
Universal extension 1/2"



**NEW**

- > With ball end
- > 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 18°
- > Load capacity max. 230 N-m

| Code    | No.        | "    | mm   | mm  | kg    |
|---------|------------|------|------|-----|-------|
| 3128180 | 1990 KR-2  | 1/2" | 12,5 | 50  | 0,08  |
| 6173180 | 1990 KR-5  | 1/2" | 12,5 | 125 | 0,18  |
| 6225590 | 1990 KR-7  | 1/2" | 12,5 | 180 | 0,255 |
| 6366570 | 1990 KR-10 | 1/2" | 12,5 | 250 | 0,345 |



## 1990 M

Extension 1/2" with magnet



- > For hand-operated sockets with through hole and square drive according to DIN 3120, ISO 1174, with ball locking device
- > One-hand operation - the screw or nut can be screwed in immediately with the socket wrench insert
- > A strong permanent magnet keeps hold of even large screws

\* WHILE STOCKS LAST

| Code    | No.     | "    | mm   | L    | kg   |
|---------|---------|------|------|------|------|
| 2697920 | 1990 M* | 1/2" | 12,5 | 81,5 | 0.11 |

## 1994

Coupler 1/2"



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



| Code    | No.          | "    | mm   | L  | kg    |
|---------|--------------|------|------|----|-------|
| 6144670 | 1994 Coupler | 1/2" | 12,5 | 38 | 0.045 |
| 614467  | 1994 PZK*    | 1/2" | 12,5 | 46 | 0.560 |

## 1995

Universal joint 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

| Code   | No.  | "    | mm   | "    | mm   | L  | kg    |
|--------|------|------|------|------|------|----|-------|
| 614475 | 1995 | 1/2" | 12,5 | 1/2" | 12,5 | 72 | 0.159 |

## 1930

Reducer 1/2" to 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



| Code    | No.  | "    | mm   | "    | mm | L    | kg    |
|---------|------|------|------|------|----|------|-------|
| 6143000 | 1930 | 1/2" | 12,5 | 3/8" | 10 | 38,5 | 0.062 |

## 1932

Converter 1/2" to 3/4"



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



| Code   | No.  | "    | mm   | "    | mm | L  | kg    |
|--------|------|------|------|------|----|----|-------|
| 614319 | 1932 | 1/2" | 12,5 | 3/4" | 20 | 44 | 0.128 |

## 1985

Speed brace handle 1/2"



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

| Code   | No.  | "    | mm   | L   | kg    |
|--------|------|------|------|-----|-------|
| 614335 | 1985 | 1/2" | 12,5 | 395 | 0.619 |

## 3293 U-1

Reversible ratchets with lever control 3/4"

3/4" 20

- > Acc. to DIN 3122, ISO 3315
- > With recessed lever change, locks in middle position
- > Return angle 11.25°

- > For hand-operated sockets and accessories with square drive as per DIN 3120 - D 20, ISO 1174 with locking pin



| Code   | No.          | 3/4" | 20 | 11,25° | L   | 2.630 |
|--------|--------------|------|----|--------|-----|-------|
| 627798 | 3293 U-1     | 3/4" | 20 | 11,25  | 500 | 2.630 |
| 627984 | 3293 U-1/440 | 3/4" | 20 | 11,25  | 440 | 2.630 |

## 3293 U-2

Reversible ratchet 3/4"

3/4" 20

- > Acc. to DIN 3122, ISO 3315
- > With disc change, fine-toothed and robust
- > Return angle 7.2°

- > For hand-operated sockets and accessories with square drive as per DIN 3120 - D 20, ISO 1174 with locking pin



| Code   | No.      | 3/4" | 20 | 7,2° | L   | mm <sup>2</sup> | 1.435 |
|--------|----------|------|----|------|-----|-----------------|-------|
| 627860 | 3293 U-2 | 3/4" | 20 | 7,2  | 510 | 60              | 1.435 |

## 3293 Z-94

Ratchet handle with coupler 3/4"

3/4" 20

- > Acc. to DIN 3122, ISO 3315
- > With square coupler, medium-fine toothed, extremely rugged
- > Return angle 10°

- > For hand-operated sockets and accessories with square drive as per DIN 3120 - D 20, ISO 1174 with locking pin



| Code   | No.       | 3/4" | 20 | 10° | L   | mm <sup>2</sup> | 1.301 |
|--------|-----------|------|----|-----|-----|-----------------|-------|
| 627895 | 3293 Z-94 | 3/4" | 20 | 10  | 510 | 31              | 1.301 |

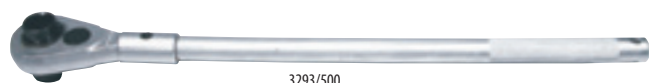
## 3293 / 500-DJ / DJ 24x30

Double johnny ratchets 3/4"

3/4" 20

- > For manually operated sockets and accessories with 3/4" square drive.
- > Chrome Vanadium steel 31CrV3.
- > In accordance with SANS 1113 and DIN 3122.
- > 500 DJ with double 3/4" drive coupler and

- 500mm detachable handle.
- > 500 DJ24x30 with 24mm and 30mm fixed sockets and 500mm detachable handle.



3293/500



3293/500-24x30

| Code   | No.              | 3/4" | 20 | 15° | L   | 3.080 |
|--------|------------------|------|----|-----|-----|-------|
| 627127 | 3293 / 500       | 3/4" | 20 | 15  | 625 | 3.080 |
| 627194 | 3293 / 500 24x30 | 3/4" | 20 | 15  | 650 | 2.940 |



## C32 (MM) / (AF)

Sockets 3/4"  
c-profile



20 3/4"

- > Manually operated sockets with thin walls and knurled base.
- > Chrome Vanadium steel 31CrV3.
- > Chrome plated.
- > In accordance with SANS 1113 and DIN 3124.

| Code   | mm              | L    |       |
|--------|-----------------|------|-------|
| 626007 | C32 19mm-3/4    | 51.5 | 0.208 |
| 626015 | C32 22mm-7/8    | 51.5 | 0.211 |
| 626023 | C32 24mm-15/16  | 51.5 | 0.221 |
| 626058 | C32 26 mm-1.    | 51.5 | 0.220 |
| 626066 | C32 27mm-1.1/16 | 54.5 | 0.243 |

|        |                 |      |       |
|--------|-----------------|------|-------|
| 626074 | C32 29mm-1.1/8  | 54.5 | 0.261 |
| 626082 | C32 30mm-1.3/16 | 57.5 | 0.303 |
| 626090 | C32 32mm-1.1/4  | 57.5 | 0.343 |
| 626104 | C32 33mm-1.5/16 | 57.5 | 0.350 |
| 626112 | C32 34mm        | 57.5 | 0.380 |
| 626171 | C32 36mm-1.7/16 | 59.5 | 0.413 |

|        |                  |      |       |
|--------|------------------|------|-------|
| 626201 | C32 38mm-1.1/2   | 59.5 | 0.440 |
| 626228 | C32 41mm-1.5/8   | 62.5 | 0.550 |
| 626244 | C32 46mm-1.13/16 | 65.5 | 0.690 |
| 626260 | C32 50mm-2.      | 68.5 | 0.840 |
| 626279 | C32 1.3/8AF      | 59.5 | 0.402 |

## D32 (MM)

Sockets 3/4"  
bi-hexagon, UD profile



20 3/4"

- > Acc. to DIN 3124, ISO 2725-1
- > Square drive as per DIN 3120 - D 20, ISO 1174, with locking pin
- > Hand-operated

| Code   | No.       |    | L    |       |
|--------|-----------|----|------|-------|
| 627216 | D 32 19mm | 19 | 51,5 | 0.221 |
| 627224 | D 32 22mm | 22 | 51,5 | 0.227 |
| 627232 | D 32 24mm | 24 | 51,5 | 0.257 |
| 627240 | D 32 27mm | 27 | 54,5 | 0.255 |
| 627259 | D 32 29mm | 29 | 54,5 | 0.285 |

|        |           |    |      |       |
|--------|-----------|----|------|-------|
| 627267 | D 32 30mm | 30 | 57,5 | 0.319 |
| 627275 | D 32 32mm | 32 | 57,5 | 0.332 |
| 627704 | D 32 33mm | 33 | 57,5 | 0.345 |
| 627763 | D 32 34mm | 34 | 58,0 | 0.375 |
| 627283 | D 32 36mm | 36 | 59,5 | 0.418 |

|        |           |    |      |       |
|--------|-----------|----|------|-------|
| 627291 | D 32 38mm | 38 | 59,5 | 0.441 |
| 627305 | D 32 41mm | 41 | 62,5 | 0.500 |
| 627313 | D 32 46mm | 46 | 65,5 | 0.641 |
| 627321 | D 32 50mm | 50 | 68,5 | 0.800 |

## D32 (AF)

Sockets 3/4"  
bi-hexagon, UD profile



20 3/4"

- > Square drive as per DIN 3120 - D 20, ISO 1174, with locking pin
- > Hand-operated

| Code   | No.           |         | L    |       |
|--------|---------------|---------|------|-------|
| 627402 | D 32 7/8AF    | 7/8"    | 51,5 | 0.227 |
| 627410 | D 32 15/16AF  | 15/16"  | 51,5 | 0.262 |
| 627429 | D 32 1AF      | 1"      | 51,5 | 0.229 |
| 627437 | D 32 1.1/16AF | 1.1/16" | 54,5 | 0.256 |
| 627445 | D 32 1.1/8AF  | 1.1/8"  | 54,5 | 0.268 |
| 627399 | D 32 1.3/16AF | 1.3/16" | 57,5 | 0.333 |

|        |               |         |      |       |
|--------|---------------|---------|------|-------|
| 627453 | D 32 1.1/4AF  | 1.1/4"  | 57,5 | 0.333 |
| 627461 | D 32 1.5/16AF | 1.5/16" | 57,5 | 0.377 |
| 627488 | D 32 1.3/8AF  | 1.3/8"  | 59,5 | 0.407 |
| 627496 | D 32 1.7/16AF | 1.7/16" | 59,5 | 0.413 |
| 627518 | D 32 1.1/2AF  | 1.1/2"  | 59,5 | 0.431 |
| 627526 | D 32 1.5/8AF  | 1.5/8"  | 62,5 | 0.539 |

|        |                |          |      |       |
|--------|----------------|----------|------|-------|
| 627534 | D 32 1.11/16AF | 1.11/16" | 62,5 | 0.568 |
| 627542 | D 32 1.3/4AF   | 1.3/4"   | 65,5 | 0.627 |
| 627550 | D 32 1.13/16AF | 1.13/16" | 65,5 | 0.637 |
| 627569 | D 32 1.7/8AF   | 1.7/8"   | 65,5 | 0.664 |
| 627577 | D 32 2AF       | 2"       | 68,5 | 0.811 |

## IN 32

Screwdriver bit  
sockets 3/4" for  
hexagon head screws



20 3/4"

- > Manually operated sockets with knurled base.
- > 3/4" square drive.
- > Sockets: Chrome Vanadium steel 31CrV3.
- > Bits: Chrome Vanadium steel 59CrV4.

| Code    | No.       | mm | L  |       |
|---------|-----------|----|----|-------|
| 6275850 | IN32 14mm | 14 | 80 | 0.352 |
| 6275930 | IN32 17mm | 17 | 80 | 0.394 |

| Code    | No.       | mm | L  |       |
|---------|-----------|----|----|-------|
| 6276070 | IN32 19mm | 19 | 80 | 0.433 |
| 6276150 | IN32 22mm | 22 | 80 | 0.482 |

## 32 EMAZ / EMZ / EAZ

Socket sets 3/4"

20 3/4"

- > Manually operated 3/4" sockets and accessories.
- > Supplied in blue powder coated D32 E steel box.
- > Dimensions: 526x190x75mm.



| Code   | No.      | Ratchet           | Sockets                                                               | Accessories |        |
|--------|----------|-------------------|-----------------------------------------------------------------------|-------------|--------|
| 626538 | C32 EMAZ | Z-94<br>3293 Z-94 | C32 27-1.1/16 29-1.1/8                                                | 3287        | 11.430 |
|        |          |                   | 32-1.1/4 33-1.5/16 36-1.7/16 38-1.1/2 41-1.5/8 46-1.13/16 50-2. 1.3/8 | 3290-200    |        |
|        |          |                   |                                                                       | 3290-400    |        |
| 628026 | D32 EMZ  | Z-94<br>3293 Z-94 | D32 22 24 27 30 32 36 38 41 46 50                                     | 3287        | 11.060 |
|        |          |                   |                                                                       | 3290-200    |        |
|        |          |                   |                                                                       | 3290-400    |        |
| 628050 | D32 EAZ  | Z-94<br>3293 Z-94 | D32 7/8 15/16 1.1/16 1.1/4 1.5/16 1.3/8 1.7/16 1.5/8 1.13/16 2.       | 3287        | 11.220 |
|        |          |                   |                                                                       | 3290-200    |        |
|        |          |                   |                                                                       | 3290-400    |        |

## 32 EMAU-2 / EMU-2

Socket sets 3/4"

20 3/4"

- > Manually operated 3/4" sockets and accessories.
- > Supplied in blue powder coated D32 E steel box.
- > Dimensions: 526x190x75mm.



| Code   | No.        | Ratchet         | Sockets                                                                                      | Accessories |        |
|--------|------------|-----------------|----------------------------------------------------------------------------------------------|-------------|--------|
| 626546 | C32 EMAU-2 | U-2<br>3293 U-2 | C32 27-1.1/16 29-1.1/8 32-1.1/4 33-1.5/16 36-1.7/16 38-1.1/2 41-1.5/8 46-1.13/16 50-2. 1.3/8 | 3287        | 11.600 |
|        |            |                 |                                                                                              | 3290-200    |        |
|        |            |                 |                                                                                              | 3290-400    |        |
| 628042 | D32 EMU-2  | U-2<br>3293 U-2 | D32 22 24 27 30 32 36 38 41 46 50                                                            | 3287        | 11.230 |
|        |            |                 |                                                                                              | 3290-200    |        |
|        |            |                 |                                                                                              | 3290-400    |        |

## D32 NZU-Z

Socket sets 3/4"

20 3/4"

- > Manually operated 3/4" sockets and accessories.
- > Supplied in blue powder coated steel D32 box.
- > Sturdy carrying handles.



| Code   | Ratchet         | Sockets                                                                                           | Accessories |        |
|--------|-----------------|---------------------------------------------------------------------------------------------------|-------------|--------|
| 628073 | U-2<br>3293 U-2 | D32 22 24 27 29 30 32 36 38 41 46 50mm 7/8 15/16 1.1/16 1.1/4 1.5/16 1.3/8 1.7/16 1.5/8 1.13/16 2 | 3287        | 14.100 |
|        |                 |                                                                                                   | 3290-200    |        |
|        |                 |                                                                                                   | 3290-400    |        |

## 3287

Sliding t-bars 3/4"

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



| Code   | No.        | "    | mm | L   |       |
|--------|------------|------|----|-----|-------|
| 627836 | 3287       | 3/4" | 20 | 500 | 1.161 |
| 627941 | 3287 / 447 | 3/4" | 20 | 447 | 1.021 |

## 3296

Swivel handle 3/4"



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

| Code   | No.  | "    | mm | L   |       |
|--------|------|------|----|-----|-------|
| 627925 | 3296 | 3/4" | 20 | 547 | 1.965 |

## 3290

Extensions 3/4"

- > Acc. to DIN 3123, ISO 3316
- > For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174 with locking pin

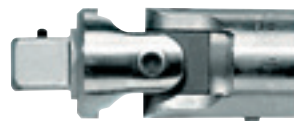


| Code   | No.      | "    | mm | L   | kg    |
|--------|----------|------|----|-----|-------|
| 627844 | 3290-200 | 3/4" | 20 | 200 | 0.574 |
| 627852 | 3290-400 | 3/4" | 20 | 400 | 1.079 |

## 3295

Universal joint 3/4"

- > Acc. to DIN 3123, ISO 3316
- > For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174 with locking pin



| Code   | No.  | "    | mm   | "    | mm | L   | kg    |
|--------|------|------|------|------|----|-----|-------|
| 017170 | 3295 | 3/4" | 20,0 | 3/4" | 20 | 106 | 0.580 |

## 3294

Coupler 3/4"

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



| Code   | No.  | "    | mm | L    | kg    |
|--------|------|------|----|------|-------|
| 627909 | 3294 | 3/4" | 20 | 51,5 | 0.133 |

## 3219

Reducer 3/4" to 1/2"

- > Acc. to DIN 3123, ISO 3316
- > For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174 with locking pin



| Code   | No.  | "    | mm   | "    | mm   | L  | kg    |
|--------|------|------|------|------|------|----|-------|
| 017100 | 3219 | 3/4" | 20,0 | 1/2" | 12,5 | 56 | 0.162 |

## 3221

Converter 3/4" to 1"

- > Acc. to DIN 3123, ISO 3316
- > For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174 with locking pin



| Code   | No.  | "    | mm   | "  | mm | L  | kg    |
|--------|------|------|------|----|----|----|-------|
| 627828 | 3221 | 3/4" | 20,0 | 1" | 25 | 60 | 0.337 |

## 32 Spares

Repair kits, boxes, inserts

- > For the 3293 range of ratchets and 3296 power bar.
- > Blue powder coated steel case.
- > Black matt-finish insert.

| Code   | No.                 |
|--------|---------------------|
| 541036 | 3293 U-1 Repair Kit |
| 545716 | 3293 U-2 Repair Kit |
| 545724 | 3293 Z Repair Kit   |
| 627135 | 3293 DJ Repair Kit  |
| 545740 | 3296 Repair Kit     |
| 514683 | D32 E Box           |
| 544256 | D32 Insert          |
| 545228 | C32 EMAZ Insert     |

## NEW

### S 2032-05

1/4"- 3/4" adaptor set  
5 pieces

- > With reducer and adaptor pieces from 1/4" to 3/4"
- > Please note the maximum load capacities of the outer square edge according to DIN 3123, ISO 3316



| Code    | No.       | Contents                                                                                                                                                                                                     | Length mm | Width mm | Height mm | kg    |
|---------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|-----------|-------|
| 1729071 | S 2032-05 | 2030 1/4" - 3/8" Adaptor (max. 62 Nm)<br>3019 3/8" - 1/2" Adaptor (max. 202 Nm)<br>1932 1/2" - 3/4" Adaptor (max. 512 Nm)<br>3020 3/8" - 1/4" Reducer (max. 62 Nm)<br>1930 1/2" - 3/8" Reducer (max. 202 Nm) | 134       | 51       | 51        | 0.340 |

## 2193 U-3

Reversible ratchet 1"

1" 25

- > Acc. to DIN 3122, ISO 3315
- > With non-slip metal, fine-toothed (72 teeth) and robust
- > Return angle 5°

- > For hand-operated sockets and accessories with square drive as per DIN 3120 - D 25, ISO 1174 with locking pin



| Code   | No.      | 1" | 25 | 5° | L   | mm <sup>2</sup> | kg    |
|--------|----------|----|----|----|-----|-----------------|-------|
| 018240 | 2193 U-3 | 1" | 25 | 5  | 720 | 76              | 4.160 |

## D21 (MM)

Sockets 1"



25 1"

- > Manually operated sockets with knurled base.
- > 1" square drive.
- > Gedore Vanadium steel 31CrV3.
- > Chrome plated.
- > In accordance with SANS 1113 and DIN 3124.

| Code   | mm       | L  | kg    |
|--------|----------|----|-------|
| 018001 | D21 36mm | 70 | 0.600 |
| 018002 | D21 41mm | 70 | 0.700 |
| 018003 | D21 46mm | 75 | 0.900 |
| 018004 | D21 50mm | 75 | 1.000 |

| Code   | mm                | L  | kg    |
|--------|-------------------|----|-------|
| 018005 | D21 55mm          | 75 | 1.100 |
| 018006 | D21 60mm          | 80 | 1.200 |
| 018011 | D21 65mm          | 84 | 1.670 |
| 018008 | 21 70mm - Hexagon | 70 | 0.600 |

| Code   | mm                | L  | kg    |
|--------|-------------------|----|-------|
| 018009 | 21 75mm - Hexagon | 70 | 0.700 |
| 018010 | 21 80mm - Hexagon | 75 | 0.900 |

## D21 EMU-10

Sockets 1"  
15 pieces

25 1"

- > Manually operated 1" sockets and accessories.
- > Gedore Vanadium steel 31CrV3.
- > With reversible lever change ratchet.
- > Supplied in blue powder coated steel case.
- > Dimensions: 760 x 160 x 105mm.

## 2187

Sliding t-bar 1"

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



| Code   | No.         | Ratchet          | Sockets                                  | Accessories                                                   | kg     |
|--------|-------------|------------------|------------------------------------------|---------------------------------------------------------------|--------|
| 018250 | D 21 EMU JG | U-10<br>2193 U-3 | D 21 36 41<br>46 50 55 60 65<br>70 75 80 | 2190 -16 Extension<br>2190 -8 Extension<br>2187 Sliding T-Bar | 27.600 |

| Code   | No.  | 1" | 25 | L   | kg    |
|--------|------|----|----|-----|-------|
| 018210 | 2187 | 1" | 25 | 700 | 3.955 |

## 2190

Extensions 1"



- > Acc. to DIN 3123, ISO 3316
- > For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174 with locking pin

## 2195

Universal joint 1"



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

| Code   | No.     | 1" | mm | L   | kg    |
|--------|---------|----|----|-----|-------|
| 018220 | 2190-8  | 1" | 25 | 200 | 1.182 |
| 018230 | 2190-16 | 1" | 25 | 400 | 2.144 |

| Code    | No.  | 1" | mm   | 1" | mm | L   | kg    |
|---------|------|----|------|----|----|-----|-------|
| 6180980 | 2195 | 1" | 25,0 | 1" | 25 | 140 | 1.482 |

## 2194

Coupler 1"



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

## 2132

Reducer 1" to 3/4"



- > Acc. to DIN 3123, ISO 3316
- > For hand-operated sockets and accessories with square drive as per DIN 3120, ISO 1174 with locking pin



| Code    | No.  | 1" | mm | L    | kg    |
|---------|------|----|----|------|-------|
| 6180710 | 2194 | 1" | 25 | 67,5 | 0.321 |

| Code   | No.  | 1" | mm   | 3/4" | mm | L  | kg    |
|--------|------|----|------|------|----|----|-------|
| 018200 | 2132 | 1" | 25,0 | 3/4" | 20 | 75 | 0.504 |

## K19-14

Impact socket set 1/2"

12.5 1/2"

- > 14 impact sockets, suitable for all standard electric and air tools.
- > 1/2" square drive.
- > Supplied in blue powder coated steel box.
- > Dimensions: 281x77x46mm.



## K19-5

Impact socket set 1/2"

12.5 1/2"

- > 5 impact sockets, machine-operated, suitable for all standard electric and air tools.
- > 1/2" square drive.
- > Supplied in blue powder coated D19 steel box.
- > Dimensions: 281x77x46mm.



| Code    | No.    | Sockets                                   | kg    |
|---------|--------|-------------------------------------------|-------|
| 1646928 | K19-14 | 10 11 12 13 14 16 17 18 19 21 22 23 24 27 | 2.200 |

| Code    | No.   | Sockets        | Extension  | kg    |
|---------|-------|----------------|------------|-------|
| 1646923 | K19-5 | 10 13 14 17 24 | KB1990-125 | 0.950 |



## K19-17

Impact socket set 1/2"



12.5 1/2"

- > 1/2" square drive.
- > Machine-operated, suitable for all standard electric and air tools
- > In accordance with DIN 3129.
- > GEDORE special steel, manganese phosphated.
- > Supplied in blue powder coated steel box.

| Code    | No.    | Sockets                                   | Extension                                                                               |       |
|---------|--------|-------------------------------------------|-----------------------------------------------------------------------------------------|-------|
| 1646930 | K19-17 | 10 11 12 13 14 16 17 18 19 21 22 23 24 27 | KB1990-125<br>KB1970/75 8-14mm safety ring & pin<br>KB1970/75 15-32mm safety ring & pin | 2.660 |

## K19 (MM)

Impact sockets 1/2" hexagon



12.5 1/2"

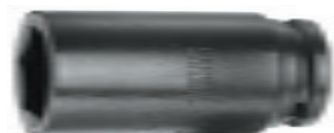
- > 1/2" square drive.
- > Machine-operated, suitable for all standard electric and air tools
- > In accordance with DIN 3129.
- > GEDORE special steel, manganese phosphated.

| Code    | mm       | Recommended Accessories    | L  |       |
|---------|----------|----------------------------|----|-------|
| 6160280 | K19 10mm | KB1970 10-14, KB1975 10-14 | 38 | 0.082 |
| 6160360 | K19 11mm | KB1970 10-14, KB1975 10-14 | 38 | 0.085 |
| 6160440 | K19 12mm | KB1970 10-14, KB1975 10-14 | 38 | 0.084 |
| 6160520 | K19 13mm | KB1970 10-14, KB1975 10-14 | 38 | 0.081 |
| 6160600 | K19 14mm | KB1970 10-14, KB1975 10-14 | 38 | 0.082 |
| 6160790 | K19 16mm | KB1970 15-27, KB1975 15-27 | 38 | 0.124 |
| 6160870 | K19 17mm | KB1970 15-27, KB1975 15-27 | 38 | 0.123 |
| 6160950 | K19 18mm | KB1970 15-27, KB1975 15-27 | 38 | 0.122 |
| 6161090 | K19 19mm | KB1970 15-27, KB1975 15-27 | 38 | 0.119 |

| Code    | mm       | Recommended Accessories    | L  |       |
|---------|----------|----------------------------|----|-------|
| 6161170 | K19 21mm | KB1970 15-27, KB1975 15-27 | 38 | 0.137 |
| 6161250 | K19 22mm | KB1970 15-27, KB1975 15-27 | 38 | 0.142 |
| 6161330 | K19 23mm | KB1970 15-27, KB1975 15-27 | 38 | 0.148 |
| 6161410 | K19 24mm | KB1970 15-27, KB1975 15-27 | 45 | 0.154 |
| 6182680 | K19 27mm | KB1970 15-27, KB1975 15-27 | 50 | 0.180 |
| 6182720 | K19 28mm | KB1970 15-27, KB1975 15-27 | 50 | 0.183 |
| 6182880 | K19 29mm | KB1970 15-27, KB1975 15-27 | 50 | 0.188 |
| 1560557 | K19 30mm | KB1970 15-27, KB1975 15-27 | 50 | 0.256 |
| 1783742 | K19 32mm | KB1970 15-27, KB1975 15-27 | 50 | 0.286 |

## K19 L (MM)

Impact sockets 1/2" hexagon, long pattern



12.5 1/2"

- > 1/2" square drive.
- > Machine-operated, suitable for all standard electric and air tools.
- > In accordance with DIN 3129.
- > GEDORE special steel, manganese phosphated.

| Code    | mm        | Recommended Accessories    | L  |       |
|---------|-----------|----------------------------|----|-------|
| 6163380 | K19L 10mm | KB1970 10-14, KB1975 10-14 | 77 | 0.140 |
| 6163381 | K19L 11mm | KB1970 10-14, KB1975 10-14 | 77 | 0.133 |
| 6163400 | K19L 12mm | KB1970 10-14, KB1975 10-14 | 77 | 0.140 |
| 6163540 | K19L 13mm | KB1970 10-14, KB1975 10-14 | 77 | 0.150 |
| 6163620 | K19L 14mm | KB1970 10-14, KB1975 10-14 | 77 | 0.154 |
| 6197790 | K19L 16mm | KB1970 15-27, KB1975 15-27 | 77 | 0.172 |
| 6163890 | K19L 17mm | KB1970 15-27, KB1975 15-27 | 80 | 0.200 |
| 6197870 | K19L 18mm | KB1970 15-27, KB1975 15-27 | 82 | 0.215 |

| Code    | mm        | Recommended Accessories    | L  |       |
|---------|-----------|----------------------------|----|-------|
| 6164000 | K19L 19mm | KB1970 15-27, KB1975 15-27 | 82 | 0.225 |
| 6162730 | K19L 21mm | KB1970 15-27, KB1975 15-27 | 82 | 0.243 |
| 6164270 | K19L 22mm | KB1970 15-27, KB1975 15-27 | 82 | 0.290 |
| 6199810 | K19L 23mm | KB1970 15-27, KB1975 15-27 | 82 | 0.292 |
| 6164430 | K19L 24mm | KB1970 15-27, KB1975 15-27 | 82 | 0.314 |
| 6164780 | K19L 27mm | KB1970 15-27, KB1975 15-27 | 82 | 0.389 |
| 6184270 | K19L 30mm | KB1970 15-27, KB1975 15-27 | 82 | 0.453 |

## IN K19

Impact allen key sockets 1/2" for in-hex screws



12,5 1/2"

- > 1/2" square drive.
- > Machine-operated, suitable for all standard electric and air tools.
- > In accordance with DIN 3121.
- > GEDORE special steel, manganese phosphated.

## KB 1932

Converter 1/2" to 3/4" for impact sockets



12,5 1/2"

- > With square drive as per DIN 3121.

1/2" 12,5 mm 3/4" 20 mm

| Code    | mm          | Recommended Accessories    | L  | kg    |
|---------|-------------|----------------------------|----|-------|
| 6224190 | IN K19 8mm  | KB1970 10-14, KB1975 10-14 | 44 | 0.093 |
| 6224270 | IN K19 10mm | KB1970 10-14, KB1975 10-14 | 44 | 0.104 |
| 6224350 | IN K19 12mm | KB1970 15-27, KB1975 15-27 | 50 | 0.130 |
| 6225320 | IN K19 14mm | KB1970 15-27, KB1975 15-27 | 50 | 0.148 |
| 6225670 | IN K19 17mm | KB1970 15-27, KB1975 15-27 | 50 | 0.189 |
| 6225675 | IN K19 19mm | KB1970 15-27, KB1975 15-27 | 50 | 0.214 |

| Code    | No.    | 3/4" | 20 | 1/2" | 12,5 | L  | kg    |
|---------|--------|------|----|------|------|----|-------|
| 6650020 | KB1932 |      |    |      |      | 48 | 0.159 |

## KB 1990

Extensions 1/2" for impact sockets



12,5 1/2"

- > For impact sockets and accessories with 1/2" square drive.

## KB 1995

Universal joint 1/2" for impact sockets



12,5 1/2"

- > For air tool operated impact sockets and accessories with 1/2" square drive.

| Code    | No.        | 1/2" | 12,5 | L   | kg    |
|---------|------------|------|------|-----|-------|
| 6655100 | KB1990/75  |      |      | 75  | 0.143 |
| 6655250 | KB1990/125 |      |      | 125 | 0.226 |

| Code    | No.    | 1/2" | 12,5 | 1/2" | 12,5 | L  | kg    |
|---------|--------|------|------|------|------|----|-------|
| 6655410 | KB1995 |      |      |      |      | 62 | 0.202 |

## KB 1900

Impact driver 1/2"



12,5 1/2"

- > For impact sockets and accessories with 1/2" square drive.

\* WHILE STOCKS LAST

## KB 1970 - KB 1975

Safety ring & pin 1/2" for impact sockets



12,5 1/2"

| Code   | No.     | L   | kg    |
|--------|---------|-----|-------|
| 024010 | KB1900* | 123 | 0.580 |

| Code    | No.               | L | kg    |
|---------|-------------------|---|-------|
| 6654790 | KB1970/75 8-14mm  |   | 0.020 |
| 6654870 | KB1970/75 15-32mm |   | 0.020 |

## K 32-18

Impact socket set 3/4"


**20** **3/4"**

- > 3/4" square drive.
- > Machine-operated, suitable for all standard electric and air tools.
- > In accordance with DIN 3129.
- > GEDORE special steel, manganese phosphated.
- > Supplied in blue powder coated steel box.

| Code    | No.    | Sockets                                                          | Extension                                                                  |        |
|---------|--------|------------------------------------------------------------------|----------------------------------------------------------------------------|--------|
| 6289995 | K32-18 | <b>K32</b> 17 18 19 21 22 23 24 27 28 29 30 32 33 34 36 38 40 41 | KB3270/75 17-50mm safety ring & pin<br>KB3270/75 52-60mm safety ring & pin | 10.500 |

## K 32 (MM)

Impact sockets 3/4" hexagon


**20** **3/4"**

- > 3/4" square drive.
- > Machine-operated, suitable for all standard electric and air tools.
- > In accordance with DIN 3129.
- > GEDORE special steel, manganese phosphated.

| Code    | mm       | Recommended Accessories | L  |       |
|---------|----------|-------------------------|----|-------|
| 6282040 | K32 17mm | KB3270, KB3275          | 45 | 0.330 |
| 6289990 | K32 18mm | KB3270, KB3275          | 45 | 0.330 |
| 6282120 | K32 19mm | KB3270, KB3275          | 45 | 0.331 |
| 6282190 | K32 21mm | KB3270, KB3275          | 46 | 0.340 |
| 6282200 | K32 22mm | KB3270, KB3275          | 46 | 0.333 |
| 6282210 | K32 23mm | KB3270, KB3275          | 46 | 0.360 |
| 6282390 | K32 24mm | KB3270, KB3275          | 46 | 0.349 |
| 6282470 | K32 27mm | KB3270, KB3275          | 48 | 0.367 |
| 6282474 | K32 28mm | KB3270, KB3275          | 48 | 0.379 |

| Code    | mm       | Recommended Accessories | L  |       |
|---------|----------|-------------------------|----|-------|
| 6282476 | K32 29mm | KB3270, KB3275          | 48 | 0.384 |
| 6282550 | K32 30mm | KB3270, KB3275          | 52 | 0.395 |
| 6282630 | K32 32mm | KB3270, KB3275          | 52 | 0.445 |
| 6283010 | K32 33mm | KB3270, KB3275          | 55 | 0.475 |
| 6281580 | K32 34mm | KB3270, KB3275          | 55 | 0.475 |
| 6282710 | K32 36mm | KB3270, KB3275          | 56 | 0.482 |
| 6281740 | K32 38mm | KB3270, KB3275          | 59 | 0.517 |
| 6282970 | K32 40mm | KB3270, KB3275          | 59 | 0.560 |
| 6282980 | K32 41mm | KB3270, KB3275          | 59 | 0.561 |

| Code    | mm       | Recommended Accessories | L  |       |
|---------|----------|-------------------------|----|-------|
| 6282982 | K32 42mm | KB3270, KB3275          | 58 | 0.582 |
| 6282984 | K32 44mm | KB3270, KB3275          | 62 | 0.697 |
| 6282986 | K32 46mm | KB3270, KB3275          | 62 | 0.703 |
| 6282988 | K32 47mm | KB3270, KB3275          | 68 | 0.810 |
| 6282990 | K32 48mm | KB3270, KB3275          | 68 | 0.827 |
| 6282992 | K32 50mm | KB3270, KB3275          | 68 | 0.831 |
| 6282994 | K32 55mm | KB3270, KB3275          | 72 | 1.149 |
| 6282996 | K32 60mm | KB3270, KB3275          | 75 | 1.500 |
| 6282998 | K32 65mm | KB3270, KB3275          | 78 | 1.800 |

## K 32 L (MM)

Impact socket set 3/4" hexagon, long pattern


**20** **3/4"**

- > 3/4" square drive.
- > With square drive as per DIN 3129.

| Code    | mm        | Recommended Accessories | L  |       |
|---------|-----------|-------------------------|----|-------|
| 6283600 | K32L 17mm | KB3270, KB3275          | 90 | 0.490 |
| 6283790 | K32L 19mm | KB3270, KB3275          | 90 | 0.510 |
| 6283870 | K32L 22mm | KB3270, KB3275          | 90 | 0.560 |
| 6283950 | K32L 24mm | KB3270, KB3275          | 90 | 0.580 |
| 6284090 | K32L 27mm | KB3270, KB3275          | 90 | 0.630 |
| 6284170 | K32L 30mm | KB3270, KB3275          | 90 | 0.700 |
| 6284250 | K32L 32mm | KB3270, KB3275          | 90 | 0.740 |

| Code    | mm        | Recommended Accessories | L  |       |
|---------|-----------|-------------------------|----|-------|
| 6286540 | K32L 33mm | KB3270, KB3275          | 90 | 0.770 |
| 6281660 | K32L 34mm | KB3270, KB3275          | 90 | 0.800 |
| 6284330 | K32L 36mm | KB3270, KB3275          | 90 | 0.850 |
| 6284332 | K32L 38mm | KB3270, KB3275          | 90 | 0.880 |
| 6286890 | K32L 41mm | KB3270, KB3275          | 90 | 0.950 |
| 6284336 | K32L 46mm | KB3270, KB3275          | 90 | 1.080 |

## INK 32

Impact allen key socket set 3/4" for in-hex screws



20 3/4"

- > Machine-operated, suitable for all standard electric and air tools.
- > With square drive as per DIN 3121.

## KB 3290

Extensions 3/4" for impact sockets



20 3/4"

- > For impact sockets and accessories with 3/4" square drive.

| Code    | mm         | Recommended Accessories | L  | kg    |
|---------|------------|-------------------------|----|-------|
| 1956477 | INK32 14mm | KB3270, KB3275          | 59 | 0.408 |
| 1956485 | INK32 17mm | KB3270, KB3275          | 62 | 0.445 |
| 1956493 | INK32 19mm | KB3270, KB3275          | 64 | 0.467 |
| 1956507 | INK32 22mm | KB3270, KB3275          | 67 | 0.520 |
| 1956515 | INK32 24mm | KB3270, KB3275          | 67 | 0.555 |

| Code    | No.        | 3/4" | 20" | L   | kg    |
|---------|------------|------|-----|-----|-------|
| 6675550 | KB3290/175 | 3/4  | 20  | 175 | 0.887 |
| 6675650 | KB3290/250 | 3/4  | 20  | 250 | 0.917 |
| 6675790 | KB3290/12" | 3/4  | 20  | 300 | 1.300 |

## KB 3221

Convertert 3/4" to 1" for impact sockets



20 3/4"

- > With square drive as per DIN 3121.



## KB 3219

Reducer 3/4" to 1/2" for impact sockets



20 3/4"

- > With square drive as per DIN 3121.
- > GEDORE special steel, manganese-phosphated.



| Code    | No.    | 3/4" | 20" | 3/4" | 20" | L  | kg    |
|---------|--------|------|-----|------|-----|----|-------|
| 6671530 | KB3221 | 1    | 25  | 3/4  | 20  | 65 | 0.445 |

| Code    | No.    | 3/4" | 20"  | 3/4" | 20" | L  | kg    |
|---------|--------|------|------|------|-----|----|-------|
| 6675280 | KB3219 | 1/2" | 12,5 | 3/4  | 20  | 65 | 0.351 |

## KB 3295

Universal joint 3/4"



20 3/4"

- > For impact sockets and accessories with 3/4" square drive.

## KB 3270 - KB 3275

Safety ring & pin 3/4" for impact sockets



20 3/4"

| Code    | No.    | 3/4" | 20" | 3/4" | 20" | mm | kg    |
|---------|--------|------|-----|------|-----|----|-------|
| 6676090 | KB3295 | 3/4" | 20  | 3/4  | 20  | 94 | 0.623 |

| Code    | No.               | kg    |
|---------|-------------------|-------|
| 6675441 | KB3270/75 17-50mm | 0.020 |
| 6675444 | KB3270/75 52-60mm | 0.020 |

## K21-21

Impact socket set 1"



25 1"

- > 1" square drive.
- > In accordance with DIN 3129.
- > GEDORE special steel, manganese phosphated.
- > Supplied in blue powder coated steel box.

| Code    | No.    | Sockets                                                              | Extension                                                                                              |        |
|---------|--------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------|
| 6186259 | K21-21 | ○ K21 27 29 30 32 33 34 36 38 41 42 46 47 48 50 52 55 60 65 70 75 80 | KB2190-175<br>KB2190-250<br>KB2170/75 19-70mm safety ring & pin<br>KB2170/75 71-90mm safety ring & pin | 36.200 |

## K 21 (MM)

Impact sockets 1" hexagon



25 1"

- > 1" square drive.
- > In accordance with DIN 3129.

| Code    | mm       | Recommended Accessories | L  |       | Code    | mm       | Recommended Accessories | L  |       | Code    | mm        | Recommended Accessories | L   |       |
|---------|----------|-------------------------|----|-------|---------|----------|-------------------------|----|-------|---------|-----------|-------------------------|-----|-------|
| 6183060 | K21 22mm | KB 2170, KB 2175        | 55 | 0.546 | 6183730 | K21 41mm | KB 2170, KB 2175        | 64 | 0.830 | 6184540 | K21 70mm  | KB 2170, KB 2175        | 88  | 2.479 |
| 6183140 | K21 24mm | KB 2170, KB 2175        | 55 | 0.561 | 6184970 | K21 42mm | KB 2170, KB 2175        | 64 | 0.900 | 6184620 | K21 75mm  | KB 2170, KB 2175        | 92  | 3.022 |
| 6183220 | K21 27mm | KB 2170, KB 2175        | 55 | 0.593 | 6183810 | K21 46mm | KB 2170, KB 2175        | 69 | 1.054 | 6184700 | K21 80mm  | KB 2170, KB 2175        | 97  | 2.890 |
| 6183290 | K21 29mm | KB 2170, KB 2175        | 56 | 0.643 | 6183820 | K21 47mm | KB 2170, KB 2175        | 70 | 1.120 | 6184710 | K21 85mm  | KB 2170, KB 2175        | 106 | 3.852 |
| 6183300 | K21 30mm | KB 2170, KB 2175        | 57 | 0.636 | 6183822 | K21 48mm | KB 2170, KB 2175        | 71 | 1.200 | 6184720 | K21 90mm  | KB 2170, KB 2175        | 108 | 3.730 |
| 6183490 | K21 32mm | KB 2170, KB 2175        | 57 | 0.649 | 6184030 | K21 50mm | KB 2170, KB 2175        | 73 | 1.305 | 6184725 | K21 95mm  | KB 2170, KB 2175        | 108 | 4.830 |
| 6183650 | K21 33mm | KB 2170, KB 2175        | 57 | 1.001 | 6184034 | K21 52mm | KB 2170, KB 2175        | 74 | 1.300 | 6184730 | K21 100mm | KB 2170, KB 2175        | 115 | 5.625 |
| 6196980 | K21 34mm | KB 2170, KB 2175        | 60 | 0.733 | 6184110 | K21 55mm | KB 2170, KB 2175        | 76 | 1.533 | 6184735 | K21 105mm | KB 2170, KB 2175        | 120 | 6.620 |
| 6183570 | K21 36mm | KB 2170, KB 2175        | 60 | 0.781 | 6184380 | K21 60mm | KB 2170, KB 2175        | 82 | 1.821 |         |           |                         |     |       |
| 6184890 | K21 38mm | KB 2170, KB 2175        | 62 | 0.858 | 6184460 | K21 65mm | KB 2170, KB 2175        | 85 | 2.040 |         |           |                         |     |       |

## K 21 L (MM)

Impact sockets 1" hexagon, long pattern



25 1"

- > 1" square drive.
- > In accordance with DIN 3121.

| Code    | mm       | Recommended Accessories | L   |       | Code    | mm       | Recommended Accessories | L   |       |
|---------|----------|-------------------------|-----|-------|---------|----------|-------------------------|-----|-------|
| 6185350 | K2L 22mm | KB 2170, KB 2175        | 100 | 0.934 | 6186160 | K2L 41mm | KB 2170, KB 2175        | 100 | 1.393 |
| 6185430 | K2L 24mm | KB 2170, KB 2175        | 100 | 0.958 | 6186240 | K2L 46mm | KB 2170, KB 2175        | 100 | 1.621 |
| 6185510 | K2L 27mm | KB 2170, KB 2175        | 100 | 1.007 | 6186242 | K2L 50mm | KB 2170, KB 2175        | 100 | 1.947 |
| 6185780 | K2L 30mm | KB 2170, KB 2175        | 100 | 1.076 | 6186244 | K2L 55mm | KB 2170, KB 2175        | 100 | 2.100 |
| 6185860 | K2L 32mm | KB 2170, KB 2175        | 100 | 1.135 | 6186246 | K2L 60mm | KB 2170, KB 2175        | 100 | 2.253 |
| 6197950 | K2L 33mm | KB 2170, KB 2175        | 100 | 1.123 | 6186248 | K2L 65mm | KB 2170, KB 2175        | 100 | 2.723 |
| 6197010 | K2L 34mm | KB 2170, KB 2175        | 100 | 1.169 | 6186250 | K2L 70mm | KB 2170, KB 2175        | 100 | 3.005 |
| 6185940 | K2L 36mm | KB 2170, KB 2175        | 100 | 1.221 | 6186252 | K2L 75mm | KB 2170, KB 2175        | 100 | 3.303 |
| 6186080 | K2L 38mm | KB 2170, KB 2175        | 100 | 1.325 |         |          |                         |     |       |



## INK 21

Impact allen key sockets 1" for in-hex screws



25 1"

- > For all standard electric and air tools.
- > With square drive as per DIN 3121.

| Code    | mm         | Recommended Accessories | L  | kg    |
|---------|------------|-------------------------|----|-------|
| 1956548 | INK21 17mm | KB 2170, KB 2175        | 75 | 0.800 |
| 1956558 | INK21 19mm | KB 2170, KB 2175        | 75 | 0.825 |
| 1956566 | INK21 22mm | KB 2170, KB 2175        | 75 | 0.845 |
| 1956574 | INK21 24mm | KB 2170, KB 2175        | 75 | 0.888 |
| 1956582 | INK21 27mm | KB 2170, KB 2175        | 75 | 0.938 |

## KB 2132

Reducer 1" to 3/4" for impact sockets



25 1"

- > With square drive as per DIN 3121.

| Code    | No.    |  " |  |  " |  |  |  |
|---------|--------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 6657460 | KB2132 | 3/4"                                                                                  | 20                                                                                  | 1                                                                                     | 25                                                                                  | 77                                                                                  | 0.661                                                                               |

## KB 2137

Converter 1" to 1.1/2" for impact sockets



25 1"

- > With square drive as per DIN 3121.

| Code    | No.    |  |  |  |  |  |  |
|---------|--------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 6657890 | KB2137 | 1.1/2"                                                                              | 40                                                                                  | 1                                                                                   | 25                                                                                  | 85                                                                                  | 0.988                                                                               |

## KB 2190

Extensions 1" for impact sockets



25 1"

- > For impact sockets and accessories with 1" square drive.

| Code    | No.        | " | "  | mm  | kg    |
|---------|------------|---|----|-----|-------|
| 6657969 | KB2190/175 | 1 | 25 | 200 | 1.570 |
| 6657975 | KB2190/250 | 1 | 25 | 300 | 1.750 |
| 6658000 | KB2190/330 | 1 | 25 | 400 | 2.350 |

## KB 2195

Universal joint 1" for impact sockets



25 1"

- > For impact sockets and accessories with 1" square drive.

| Code    | No.    |  " |  |  " |  |  |  |
|---------|--------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 6658350 | KB2195 | 1"                                                                                    | 25                                                                                  | 1                                                                                     | 25                                                                                  | 136                                                                                 | 1.420                                                                               |

## KB 2170 - KB 2175

Safety ring & pin 1" for impact sockets



25 1"

- > With square drive as per DIN 3121.

| Code    | No.               | kg    |
|---------|-------------------|-------|
| 6657621 | KB2170/75 19-70mm | 0.020 |
| 6657623 | KB2170/75 71-90mm | 0.020 |

## K 37 (MM)

Impact sockets 1.1/2" hexagon



1 1/2"

- > 1.1/2" square drive.
- > In accordance with DIN 3129.

| Code    | mm       | Recommended Accessories | L   |       |
|---------|----------|-------------------------|-----|-------|
| 6328130 | K37 46mm | KB 3770, KB 3775        | 80  | 2.260 |
| 6328210 | K37 50mm | KB 3770, KB 3775        | 82  | 2.386 |
| 6328220 | K37 52mm | KB 3770, KB 3775        | 85  | 2.420 |
| 6328230 | K37 54mm | KB 3770, KB 3775        | 85  | 2.450 |
| 6328480 | K37 55mm | KB 3770, KB 3775        | 89  | 2.500 |
| 6328560 | K37 60mm | KB 3770, KB 3775        | 92  | 2.731 |
| 6328640 | K37 65mm | KB 3770, KB 3775        | 96  | 2.901 |
| 6328720 | K37 70mm | KB 3770, KB 3775        | 101 | 3.466 |
| 6328800 | K37 75mm | KB 3770, KB 3775        | 105 | 3.713 |

| Code    | mm        | Recommended Accessories | L   |       |
|---------|-----------|-------------------------|-----|-------|
| 6328990 | K37 80mm  | KB 3770, KB 3775        | 110 | 4.252 |
| 6329020 | K37 85mm  | KB 3770, KB 3775        | 116 | 5.332 |
| 6329100 | K37 90mm  | KB 3770, KB 3775        | 118 | 5.658 |
| 6329290 | K37 95mm  | KB 3770, KB 3775        | 118 | 6.372 |
| 6329370 | K37 100mm | KB 3770, KB 3775        | 125 | 6.543 |
| 6329450 | K37 105mm | KB 3770, KB 3775        | 125 | 7.537 |
| 6329530 | K37 110mm | KB 3770, KB 3775        | 137 | 7.959 |
| 6329610 | K37 115mm | KB 3770, KB 3775        | 137 | 8.833 |

## KB 3721

Reducer 1.1/2" to 1" for impact sockets

1 1/2"

- > With square drive as per DIN 3121.



| Code    | No.    | 1" | 25 | 1.1/2" | 40 | L  |       |
|---------|--------|----|----|--------|----|----|-------|
| 6676410 | KB3721 | 1  | 25 | 1.1/2" | 40 | 95 | 2.580 |

## KB 3790

Extensions 1" for impact sockets

1 1/2"

- > For impact sockets and accessories with 1.1/2" square drive.



| Code    | No.        | 1"     | 40 | L   |       |
|---------|------------|--------|----|-----|-------|
| 6329885 | KB3790/175 | 1.1/2" | 40 | 175 | 4.080 |
| 6329888 | KB3790/250 | 1.1/2" | 40 | 250 | 5.200 |
| 6329890 | KB3790/330 | 1.1/2" | 40 | 330 | 6.380 |

## KB 3770 - KB 3775

Safety ring & pin 1.1/2" for impact sockets

1 1/2"

- > With square drive as per DIN 3121.



| Code    | No.       |          |       |
|---------|-----------|----------|-------|
| 6676762 | KB3770/75 | 46-90mm  | 0.020 |
| 6676764 | KB3770/75 | 95-115mm | 0.020 |

# SCREWDRIVERS

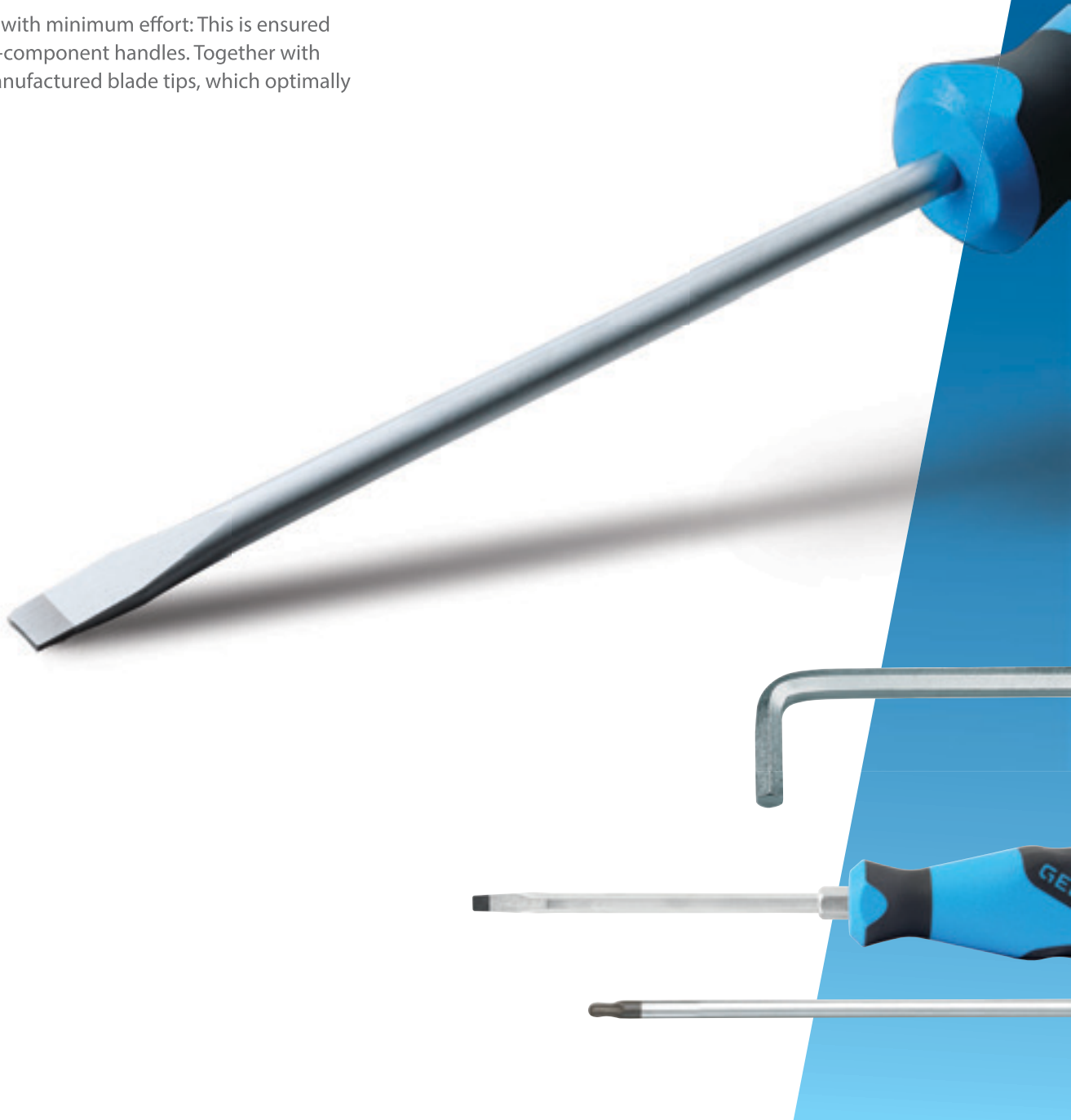
**The perfect twist:** The tightening and loosening of screws is probably one of the most frequent tasks in everyday work. It is therefore all the more important to have a great screwdriver at hand.

GEDORE screwdrivers cover everything from classic slotted and cross-slotted to TX and hexagon allen keys. However, it is not only the product range that is important. It is the composition and quality of the components such as handle, blade and drive make the difference.

**Maximum force with minimum effort:** This is ensured by ergonomic 3-component handles. Together with the precisely manufactured blade tips, which optimally

transfer the torque to the screw head, giving an unbeatable combination.

The GEDORE screwdriver-range offers some special features such as specific lengths, impact caps or ball heads. The GEDORE SilentGEAR stands for extraordinary design performance. The ratchet screwdriver makes a significant change to the way screws are tightened and loosened with its stepless and silent ratchet mechanism.





POWERFUL  
PRECISE

#### TORQUE PINPOINT

- Wide range of screwdrivers for all applications
- Available individually or in practical sets
- Optimised components for best possible results and torque transmission



#### ERGONOMIC 3-C HANDLES



- Optimal power transmission due to soft quick-turn zone and power point inside the handle
- Ergonomic feel with large contact surface for the hand
- Suitable for small and large hands, right- and left-handers alike



#### TEMPERED BLADE

- Blade from GEDORE molybdenum-vanadium-plus tempered steel for hardness, elasticity and resistance to wear
- Blade fully tempered for a long service life
- Blade injected as a positive fit into the plastic core and matt chrome-plated
- For optimum power transmission to the screw head

**2150**

3C Screwdriver  
for slotted head  
screws



- Acc. to DIN ISO 2380-2, cutting edge according to DIN ISO 2380-1 Form A
- Ergonomic 3-component handle Power-Grip<sup>3</sup> for maximum power transmission with minimum stress on the hand
- hanging hole on handle for space-saving storage
- Type of drive marked at end of the handle



| Code    | No.      |      |     |     |       |
|---------|----------|------|-----|-----|-------|
| 6679270 | 2150 3   | 3,0  | 80  | 165 | 0.030 |
| 6679350 | 2150 4   | 4,0  | 100 | 185 | 0.061 |
| 6679430 | 2150 5,5 | 5,5  | 100 | 200 | 0.093 |
| 6679510 | 2150 6,5 | 6,5  | 150 | 260 | 0.128 |
| 6679780 | 2150 8   | 8,0  | 150 | 270 | 0.170 |
| 6679860 | 2150 10  | 10,0 | 200 | 320 | 0.203 |

**2150**

3C Screwdriver  
for slotted head  
screws,  
special lengths



- Acc. to DIN ISO 2380-2, cutting edge according to DIN ISO 2380-1 Form B
- Ergonomic 3-component handle Power-Grip<sup>3</sup> for maximum power transmission with minimum stress on the hand
- hanging hole on handle for space-saving storage
- Type of drive marked at end of the handle



| Code    | No.          |     |     |     |       |
|---------|--------------|-----|-----|-----|-------|
| 2822709 | 2150 2,5-75  | 2,5 | 75  | 160 | 0.055 |
| 6680280 | 2150 3-150   | 3,0 | 150 | 235 | 0.044 |
| 6680360 | 2150 4-150   | 4,0 | 150 | 235 | 0.069 |
| 6680520 | 2150 5,5-150 | 5,5 | 150 | 250 | 0.104 |
| 6680870 | 2150 6,5-200 | 6,5 | 200 | 310 | 0.152 |

**2153**

3C Screwdriver  
for slotted head  
screws, stubby



- Acc. to DIN ISO 2380-2A, cutting edge according to DIN ISO 2380-1 Form B
- Especially suitable for work in confined spaces
- Ergonomic 3-component handle Power-Grip<sup>3</sup> for maximum power transmission with minimum stress on the hand
- hanging hole on handle for space-saving storage
- Type of drive marked at end of the handle



| Code    | No.      |     |    |    |       |
|---------|----------|-----|----|----|-------|
| 1482432 | 2153 5,5 | 5,5 | 25 | 81 | 0.036 |

**2161 PH**

3C Screwdriver  
for cross-head screws  
PH, stubby



- Acc. to DIN ISO 8764, tip according to DIN ISO 8764-1 PH
- Ergonomic 3-component handle Power-Grip<sup>3</sup> for maximum power transmission with minimum stress on the hand
- hanging hole on handle for space-saving storage
- Type of drive marked at end of the handle



| Code    | No.       |   |    |    |       |
|---------|-----------|---|----|----|-------|
| 1531204 | 2161 PH 2 | 2 | 25 | 81 | 0.036 |

**2160 PH**

3C Screwdriver  
for cross-head screws, PH



- Acc. to DIN ISO 8764, tip according to DIN ISO 8764-1 PH
- Ergonomic 3-component handle Power-Grip<sup>3</sup> for maximum power transmission with minimum stress on the hand
- hanging hole on handle for space-saving storage
- Type of drive marked at end of the handle



| Code    | No.       |   |     |     |       |
|---------|-----------|---|-----|-----|-------|
| 6683110 | 2160 PH 0 | 0 | 60  | 145 | 0.302 |
| 6683380 | 2160 PH 1 | 1 | 80  | 180 | 0.080 |
| 6683460 | 2160 PH 2 | 2 | 100 | 210 | 0.119 |
| 6683540 | 2160 PH 3 | 3 | 150 | 270 | 0.192 |



**2160 PZ**

3C Screwdriver  
for cross-head screws,  
Pozi PZ



- Acc. to DIN ISO 8764, tip according to DIN ISO 8764-1 PZ
- Ergonomic 3-component handle Power-Grip<sup>3</sup> for maximum power transmission with minimum stress on the hand
- hanging hole on handle for space-saving storage
- Type of drive marked at end of the handle



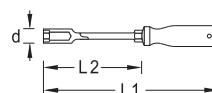
| Code    | No.       | PZ |  |  |  |
|---------|-----------|----|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 6683970 | 2160 PZ 0 | 0  | 60                                                                                | 145                                                                               | 0.038                                                                             |
| 6684000 | 2160 PZ 1 | 1  | 80                                                                                | 180                                                                               | 0.079                                                                             |
| 6684190 | 2160 PZ 2 | 2  | 100                                                                               | 210                                                                               | 0.119                                                                             |
| 6684270 | 2160 PZ 3 | 3  | 150                                                                               | 270                                                                               | 0.189                                                                             |

**2133**

Nut driver with  
3C Handle



- Acc. to DIN 3125, ISO 2725-1
- Ergonomic 3-component handle Power-Grip<sup>3</sup> for maximum power with minimum effort
- With hanging hole on handle for space-saving storage
- From 10 mm with drive hexagon



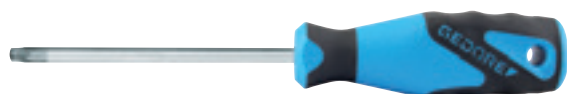
| Code    | No.      |  | L1  | L2  | d  |  mm |  |
|---------|----------|------------------------------------------------------------------------------------|-----|-----|----|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1746731 | 2133 5,5 | 5,5                                                                                | 225 | 125 | 8  | -                                                                                      | 0.107                                                                               |
| 1746758 | 2133 6   | 6,0                                                                                | 225 | 125 | 9  | -                                                                                      | 0.109                                                                               |
| 1746766 | 2133 7   | 7,0                                                                                | 235 | 125 | 11 | -                                                                                      | 0.135                                                                               |
| 1746855 | 2133 8   | 8,0                                                                                | 235 | 125 | 12 | -                                                                                      | 0.152                                                                               |
| 1746863 | 2133 9   | 9,0                                                                                | 235 | 125 | 13 | -                                                                                      | 0.168                                                                               |
| 1746898 | 2133 10  | 10,0                                                                               | 245 | 125 | 14 | 10                                                                                     | 0.198                                                                               |
| 1746901 | 2133 11  | 11,0                                                                               | 245 | 125 | 16 | 13                                                                                     | 0.202                                                                               |
| 1746928 | 2133 12  | 12,0                                                                               | 245 | 125 | 17 | 13                                                                                     | 0.221                                                                               |
| 1746944 | 2133 13  | 13,0                                                                               | 245 | 125 | 18 | 13                                                                                     | 0.225                                                                               |

**2163 TX**

3C Screwdriver  
for recessed TX  
head screws



- Ergonomic 3-component handle Power-Grip<sup>3</sup> for maximum power with minimum effort
- With hanging hole on handle for space-saving storage
- Type of drive marked at end of the handle



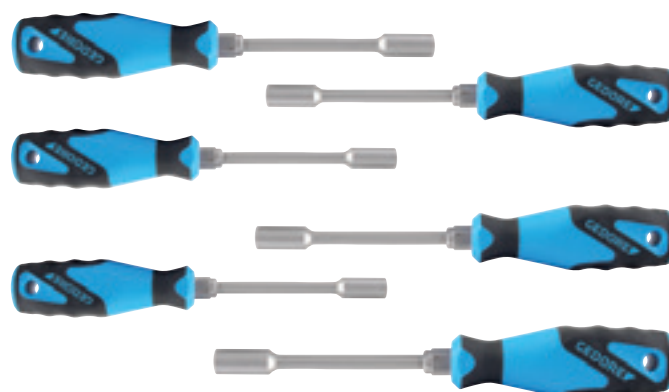
| Code    | No.         |  |  |  |
|---------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 6685400 | 2163 TX T6  | T6                                                                                  | 60 145                                                                              | 0.029                                                                               |
| 6685590 | 2163 TX T7  | T7                                                                                  | 60 145                                                                              | 0.038                                                                               |
| 6685670 | 2163 TX T8  | T8                                                                                  | 60 145                                                                              | 0.038                                                                               |
| 6685750 | 2163 TX T9  | T9                                                                                  | 60 145                                                                              | 0.038                                                                               |
| 6685830 | 2163 TX T10 | T10                                                                                 | 80 165                                                                              | 0.039                                                                               |
| 6685910 | 2163 TX T15 | T15                                                                                 | 80 165                                                                              | 0.054                                                                               |
| 6686050 | 2163 TX T20 | T20                                                                                 | 100 185                                                                             | 0.060                                                                               |
| 6686130 | 2163 TX T25 | T25                                                                                 | 100 200                                                                             | 0.082                                                                               |
| 6686210 | 2163 TX T27 | T27                                                                                 | 115 215                                                                             | 0.098                                                                               |
| 6686480 | 2163 TX T30 | T30                                                                                 | 115 225                                                                             | 0.123                                                                               |
| 6686560 | 2163 TX T40 | T40                                                                                 | 130 240                                                                             | 0.144                                                                               |
| 6686640 | 2163 TX T45 | T45                                                                                 | 130 250                                                                             | 0.176                                                                               |

**2133**

3C Nut driver sets  
for hexagon nuts



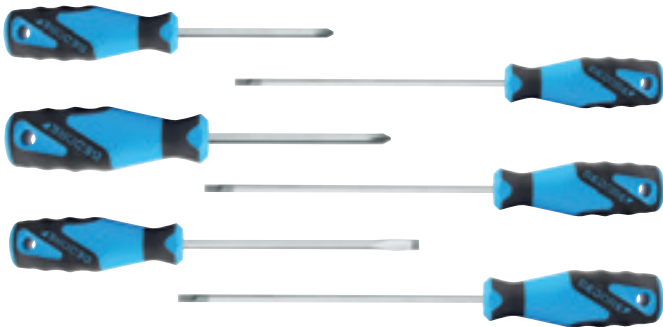
- Acc. to DIN 3125, ISO 2725-1.
- 3-component handles.
- Soft component made from thermoplastic elastomer.
- Hard component made from fibre glass reinforced plastic.
- With hanging hole.
- GEDORE molybdenum-vanadium steel.
- Head depth 25mm, blade length 125mm.



| Code    | No.      | Contents                                        | Pieces |  |
|---------|----------|-------------------------------------------------|--------|---------------------------------------------------------------------------------------|
| 1746947 | 2133-06S | 2133 5,5 6,0 7,0 8,0 9,0 10,0                   | 6      | 0.648                                                                                 |
| 1746946 | 2133-06L | 2133 8,0 9,0 10,0 11,0 12,0 13,0                | 6      | 0.937                                                                                 |
| 1746948 | 2133-09  | 2133 5,5 6,0 7,0 8,0 9,0 10,0 11,00 12,00 13,00 | 9      | 1.300                                                                                 |

2150-2160 PH-06 ELS

3C Screwdriver set  
6 pieces

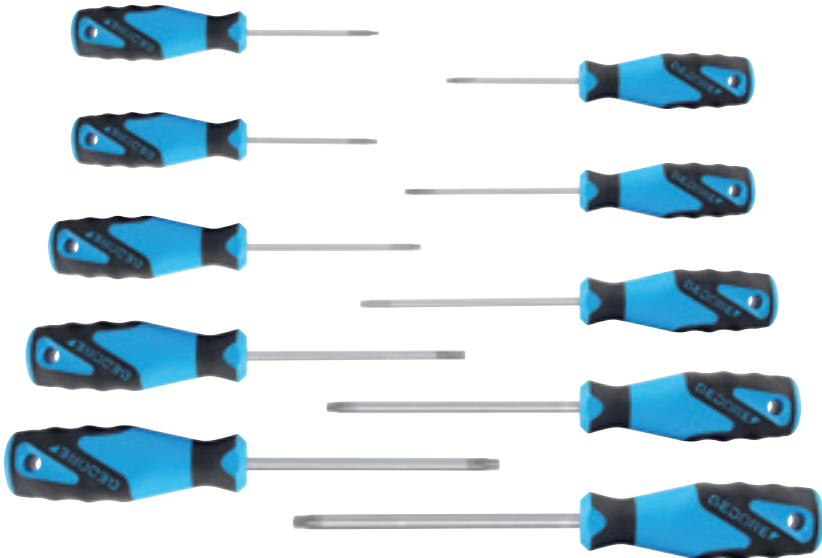


- › Practical set composition in environmentally-friendly cardboard box.
- › For slotted and cross-head screws PH.
- › 3-component handles.
- › Power-Grip<sup>3</sup> with hanging hole.
- › Ergonomic handle design enables precise and fatigue-free working.
- › Positive-fit joint of handle and blade for optimum transmission of force.
- › Type of drive marked at end of the handle.
- › Blade from GEDORE Molybdenum-Vanadium-Plus tempered steel.

| Code    | No.                 | Contents                                          | Pieces |  |
|---------|---------------------|---------------------------------------------------|--------|-------------------------------------------------------------------------------------|
| 1482320 | 2150-2160 PH-06 ELS | 2150, 6,5 3-150 4-150 6,5-200 mm<br>2160, PH, 1 2 | 6      | 0.660                                                                               |

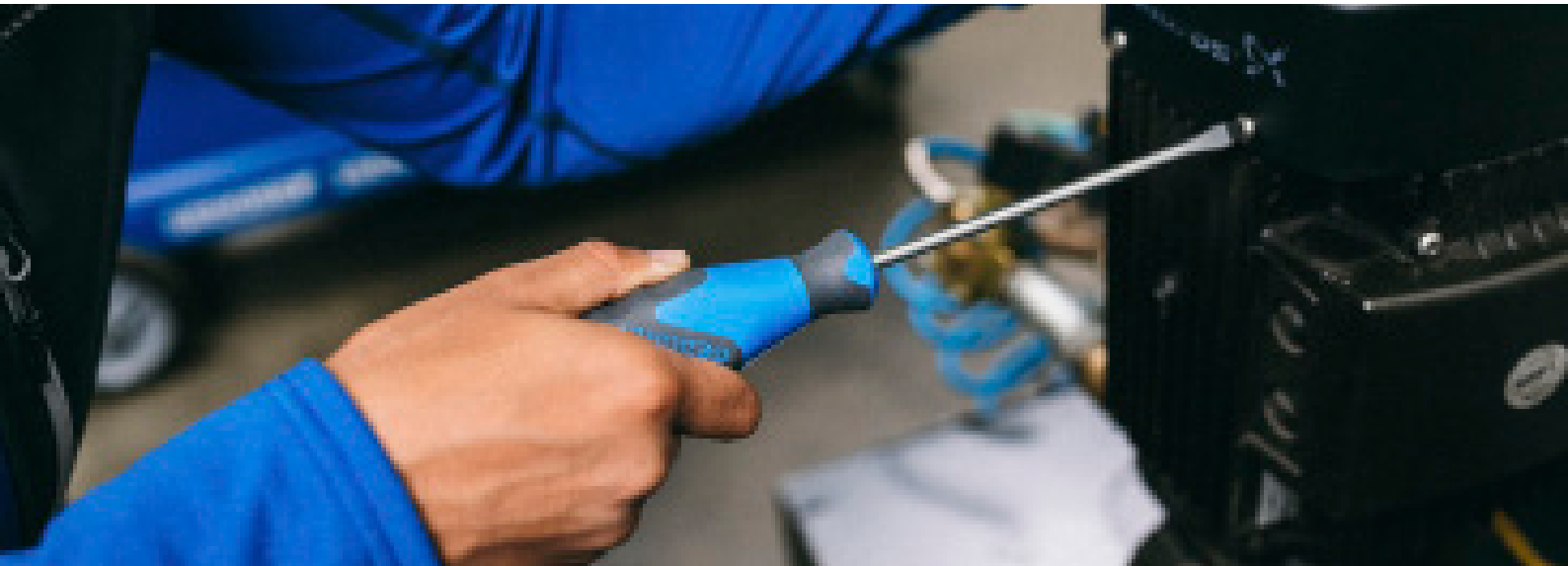
2163 TX

3C TX Screwdriver set  
10 pieces



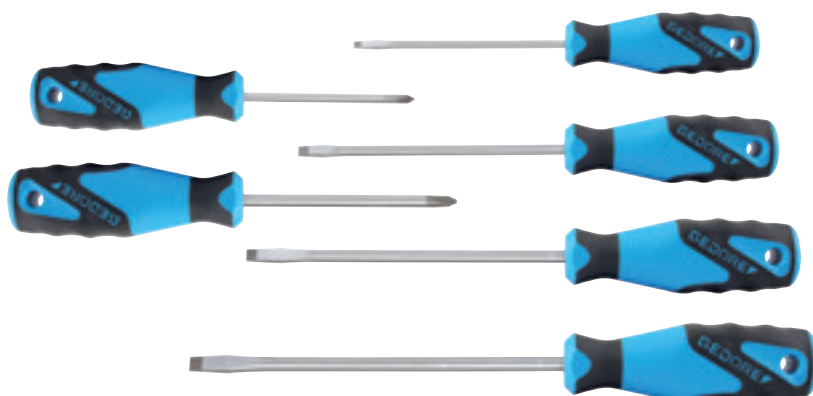
- › Practical set composition in environmentally-friendly cardboard box.
- › For recessed TX head screws.
- › 3-component handles.
- › Power-Grip<sup>3</sup> with hanging hole.
- › Ergonomic handle design enables precise and fatigue-free working.
- › Positive-fit joint of handle and blade for optimum transmission of force.
- › Type of drive marked at end of the handle.
- › Blade from GEDORE Molybdenum-Vanadium-Plus tempered steel.

| Code    | No.    | Contents                                   | Pieces |  |
|---------|--------|--------------------------------------------|--------|---------------------------------------------------------------------------------------|
| 1482335 | 2163TX | 2163, T7 T8 T9 T10 T15 T20 T25 T27 T30 T40 | 10     | 0.740                                                                                 |



## 2150-2160 PH-06 MS

3C Screwdriver set  
6 pieces

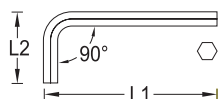


- Practical set composition in environmentally-friendly cardboard box.
- For slotted and cross-head screws PH.
- 3-component handles.
- Power-Grip<sup>3</sup> with hanging hole.
- Ergonomic handle design enables precise and fatigue-free working.
- Positive-fit joint of handle and blade for optimum transmission of force.
- Type of drive marked at end of the handle.
- Blade from GEDORE Molybdenum-Vanadium-Plus tempered steel.

| Code    | No.             | Contents                             | Pieces | kg    |
|---------|-----------------|--------------------------------------|--------|-------|
| 1482319 | 2150-2160 PH-06 | 2150, 4 5.5 6.5 8 mm<br>2160, PH, 12 | 6      | 0.660 |

## 42 (MM)

Hexagon allen keys  
for hexagon screws



- For hexagon socket head bolts.
- Chrome Vanadium steel 59CrV4.
- Gunmetal finish.
- Short series.
- In accordance with SANS 1210 and DIN 911.

| Code    | No.    | Hexagon | L1   | L2   | kg    |
|---------|--------|---------|------|------|-------|
| 6342200 | 42 0,7 | 0,7     | 33   | 7    | 0.001 |
| 6342390 | 42 0,9 | 0,9     | 33   | 11   | 0.001 |
| 6342470 | 42 1,3 | 1,3     | 41   | 13   | 0.001 |
| 6340260 | 42 1,5 | 1,5     | 46,5 | 15,5 | 0.001 |
| 6340340 | 42 2   | 2,0     | 52   | 18   | 0.002 |
| 6340420 | 42 2,5 | 2,5     | 58,5 | 20,5 | 0.004 |
| 6340500 | 42 3   | 3,0     | 66   | 23   | 0.006 |
| 6340690 | 42 4   | 4,0     | 74   | 29   | 0.011 |
| 6340770 | 42 5   | 5,0     | 85   | 33   | 0.019 |
| 6340850 | 42 6   | 6,0     | 96   | 38   | 0.031 |
| 6340930 | 42 7   | 7,0     | 102  | 41   | 0.044 |

| Code    | No.   | Hexagon | L1  | L2  | kg    |
|---------|-------|---------|-----|-----|-------|
| 6341070 | 42 8  | 8,0     | 108 | 44  | 0.061 |
| 6341150 | 42 9  | 9,0     | 114 | 47  | 0.081 |
| 6341230 | 42 10 | 10,0    | 122 | 50  | 0.106 |
| 6341231 | 42 11 | 11,0    | 129 | 53  | 0.108 |
| 6341310 | 42 12 | 12,0    | 137 | 57  | 0.169 |
| 6341580 | 42 14 | 14,0    | 154 | 70  | 0.266 |
| 6341660 | 42 17 | 17,0    | 177 | 80  | 0.430 |
| 6341740 | 42 19 | 19,0    | 180 | 87  | 0.620 |
| 6341820 | 42 22 | 22,0    | 200 | 95  | 0.950 |
| 6341900 | 42 24 | 24,0    | 224 | 110 | 1.250 |
| 6342550 | 42 27 | 27,0    | 224 | 110 | 1.760 |

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## 42 (AF)

Hexagon allen keys  
for hexagon screws



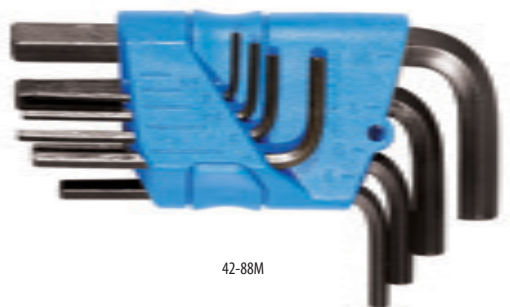
- > For hexagon socket head bolts.
- > Chrome Vanadium steel 59CrV4.
- > Gunmetal finish.
- > Short series.
- > In accordance with SANS 1210 and DIN 911.

| Code    | No.        | L  |  |
|---------|------------|----|-----------------------------------------------------------------------------------|
| 6342040 | 42 1/16 AF | 45 | 0.001                                                                             |
| 6342041 | 42 5/64 AF | 50 | 0.002                                                                             |
| 6344330 | 42 3/32 AF | 53 | 0.003                                                                             |
| 6344410 | 42 1/8 AF  | 59 | 0.005                                                                             |
| 6344411 | 42 9/64 AF | 62 | 0.007                                                                             |
| 6344680 | 42 5/32 AF | 65 | 0.009                                                                             |
| 6344760 | 42 3/16 AF | 72 | 0.015                                                                             |
| 6344840 | 42 7/32 AF | 78 | 0.020                                                                             |
| 6344920 | 42 1/4 AF  | 84 | 0.030                                                                             |
| 6345060 | 42 5/16 AF | 97 | 0.055                                                                             |

| Code    | No.         | L   |  |
|---------|-------------|-----|-------------------------------------------------------------------------------------|
| 6345140 | 42 3/8 AF   | 110 | 0.090                                                                               |
| 6345141 | 42 7/16 AF  | 114 | 0.140                                                                               |
| 6345220 | 42 1/2 AF   | 122 | 0.190                                                                               |
| 6345300 | 42 9/16 AF  | 136 | 0.270                                                                               |
| 6345490 | 42 5/8 AF   | 146 | 0.360                                                                               |
| 6345491 | 42 11/16 AF | 156 | 0.420                                                                               |
| 6345570 | 42 3/4 AF   | 175 | 0.600                                                                               |
| 6345571 | 42 7/8 AF   | 195 | 0.900                                                                               |
| 6345572 | 42 1 AF     | 218 | 1.400                                                                               |

## 42 (MM) (AF)

Hexagon allen key sets



42-88M



- > Most used sizes in a set

\*WHILE STOCKS LAST

| Code    | No.     | Contents               | Pieces |  |
|---------|---------|------------------------|--------|-------------------------------------------------------------------------------------|
| 6347510 | 42-7M   | 2 2,5 3 4 5 6 8        | 7      | 0.200                                                                               |
| 6349050 | 42-8M   | 3 4 5 6 8 10 12 14     | 8      | 0.700                                                                               |
| 6349051 | 42-88M  | 2 2,5 3 4 5 6 8 10     | 8      | 0.300                                                                               |
| 6349052 | 42-100M | 2 2,5 3 4 5 6 7 8 9 10 | 10     | 0.400                                                                               |

| Code    | No.     | Contents                                                       | Pieces |  |
|---------|---------|----------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|
| 012112  | 42-22M* | 0,7 0,9 1,3 1,5 2 2,5 3 4 5 6 7 8 9 10 11 12 14 16 17 19 22 24 | 22     | 6.200                                                                                 |
| 6349053 | 42-88P  | 3/32" 1/8" 5/32" 3/16" 7/32" 1/4" 5/16" 3/8"                   | 8      | 0.200                                                                                 |
| 6348910 | 42-9P   | 1/16" 5/64" 3/32" 1/8" 5/32" 3/16" 1/4" 5/16" 3/8"             | 9      | 0.300                                                                                 |

## 42L (MM)

Hexagon allen keys  
for hexagon screws,  
long pattern



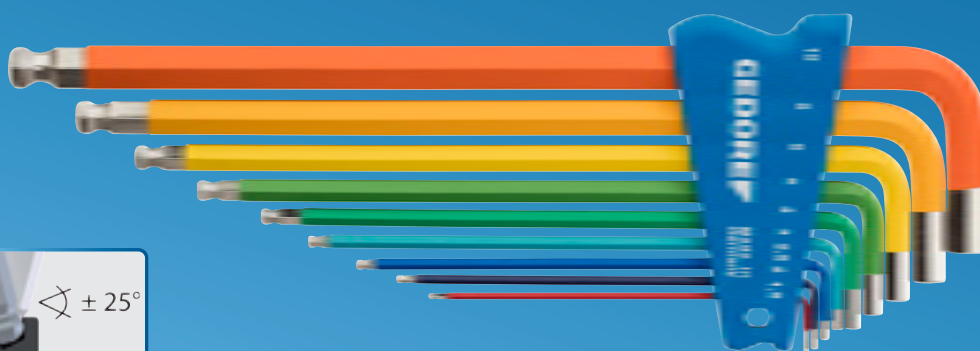
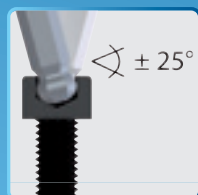
- > For hexagon socket head bolts.
- > Chrome Vanadium steel 59CrV4.
- > Gunmetal finish.
- > Long pattern for use in hard to access areas.
- > Cranked shaft, resulting in a lever effect during tightening or loosening operation.

| Code    | No.     | L   |  |
|---------|---------|-----|-------------------------------------------------------------------------------------|
| 6350809 | 42L-1,5 | 90  | 0.002                                                                               |
| 6350810 | 42L-2   | 100 | 0.003                                                                               |
| 6351030 | 42L-2,5 | 112 | 0.005                                                                               |
| 6351110 | 42L-3   | 125 | 0.008                                                                               |
| 6351380 | 42L-4   | 142 | 0.020                                                                               |
| 6351460 | 42L-5   | 163 | 0.030                                                                               |
| 6351540 | 42L-6   | 184 | 0.050                                                                               |
| 2977486 | 42L-7   | 194 | 0.070                                                                               |

| Code    | No.    | L   |  |
|---------|--------|-----|---------------------------------------------------------------------------------------|
| 6351620 | 42L-8  | 205 | 0.100                                                                                 |
| 6351621 | 42L-9  | 216 | 0.140                                                                                 |
| 6351700 | 42L-10 | 231 | 0.180                                                                                 |
| 6351890 | 42L-11 | 244 | 0.240                                                                                 |
| 6351891 | 42L-12 | 259 | 0.290                                                                                 |
| 6351970 | 42L-14 | 290 | 0.445                                                                                 |
| 6351971 | 42L-17 | 333 | 0.600                                                                                 |

## H 42 CKEL-09

Offset allen key set,  
colour coded, 9 pieces


**NEW**


- > For loosening and tightening hexagon socket screws
- > Ball head enables screwing in places that are difficult to access
- > Colour coding simplifies the assignment of the correct key width
- > Abrasion-resistant powder-coated

| Code    | No.          | Contents                       | Pieces |       |
|---------|--------------|--------------------------------|--------|-------|
| 3297470 | H 42 CKEL-09 | 42 CKEL 1,5 2 2,5 3 4 5 6 8 10 | 9      | 0.415 |

## 42L

Hexagon allen key sets,  
long pattern



> Most used sizes in a set

\*WHILE STOCKS LAST



| Code    | No.     | Contents                            | Pieces |       |
|---------|---------|-------------------------------------|--------|-------|
| 6351974 | 42L-7M* | 2 2,5 3 4 5 6 8                     | 7      | 0.200 |
| 6351975 | 42L-9M  | 1,5 2 2,5 3 4 5 6 8 10              | 9      | 0.400 |
| 6351976 | 42L-14M | 1,5 2 2,5 3 4 5 6 7 8 9 10 11 12 14 | 14     | 2.200 |

## 42KL

Hexagon allen key sets,  
for in-hex screws



- > Hexagon socket key with ball end.
- > Chrome Vanadium steel 59CrV4.
- > Gunmetal finish.

\*WHILE STOCKS LAST



| Code    | No.      | Contents                                | Pieces |       |
|---------|----------|-----------------------------------------|--------|-------|
| 6351977 | 42KL-7M* | 1,5 2 2,5 3 4 5 6                       | 7      | 0.250 |
| 6351978 | 42KL-9M  | 1,5 2 2,5 3 4 5 6 8 10                  | 9      | 0.395 |
| 6351979 | 42KL-7P  | 3/64" 1/16" 5/64" 3/32" 1/8" 1/4" 5/32" | 7      | 0.300 |

## 42T

Hexagon allen key sets,  
long pattern



- > Chrome Vanadium steel 59CrV4.
- > Blackened finish and blue polypropylene handle.
- > T-shaped handle, making tightening or loosening operations easier for users.



| Code    | No.     | L   |       | Code    | No.   | L   |       | Code    | No.    | L   |       |
|---------|---------|-----|-------|---------|-------|-----|-------|---------|--------|-----|-------|
| 2647257 | 42T-2   | 140 | 0.035 | 2647281 | 42T-4 | 182 | 0.055 | 2681439 | 42T-7  | 230 | 0.130 |
| 2647265 | 42T-2,5 | 152 | 0.040 | 2647303 | 42T-5 | 200 | 0.070 | 2667846 | 42T-8  | 240 | 0.150 |
| 2647273 | 42T-3   | 165 | 0.045 | 2647311 | 42T-6 | 220 | 0.090 | 2647338 | 42T-10 | 264 | 0.230 |



## 43TX

Cranked socket keys,  
for recessed TX screws



- > Made from Chrome Vanadium steel 59CrV4.
- > L-shaped.
- > Long pattern for use in hard to access areas.
- > Gunmetal finish.

| Code    | No.       |  |  | mm | mm    | mm | kg |
|---------|-----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|-------|----|----|
| 6363550 | 43 TX-T6  | M2                                                                                | 1,67                                                                              | 42 | 0.004 |    |    |
| 6363630 | 43 TX-T7  | M2,5                                                                              | 1,99                                                                              | 48 | 0.005 |    |    |
| 6363710 | 43 TX-T8  | M2,5                                                                              | 2,31                                                                              | 48 | 0.005 |    |    |
| 6363980 | 43 TX-T9  | M3                                                                                | 2,50                                                                              | 48 | 0.005 |    |    |
| 6364010 | 43 TX-T10 | M3-M3,5                                                                           | 2,74                                                                              | 51 | 0.008 |    |    |

| Code    | No.       |  |  | mm | mm    | mm | kg |
|---------|-----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|-------|----|----|
| 6364280 | 43 TX-T15 | M3,5-M4                                                                           | 3,27                                                                              | 54 | 0.008 |    |    |
| 6364360 | 43 TX-T20 | M4-M5                                                                             | 3,86                                                                              | 57 | 0.011 |    |    |
| 6364440 | 43 TX-T25 | M4,5-M5                                                                           | 4,43                                                                              | 60 | 0.014 |    |    |
| 6364520 | 43 TX-T27 | M4,5-M5-M6                                                                        | 4,99                                                                              | 64 | 0.022 |    |    |
| 6364600 | 43 TX-T30 | M6-M7                                                                             | 5,52                                                                              | 70 | 0.029 |    |    |

| Code    | No.       |  |  | mm  | mm    | mm | kg |
|---------|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|-------|----|----|
| 6364790 | 43 TX-T40 | M7-M8                                                                               | 6,65                                                                                | 76  | 0.041 |    |    |
| 6364870 | 43 TX-T45 | M8-M10                                                                              | 7,82                                                                                | 83  | 0.061 |    |    |
| 6364950 | 43 TX-T50 | M10                                                                                 | 8,83                                                                                | 95  | 0.087 |    |    |
| 6365090 | 43 TX-T55 | M12                                                                                 | 11,22                                                                               | 108 | 0.176 |    |    |
| 6365170 | 43 TX-T60 | M14                                                                                 | 13,25                                                                               | 120 | 0.180 |    |    |

## 43TX

Cranked socket key  
sets, for recessed  
TX screws



- > Chrome Vanadium steel 59CrV4.
- > Gunmetal finish.
- > Supplied in plastic wallet.

## 43KTX

Cranked socket keys,  
for recessed TX  
screws, with ball end



- > Made from Chrome Vanadium steel 59CrV4.
- > L-shaped.
- > Cranked shaft, resulting in a lever effect during tightening or loosening operation.
- > Blackened finish.

| Code    |  | Contents                       |  |
|---------|-------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------|
| 6360959 | 43TX-08 Plastic Holder                                                              | T9 T10 T15 T20 T25 T27 T30 T40 | 0.090                                                                               |

| Code    |  | Contents                       |  |
|---------|-------------------------------------------------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------|
| 6367897 | 43KTX-8M                                                                            | T9 T10 T15 T20 T25 T27 T30 T40 | 0.130                                                                                 |

## 42SCL

Hexagon allen key sets,  
for in-hex screws



- > Chrome Vanadium steel 59CrV4.
- > Blackened finish and blue polypropylene holder.
- > Easy to handle.
- > Indispensable pocket set for electricians.

\*WHILE STOCKS LAST

| Code    | No.       | Contents        | Pieces |  |
|---------|-----------|-----------------|--------|---------------------------------------------------------------------------------------|
| 6351972 | 42SCL-6M  | 3 4 5 6 8 10    | 6      | 0.170                                                                                 |
| 6351973 | 42SCL-7M* | 2 2,5 3 4 5 6 8 | 7      | 0.175                                                                                 |

## 43TXL

Cranked socket keys,  
for recessed TX screws



- > Made from Gedore Chrome Vanadium steel 59CrV4
- > L-shaped.
- > Long pattern for use in hard to access areas.
- > Gun-metal finish.

\*WHILE STOCKS LAST

| Code    | No.          |  M |  mm |  mm |  kg |
|---------|--------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 6367106 | 43 TXL-T6 *  | M2                                                                                  | 1,67                                                                                 | 90                                                                                   | 0.007                                                                                |
| 6367107 | 43 TXL-T7 *  | M2,5                                                                                | 1,99                                                                                 | 100                                                                                  | 0.007                                                                                |
| 6367108 | 43 TXL-T8 *  | M2,5                                                                                | 2,31                                                                                 | 110                                                                                  | 0.007                                                                                |
| 6367109 | 43 TXL-T9 *  | M3                                                                                  | 2,50                                                                                 | 124                                                                                  | 0.008                                                                                |
| 6367110 | 43 TXL-T10 * | M3-M3,5                                                                             | 2,74                                                                                 | 138                                                                                  | 0.010                                                                                |
| 6367380 | 43 TXL-T15 * | M3,5-M4                                                                             | 3,27                                                                                 | 158                                                                                  | 0.020                                                                                |
| 6367460 | 43 TXL-T20 * | M4-M5                                                                               | 3,86                                                                                 | 178                                                                                  | 0.020                                                                                |

|         |              |            |       |     |       |
|---------|--------------|------------|-------|-----|-------|
| 6367540 | 43 TXL-T25 * | M4,5-M5    | 4,43  | 190 | 0.030 |
| 6367620 | 43 TXL-T27 * | M4,5-M5-M6 | 4,99  | 200 | 0.050 |
| 6367700 | 43 TXL-T30 * | M6-M7      | 5,52  | 210 | 0.060 |
| 6367890 | 43 TXL-T40 * | M7-M8      | 6,65  | 215 | 0.085 |
| 6367891 | 43 TXL-T45 * | M8-M10     | 7,82  | 224 | 0.110 |
| 6367892 | 43 TXL-T50 * | M10        | 8,83  | 232 | 0.185 |
| 6367893 | 43 TXL-T55 * | M12        | 11,22 | 248 | 0.200 |
| 6367894 | 43 TXL-T60 * | M14        | 13,25 | 278 | 0.415 |

## 43TXL

Cranked socket key  
sets, for recessed  
TX screws



- > L-shaped.
- > Long pattern for use in hard to access areas.

## 43TV

TX gauge tester



- > Easy determination of internal or external TX sizes

\*WHILE STOCKS LAST



| Code    |  mm | Contents                                                |  kg |
|---------|----------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------|
| 6367896 | 43TXL 15 *                                                                             | T6 T7 T8 T9 T10 T15 T20 T25 T27 T30 T40 T45 T50 T55 T60 | 1.200                                                                                  |

| Code   | No.   |  kg |
|--------|-------|------------------------------------------------------------------------------------------|
| 024700 | 43TV* | 0.023                                                                                    |

## 687 / 690

Screwdriver bits



- > 687 For TX screws.
- > 690 For Phillips and POZIDRIV® screws.
- > Manufactured from high quality Molybdenum tool steel.
- > Gun metal finish.

\*WHILE STOCKS LAST

POZIDRIV® = Registered Trademark of GKN Fasteners.

| Code   | No.           |  M |  mm |  mm |  kg |
|--------|---------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 654183 | 687 TX - T6*  | M2                                                                                    | 1,67                                                                                   | 25                                                                                     | 0.005                                                                                  |
| 654191 | 687 TX - T7*  | M2,5                                                                                  | 1,99                                                                                   | 25                                                                                     | 0.005                                                                                  |
| 654205 | 687 TX - T8*  | M2,5                                                                                  | 2,31                                                                                   | 25                                                                                     | 0.005                                                                                  |
| 654213 | 687 TX - T9*  | M3                                                                                    | 2,50                                                                                   | 25                                                                                     | 0.005                                                                                  |
| 654221 | 687 TX - T10* | M3-M3,5                                                                               | 2,74                                                                                   | 25                                                                                     | 0.005                                                                                  |
| 654248 | 687 TX - T15* | M3,5-M4                                                                               | 3,27                                                                                   | 25                                                                                     | 0.005                                                                                  |
| 654256 | 687 TX - T20* | M4-M5                                                                                 | 3,86                                                                                   | 25                                                                                     | 0.005                                                                                  |

|        |               |            |      |    |       |
|--------|---------------|------------|------|----|-------|
| 654264 | 687 TX - T25* | M4,5-M5    | 4,43 | 25 | 0.005 |
| 654272 | 687 TX - T27* | M4,5-M5-M6 | 4,99 | 25 | 0.005 |
| 654280 | 687 TX - T30* | M6-M7      | 5,52 | 25 | 0.005 |
| 654299 | 687 TX - T40* | M7-M8      | 6,65 | 25 | 0.005 |
| 654124 | 690 PH 1*     |            |      | 25 | 0.005 |
| 654132 | 690 PH 2*     |            |      | 25 | 0.005 |
| 655279 | 690 PZD - 1*  |            |      | 25 | 0.005 |
| 655287 | 690 PZD - 2*  |            |      | 25 | 0.005 |

# 45-PIECE TORSION BIT SET - LOW-WEAR SCREWS

**NEW**

Torsion bit set with torsion zone to protect bits under load.

The 45-piece torsion bit set 666-045 from GEDORE is simply perfect for timber screw connections and assembly work in timber and metal construction. With the 45 pieces you have the most commonly used bit profile sizes in several designs in just one case. The bits' integrated torsion zone protects the bit profile from wear and tear and at the same time also protects the screw connection. This massively increases the bits' service life. To ensure a clear overview there is also colour coding for the individual drives, which then help when looking for the right drive.

A 1/4" square adapter is included for extra flexibility. Additional wrench sizes can then be screwed with this adapter.



45-piece torsion bit set – 666-045

**1**

EXTENSIVE ASSORTMENT  
WITH 45 PIECES

**2**

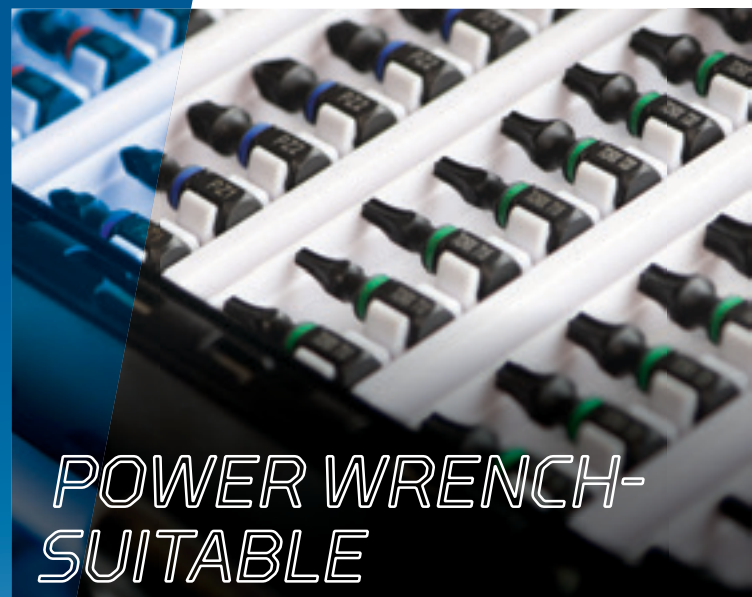
TORSION ZONE PROTECTS  
BITS FROM WEAR AND TEAR

**3**

COLOUR CODING FOR  
EASIER PROFILE  
IDENTIFICATION

**4**

1/4" ADAPTER FOR EVEN  
MORE FLEXIBILITY

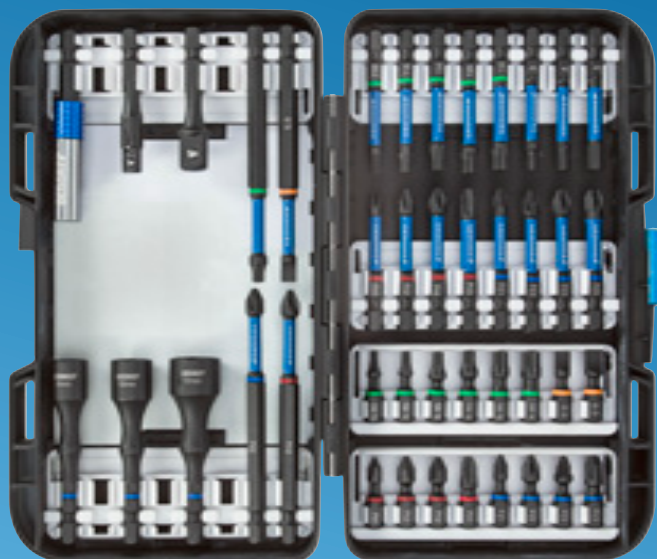


POWER WRENCH-  
SUITABLE

**666-045**Torsions bit set  
45 pieces**NEW**

- › Extensive assortment with the most common bit profile sizes
- › Bits with torsion zone to protect the bit profile from wear and tear
- › Color coding simplifies profile identification and assignment
- › 1/4" square adapter for more flexibility

| Code    | No.     | Contents                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Width mm | Height mm | Depth mm | Pieces |       |
|---------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|----------|--------|-------|
| 3459519 | 666-045 | 1/4" Screwdriver bits PH 1 1 2 2 2 2 3 3<br>1/4" Screwdriver bits PZ 1 1 2 2 2 2 3 3<br>1/4" TX T10 T10 T15 T15 T20 T20 T20 T25 T25 T25 T30 T30 T40 T40<br>1/4 Internal hex 3 3 4 4 5 5 6 8 mm<br>Socket, magnetic, with 1/4" hexagon drive 8mm, L.67mm<br>Socket, magnetic, with 1/4" hexagon drive 10mm, L.67mm<br>Socket, magnetic, with 1/4" hexagon drive 13mm, L.67mm<br>Drive adapter 1/4" hexagon x 1/4" square, L. 50mm<br>1/4" Bit-Adapter with safety device | 190      | 45        | 120      | 45     | 0.570 |

**666-042**Torsions bit set  
42 pieces**NEW**

- › Torsion zone to protect bits under load. Peak torques are gently cushioned, which increases the lifetime
- › Incl. extremely slim, self-locking magnetic bit holder with quick change function
- › Suitable for use in Impact sockets

| Code    | No.     | Contents                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Width mm | Height mm | Depth mm | Pieces |       |
|---------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|----------|--------|-------|
| 3100316 | 666-042 | 1/4" Bits, 25mm: 1/4" slotted 5,5, 6,5 mm, 1/4" PH 1 2 2 3<br>1/4" PH 1 2 2 3, 1/4" PZ 1 2 2 3, 1/4" TX T10 T15 T20 T25 T30 T40<br>1/4" Bits, 50mm: 1/4" hexagon 3 4 5 mm, 1/4" PH 1 2 2 3, 1/4" PZ 1 2 2 3, 1/4" TX T10 T15 T20 T25 T30<br>1/4" Bits, 88.9mm: 1/4" slotted 5,5 mm, 1/4" PH 2, 1/4" PZ 2, 1/4" TX T25<br>Drive adapter 1/4" hexagonal x 1/4" square, L. 50mm<br>Drive adapter 1/4" hexagonal x 3/8" square, L. 50mm<br>Socket, magnetic, with 1/4" hex drive 8mm, L.67mm<br>Socket, magnetic, with 1/4" hex drive 10mm, L.67mm<br>Socket wrench insert, magnetic, with 1/4" hex drive 13mm, L.67mm<br>Bit-Holder 1/4, One-touch Slim Lock, L.66,5mm | 190      | 45        | 120      | 42     | 0.670 |



# PLIERS

A firm grip on everything: you have to be able to rely on pliers. They should grip securely, easy to use, last as long as possible and not damage the workpiece. The functionality, quality and user-friendliness of a pair of pliers are determined not only by the design, but above all by the manufacturing process.

GEDORE pliers are forged in our own factories and manufactured at GEDORE Austria - the competence centre for pliers. The current range extends from the smallest telephone pliers to the largest pipe wrenches, and using GEDORE pliers is guaranteed to pay off.

High cutting performance, extreme strength and reliable surface protection are the results of many years of forging expertise and processes such as oil hardening and inductive post-hardening.

In the application, the interplay of perfect cutting edge geometry, optimised joints and ergonomic handles make all the difference. The GEDORE power pliers range is outstanding in every respect: maximum power transmission with minimum effort.



## POWER PLIERS - GEDORE POWER PLIERS



- Inlaid joint for optimum power transmission
- Maximum leverage due to shifting of the pivot point
- 35% less force required with higher cutting and clamping performance



# RING LEADER



## THE FULL PROGRAMME

- Wide range of pliers for specialists and artisans
- For wire classes from soft and medium-hard to hard and piano wire
- Available individually or in practical sets

# i POWER COMBINATION PLIERS

Power pliers: The effort required in using them is down 35 % on account of the pivot transferred to the front and the resulting lengthened lever.



1

Gripping surface with file-cut for a particularly effective hold

2

Roughly toothed gripping surfaces for securely holding screws, pipes etc.

3

Maximum cutting performance yet with a low level of effort expended thanks to an optimum interaction of cutting geometry, eccentric rivet bearing and ergonomic handle design.

4

Inductively hardened cutting edges (62 - 64 HRC) ensure constant cutting power over a long time span.

5

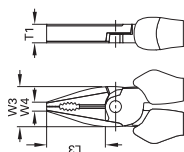
High-grade 2-component handles with finger protection enable work to be done ergonomically and to the exclusion of tiredness

## 8250

Power combination pliers



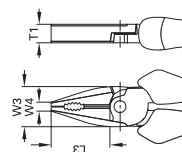
- > For heavy continuous use
- > High leverage for easier work
- > Induction hardened precision cutting edges, extra long, cutting edge hardness 62 - 64 HRC
- > For round and flat material



## 8250-225 TL

Power combination pliers

- > For heavy, continuous use.
- > Good lever action for easy cutting.
- > Induction hardened precision cutting edge.
- > Hardness approximately 63HRC.
- > To cut all wire types, including piano wire.
- > DIN ISO 5756.



| Code    | No.         | L   | L3   | W3   | W4  | T1   |       |
|---------|-------------|-----|------|------|-----|------|-------|
| 6707070 | 8250-180 JC | 180 | 38   | 25,6 | 6,5 | 11,0 | 0.282 |
| 6707310 | 8250-200 JC | 200 | 39,5 | 27,0 | 6,5 | 12,4 | 0.360 |

| Code    | No.         | L   | L3   | W3   | W4  | T1   |       |
|---------|-------------|-----|------|------|-----|------|-------|
| 6708040 | 8250-225 TL | 225 | 42,2 | 27,7 | 6,5 | 13,0 | 0.351 |

## 8260

Fencing pliers



- > For heavy duty, continuous use.
- > CrV material.
- > Hardened and tempered.
- > Cutting edges induction hardened.



| Code   | No.      | L   |       |
|--------|----------|-----|-------|
| 670250 | 8260-250 | 250 | 0.570 |
| 670300 | 8260-300 | 310 | 0.930 |

## 8280 E-200

VDE combination Linesman pliers

- > Surface finish: Phosphated and polished.
- > Induction-hardened precision cutting edges: hardness 62-64 HRC.
- > Gedore Vanadium steel 31CrV3.
- > Crimp profile for wire up to 10mm<sup>2</sup>.
- > Up to 1000V
- > Sleeves in flame retardant polymer.



| Code   | No.        | L   | Safety (Up to) |       |
|--------|------------|-----|----------------|-------|
| 029450 | 8280 E-200 | 250 | 1000V          | 0.365 |

# i POWER SIDE CUTTER



1

Inductively hardened cutting edges (63 - 65 HRC) ensure constant cutting power over a long time span.

2

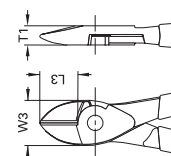
Maximum cutting performance yet with a low level of effort expended thanks to an optimum interaction of cutting geometry, eccentric rivet bearing and ergonomic handle design.

## 8316 Power side cutters



- > Good lever action for easy cutting
- > For hard wire/piano wire
- > Max. cutting performance 1,4 - 2,0 mm
- > Induction hardened cutting edges 63 - 65 HRC
- > Highest cutting performance with less effort

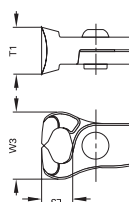
\*WHILE STOCKS LAST



| Code    | No.          | L   | L3 | W3   | T1  | Ø   | kg    |
|---------|--------------|-----|----|------|-----|-----|-------|
| 6711930 | 8316-140 TL* | 140 | 17 | 22,0 | 9,5 | 1,4 | 0.146 |
| 6744190 | 8316-140 JC  | 140 | 17 | 22,0 | 9,5 | 1,4 | 0.175 |

| Code    | No.         | L   | L3 | W3   | T1   | Ø   | kg    |
|---------|-------------|-----|----|------|------|-----|-------|
| 6744510 | 8316-160 JC | 160 | 19 | 24,5 | 10,0 | 1,6 | 0.236 |
| 6745080 | 8316-200 JC | 200 | 22 | 28,0 | 11,0 | 2,0 | 0.340 |

## 8380 Tower pincer



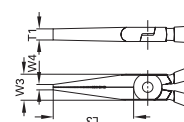
- > Heavy-duty wire braid and mesh-cutting pincers
- > Induction-hardened precision cutting edges, hardness 61 - 63 HRC
- > For medium-hard wire 1.6 mm

\*WHILE STOCKS LAST



| Code    | No.          | L   | L3 | W3   | T1   | kg    |
|---------|--------------|-----|----|------|------|-------|
| 6752020 | 8380-225 TL* | 230 | 16 | 31,0 | 22,0 | 0,358 |
| 6752100 | 8380-250 TL  | 250 | 16 | 35,0 | 25,0 | 0,423 |

## 8120 Flat nose pliers



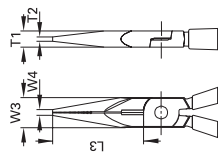
- > With long jaws, serrated gripping faces
- > For holding and bending



| Code    | No.         | L   | L3 | W3   | W4  | T1  | kg    |
|---------|-------------|-----|----|------|-----|-----|-------|
| 6715170 | 8120-160 JC | 160 | 51 | 16,5 | 3,4 | 9,0 | 0.170 |
| 6710370 | 8120-160 TL | 160 | 51 | 16,5 | 3,4 | 9,0 | 0.133 |

**8132**

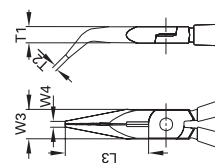
Telephone pliers



- > Long, flat-round jaws, straight gripping faces, serrated
- > For holding, gripping, bending and cutting
- > Induction-hardened precision cutting edges, hardness 61 - 63 HRC

**8132 AB**

Telephone pliers, with cutting edge, serrated, straight pattern



- > Long, flat-round jaws, straight gripping faces, serrated
- > tips 45° angled
- > Induction-hardened precision cutting edges, hardness 61 - 63 HRC

\*WHILE STOCKS LAST

| Code    | No.         | L   | L3   | W3   | W4  | T1  | T2  |       |
|---------|-------------|-----|------|------|-----|-----|-----|-------|
| 6718860 | 8132-140 JC | 140 | 42   | 15,0 | 2,5 | 7,8 | 2,0 | 0.125 |
| 6710610 | 8132-140 TL | 140 | 42   | 15,0 | 2,5 | 7,8 | 2,0 | 0.104 |
| 6719240 | 8132-160 JC | 160 | 50   | 16,5 | 3,2 | 9,0 | 2,5 | 0.166 |
| 6719670 | 8132-200 JC | 200 | 75,7 | 18,5 | 3,7 | 9,5 | 2,8 | 0.225 |

| Code    | No.             | L   | L3   | W3   | W4  | T1  | T2  |       |
|---------|-----------------|-----|------|------|-----|-----|-----|-------|
| 6720920 | 8132 AB-160 JC  | 160 | 46   | 16,5 | 3,2 | 9,0 | 2,5 | 0.163 |
| 6711180 | 8132 AB 160 TL* | 160 | 46   | 16,5 | 3,2 | 9,0 | 2,5 | 0.125 |
| 6721300 | 8132 AB-200 JC  | 200 | 70,5 | 18,5 | 3,7 | 9,5 | 2,8 | 0.225 |
| 6711260 | 8132 AB-200 TL* | 200 | 70,5 | 18,5 | 3,7 | 9,5 | 2,8 | 0.190 |

**MULTIPLE PLIERS****1**

GRIPPING FACES WITH FILECUT FOR SAFE HOLDING

**2**STRIPPING OF WIRE SIZES 0.5/1.5/2.5 MM<sup>2</sup>**3**SQUEEZING OF INSULATED FLAT PLUGS 1.0-2.5 MM<sup>2</sup>**4**

CUTTING EDGE INDUCTION HARDENED (62 - 64 HRC)

**5**CRIMPING OF CONDUCTOR ENDSLEEVES 0.5-2.5 MM<sup>2</sup>**8133**

Multiple pliers



- > Holding, cutting, insulation-stripping, crimping, squeezing
- > Flat-round jaws, straight gripping faces, serrated
- > Induction-hardened precision cutting edges, hardness 62 - 64 HRC
- > For medium-hard wire 1.6 mm

| Code    | No.         | L   |       |
|---------|-------------|-----|-------|
| 6722110 | 8133-180 JC | 180 | 0.180 |



**8136**

Mechanic's pliers,  
without wire cutter,  
straight pattern



- > According to DIN ISO 5745.
- > Flat-round tapered jaws, cross-hatched gripping surfaces.
- > For holding, gripping and bending.
- > Fine-tipped nose, for safe work in confined spaces.
- > Drop-forged, oil-hardened and annealed.



| Code    | No.        | L   |  |
|---------|------------|-----|-----------------------------------------------------------------------------------|
| 6722890 | 8136-200TL | 200 | 0.178                                                                             |

**S 8003 JC**

Pliers set  
3 pieces



> Practical set composition



| Code    | No.       | Contents                                                                                                                                                                                             |  |
|---------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 6701110 | S 8003 JC | Flat nose pliers No. 8132-160 JC, 160 mm, -component handle<br>Power combination pliers No. 8250-180 JC, 180 mm, 2-component handle<br>Power side cutter No. 8316-160 JC, 160 mm, 2-component handle | 0.766                                                                               |

**S 8303 JC**

Pliers set  
3 pieces



> Practical set composition



| Code    | No.        | Contents                                                                                                                                                                                                            |  |
|---------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 6703160 | S 8303 JC* | Universal pliers No. 142 10 JC, 10", 15-way adjustable, 2-component handle<br>Power combination pliers No. 8250-180 JC, 180 mm, 2-component handle<br>Power side cutter No. 8316-160 JC, 160 mm, 2-component handle | 1.005                                                                               |

**S 8393 JC**

Pliers set  
3 pieces



> Practical set composition



| Code    | No.    | Contents                                                                                                                                                  |  |
|---------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 3012859 | S 8393 | 10" water pump pliers No. 142 10 TL<br>Power combination pliers No. 8250-200 JC, 200 mm 2C handle<br>Power side cutters No. 8314-180 JC, 180 mm 2C handle | 1.066                                                                                 |

**1102-003**

Pliers set  
3 pieces



> Practical set composition  
> In GEDORE L-BOXX® Mini, incl. divider set

\*WHILE STOCKS LAST

| Code    | No.       | Contents                                                                                                                                                                 |  |
|---------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1692305 | 1102-003* | Flat nose pliers No. 8132-160 JC, 160 mm 2C handle<br>Power combination pliers No. 8250-180 JC, 180 mm 2C handle<br>Power side cutters No. 8316-180 JC, 180 mm 2C handle | 0.940                                                                                 |



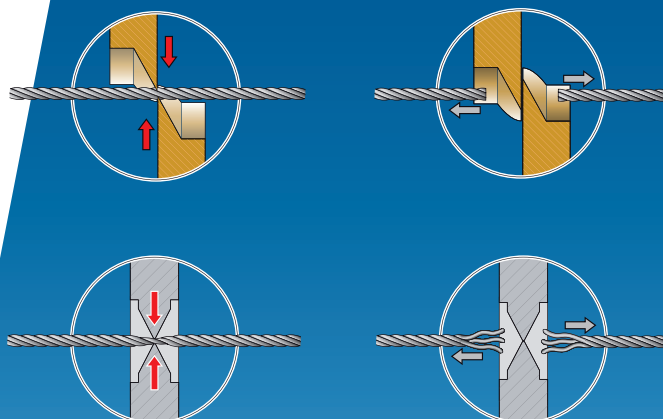
# i SAFE CUT

## WIRE ROPE CUTTER

- Shearing cut - the cutting plates slide past each other and in this way dissect the material.
- The wire rope is cleanly cut and retains its circular crosssection. It does not fan out.

## BOLT CUTTER

- Notch cut; the cutters press into the material and create a notch. The material is compacted and thus separated.
- The wire rope is compressed and thus loses its circular crosssection at the cut. The wire rope fans out as a result.



## SPLICING

The old seafaring ability to separate the rope into its individual strands so as to then braid them into a loop or lengthen the rope with another rope without knotting.

## FANNING OUT

Fanning out - that is separating off into individual strands - is not wanted when cutting wire ropes. It is a very laborious business to splice wire ropes. That is why more up-to-date ways are available to incorporate loops in wire ropes. However, they require a smooth cut without any spliced strands.

## 8320 JC

Wire rope cutters



- › Easy-to-change cutting plates
- › Extremely soft shearing cut reliably prevents the wire rope from fanning out
- › Specially arched cutting edges
- › Hardness 62 - 65 HRC
- › 2 integrated press profiles for Bowden cable end caps and Bowden cable sheath end caps
- › Wire ropes up to 1800 N/mm<sup>2</sup> with max. 6 mm Ø (e.g. stainless steel wire ropes, wire ropes with steel and textile cables, Bowden cables, shrouds)
- › Wire up to 750 N/mm<sup>2</sup> with max. 4 mm Ø (e.g. nails/wire pins, screws, bolts, ceiling hangers)
- › Single and multicore copper and aluminium cables with max. 6 mm Ø
- › Adjustable joint for precise cutting plate guidance
- › Latch to prevent unwanted opening

\*WHILE STOCKS LAST

| Code    | No.          | L   |
|---------|--------------|-----|
| 2788799 | 8320-200 JC* | 200 |



0,48

## 8146

Wire stripper, self adjusting



- › With flat blade
- Stripping capacity:**
  - › No. 8146-1 with flat blade: 0.02-10 mm<sup>2</sup>/AWG 34-8 (for PVC insulation)
  - › No. 8146-2 with circular blade: 4-16 mm<sup>2</sup>/AWG 10-5
  - › No. 8146-3 with V-blade: PTFE 0.1-4 mm<sup>2</sup>/AWG 28-12 (for all insulations)
- › Flexible Leiter bis zu 10 mm<sup>2</sup>/AWG 8
- › Rigid wires up to 1.5 mm<sup>2</sup> / AWG 16

\*WHILE STOCKS LAST

## 8147

Heavy-duty cable stripping tool



- › Professional wire stripping tool with 2 cable hooks
- › For cables (up to 40 mm Ø) with any kind of insulation
- › Possibility to lock the blade in one of 3 positions (circular, straight or spiral cuts)
- › Cable capacity: 4.5 - 40 mm Ø
- › Insulation thickness: up to 4.5 mm

\*WHILE STOCKS LAST

| Code    | No.     | Designation                                     | mm <sup>2</sup> | AWG  |       |
|---------|---------|-------------------------------------------------|-----------------|------|-------|
| 1830805 | 8146*   | Stripping pliers including module insert 8146-1 | 0,02-10         | 34-8 | 0.18  |
| 1830813 | 8146-1* | Module insert with flat blade                   | 0,02-10         | 34-8 | 0.015 |
| 1830821 | 8146-2* | Module insert with round blade                  | 4-16            | 10-5 | 0.016 |

| Code    | No.   | Ø         |       |
|---------|-------|-----------|-------|
| 1830856 | 8147* | 4,5-40 mm | 0.196 |

| Code    | No.     |       |
|---------|---------|-------|
| 1884719 | E-8147* | 0.002 |

## 8148

Precision stripping tool



- › Precision adjustment of cutting depth (adjuster wheel with 9 positions)
- › Replaceable blade
- › Stripping capacity: 2.5 - 11 mm
- › Insulation thickness: up to 1.0 mm

\*WHILE STOCKS LAST

| Code    | No.   | Ø           | L    | kg    |
|---------|-------|-------------|------|-------|
| 1830864 | 8148* | 2,5 - 11 mm | 90,5 | 0.043 |

| Code    | No.     | kg    |
|---------|---------|-------|
| 1884727 | E-8148* | 0.002 |

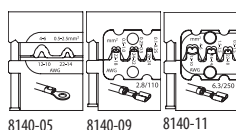
## S 8140 A

Crimping plier set, automotive



- › Practical set made up for specific requirements in automotive engineering.
- › Ideal for high-standard crimping.
- › Can be individually upgraded by purchasing additional module inserts.
- › Module inserts changeable without tools.
- › In practical blister packaging.

\*WHILE STOCKS LAST



| Code    | No.       | Contents                    | Pieces | kg    |
|---------|-----------|-----------------------------|--------|-------|
| 1830910 | S 8140 A* | 8140<br>8140 - 09 - 05 - 11 | 4      | 0.754 |

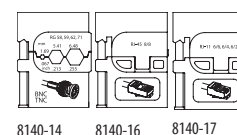
## S 8140 D

Crimping plier set, data com



- › Practical set made up for specific requirements in data-communications installations.
- › Ideal for high-standard crimping.
- › Can be individually upgraded by purchasing additional module inserts.
- › Module inserts changeable without tools.
- › In practical blister packaging.

\*WHILE STOCKS LAST



| Code    | No.       | Contents                    | Pieces | kg    |
|---------|-----------|-----------------------------|--------|-------|
| 1830937 | S 8140 D* | 8140<br>8140 - 14 - 16 - 17 | 4      | 0.711 |

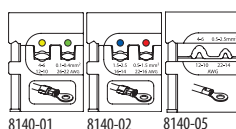
## S 8140 E

Crimping plier set, electronic



- › Practical set made up for specific requirements for electricians.
- › Ideal for high-standard crimping.
- › Can be individually upgraded by purchasing additional module inserts.
- › Module inserts changeable without tools.
- › In practical blister packaging.

\*WHILE STOCKS LAST



| Code    | No.       | Contents                    | Pieces | kg   |
|---------|-----------|-----------------------------|--------|------|
| 1830899 | S 8140 E* | 8140<br>8140 - 01 - 02 - 05 | 4      | 0.76 |

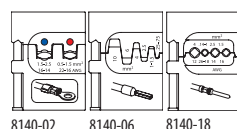
## S 8140 J

Crimping plier set, industrial



- › Practical set made up for specific requirements in industrial maintenance.
- › Ideal for high-standard crimping.
- › Can be individually upgraded by purchasing additional module inserts.
- › Module inserts changeable without tools.
- › In practical blister packaging.

\*WHILE STOCKS LAST



| Code    | No.       | Contents                    | Pieces | kg    |
|---------|-----------|-----------------------------|--------|-------|
| 1830929 | S 8140 J* | 8140<br>8140 - 02 - 06 - 18 | 4      | 0.752 |

## i CIRCLIP PLIERS



FOR RETAINING RINGS AS PER DIN 472, DIN 984.

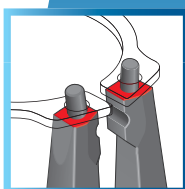
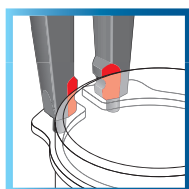
DIN 5256 FORM C.

STRAIGHT TIPS.

FORGED GEDORE CHROME VANADIUM SPECIAL HARDENED AND TEMPERED STEEL.

PRECISION MACHINED, OIL HARDENED AND ANNEALED.

BLACK, WITH BLUE DIPPED HANDLES.



### 8000 A0 - A4 - STRAIGHT

Circlip pliers for external retaining rings, form A



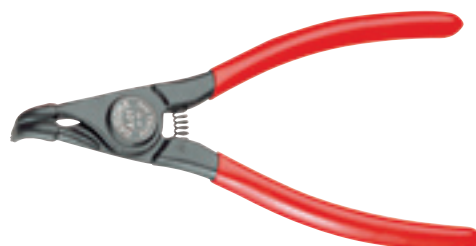
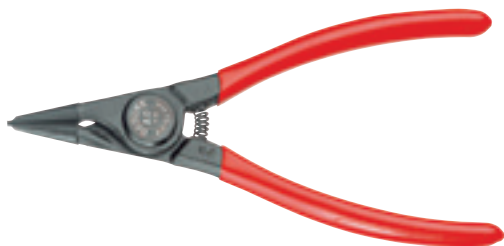
- > For retaining rings as per DIN 471, DIN 983.
- > DIN 5254 Form A.
- > Straight tips.
- > With opening spring.
- > With clamping protection.
- > Forged Gedore Chrome Vanadium special hardened and tempered steel.
- > Precision machined, oil hardened and annealed.
- > Black, with red dipped handles.

### 8000 A01 - A41 - BENT

Circlip pliers for external retaining rings, form B



- > For retaining rings as per DIN 471, DIN 983.
- > DIN 5254 Form B.
- > 90° angled tips.
- > With opening spring.
- > With clamping protection.
- > Forged Gedore Chrome Vanadium special hardened and tempered steel.
- > Precision machined, oil hardened and annealed.
- > Black, with red dipped handles.



| Code    | No.      | mm     | inch        | L   | kg    |
|---------|----------|--------|-------------|-----|-------|
| 6701380 | 8000 A 0 | 3-10   | 5/32-3/8    | 141 | 0.096 |
| 6701460 | 8000 A 1 | 10-25  | 3/8-1       | 141 | 0.098 |
| 6701540 | 8000 A 2 | 19-60  | 3/4-2.3/8   | 182 | 0.186 |
| 6701620 | 8000 A 3 | 40-100 | 1.5/8-4     | 230 | 0.310 |
| 6701700 | 8000 A 4 | 85-140 | 3.3/8-5.1/2 | 320 | 0.555 |

| Code    | No.       | mm     | inch        | L   | kg    |
|---------|-----------|--------|-------------|-----|-------|
| 6702270 | 8000 A 01 | 3-10   | 5/32-3/8    | 130 | 0.097 |
| 6702350 | 8000 A 11 | 10-25  | 3/8-1       | 130 | 0.097 |
| 6702430 | 8000 A 21 | 19-60  | 3/4-2.3/8   | 170 | 0.182 |
| 6702510 | 8000 A 31 | 40-100 | 1.5/8-4     | 210 | 0.317 |
| 6702780 | 8000 A 41 | 85-140 | 3.3/8-5.1/2 | 305 | 0.563 |

## 8000 A5 - STRAIGHT

Circlip pliers for  
external retaining rings



- > Straight tips.
- > Black, tips and lock lever zinc plated.
- > The toothed bracket stops the plier legs from straddling beyond the permitted working area.
- > This ensures safe working even in concealed fitting positions.
- > Locking pin can be replaced.
- > Non-crush type release lever with handle recesses, red dip insulated.
- > E-8000 A = pair of spare tips.



| Code    | No.                   | mm      | inch           | L   | kg    |
|---------|-----------------------|---------|----------------|-----|-------|
| 6701890 | 8000 A 5              | 122-300 | 4.13/16-11.7/8 | 550 | 1.900 |
| Code    | No.                   |         |                |     |       |
| 5701840 | E-8000 A 5 Spare Tips |         |                |     |       |
|         |                       |         |                |     | 0.072 |

## 8000 A 51 - BENT

Circlip pliers for  
external retaining rings



- > 90° angled tips.
- > Tips and lock lever zinc plated.
- > Lever handle end red dip insulated.
- > Finger protection.
- > Reinforced safety arms.
- > Precision machined, oil hardened and annealed.
- > E-8000 A = pair of spare tips.



| Code    | No.                    | mm      | inch           | L   | kg    |
|---------|------------------------|---------|----------------|-----|-------|
| 6702860 | 8000 A 51              | 122-300 | 4.13/16-11.7/8 | 560 | 1.898 |
| Code    | No.                    |         |                |     |       |
| 5702810 | E-8000 A 51 Spare Tips |         |                |     |       |
|         |                        |         |                |     | 0.112 |

## 8000 J0 - J4 - STRAIGHT

Circlip pliers for  
internal retaining rings, form C



- > For retaining rings as per DIN 472, DIN 984.
- > DIN 5256 Form C.
- > Straight tips.
- > Forged Gedore Chrome Vanadium special hardened and tempered steel.
- > Precision machined, oil hardened and annealed.
- > Black, with blue dipped handles.



| Code    | No.      | mm     | inch        | L   | kg    |
|---------|----------|--------|-------------|-----|-------|
| 6703240 | 8000 J 0 | 8-13   | 3/8-9/16    | 141 | 0.080 |
| 6703320 | 8000 J 1 | 12-25  | 3/8-1       | 141 | 0.081 |
| 6703400 | 8000 J 2 | 19-60  | 3/4-2.3/8   | 183 | 0.164 |
| 6703590 | 8000 J 3 | 40-100 | 1.5/8-4     | 230 | 0.281 |
| 6703670 | 8000 J 4 | 85-140 | 3.3/8-5.1/2 | 322 | 0.472 |

## 8000 J 01 - J 41 - BENT

Circlip pliers for  
internal retaining rings, form D



- > For retaining rings as per DIN 472, DIN 984
- > DIN 5256 Form D.
- > 90° angled tips.
- > Forged Gedore Chrome Vanadium special hardened and tempered steel.
- > Precision machined, oil hardened and annealed.
- > Black, with blue dipped handles.



| Code    | No.       | mm     | inch        | L   | kg    |
|---------|-----------|--------|-------------|-----|-------|
| 6704130 | 8000 J 01 | 8-13   | 3/8-9/16    | 129 | 0.080 |
| 6704210 | 8000 J 11 | 12-25  | 3/8-1       | 129 | 0.082 |
| 6704480 | 8000 J 21 | 19-60  | 3/4-2.3/8   | 169 | 0.161 |
| 6704560 | 8000 J 31 | 40-100 | 1.5/8-4     | 214 | 0.279 |
| 6704640 | 8000 J 41 | 85-140 | 3.3/8-5.1/2 | 292 | 0.484 |

8000 J5 -  
STRAIGHT

Circlip pliers for  
internal retaining rings



- > Straight tips.
- > Black, tips and lock lever zinc plated.
- > The toothed bracket stops the plier legs from straddling beyond the permitted working area.
- > This ensures safe working even in concealed fitting positions.
- > Locking pin can be replaced.
- > Non-crush type release lever with handle recesses, blue dip insulated.
- > Precision machined, oil hardened and annealed.
- > E-8000 J = pair of spare tips.



| Code    | No.      | mm      | inch           | L   | kg    |
|---------|----------|---------|----------------|-----|-------|
| 6703750 | 8000 J 5 | 122-300 | 4.13/16-11.7/8 | 565 | 1.836 |

| Code    | No.                   | kg    |
|---------|-----------------------|-------|
| 5703700 | E-8000 J 5 Spare Tips | 0.072 |

8000 J 51 -  
BENT

Circlip pliers for  
internal retaining rings



- > 90° angled tips.
- > Black, tips and lock lever zinc plated.
- > Lever handle end blue dip insulated.
- > Finger protection.
- > Reinforced safety arms.
- > Precision machined, oil hardened and annealed.
- > E-8000 J = pair of spare tips.



| Code    | No.       | mm      | inch           | L   | kg    |
|---------|-----------|---------|----------------|-----|-------|
| 6704720 | 8000 A 51 | 122-300 | 4.13/16-11.7/8 | 575 | 1.898 |

| Code    | No.                    | kg    |
|---------|------------------------|-------|
| 5704780 | E-8000 J 51 Spare Tips | 0.116 |

S 8000

Circlip pliers for  
external retaining rings



- > Most popular sizes, packed in environmentally friendly cardboard box.
- > Particularly suitable for barely accessible places.
- > For internal and external circlip rings.
- > With straight and 90° angled tips.

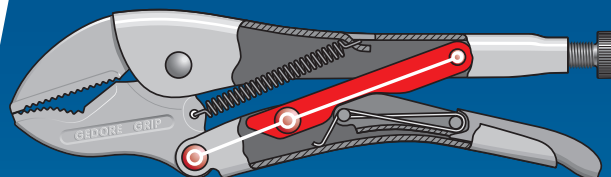
| Code    | No.    | Contents                   | Pieces | kg    |
|---------|--------|----------------------------|--------|-------|
| 6701030 | S 8000 | 8000 A2 A21<br>8000 J2 J21 | 4      | 0.750 |



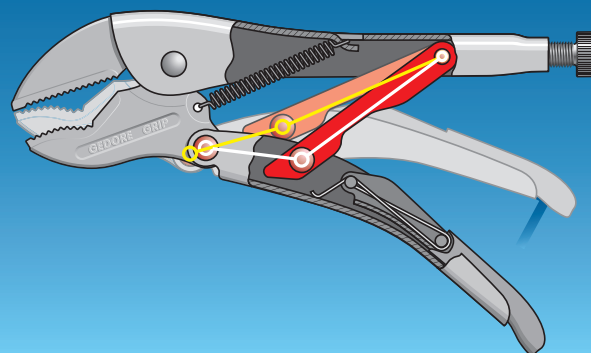
# i THE TOGGLE LEVER

## A giant among the joints

- Similar in construction to the human leg and consisting of hip, knee and ankle joints
- The knee joint's intelligent power management is its unbeatable advantage:
- Clever utilization of the physical lever laws \*)
- Rapid and powerful even with a reduced operating force
- Ideal for optimum pressure and clamping operations
- Maximum pressing/clamping force with knee lever extended – even with automatic locking effect i.e. self-clamping effect (e.g. with grip pliers) relieved by operating the releasing lever
- Constant high quality of work



SELF-CLAMPING EFFECT - CAN ONLY BE CANCELLED BY OPERATING THE RELEASING LEVER!



## 137 Grip wrenches

- > For secure clamping, gripping and holding.
- > Chrome Vanadium steel 31CrV3.
- > Nickel plated.
- > Jaws hardened to 50HRC. Three-point shaped bottom jaw, upper jaw with wire groove.
- > With adjusting screw and release lever with moulded plastic grip.
- > Safe release.



| Code   | No.     | L   | inch | mm | inch  | kg    |
|--------|---------|-----|------|----|-------|-------|
| 640662 | 137-175 | 185 | 7"   | 25 | 1     | 0.293 |
| 640670 | 137-250 | 230 | 10"  | 32 | 1.1/4 | 0.546 |

## 134 Straight jaw grip wrench

- > For secure clamping, gripping and holding.
- > Chrome Vanadium steel 31CrV3.
- > Nickel plated.
- > Jaws hardened to 50HRC.
- > With adjusting screw and release lever with moulded plastic grip.
- > Safe release.



| Code   | No. | L   | mm | kg    |
|--------|-----|-----|----|-------|
| 745995 | 134 | 230 | 25 | 0.570 |

## 138 Welder's grip wrench

- > For clamping strips and profile sections when welding.
- > Cast steel jaws.
- > Nickel plated.
- > Release lever blue dip insulated.



| Code    | No. | L   | inch | mm | kg    |
|---------|-----|-----|------|----|-------|
| 6407350 | 138 | 280 | 11   | 90 | 0.960 |

## 138 Y Profile-section grip wrench

- > For clamping bulky profile and angle sections.
- > Strong forged jaws.
- > GEDORE special chrome-vanadium steel, nickel-plated.
- > Release lever blue dip insulated.



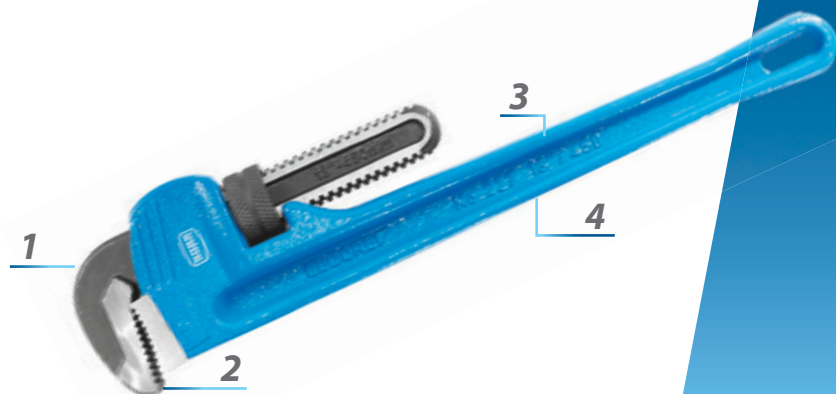
| Code    | No.  | L   | inch | mm | inch  | mm | inch | kg    |
|---------|------|-----|------|----|-------|----|------|-------|
| 6407860 | 138Y | 280 | 11   | 95 | 3.3/4 | 75 | 3    | 0.763 |

## **i** DID YOU KNOW?

GEDORE heavy-duty pipe wrenches are the **ONLY** pipe wrenches in South Africa with the SABS certified mark.



Permit No. 9668 / 15323



1

DROP FORGED HOOK, HARDENED AND TEMPERED FROM SELECTED CARBON STEEL

2

JAW TEETH INDUCTION HARDENED

3

SPHEROIDAL GRAPHITE CAST HANDLE

4

BLUE EXPOXY POWDER COATED

### 227

Pipe wrench,  
american pattern

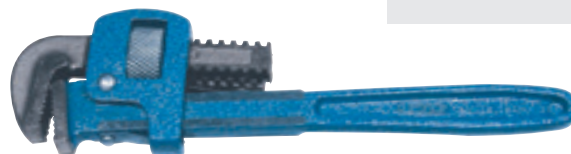
- > For heavy duty applications.
- > Drop forged hook, hardened and tempered from selected carbon steel.
- > Jaw teeth induction hardened.
- > Spheroidal graphite cast handle.
- > Blue epoxy powder coated.
- > In accordance with SANS 1028.



### 225

Pipe wrench,  
stillson type

- > Drop forged, CHROME VANADIUM handle, hardened and tempered.
- > Drop forged hook, hardened and tempered from selected carbon steel.
- > Jaw teeth induction hardened.
- > Blue epoxy powder coated.
- > In accordance with SANS 1028.



| Code   | No.      | L    | mm  |        |
|--------|----------|------|-----|--------|
| 645303 | 227/200  | 190  | 34  | 0.415  |
| 645311 | 227/250  | 245  | 49  | 0.785  |
| 645344 | 227/300  | 300  | 55  | 1.110  |
| 645346 | 227/350  | 320  | 60  | 1.600  |
| 645354 | 227/450  | 410  | 76  | 2.700  |
| 645362 | 227/600  | 550  | 90  | 4.200  |
| 645370 | 227/900  | 800  | 140 | 9.600  |
| 645374 | 227/1200 | 1040 | 210 | 14.500 |

| Code   | No.     | L   | mm  |       |
|--------|---------|-----|-----|-------|
| 645036 | 225/250 | 250 | 34  | 0.580 |
| 645044 | 225/300 | 300 | 44  | 0.770 |
| 645052 | 225/350 | 350 | 49  | 1.035 |
| 645060 | 225/450 | 450 | 60  | 1.600 |
| 645079 | 225/600 | 600 | 76  | 3.000 |
| 645087 | 225/900 | 920 | 102 | 6.700 |

## 227 Spares

| Code   | No.                | Code   | No.                   | Code   | No.              |
|--------|--------------------|--------|-----------------------|--------|------------------|
| 545376 | E 227 A/200 Spring | 545465 | E 227 B/600 Knurl     | 545562 | E 227 D/350 Hook |
| 545384 | E 227 A/250 Spring | 545597 | E 227 B/900 Knurl     | 545570 | E 227 D/450 Hook |
| 545390 | E 227 A/300 Spring | 545473 | E 227 C/200 Jaw & Pin | 545589 | E 227 D/600 Hook |
| 545392 | E 227 A/350 Spring | 545481 | E 227 C/250 Jaw & Pin | 545643 | E 227 D/900 Hook |
| 545406 | E 227 A/450 Spring | 545500 | E 227 C/300 Jaw & Pin | 545426 | E 227 A/1200     |
| 545414 | E 227 A/600 Spring | 545503 | E 227 C/350 Jaw & Pin | 545469 | E 227 B/1200     |
| 545422 | E 227 A/900 Spring | 545511 | E 227 C/450 Jaw & Pin | 545540 | E 227 C/1200     |
| 545368 | E 227 B/200 Knurl  | 545538 | E 227 C/600 Jaw & Pin | 545592 | E 227 D/1200     |
| 545430 | E 227 B/250 Knurl  | 545635 | E 227 C/900 Jaw & Pin |        |                  |
| 545435 | E 227 B/300 Knurl  | 545546 | E 227 D/200 Hook      |        |                  |
| 545449 | E 227 B/350 Knurl  | 545554 | E 227 D/250 Hook      |        |                  |
| 545457 | E 227 B/450 Knurl  | 545565 | E 227 D/300 Hook      |        |                  |

## 225 Spares

| Code   | No.               | Code   | No.               | Code   | No.              |
|--------|-------------------|--------|-------------------|--------|------------------|
| 544027 | E 225 A/250 Frame | 544884 | E 225 B/900 Knurl | 545058 | E 225 D/600 Pin  |
| 544035 | E 225 A/300 Frame | 544922 | E 225 C/250 Hook  | 545066 | E 225 D/900 Pin  |
| 544043 | E 225 A/350 Frame | 544930 | E 225 C/300 Hook  | 545252 | E 225 EF/250 Rvt |
| 544051 | E 225 A/450 Frame | 544949 | E 225 C/350 Hook  | 545260 | E 225 EF/300 Rvt |
| 544078 | E 225 A/600 Frame | 544957 | E 225 C/450 Hook  | 545309 | E 225 EF/350 Rvt |
| 544086 | E 225 A/900 Frame | 544965 | E 225 C/600 Hook  | 545279 | E 225 EF/450 Rvt |
| 544825 | E 225 B/250 Knurl | 544973 | E 225 C/900 Hook  | 545317 | E 225 EF/600 Rvt |
| 544833 | E 225 B/300 Knurl | 545007 | E 225 D/250 Pin   | 545287 | E 225 EF/900 Rvt |
| 544841 | E 225 B/350 Knurl | 545015 | E 225 D/300 Pin   |        |                  |
| 544868 | E 225 B/450 Knurl | 545023 | E 225 D/350 Pin   |        |                  |
| 544876 | E 225 B/600 Knurl | 545031 | E 225 D/450 Pin   |        |                  |

## 142

## Universal pliers

- According to DIN ISO 8976 Form C.
- With safety box joint and protection against blocking.
- Fine adjustment.
- 142 10 = 15 settings.
- Single-hand adjustment for safe clamping.
- Slim pliers head for places that are hard to access.
- Long slim jaws.
- Offset gripping faces for self-gripping – no slipping off.
- Gedore special Chrome Vanadium steel.
- Induction rehardened serrated faces.
- Model C = slim handles with forged serrations.
- Model JC = chrome-plated, with 2-component handles
- Chrome Vanadium special steel.



142 10 JC



142 10 TL



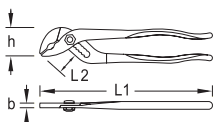
142 10 C

| Code    | No.                            | mm | L   |       |
|---------|--------------------------------|----|-----|-------|
| 6416260 | 142 10 C                       | 38 | 250 | 0.380 |
| 6416340 | 142 10 JC                      | 38 | 260 | 0.417 |
| 6416180 | 142 10 TL                      | 38 | 255 | 0.371 |
| 5537190 | E 142 A/10 Spare Screw and Nut |    |     |       |

## 145

## Water pump pliers

- 145 10C = 7 settings.
- 145 15C = 9 settings.
- Made in South Africa



| Code    | No.                            | L   | L2 | b   | h    | mm |       |
|---------|--------------------------------|-----|----|-----|------|----|-------|
| 6412000 | 145 10 C                       | 250 | 41 | 7,8 | 47,0 | 39 | 0.365 |
| 6412190 | 145 15 C*                      | 375 |    |     |      | 50 | 0.854 |
| 2962683 | E 145 A/10 Spare screw and nut |     |    |     |      |    |       |

## 142 16 TL

## Universal pliers

## NEW



- Slightly curved handle enables comfortable handling during continuous use
- Fine size adjustment via push button
- Reduced risk of injury thanks to anti-trap protection
- Self-clamping due to counter-rotating gripping teeth
- Induction-hardened gripping teeth
- Narrow pliers head for working in tight spaces
- Hot forged from high-quality GEDORE chrome-vanadium special steel
- 14 settings
- TL version with blue-dipped non-slip handles and painted with high-quality metal paint for an attractive, durable appearance
- Opening widths: 110 mm
- Acc. to DIN ISO 8976 Form C

| Code    | No.       | Clampig reach mm | Length mm |       |
|---------|-----------|------------------|-----------|-------|
| 3104486 | 182 16 TL | 110              | 400       | 1.140 |

## 183 12 TC

Plier wrench  
incl. protective jaws

## NEW



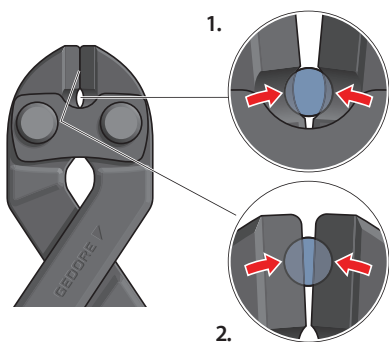
- One tool that works like a spanner and pliers
- DIN ISO 5743
- Can replace two complete open-ended spanner sets, metric and inch, gripping size 0 - 52mm / 0 - 2"
- Careful assembly of bolt connections with delicate surfaces (e.g. chrome-plated fittings)
- Adjustable, universal tool
- Perfect for bending, holding, pressing and gripping a wide range of workpieces
- Sliding mechanism and paralleled jaws for quick and easy adjustment
- Secure locking of the setting when the size of the opening is selected
- High ratio (>1:10) for high pressing and clamping force
- Made of GEDORE special hardened and tempered steel
- Can be used as a powerful vice
- Optimum ergonomic adjustment of the hand position to the size of the jaw or spanner opening
- Chrome-plated, with blue dipped handles

| Code    | No.       | Size | Clamping reach mm | Length mm |       |
|---------|-----------|------|-------------------|-----------|-------|
| 3066045 | 183 12 TC | 12   | 72                | 300       | 0.630 |

# BOLT CUTTERS

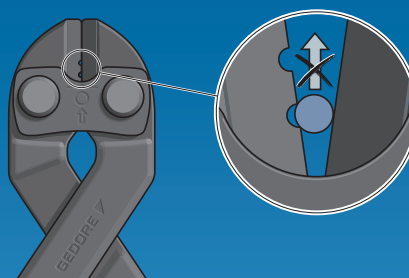
## 8340

- With a cut soft, medium-hard or hard wires up to 4 mm Ø are separated
- The gliding ahead of the cutting material is prevented by two one-sided micro-grooves and thus is always stays in optimal cutting position

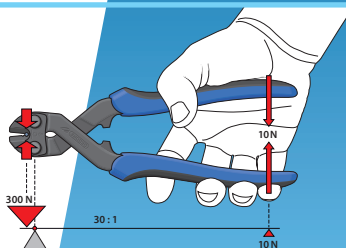


## 8340

- With two cuts soft, medium-hard or hard wires from 4 to 6 mm Ø are separated
- The extra cutting edge (1) serves as first cut for thick bolts and engraves them deeply
- In the second step, the main cutting edge (2) cuts through the bolt completely



- Compact power bolt cutter with a particularly effective cutting performance
- Optimum lever action requires less effort
- Wear-free rotating/thrust block bolt to reduce sliding friction when cutting
- Force optimised, joint-near cutting is guaranteed



- The effective force multiplication ratio of 1:30 results of the joint-near use of the cutting edge
- Here the lever ratio of hand to cutting force is optimal
- A gliding ahead from this cutting position is prevented by the micro-grooves resp. the additional cutting edge

## 8340

Mini bolt cutters

- Cutting edges additionally inductively hardened (63 - 65 HRC)
- The gliding ahead of the cutting material is prevented by two one-sided micro-grooves and thus always stays in optimal cutting position
- Precision cutting edges for soft wire up to Ø 6.0 mm, hard and piano wire up to Ø 3.8 mm

\*WHILE STOCKS LAST

## 8340 Z

Mini bolt cutters

- Cutting edges additionally inductively hardened (63 - 65 HRC)
- Double-sided milling with additional cutting edge, in the area close to the joint, guarantees best leverage for large wire diameters
- The additional cutting edge serves as a pre-cutter for thick bolts and notches them very deeply
- In the second step, the main cutting edge cuts through the bolt completely
- Precision cutting edges for soft wire up to Ø 6.0 mm, hard wire up to Ø 5.5 mm and piano wire up to Ø 3.8 mm



| Code    | No.          | L   |  |
|---------|--------------|-----|-------------------------------------------------------------------------------------|
| 2541300 | 8340-200 JL* | 200 | 0.389                                                                               |

| Code    | No.           | L   |  |
|---------|---------------|-----|---------------------------------------------------------------------------------------|
| 2666324 | 8340 Z-200 JL | 200 | 0.389                                                                                 |

## 8178

Bolt cutters



### E 8178 Spares

Cutting head

- > Double cam bolt adjustment
- > Cutting head replaceable
- > Max. cutting performance 49 HRC
- > 48 HRC  $\approx$  1590 N / mm<sup>2</sup> Tensile strength
- > According to DIN ISO 5743.
- > Cutters from Chrome Vanadium steel.



| Code    | No.      | ● mm | L   | ↳ "inch" ↳ | ⚖ kg  |
|---------|----------|------|-----|------------|-------|
| 2675137 | 8178 460 | 5,0  | 460 | 18         | 1.680 |
| 2675145 | 8178 620 | 7,0  | 620 | 24         | 2.460 |
| 2675153 | 8178 780 | 8,0  | 780 | 30         | 4.700 |
| 2675161 | 8178 900 | 9,0  | 900 | 36         | 5.000 |

| Code    | No.        | ⚖ kg  |
|---------|------------|-------|
| 2675196 | E-8178 460 | 0.440 |
| 2675218 | E-8178 620 | 0.800 |
| 2675226 | E-8178 780 | 1.460 |
| 2675234 | E-8178 900 | 1.470 |

## 220

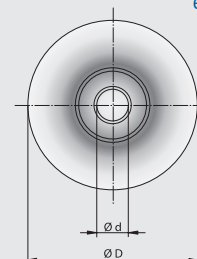
Pipe cutter  
TUBEX



### 220 Spares

Wheel

- > High-performance pipe cutter with 1 cutting wheel
- > Can also be used for stainless steel pipes by replacing the cutting wheel (2" version)
- > Spindle protected by sleeve extension



| Code    | No.    | Size inch | Ø mm          | Wall thickness | L   | ⚖ kg  |
|---------|--------|-----------|---------------|----------------|-----|-------|
| 4503400 | 220020 | 1/8 - 2   | 10 mm - 60 mm | 2,0-6,3        | 380 | 2.900 |

| Code    | No.    | Designation                      | Ø D | b  | Ø d | ⚖ kg  |
|---------|--------|----------------------------------|-----|----|-----|-------|
| 4503750 | 220220 | Cutting wheel for 220020, 222020 | 32  | 19 | 9   | 0.028 |

## 8531

Tin snips, straight pattern



- > English Pattern.
- > Carbon steel SAE1045.
- > Drop forged and heat treated.
- > Cutting surfaces induction hardened.
- > Precision ground cutters.
- > Blue epoxy powder coated.

\*WHILE STOCKS LAST

| Code   | No.       | L   | ⚖ kg  |
|--------|-----------|-----|-------|
| 675792 | *8531-250 | 250 | 0.455 |
| 675806 | *8531-300 | 300 | 0.660 |



# AUTOMOTIVE & SPECIAL TOOLS

Perfectly equipped: GEDORE automotive tools and the right equipment turn a workshop into a functional, efficient facility. From wheel mounting to work on the engine and interior to bodywork. Workshop equipment from GEDORE means quality without compromise.

The foundation for a well-organised workshop are specialised tools and equipment. Even the seemingly simple four-way wheel spanner must be able to withstand extreme loads under continuous use.

That is why GEDORE places great emphasis on the quality of every tool, even a wheel spanner which has been hot-forged to prevent breakage.

The quality promise also applies to wheel sockets, balancing weight and brake spring pliers, tyre levers, spanners and inserts made from high-quality materials.

Working under the hoist, in the pit or in the service vehicle require uncomplicated solutions, carrying tools on the body or simply protection and comfort for hands becomes a top priority. Multifunctional belts, pouches, tool jackets and even tool rucksacks offer freedom of movement, quick access to tools and safe storage.



ROBUST  
PRACTICAL  
VERSATILE



#### THE PERFECTLY EQUIPPED WORKSHOP

- Intelligent and versatile solutions for the workshop
- Equipment that supports working comfort and protects the workpieces
- Measuring tools for accuracy and precision
- Tool bags, belts and waistcoats as useful additions

#### BEST QUALITY FOR HIGHEST DEMANDS

- Use of the most modern machines and environmentally friendly production processes
- The best materials and optimised processing methods ensure unique quality
- High-grade industrial quality for the toughest continuous demands and safety in everyday work

## 26R

Double-ended  
box spanners

- > In tubular steel, hardened.
- > Chrome plated.

## 27

Wheel socket  
spanner

- > Chrome Vanadium steel 31CrV3.
- > Chrome plated.
- > With great head depth, for protruding bolts, without tommy bar
- > Please order rotary pin 27 D separately

\*WHILE STOCKS LAST

| Code    | No.       | mm  | kg    |
|---------|-----------|-----|-------|
| 6210050 | 26R 6x7   | 105 | 0.028 |
| 6210210 | 26R 8x9   | 110 | 0.035 |
| 6210640 | 26R 10x11 | 120 | 0.045 |
| 6210990 | 26R 12x13 | 140 | 0.075 |
| 6211370 | 26R 14x15 | 140 | 0.090 |
| 6211610 | 26R 16x17 | 150 | 0.120 |
| 6211880 | 26R 17x19 | 160 | 0.180 |

| Code    | No.       | mm  | kg    |
|---------|-----------|-----|-------|
| 6211960 | 26R 18x19 | 160 | 0.180 |
| 6212260 | 26R 20x22 | 170 | 0.210 |
| 6212340 | 26R 21x23 | 170 | 0.215 |
| 6212690 | 26R 24x27 | 190 | 0.300 |
| 6212770 | 26R 25x28 | 200 | 0.350 |
| 6213070 | 26R 30x32 | 200 | 0.380 |
| 6213310 | 26R 36x41 | 220 | 0.650 |

| Code   | No.       | mm | mm  | kg    |
|--------|-----------|----|-----|-------|
| 026050 | 27-22x24* | 19 | 500 | 1.700 |
| 026060 | 27-24x27* | 19 | 500 | 1.800 |
| 026150 | 27-27x30* | 19 | 500 | 2.300 |
| 026155 | 27-27x32* | 21 | 500 | 2.300 |
| 026156 | 27-27x33* | 21 | 500 | 2.300 |
| 026165 | 27-30x32* | 21 | 500 | 2.300 |

| Code   | No.         | mm | mm  | kg    |
|--------|-------------|----|-----|-------|
| 026168 | 27-30x33*   | 21 | 500 | 2.300 |
| 026170 | 27-32x33*   | 21 | 500 | 2.400 |
| 026175 | 27-21x38*   | 19 | 500 | 2.300 |
| 026180 | 27-21x41*   | 21 | 500 | 2.500 |
| 026052 | 27d/35d-19* | 19 | 500 | 1.090 |
| 026152 | 27d/35d-21* | 21 | 500 | 1.300 |

## KD-26R

Box spanner set



- > In tubular steel, hardened.
- > Chrome plated.
- > 7 pieces

## 26RS

Stepped tommy bar

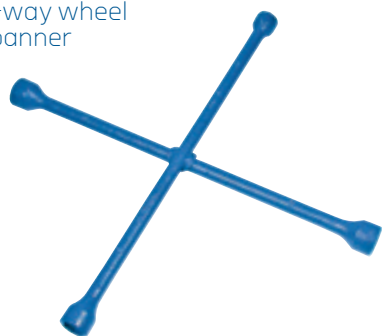


- > Chrome Vanadium steel 31CrV3, hardened.
- > Chrome plated.

| Code   | No.    | mm                                | Accessories      | kg    |
|--------|--------|-----------------------------------|------------------|-------|
| 621846 | KD-26R | 8x9 10x11 12x13 14x15 16x17 18x19 | 26RS 2 Tommy Bar | 0.685 |

| Code   | No.                             | mm  | kg    |
|--------|---------------------------------|-----|-------|
| 652806 | 26RS 1 - Fits 26R 6x7 - 10x11   | 190 | 0.040 |
| 652814 | 26RS 2 - Fits 26R 12x13 - 16x17 | 240 | 0.140 |
| 652822 | 26RS 3 - Fits 26R 17x19 - 36x41 | 330 | 0.500 |

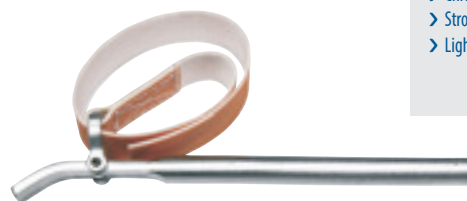
## 28

4-way wheel  
spanner

- > Chrome Vanadium steel 31CrV3.
- > Blue epoxy powder coated.
- > 28PU for car wheel nuts
- > 28CV for delivery vans and light trucks, buses and tractors
- > 28LV for trucks, agricultural machines, tractors and industrial uses

| Code   | No.   | mm    | mm    | kg            |
|--------|-------|-------|-------|---------------|
| 622761 | 28 PU | 17x19 | 21x22 | 420x420 1.360 |
| 622869 | 28 CV | 19x20 | 24x27 | 595x583 3.690 |

## 36

Oil filter strap  
wrench

- > Chrome Vanadium steel 31CrV3.
- > Chrome plated.
- > Strong wide strap.
- > Light duty.

| Code    | No.            | mm  | kg    |
|---------|----------------|-----|-------|
| 6327320 | 36 / 1         | 220 | 0.307 |
| 6327400 | 36 / 2         | 285 | 0.470 |
| 5327380 | E 36 / 1 Strap |     |       |
| 5327460 | E 36 / 2 Strap |     |       |

## 38

Tyre lever



- > Chrome Vanadium steel 31CrV3.
- > Drop forged.
- > Chrome plated.

| Code   | No.   | mm  | inch | kg    |
|--------|-------|-----|------|-------|
| 633267 | 38 16 | 400 | 16   | 0.458 |
| 633283 | 38 20 | 500 | 20   | 0.576 |

## 39

Tyre lever



- > Chrome Vanadium steel 31CrV3.
- > Drop forged.
- > Blue epoxy powder coated.

| Code   | No. | mm  | inch | kg    |
|--------|-----|-----|------|-------|
| 633305 | 39  | 610 | 24   | 1.463 |

## 139

Pry bar



- > Chrome Vanadium steel 31CrV3.
- > Drop forged.

| Code    | No.                  | mm  | kg    |
|---------|----------------------|-----|-------|
| 1396598 | 139 - 450X19 Pry Bar | 450 | 1.020 |

## 1.75

Oil filter hook



- > Three-arm pattern.
- > For removing firmly seated oil filters.

## 647

Spark plug brush



- > With plastic handle and brass wire bristles.

\*WHILE STOCKS LAST

| Code    | No.    | mm     | kg    | Code    | No.  | mm  | bristle length | kg    |
|---------|--------|--------|-------|---------|------|-----|----------------|-------|
| 8117420 | 1.75/1 | 60-120 | 0.600 | 6531950 | 647* | 180 | 15             | 0.022 |

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**640**

Magnetic lifter



- > With flexible shaft and plastic handle
- > For picking up and holding small magnetic parts
- > Easy handling due to flexible shaft
- > Bright nickel plated



| Code    | No.      | ↳ mm ↳ | Magnet diameter | Ω     | kg    |
|---------|----------|--------|-----------------|-------|-------|
| 6531280 | 640-1800 | 520    | 12,0            | 1.800 | 0.230 |

**642 SP**

Magnetic lifter, with lamp, mirror &amp; clip



- > For searching and lifting small metal parts in confined areas
- > If necessary, the magnet can be unscrewed
- > Mirror diameter 30 mm



| Code    | No.    | ↳ mm ↳ | Magnet diameter | Ω   | kg    |
|---------|--------|--------|-----------------|-----|-------|
| 6536750 | 642 SP | 500    | 12              | 350 | 0.172 |

**125**

Piston ring clamp band



- > Made of special spring band steel with infinitely variable fine adjustment
- > With tightening key.

| Code    | No.   | Ø mm   | ↳ mm ↳ | ↳ "inch ↳ | kg    |
|---------|-------|--------|--------|-----------|-------|
| 6396800 | 125 1 | 57-125 | 80     | 3         | 0.257 |
| 6396990 | 125 2 | 90-175 | 80     | 3         | 0.294 |
| 6397020 | 125 3 | 90-175 | 165    | 6.1/2     | 0.548 |

**126**

Piston ring pliers



- > For secure fitting of piston rings.
- > Handles with blue sleeves.

| Code    | No.       | Ø mm   | ↳ mm ↳ | ↳ "inch ↳ | kg    |
|---------|-----------|--------|--------|-----------|-------|
| 6397100 | 126 0-60  | 30-60  | 210    | 8.1/4     | 0.158 |
| 6397370 | 126 1-100 | 55-100 | 200    | 8         | 0.296 |
| 6397450 | 126 2-120 | 80-120 | 240    | 9.1/2     | 0.344 |

**126-060**

Piston ring pliers

- > With prism holder for secure fitting of piston rings
- > With adjusting screw

\*WHILE STOCKS LAST



| Code    | No.       | Ø mm  | ↳ mm ↳ | ↳ "inch ↳ | kg    |
|---------|-----------|-------|--------|-----------|-------|
| 6397100 | 126 0-60* | 30-60 | 210    | 8.1/4     | 0.158 |

**132**

Hose clamp pliers

- > For self-clamping hose clamps
- > Chrome plated handles



| Code    | No. | ↳ mm ↳ | ↳ "inch ↳ | kg    |
|---------|-----|--------|-----------|-------|
| 6399900 | 132 | 220    | 8.3/4     | 0.215 |



## 132

Click hose clamp pliers



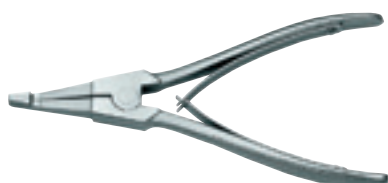
- For CLIC-R hose clamps.
- Polished, bright nickel plated, joint gunmetal finished.
- Forged for clip sizes 5-30mm.

\*INDENT ONLY

| Code    | No.       | mm  | inch | kg    |
|---------|-----------|-----|------|-------|
| 1396714 | 132 CLIC* | 180 | 7    | 0.247 |

## 8134

Installation pliers



- For spreading of horseshoe pattern circlips of shaft retainers, on motors, gearboxes, clutches, etc.
- For VW, AUDI and American vehicles

\*INDENT ONLY

| Code    | No.        | mm  | kg    |
|---------|------------|-----|-------|
| 6722030 | 8134-170 C | 170 | 0.195 |

## 8276

Balance weight pliers



- For removing, cutting, and attaching balancing weights
- Chrome Vanadium steel

| Code    | No.        | mm  | inch | kg    |
|---------|------------|-----|------|-------|
| 6739350 | 8276-250 C | 250 | 10   | 0.386 |

## 135

Brake spring pliers



- For drum brakes
- With special holder and support crown, particularly suitable for glued brake linings

\*WHILE STOCKS LAST

| Code    | No.     | mm  | inch | kg    |
|---------|---------|-----|------|-------|
| 6405300 | 135 13  | 330 | 13   | 0.389 |
| 6405490 | 135 19* | 480 | 19   | 0.956 |

## STEEL RULER



- Stainless steel with polished finish.
- Permanently engraved.
- Metric to imperial conversion table on reverse side.

| Code    | No.                    | mm  | inch | kg    |
|---------|------------------------|-----|------|-------|
| 0134000 | Measuring Rule - 150mm | 150 | 6    | 0.050 |
| 0134100 | Measuring Rule - 300mm | 300 | 12   | 0.060 |
| 0134300 | Measuring Rule - 600mm | 600 | 24   | 0.120 |

## 702

## Feeler gauge set



- › With protective handle.
- › Handle nickel plated.
- › Folding.
- › Blade length 100mm.

| Code    | No.      |                                                                    |       |
|---------|----------|--------------------------------------------------------------------|-------|
| 6547790 | 702 13 M | 5 10 15 20 25 30 40 50 60 70 80 90 100/100                         | 0.065 |
| 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    | 0.100 |
| 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 | 0.068 |
| 6548680 | 702 13 A | .002 .003 .004 .005 .006 .008 .010 .012 .015 .020 .025 .030 .035"  | 0.055 |
| 6548760 | 702 22 A | .004 - .025 increasing by 1/1000"                                  | 0.081 |
| 6548840 | 702 26 A | .0015 - .025 increasing by 1/1000"                                 | 0.080 |

INSIDE  
SPRING  
CALIPER

- › With protective handle.
- › Handle nickel plated.
- › Folding.
- › Blade length 100mm.

| Code    | No.                   | ↳ mm ↳ | ↳ "inch ↳ |       |
|---------|-----------------------|--------|-----------|-------|
| 0140100 | Inside Spring Caliper | 100    | 4         | 0.085 |
| 0140200 | Inside Spring Caliper | 150    | 6         | 0.133 |
| 0140300 | Inside Spring Caliper | 200    | 8         | 0.180 |
| 0140400 | Inside Spring Caliper | 250    | 10        | 0.240 |
| 0140500 | Inside Spring Caliper | 300    | 12        | 0.260 |

OUTSIDE  
SPRING  
CALIPER

| Code    | No.                    | ↳ mm ↳ | ↳ "inch ↳ |       |
|---------|------------------------|--------|-----------|-------|
| 0141100 | Outside Spring Caliper | 100    | 4         | 0.080 |
| 0141200 | Outside Spring Caliper | 150    | 6         | 0.133 |
| 0141300 | Outside Spring Caliper | 200    | 8         | 0.180 |
| 0141400 | Outside Spring Caliper | 250    | 10        | 0.250 |
| 0141500 | Outside Spring Caliper | 300    | 12        | 0.260 |

SPRING  
DIVIDER

| Code    | No.            | ↳ mm ↳ | ↳ "inch ↳ |       |
|---------|----------------|--------|-----------|-------|
| 0142000 | Spring Divider | 75     | 3         | 0.080 |
| 0142100 | Spring Divider | 100    | 4         | 0.080 |
| 0142200 | Spring Divider | 150    | 6         | 0.133 |
| 0142300 | Spring Divider | 200    | 8         | 0.180 |
| 0142400 | Spring Divider | 250    | 10        | 0.267 |

ENGINEERS  
SCRIBER

- › Double-ended with one straight point and the other at 90 degrees.
- › Ideal for use in confined spaces.

| Code    | No.               | ↳ mm ↳ |       |
|---------|-------------------|--------|-------|
| 0321001 | Engineers Scriber | 190    | 0.045 |

ENGINEERS  
SQUARE

- › Hardened blade.
- › Accurately ground blade and stock ensures straightness and parallelism.
- › Accurate right angles on inside and outside.
- › Ideal for setting up and checking machinery.

| Code    | No.                      | Blade Length ↳ mm ↳ |       |
|---------|--------------------------|---------------------|-------|
| 0110100 | Engineers Square - 75mm  | 75                  | 0.115 |
| 0110200 | Engineers Square - 100mm | 100                 | 0.133 |
| 0110300 | Engineers Square - 150mm | 150                 | 0.288 |

## 403 Hacksaw

- › Adjustable tubular steel frame.
- › For 10" and 12" hacksaw blades.
- › Shatterproof blades.



| Code    | No.                                   | l - mm -l | kg        |
|---------|---------------------------------------|-----------|-----------|
| 039010  | 403                                   | 435       | 0.360     |
| 5500350 | 403A Hacksaw Blade 24TPI - Pack of 10 |           | 300 0.120 |

## 407 Hacksaw

- › Pressure cast aluminium.
- › Ergonomic soft rubber grips.
- › Adjust saw blade by turning blue clamping element in the hand grip.



| Code    | No. | l - mm -l | kg    |
|---------|-----|-----------|-------|
| 1879375 | 407 | 425       | 0.650 |

## BRASS PUMP OIL CAN

- › Dome shaped body.
- › Brass suction pump.
- › Heavy gauge tin.
- › Powder coated.
- › Pump has two ball valves.
- › Lack of spring on the bottom suction valve prevents malfunctioning.



| Code    | No.                | Capacity (ml) | kg        |
|---------|--------------------|---------------|-----------|
| 4163300 | Brass Pump Oil Can |               | 500 0.278 |

## JUNIOR Hacksaw

- › Powder coated, steel wire frame.
- › Easy blade replacement.
- › Shatterproof blade.
- › Finger guard prevents injury.



| Code    | No.            | l - mm -l | kg    |
|---------|----------------|-----------|-------|
| 0312000 | Junior Hacksaw | 210       | 0.083 |

## SAFETY GLASSES

- › Euro type spectacles, polycarbonate lens CE (EN 166-2001).
- › Clear anti-scratch lens.



| Code   | No.                         | kg    |
|--------|-----------------------------|-------|
| 200638 | DV026C Safety Glasses & Bag | 0.035 |

## G-CLAMPS

\*WHILE STOCKS LAST



| Code    | No.      | l - mm -l | "inch | kg    |
|---------|----------|-----------|-------|-------|
| 3580000 | *G-Clamp | 75        | 3     | 0.500 |
| 3580100 | *G-Clamp | 100       | 4     | 0.900 |
| 3580200 | *G-Clamp | 150       | 6     | 1.400 |
| 3580300 | *G-Clamp | 200       | 8     | 1.500 |

## 299

Drain plug spanner

- > Chrome Vanadium steel 31CrV3.
- > Chrome plated.
- > For square bungs on engine pumps, tanks and drums for oil and chemicals.
- > Five square sizes: 8.7 9.5 10.5 11.5 13mm
- > Four tapered sizes: 6.8-8.7 10.5-13 15.2-18 16.5-19mm
- > One screwdriver blade: 5.5 x 18mm



| Code    | No. | mm  | kg    |
|---------|-----|-----|-------|
| 6464580 | 299 | 220 | 0.450 |

## 905

Creeper

- > Ergonomically shaped one-piece creeper.
- > With practical carrying handle
- > Made for PP(polypropylene)
- > Six swivel castors ensure easy, safe manoeuvrability
- > Two storage trays
- > Head and neck cushion for maximum comfort
- > Bucket moulding gives additional support and allows freedom of movement
- > Carrying capacity: 130kg
- > Temperature range: -30C to +60C
- > Dimensions: 1030 x 480 x 115mm



| Code    | No. | kg    |
|---------|-----|-------|
| 1823698 | 905 | 5.000 |

## 907

Fender protector

- > Protection from unwanted scratches, dents and dirt.
- > Magnetic attachment keeps paintwork safe from damage – also attaches to galvanised steel.
- > Rugged, padded imitation leather and reinforced edges provide a perfect, cushioned working area.
- > Dimensions: 1100x650mm with wheel cut-out to allow easy access.



| Code    | No. | mm   | kg    |
|---------|-----|------|-------|
| 1942956 | 907 | 1100 | 0.620 |

## WAIST POUCH

- > Fabric construction in 600D polyester canvas.
- > Water repellent and durable.
- > Waist Pouch: 25mm reinforced polypropylene webbing straps.
- > YKK zip and nickel rivets for additional reinforcing.
- > Reinforced loops for screwdrivers and pliers.



| Code   | No.         | kg    |
|--------|-------------|-------|
| 545210 | Waist Pouch | 0.200 |

## 906

Kneeling board

NEW

- > Made of solid foam, blue/black
- > With recessed grip



| Code    | No. | Length mm | Height mm | Width mm | kg    |
|---------|-----|-----------|-----------|----------|-------|
| 1942948 | 906 | 450       | 30        | 210      | 0.110 |

## TOOL JACKET

- › High quality tear resistant fabric made from 600D polyester.
- › Strong industrial seams.
- › Universal size with four lateral buckles for resizing.
- › One back pocket with zips.
- › Two right-hand pockets and four left-hand pockets.
- › Elastic screwdriver holder.
- › Reflector strips front and back for improved visibility.



## 507 Leisure motorist toolkit

- › In a black canvas case with zip fastener.

\*WHILE STOCKS LAST



| Code    | No.         |       |
|---------|-------------|-------|
| 1818260 | Tool Jacket | 0.730 |

| Code   | No.                          | Spanners                                      | Screwdrivers                       | Accessories                                                                                                              |       |
|--------|------------------------------|-----------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-------|
| 668097 | 507 Leisure Motorist Toolkit | <b>N0.6</b> 8x9 10x11 12x13 14x15 16x17 19x22 | <b>2150</b> 6.5<br><b>2160</b> PH2 | 26RST x 175 Socket & T-Bar<br>60CP-250 Shifting Spanner<br>145/250 Universal Pliers<br>Reflective Vest<br>Leather Gloves | 2.360 |

## ELECTRICIAN'S TOOL CASE

- › Double stitched and bound.
- › Very durable water repellent inner lining.
- › Heavy duty zip.
- › Reinforced inners.
- › Dimensions:  
L=400 x W=180 x  
H=300mm.



## TOOL RUCKSACK

- › 600x600D water repellent polyester fabric.
- › Double stitched and bound.
- › 10cf-thick extra heavy duty zip.
- › Three front velcro-closing pockets with reflective strip.
- › Inside detachable divider with fabric sleeves to hold tools with clear velcro sleeve cover.
- › Reinforced padded back with reinforced padded back straps.



| Code   | No.       |       |
|--------|-----------|-------|
| 545220 | Tool case | 2.250 |

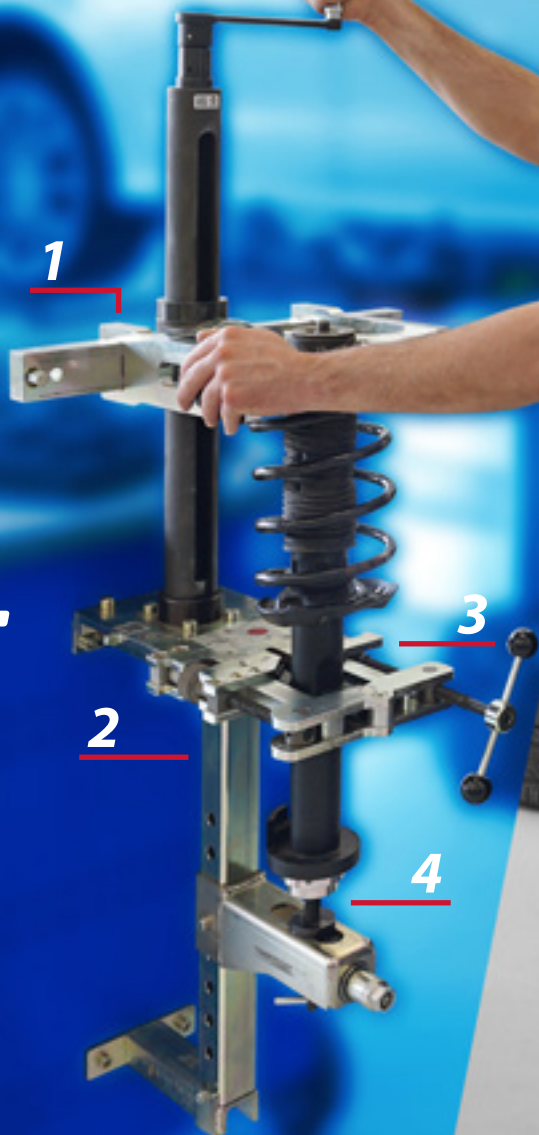
| Code   | No.      |       |
|--------|----------|-------|
| 545190 | Rucksack | 1.000 |





**NEW**

**UNIVERSAL**  
**FAST**  
**EFFECTIVE**  
**SAFE**



KL-5501 B

## ***SPRING COMPRESSOR***

Fast, effective and easy compressing of practically any MacPherson suspension/damper strut available on the market combined with maximum safety. The spring shape and spring pitch are not an issue since the spring is compressed via the upper spring plate against the lower one.



RIGHT-HAND



LEFT-HAND



CONICAL



ECCENTRIC



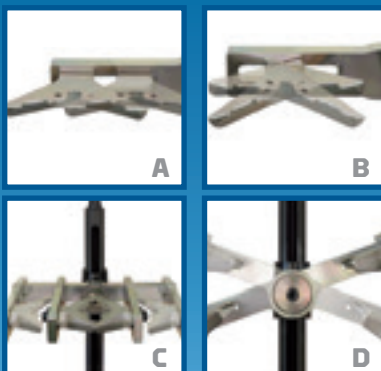
HIGH PITCH

SMALL NUMBER  
OF WINDINGSIRREGULAR  
PITCH

1

### CONTINUOUSLY ADJUSTABLE

- Fits practically any MacPherson suspension/damper strut available on the market
- Fits practically all spring plate diameters | C
- Pivoted and slideable spring holding devices adjust to practically any spring plate contour | A, B
- Inclined spring plate mounting for secure fitting of tilted spring plates | D
- No damage to the coil spring coating from clamping with the spring plate



2

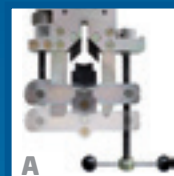
### SAFE ONE-PERSON OPERATION

- Easy and quick to handle in the workshop's daily routine
- Work done by just one person
- Very safe and user-friendly overall design

3

### DAMAGE-FREE WORKING

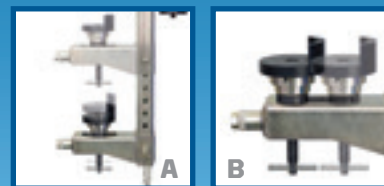
- Adjustable quick clamping device for damage-free suspension strut fitting | A
- No damage to the damper tube thanks to plastic clamping jaws at the holding device



4

### HORIZONTALLY ADJUSTABLE MOUNTING

- Allows the piston rod to be exactly aligned to the spring plate | B
- Height-adjustable support fitting practically any suspension strut length | A

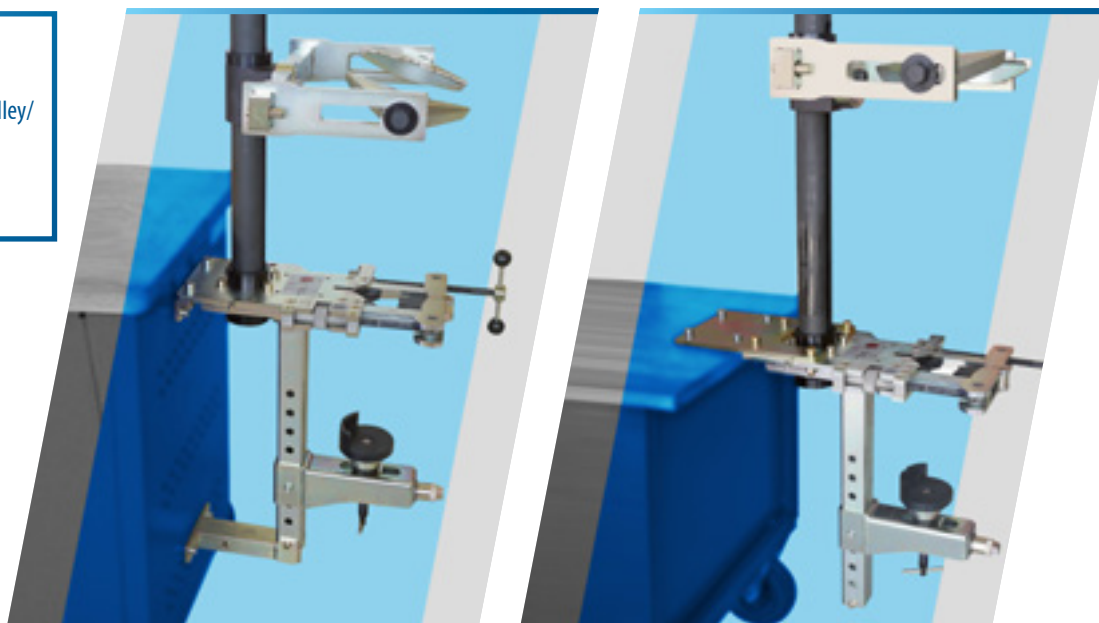


### SIMPLE MOUNTING

- Mounting on the MODULO workshop trolley/workbench - KL-5501-120 A / -121 A using mounting kit - KL-5501-211

- Universal fit for McPherson spring and damper legs.
- Universal fit!
- Maximum safety!
- Clamping of different spring designs!
- Tensioning of shock absorbers with tension stop spring!
- No damage to the damper tube!
- One-man operation!

Suitability: universal



| Code    | No.       | Drive | Breaking point | Load capacity (max.) N | Weight without trolley kg | Opening width (max.) mm | Spring plate Ø (min.) mm | Spring plate Ø (max.) mm |
|---------|-----------|-------|----------------|------------------------|---------------------------|-------------------------|--------------------------|--------------------------|
| 3230503 | KL-5501 B | SW 24 | 60.000 N       | 15.000                 | 46                        | 570                     | 125                      | 220                      |

KL-0104-21 KB

## SPREADING TOOL ADJUSTABLE

with wedges (No. 1 2 4 5)

 Made in Germany


- Suitable for suspension strut clamping holes and suspension joint mounts.
- The expansion tool set enables the suspension strut clamping bore or the lower suspension joint mount to be expanded professionally in order to be able to pull out stuck shock absorber units or suspension joints without damage.

### Pros:

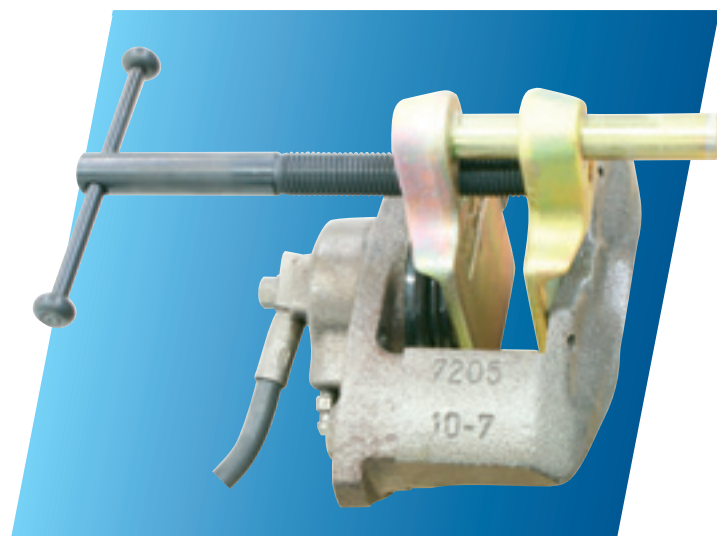
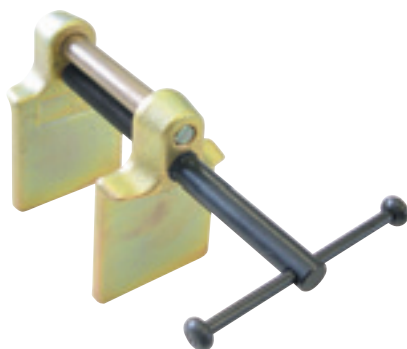
- For clamping bore gap of 2 - 16 mm!
- No jamming of the spreading tool!
- No over-expansion of the clamping bore thanks to expansion wedges with stop!
- No damage to the cast or aluminium steering knuckle housing!
- Clamping slots off center are not a problem!

**Suitability:** universal, especially for:


| Code    | No.        | Spread dimension                                                                                                            | Weight Kg |
|---------|------------|-----------------------------------------------------------------------------------------------------------------------------|-----------|
| 3269396 | KL-0104-2x | Wedge 1: a=5,5 mm, b=12,0 mm<br>Wedge 2: a=2,0 mm, b=8,0 mm<br>Wedge 4: a=5,5 mm, b=9,5 mm<br>Wedge 5: a=12,5 mm, b=17,0 mm | 1.240     |

KL-0111-1

## CALIPER PISTON RESET TOOL

 Made in Germany


- No jamming of the piston during reset.
- Low expenditure of force needed - thanks to the precise guidance of the tool.
- High stability and resistance to wear and tear - thanks to the hardened plates and guide pins.
- High precision of the tool ensures easy use and long service life.

**Suitability:** Universally applicable to virtually all vehicles.

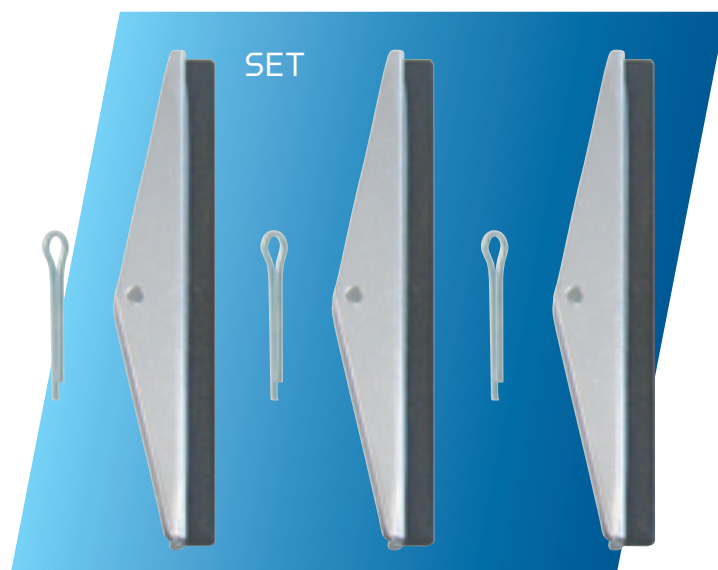
| Code    | No.       | Overall length mm | Overall height mm | Usable height of jaws mm | Width of jaws mm | Min span mm | Max span mm | Weight Kg |
|---------|-----------|-------------------|-------------------|--------------------------|------------------|-------------|-------------|-----------|
| 1752294 | KL-0111-1 | 260               | 125               | 75                       | 70               | 13          | 70          | 1.510     |

KL-0199-12 / KL-0199-125

## CYLINDER-HONING TOOL / SET



Comes with interchangeable hone stones and a flexible drive shaft to fit electric drills.  
The hone arms are self-spreading and tensioning.  
Suitable for tubes, bores, cylinders, bearing housings, etc.



| Code    | No.         |                              | Dimensions mm | Hone stone length mm | Cylinder Ø mm | Weight g |
|---------|-------------|------------------------------|---------------|----------------------|---------------|----------|
| 1754270 | KL-0199-12  |                              |               | 100                  | 51 - 175      | 570      |
| 1794108 | KL-0199-125 | Cylinder Hone Set (3 Stones) | 11 x 100      |                      |               | 57       |

KL-0369-900 KA

## GLOW / SPARK PLUG SOCKET WRENCH SET



- For removing and installing spark plugs and glow plugs.
- Suitable for PSG glow plugs with integrated pressure sensor.
- With retaining rubbers for fixing the spark plug or glow plug.
- Long and slim design.
- Resistance-free power transmission due to ball joint

**Suitability:** universal



7pcs

| Code    | No.            | Spanner size            | Drive 1 inch | Drive 2 inch | Length mm |
|---------|----------------|-------------------------|--------------|--------------|-----------|
| 3242757 | KL-0369-900 KC | SW 8; 9; 10; 12; 14; 16 | 1/4"         | 3/8"         | 85        |



KL-0500-45 KA

## CLUTCH KIT



This SAC clutch tool kit is absolutely necessary for professional and damage-free removal and installation of SAC clutches (Self-Adjusting Clutch), and it also enables resetting of the SAC adjusting ring in the clutch pressure plate.

Damage-free removal and installation is almost impossible without a SAC clutch tool, as the coupling can be strained or damaged in the process. This inevitably leads to a malfunction or defect of the clutch, and it must be replaced.

The clutch centring tool included in the scope of delivery enables centring of clutch discs with a hub diameter of 15-28mm and a guide bearing or crankshaft hole diameter of 12-28mm. Vehicles without guide bearings in the crankshaft are also not a problem.

The two clamping / centring elements ensure precise centring in the clutch disc on the first clamping element, and precise entering in the guide bearing or crankshaft hole on the second clamping element. Even clutches with crankshaft hole diameter exceeding the clutch hub diameter can be centred cleanly and precisely.

**Advantages:**

- Professional and damage-free disassembly and assembly of the coupling!
- Precise centring of the clutch disc on vehicles without pilot bearings!
- Centring of the clutch disc towards the pilot bearing or towards the pressure plate is possible!
- The clutch centring tool included in the scope of delivery enables centring of clutch discs with a hub diameter of 15-28mm and a guide bearing or crankshaft hole diameter of 12-28mm.
- Resetting the adjusting ring is possible with the special reset tool

**Suitability:** Fits universally for almost all SAC couplings with 3- and 4-hole pitch available on the market. For example, installed at VW-Audi, BMW, Mercedes, Volvo, Opel, Renault, etc.

| Code    | No.           | Weight Kg |
|---------|---------------|-----------|
| 2288508 | KL-0500-45 KA | 8.140     |

KL-0500-61 KA

## DSG CLUTCH KIT



The KL-0500-61 KA update tool kit is designed to complement the previous LuK tool kit for double clutch (LuK 400 0240 10), so that the contents includes all the tools of the current KL-0500-80 KA base tool kit for double clutch and KL-0500-81 KA upgrade tool kit for VW.



| Code    | No.           | Weight Kg |
|---------|---------------|-----------|
| 3411540 | KL-0500-61 KA | 3.000     |



KL-0173-460 K

## RE-THREADING TOOL KIT

- This special infinitely variable rethreading tool enables fast and cost-saving reforming of damaged threads on wheel studs and wheel bolts, directly on the vehicle
- In this process, the thread is formed back to its original geometry by rolling (forming, pressing, shaping), without cutting
- As a result, the strength of the thread is fully retained, and, in addition, the surface is compacted again
- Unlike thread cutting or filing, no material is removed and the thread maintains the dynamic load capacity which is up to 2 times higher, even after the repair



NEW

| Code    | No.           | For thread | Thread type | Pitch | Pieces | Weight Kg |
|---------|---------------|------------|-------------|-------|--------|-----------|
| 3436217 | KL-0173-460 K | M50-M110   | Right/Left  | 1,5   | 9      | 3.000     |

KL-0173-460X

## THREAD ROLLING SET

- By using the thread rolling set, the re-threading tool KL-0173-460 K is also suitable for right-hand thread with 2 mm pitch



NEW

| Code    | No.          | Pitch | Number of rollers | Pieces | Weight Kg |
|---------|--------------|-------|-------------------|--------|-----------|
| 3436098 | KL-0173-4601 | 1,0   | 3                 | 3      | 0.350     |
| 3436160 | KL-0173-4604 | 2,0   | 3                 | 3      | 0.350     |

KL-0173-612 A

## RE-THREADING TOOL FOR WHEEL STUDS

- Universal use for cars and vans, thread size covers approx. 80% of approved vehicles with wheel studs
- Fast, chipless and cost-saving recovery of damaged threads on wheel studs and wheel bolts without material removal
- As a result, the strength of the wheel studs or wheel bolts is fully retained
- Compact design, drive with conventional hexagonal socket with reversible ratchet

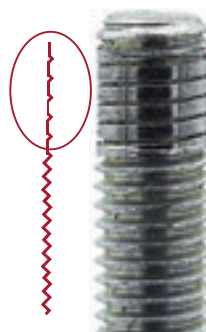


Image: Damaged thread in the upper area - functionality is no longer given



NEW

| Code    | No.           | For thread | Drive connector hexagon | Weight Kg |
|---------|---------------|------------|-------------------------|-----------|
| 3461874 | KL-0173-612 A | M12x1,5    | 41mm                    | 0.240     |

# VIDEOSCOPE FOR VISUAL ANALYSIS

**NEW**


Videoscope Ø 3.9 mm – KL-0880-10 K

KL-0880-10 K

## VIDEOSCOPE

8 pieces

- › Extremely slim micro camera with Ø 3.9 mm
- › Dust- and water-proof lens with adjustable LED illumination
- › ±180° 2-way articulation enables photo, video, live viewing to front and rear
- › Professional photo and video documentation with date and time stamp
- › Connection with smartphone, tablet and laptop etc. possible



| Code    | No.          | Display size | Screen resolution | Total swivel angle | Number of lamps | Battery capacity | Storage        | Width mm | Height mm | Depth mm | Weight Kg |
|---------|--------------|--------------|-------------------|--------------------|-----------------|------------------|----------------|----------|-----------|----------|-----------|
| 3444910 | KL-0880-10 K | 5,0"         | 1280x720          | +/- 180°           | 6               | 5.000 mAh        | Hard shell bag | 350      | 70        | 260      | 1.200     |

245610

## MANUAL BENDING TOOL SET

hydraulic, 9 pieces

- For soft copper pipes EN 1057 up to 22 mm (also heat-insulated), composite pipes up to 20 mm as well as precision steel pipes EN 10305-3 (DIN 2394) up to 18 x 1.5 mm
- With 7 bending formers for pipes with Ø 10, 12, 14, 15, 18, 20 and 22 mm and corresponding counter-supports
- Hydraulic drive without great effort

• SPECIAL ORDER



| Code    | No.    | Contents                                                                                                                            | Pieces | Weight Kg |
|---------|--------|-------------------------------------------------------------------------------------------------------------------------------------|--------|-----------|
| 4635230 | 245610 | 1 Base unit, hydraulic No. 245670<br>7 Bending tools<br>for pipes with Ø 10, 12, 14, 15, 18, 20, 22 mm<br>1 plastic case No. 245590 | 9      | 5.870     |

280100

## ECCENTRIC ANGLE BENDER

- For round, flat and angle material made of steel, copper and aluminium up to 90°
- With infinitely adjustable angular stop
- With length stop
- Manual basic unit for mounting on the workbench, with optional base frame No. 268500 also suitable for stationary use

• SPECIAL ORDER



| Code    | No.    | Weight Kg |
|---------|--------|-----------|
| 4535010 | 280100 | 32.500    |

1100-278601

## MANUAL BENDING TOOL SET IN L-BOXX® 136

in L-BOXX® 136, 12 pieces

- Precision steel pipes EN 10305-3 (DIN 2394)
- Hydraulic pipes EN 10305-1 (DIN 2391) with 1.0 - 2.0 mm wall thicknesses
- Composite pipes up to 16 mm
- Bendable stainless steel tubes with wall thicknesses from 1.0 - 1.5 mm

• SPECIAL ORDER



| Code    | No.         | Contents                                                                                                                                                                                                                                                   | Width mm | Height mm | Depth mm | Weight Kg |
|---------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|----------|-----------|
| 1611526 | 1100-278601 | 1 Basic frame 6-18 mm No. 278670, 1 Bending lever 6-18 mm attachable No. 278680<br>8 Aluminium bending formers for pipes with Ø 6, 8, 10, 12, 14, 15, 16, 18 mm<br>1 Pipe cutter 3-35 mm Ø No. 2180 3, 1 Pin punch 3 mm<br>+ GEDORE L-BOXX® 136 No. 1100 L | 444      | 152       | 360      | 8.280     |



# SHEETMETAL & TOOL ASSORTMENTS

**GEDORE has perfected workshop organisation and storage with its tool ranges and inserts.**

GEDORE offers a wide range of organised applications set in high-density foam or plastic inserts. To ensure that workers at every workplace have optimally adapted sets and the greatest flexibility in selecting the tools they need, GEDORE offers tool sets tailored to motor vehicles, commercial vehicles, electrical installations or general use.

Safe and organised storage of tools is increasingly important. That is why GEDORE has developed the module system:

Tool inserts made of high-density foam, adapted to the drawer sizes of GEDORE tool trolleys and the compartments of toolboxes and tool chests.

If you don't find the tools that you need from an already vast array of tool arrangements, foam inserts can be custom developed to include the tools that you need to get the job done.



## CLEVER SOLUTIONS

Ideally suited for GEDORE tool trolleys, toolboxes, and tool chests

## EVERYTHING SAFELY STOWED AWAY

- Clearly arranged storage
- Safe transport
- Space-saving storage
- Versatile combination

## SPACE SAVING



### PLASTIC INSERTS

- Made of impact-resistant ABS plastic
- Oil and acid resistant
- The tool lies perfectly in position and is protected from damage
- Recessed grips make it easier to take out the tool

### FOAM INSERTS

- Simple visual check due to 2-coloured foam inserts
- Particularly suitable for work in sensitive areas where it must be ensured that no tools are left behind.
- Bottom layer blue, top layer black.  
The colour blue shows missing tools
- Clearly visible tool contours make it easier to put the tool back into the right nest
- The tool lies perfectly in place and is protected from damage
- Recessed grips make it easier to remove the tool
- Resistant to oils and greases
- Easy to clean with water and soap



**1260**Toolbox,  
3 compartments

- › With riveted joints.
- › Strong structure, smooth and easy opening and closing.
- › Maximum access to bottom tray.
- › Lockable, phosphated and powder coated to prevent corrosion.

| Code   | No.  | L   | W   | H   |       |
|--------|------|-----|-----|-----|-------|
| 660868 | 1260 | 460 | 248 | 173 | 4.700 |

**1261**Toolbox,  
5 compartments

- › With riveted joints.
- › Strong structure, smooth and easy opening and closing.
- › Maximum access to bottom tray.
- › Lockable, phosphated and powder coated to prevent corrosion.

| Code   | No.  | L   | W   | H   |       |
|--------|------|-----|-----|-----|-------|
| 660876 | 1261 | 460 | 248 | 220 | 6.200 |

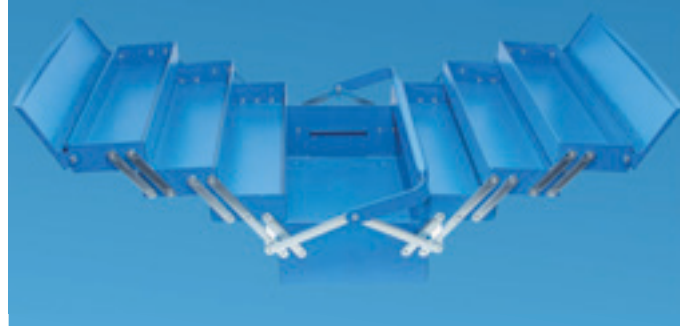
**1282 / 5**Toolbox,  
5 compartments

- › With riveted joints.
- › Strong structure, smooth and easy opening and closing.
- › Maximum access to bottom tray.
- › Plastic Handle: ZA Registration Design 2005/0507.
- › Lockable, phosphated and powder coated to prevent corrosion.
- › Designed to accommodate all modular kits.

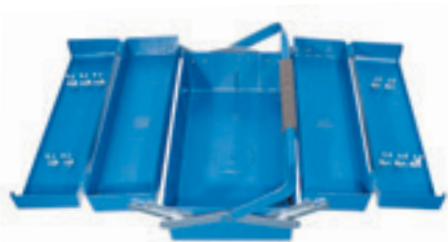
| Code   | No.    | L   | W   | H   |       |
|--------|--------|-----|-----|-----|-------|
| 660957 | 1282/5 | 460 | 248 | 220 | 7.500 |

**1282 / 7**  
Toolbox,  
7 compartments**NEW**

- › With riveted joints
- › Strong structure, smooth and easy opening and closing.
- › Maximum access to bottom tray.
- › Lockable, phosphated and powder coated to prevent corrosion.

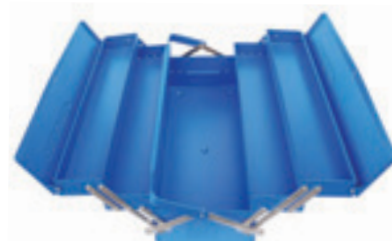


| Code   | No.    | L   | W   | H   |       |
|--------|--------|-----|-----|-----|-------|
| 660960 | 1282/7 | 550 | 248 | 275 | 8.500 |

**1281**Toolbox,  
5 compartments

- › Robust, rust-free, rounded corners.
- › Cast-in lid hinges with non-removeable pins. Lockable.
- › Plastic Handle: ZA Registration Design 2005/0507.
- › Phosphated and powder coated to prevent corrosion.

| Code   | No.  | L   | W   | H   |       |
|--------|------|-----|-----|-----|-------|
| 660949 | 1260 | 460 | 240 | 220 | 6.500 |

**1335**Toolbox,  
5 compartments

- › With riveted joints
- › Strong structure, smooth and easy opening and closing.
- › Maximum access to bottom tray.
- › Lockable, phosphated and powder coated to prevent corrosion.

| Code   | No.  | L   | W   | H   |       |
|--------|------|-----|-----|-----|-------|
| 661058 | 1335 | 550 | 248 | 220 | 6.000 |

# i ORGANISED VERSATILITY



STRONG STRUCTURE, SMOOTH  
OPERATING HINGES

LOCKABLE

PHOSPHATED AND POWDER  
COATED TO PREVENT  
CORROSION

1460: NESTS FOR EASY  
STORAGE OR TRANSPORT

MADE IN SOUTH AFRICA

1460S INCLUDES A SLOT IN  
THE LID

## 1460 Tool trunks



1460-65



1460-65S



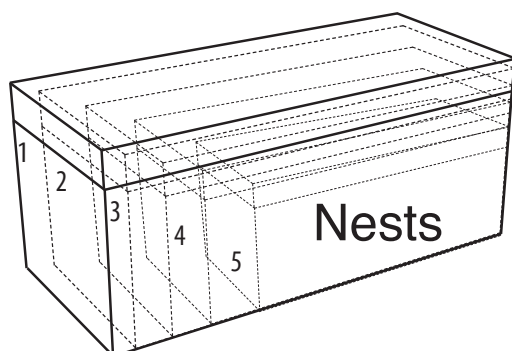
1460-70



1460-80



1460-91



| Code   | No.      | L   | H   | W   | kg     |
|--------|----------|-----|-----|-----|--------|
| 663839 | 1460-65  | 651 | 284 | 280 | 7.000  |
| 663840 | 1460-65S | 651 | 284 | 280 | 7.000  |
| 663841 | 1460-70  | 717 | 314 | 388 | 10.000 |
| 663843 | 1460-80  | 801 | 379 | 471 | 14.000 |
| 663845 | 1460-91  | 910 | 431 | 554 | 14.000 |

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# 1281 / 82 TOOL ASSORTMENTS

The versatile all-rounder

## ORGANISED APPLICATIONS

- Tool assortments packaged in rigid-sheetmetal toolboxes
- High-density foam or plastic inserts
- A tool assortment for every industry
- Custom development available - Lets talk!

# LOCALLY MADE



## TRAYS / INSERTS

- > Inserts Fit Into: 1281 / 1282 Toolboxes 1425 Tool Chest, 1525 / 1581 Tool Trolleys, 1502 Drawer Unit 1401 / 1404 Tool Cabinets.  
**See pages 119-121**
- > Vacuum moulded inserts
- > Trays Fit Into: 1280 / 1281 / 1282 Toolboxes
- > Sheetmetal trays

\*No images supplied for these items

| Code   | No.                     | Code   | No.                       |
|--------|-------------------------|--------|---------------------------|
| 561347 | 1280/81-7M INS*         | 561291 | 1282-SD-MEC-EL INS        |
| 561134 | 1280/81-1B INS          | 561304 | 1282-4/ACC INS            |
| 561169 | 1280/81-1B AF INS*      | 561312 | 1282 - EXT INS            |
| 561142 | 1280/81-D19 INS         | 561322 | 1282 - 6SD INS            |
| 561126 | 1280/81-D19ACC INS      | 561339 | 1282 - UTILITY INS*       |
| 561185 | 1280/81-22-ACC INS      | 561355 | 1282 - D20 EZ INS*        |
| 561193 | 1281/82-1B 62H INS      | 561363 | 1282 - PLIER INS          |
| 561207 | 1280/81-D19/IN19 INS    | 561371 | 1282 - 1B 18 INS*         |
| 561215 | 1280/81-D19 ACC/SKT INS | 561398 | 1282 - 8601 ACC INS*      |
| 561258 | 1280/81-D32/6 INS       | 561150 | 1280/81 - Metal Tray*     |
| 561274 | 1280/81-PL/137/36 INS   | 561266 | 1280/81 - D32 Metal Tray* |
| 561283 | 1282-SD-PH-STB INS      | 561401 | 1282 - Metal Tray         |
|        |                         | 561428 | 1282 - D32 Metal Tray*    |

## 1281-C19-1BM

Tool assortment 1/2"



| Code   | No.          | 1B Spanners                                          | 42-88M Allen Keys     | Screwdrivers                                       | Toolbox / Inserts / Tray                                                                          | C19 Sockets                                                                                                                                       | Accessories                                                                                                                                                                                                                                 |        |
|--------|--------------|------------------------------------------------------|-----------------------|----------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 678155 | 1281-C19-1BM | 6 7 8 9 10 11 12<br>13 14 15 16 17 18<br>19 20 21 22 | 2 2.5 3 4 5 6<br>8 10 | 2150<br>4<br>5.5<br>6.5<br>8<br>2160<br>PH1<br>PH2 | 1281 Toolbox<br>1280/81 D19 ACC Insert<br>1280/81 1B Insert<br>1280/81 D19 Insert<br>1280/81 Tray | 8-5/16 10-3/8 11 12<br>13-1/2 14 15-19/32 16-<br>5/8 17 18-11/16 19-3/4<br>21-13/16 22 24-15/16<br>26-1. 27-1.1/16 29-1.1/8<br>30-1.3/16 32-1.1/4 | 50/20.8 Spark Plug Socket<br>145/250 Universal Pliers<br>1990-75 Extension<br>1990-125 Extension<br>1990-250 Extension<br>137/250 Grip Pliers<br>1987 Sliding T-Bar<br>1993U-10T Rev. Ratchet<br>1997/375 Power Bar<br>1995 Universal Joint | 15.860 |

\*WHILE STOCKS LAST



## 1281 / 1282-D19-1BM-62

Tool assortment 1/2"



Die-cast Aluminium



| Code          | No.             | 1B Spanners                      | Allen Keys                                              | Screwdrivers                                                                                      | Toolbox / Inserts / Tray                                                                                                                                                      | D19 Sockets                                                   | Accessories                                                                                                                                                                                   |        |
|---------------|-----------------|----------------------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| <b>678554</b> | 1281-D19-1BM-62 | 6 7 8 9 10 11 12                 | <b>42-88M</b> 2 2,5 3                                   | <b>2150</b>                                                                                       | 1281 / 1282 Toolbox                                                                                                                                                           | 8 10 11 12 13 14 15                                           | 50/20.8 Spark Plug Socket                                                                                                                                                                     | 16.000 |
| <b>679070</b> | 1282-D19-1BM-62 | 13 14 15 16 17 18<br>19 20 21 22 | 4 5 6 8 10<br><br><b>IN19 sockets</b><br>5 6 8 10 12 14 | 3-150 4 4-150 5.5 6.5 8<br><br><b>2153</b><br>5.5<br><b>2160</b><br>PH1 PH2<br><b>2161</b><br>PH2 | 1281/82-1B/62 Insert<br>1280/81-D19/IN19 Insert<br>1280/81-D19 ACC/SKT<br>Insert<br>1282-SD-PH-STB Insert<br>1282-SD-MEC-EL Insert<br>1281 - 1280/81 Tray<br>1281 - 1282 Tray | 16 17 19 21 22 23 24<br>26 27 28 30 32 7/16AF<br>9/16AF 7/8AF | 143/250 Universal Pliers<br>1990-75 Extension<br>1990-125 Extension<br>1990-250 Extension<br>1995 Universal Joint<br>62/250 Adjustable Wrench<br>1987 Sliding T-Bar<br>1993U-10T Rev. Ratchet | 17.000 |

## 1281 / 1282-C19-1BM-62

Tool assortment 1/2"



\*WHILE STOCKS LAST

Die-cast Aluminium

| Code          | No.             | 1B Spanners                      | Allen Keys                                              | Screwdrivers                                                                                         | Toolbox / Inserts / Tray                                                                                                                                                      | C19 Sockets                                                                                                                                         | Accessories                                                                                                                                                                              |        |
|---------------|-----------------|----------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| <b>678511</b> | 1281-C19-1BM-62 | 6 7 8 9 10 11 12                 | <b>42-88M</b> 2 2,5 3                                   | <b>2150</b>                                                                                          | 1281 / 1282 Toolbox                                                                                                                                                           | 8-5/16 10-3/8 11 12                                                                                                                                 | 50/20.8 Spark Plug Socket                                                                                                                                                                | 16.000 |
| <b>679003</b> | 1282-C19-1BM-62 | 13 14 15 16 17 18<br>19 20 21 22 | 4 5 6 8 10<br><br><b>IN19 sockets</b><br>5 6 8 10 12 14 | 3-150 4 4-150<br>5.5 6.5 8<br><br><b>2153</b><br>5.5<br><b>2160</b><br>PH1 PH2<br><b>2161</b><br>PH2 | 1281/82-1B/62 Insert<br>1280/81-D19/IN19 Insert<br>1280/81-D19 ACC/SKT<br>Insert<br>1282-SD-PH-STB Insert<br>1282-SD-MEC-EL Insert<br>1281 - 1280/81 Tray<br>1282 - 1282 Tray | 13-1/2 14 15-19/32<br>16-5/8 17 18-11/16<br>19-3/4 21-13/16 22<br>24-15/16 26-1. 27-1.1/16<br>29-1.1/8 30-1.3/16<br>32-1.1/4 7/16AF 9/16AF<br>7/8AF | 143/250 Universal Pliers<br>1990-75 Extension<br>1990-125 Extension<br>1990-250 Extension<br>1995 Universal Joint<br>62/250 Adjustable Wrench<br>1987 Sliding T-Bar<br>1993U-10T Ratchet | 17.000 |

## 1282-C19-1BMSP-3PL

Tool assortment 1/2"



| Code   | No.                | 1B Spanners | Allen Keys                   | Screwdrivers                                       | Toolbox / Inserts / Tray                                                                                                                  | C19 Sockets                                                                                                                                            | Accessories                                                                                                                                                                                                                                                             |        |
|--------|--------------------|-------------|------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 679235 | 1282-C19-1BMSP-3PL | 6 7 8 9 10  | 42-88M 2 2,5 3<br>4 5 6 8 10 | 2150<br>4<br>5.5<br>6.5<br>8<br>2160<br>PH1<br>PH2 | 1282 Toolbox<br>1280/81-D19 Insert<br>1280/81-1B Insert<br>1282 - ext Insert<br>1282 - 6SD-3C Insert<br>1282 - pliers Insert<br>1282 Tray | 8-5/16 10-3/8<br>11 12 13-1/2 14<br>15-19/32 16-5/8<br>17 18-11/16<br>19-3/4 21-13/16<br>22 24-15/16 26-1.<br>27-1.1/16 29-1.1/8<br>30-1.3/16 32-1.1/4 | 137/250 Grip Pliers<br>145/250 Universal Pliers<br>1987 Sliding T-Bar<br>1990-75 Extension<br>1990-125 Extension<br>1990-250 Extension<br>1993Z-94 Ratchet + Coupler<br><br>Pliers<br>8132-200 Telephone Pliers<br>8280-200 Combination Pliers<br>8314-160 Side Cutters | 18.000 |
|        |                    | 11 12 13 14 |                              |                                                    |                                                                                                                                           |                                                                                                                                                        |                                                                                                                                                                                                                                                                         |        |
|        |                    | 15 16 17 18 |                              |                                                    |                                                                                                                                           |                                                                                                                                                        |                                                                                                                                                                                                                                                                         |        |
|        |                    | 19 20 21 22 |                              |                                                    |                                                                                                                                           |                                                                                                                                                        |                                                                                                                                                                                                                                                                         |        |
|        |                    |             |                              |                                                    |                                                                                                                                           |                                                                                                                                                        |                                                                                                                                                                                                                                                                         |        |
|        |                    |             |                              |                                                    |                                                                                                                                           |                                                                                                                                                        |                                                                                                                                                                                                                                                                         |        |
|        |                    |             |                              |                                                    |                                                                                                                                           |                                                                                                                                                        |                                                                                                                                                                                                                                                                         |        |
|        |                    |             |                              |                                                    |                                                                                                                                           |                                                                                                                                                        |                                                                                                                                                                                                                                                                         |        |
|        |                    |             |                              |                                                    |                                                                                                                                           |                                                                                                                                                        |                                                                                                                                                                                                                                                                         |        |
|        |                    |             |                              |                                                    |                                                                                                                                           |                                                                                                                                                        |                                                                                                                                                                                                                                                                         |        |

## 1282-C19-1BM-62-PL

Tool assortment 1/2"



| Code   | No.                | 1B Spanners       | Allen Keys                                                         | Screwdrivers                                       | Toolbox / Inserts / Tray                                                                                                                                   | C19 Sockets                                                                                                                                                              | Accessories                                                                                                                                                                                                                                                                                                                            |        |
|--------|--------------------|-------------------|--------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 679240 | 1282-C19-1BM-62-PL | 6 7 8 9 10 11 12  | 42-88M 2 2,5 3<br>4 5 6 8 10<br><br>IN19 sockets<br>5 6 8 10 12 14 | 2150<br>4<br>5.5<br>6.5<br>8<br>2160<br>PH1<br>PH2 | 1282 Toolbox<br>1281/82-1B/62 Insert<br>1280/81-D19/IN19 Insert<br>1280/81-D19 ACC/SKT<br>Insert<br>1282 - 6SD Insert<br>1282 - Pliers Insert<br>1282 Tray | 8-5/16 10-3/8 11 12<br>13-1/2 14 15-19/32 16-<br>5/8 17 18-11/16 19-3/4<br>21-13/16 22 24-15/16<br>26-1. 27-1.1/16 29-1.1/8<br>30-1.3/16 32-1.1/4<br>7/16AF 9/16AF 7/8AF | 50/20.8 Spark Plug Socket<br>62/250 Adjustable Wrench<br>143/250 Universal Pliers<br>1987 Sliding T-Bar<br>1990-75 Extension<br>1990-125 Extension<br>1990-250 Extension<br>1995 Universal Joint<br>1993U-10T Rev. Ratchet<br><br>Pliers<br>8132-200 JC Telephone Pliers<br>8250-200 JC Combination Pliers<br>8316-200 JC Side Cutters | 18.500 |
|        |                    | 13 14 15 16 17 18 |                                                                    |                                                    |                                                                                                                                                            |                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                        |        |
|        |                    | 19 20 21 22       |                                                                    |                                                    |                                                                                                                                                            |                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                        |        |
|        |                    |                   |                                                                    |                                                    |                                                                                                                                                            |                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                        |        |
|        |                    |                   |                                                                    |                                                    |                                                                                                                                                            |                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                        |        |
|        |                    |                   |                                                                    |                                                    |                                                                                                                                                            |                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                        |        |
|        |                    |                   |                                                                    |                                                    |                                                                                                                                                            |                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                        |        |
|        |                    |                   |                                                                    |                                                    |                                                                                                                                                            |                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                        |        |
|        |                    |                   |                                                                    |                                                    |                                                                                                                                                            |                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                        |        |
|        |                    |                   |                                                                    |                                                    |                                                                                                                                                            |                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                        |        |



## 1282-D19-1BM-62-PL

Tool assortment 1/2"



| Code   | No.                | 1B Spanners       | Allen Keys            | Screwdrivers | Toolbox / Inserts / Tray | D19 Sockets           | Accessories                    |        |
|--------|--------------------|-------------------|-----------------------|--------------|--------------------------|-----------------------|--------------------------------|--------|
| 679267 | 1282-D19-1BM-62-PL | 6 7 8 9 10 11 12  | <b>42-88M</b> 2 2,5 3 | <b>2150</b>  | 1282 Toolbox             | 8 10 11 12 13 14 15   | 50/20.8 Spark Plug Socket      | 18.500 |
|        |                    | 13 14 15 16 17 18 | 4 5 6 8 10            | 4 5.5 6.5    | 1281/82-1B/62 Insert     | 16 17 19 21 22 23 24  | 62/250 Adjustable Wrench       |        |
|        |                    | 19 20 21 22       |                       | 8            | 1280/81-D19/IN19 Insert  | 26 27 28 30 32 7/16AF | 143/250 Universal Pliers       |        |
|        |                    |                   | <b>IN19 sockets</b>   | <b>2160</b>  | 1280/81-D19 ACC/SKT      | 9/16AF 7/8AF          | 1987 Sliding T-Bar             |        |
|        |                    |                   | 5 6 8 10 12 14        | PH1 PH2      | Insert                   |                       | 1990-75 Extension              |        |
|        |                    |                   |                       |              | 1282 - 6SD Insert        |                       | 1990-125 Extension             |        |
|        |                    |                   |                       |              | 1282 - Pliers Insert     |                       | 1990-250 Extension             |        |
|        |                    |                   |                       |              | 1282 Tray                |                       | 1995 Universal Joint           |        |
|        |                    |                   |                       |              |                          |                       | 1993U-10T Rev. Ratchet         |        |
|        |                    |                   |                       |              |                          |                       | <b>Pliers</b>                  |        |
|        |                    |                   |                       |              |                          |                       | 8132-200 JC Telephone Pliers   |        |
|        |                    |                   |                       |              |                          |                       | 8250-200 JC Combination Pliers |        |
|        |                    |                   |                       |              |                          |                       | 8316-200 JC Side Cutters       |        |

## 1282-C19Z-1BM-62

Tool assortment 1/2"



| Code   | No.              | 1B Spanners       | Allen Keys            | Screwdrivers | Toolbox / Inserts / Tray | C19 Sockets              | Accessories                |        |
|--------|------------------|-------------------|-----------------------|--------------|--------------------------|--------------------------|----------------------------|--------|
| 679119 | 1282-C19Z-1BM-62 | 6 7 8 9 10 11 12  | <b>42-88M</b> 2 2,5 3 | <b>2150</b>  | 1282 Toolbox             | 8-5/16 10-3/8 11 12      | 50/20.8 Spark Plug Socket  | 18.500 |
|        |                  | 13 14 15 16 17 18 | 4 5 6 8 10            | 3-150 4      | 1281/82-1B/62 Insert     | 13-1/2 14 15-19/32 16-   | 143/250 Universal Pliers   |        |
|        |                  | 19 20 21 22       |                       | 4-150 5.5    | 1280/81-D19/IN19 Insert  | 5/8 17 18-11/16 19-3/4   | 62/250 Adjustable Wrench   |        |
|        |                  |                   | <b>IN19 sockets</b>   | 6.5 8        | 1280/81-D19 ACC/SKT      | 21-13/16 22 24-15/16     | 1987 Sliding T-Bar         |        |
|        |                  |                   | 5 6 8 10 12 14        | <b>2153</b>  | Insert                   | 26-1. 27-1.1/16 29-1.1/8 | 1990-75 Extension          |        |
|        |                  |                   |                       | 5.5          | 1282-SD-PH-STB Insert    | 30-1.3/16 32-1.1/4       | 1990-125 Extension         |        |
|        |                  |                   |                       | <b>2160</b>  | 1282-SD-MEC-EL Insert    | 7/16AF 9/16AF 7/8AF      | 1990-250 Extension         |        |
|        |                  |                   |                       | PH1 PH2      | 1282 Tray                |                          | 1995 Universal Joint       |        |
|        |                  |                   |                       | <b>2161</b>  |                          |                          | 1993Z-94 Ratchet + Coupler |        |
|        |                  |                   |                       | PH2          |                          |                          |                            |        |

## 1282-C19-1BMZ-PL-6SD

Tool assortment 1/2"



Plastic inserts



High-density foam inserts

| Code          | No.                                    | 1B Spanners                           | Allen Keys                          | Screwdrivers                  | Toolbox / Inserts / Tray                                                    | C19 Sockets                                                            | Accessories                                                                                                                                                                                                    | kg     |
|---------------|----------------------------------------|---------------------------------------|-------------------------------------|-------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| <b>679232</b> | 1282-C19-1BMZ-PL-6SD (plastic inserts) | 6 7 8 9 10 11 12<br>13 14 15 16 17 18 | <b>42-88M</b> 2 2,5 3<br>4 5 6 8 10 | <b>2150</b><br>4 5.5 6.5<br>8 | 1282 Toolbox<br>1280/81-D19 Insert<br>1280/81-1B Insert                     | 8-5/16 10-3/8 11 12<br>13-1/2 14 15-19/32 16-5/8 17 18-11/16 19-3/4    | 137/250 Grip Pliers<br>145/250 Universal Pliers<br>1987 Sliding T-Bar                                                                                                                                          | 18.000 |
| <b>679408</b> | 1282-FM-C19-1BMZ-PL-6SD (foam inserts) | 19 20 21 22                           |                                     | <b>2160</b><br>PH1 PH2        | 1282 - EXT Insert<br>1282 - 6SD Insert<br>1282 - Pliers Insert<br>1282 Tray | 21-13/16 22 24-15/16<br>26-1. 27-1.1/16 29-1.1/8<br>30-1.3/16 32-1.1/4 | 1990-75 Extension<br>1990-125 Extension<br>1990-250 Extension<br>1993Z-94 Ratchet + Coupler<br><br><b>Pliers</b><br>8132-200 JC Telephone Pliers<br>8250-200 JC Combination Pliers<br>8316-200 JC Side Cutters |        |

## 1282-D19-1BMZ-PL-6SD

Tool assortment 1/2"



| Code          | No.                  | 1B Spanners                                          | Allen Keys                          | Screwdrivers                                            | Toolbox / Inserts / Tray                                                                                                               | D19 Sockets                                                   | Accessories                                                                                                                                                                                                                                                                             | kg     |
|---------------|----------------------|------------------------------------------------------|-------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| <b>679259</b> | 1282-D19-1BMZ-PL-6SD | 6 7 8 9 10 11 12<br>13 14 15 16 17 18<br>19 20 21 22 | <b>42-88M</b> 2 2,5 3<br>4 5 6 8 10 | <b>2150</b><br>4 5.5 6.5<br>8<br><b>2160</b><br>PH1 PH2 | 1282 Toolbox<br>1280/81-D19 Insert<br>1280/81-1B Insert<br>1282 - EXT Insert<br>1282 - 6SD Insert<br>1282 - Pliers Insert<br>1282 Tray | 8 10 11 12 13 14 15<br>16 17 19 21 22 23 24<br>26 27 28 30 32 | 137/250 Grip Pliers<br>145/250 Universal Pliers<br>1987 Sliding T-Bar<br>1990-75 Extension<br>1990-125 Extension<br>1990-250 Extension<br>1993Z-94 Ratchet + Coupler<br><br><b>Pliers</b><br>8132-200 JC Telephone Pliers<br>8250-200 JC Combination Pliers<br>8316-200 JC Side Cutters | 18.500 |

## 1282-C19-1BMZ-10SD

Tool assortment 1/2"



| Code   | No.                | 1B Spanners                      | Allen Keys     | Screwdrivers                                                                   | Toolbox / Inserts / Tray                                                                                                    | C19 Sockets (679135)                                                                                                                                                                                                    | Accessories                                                                                                                                   | kg     |
|--------|--------------------|----------------------------------|----------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 679135 | 1282-C19-1BMZ-10SD | 6 7 8 9 10 11 12                 | 42-88M 2 2,5 3 | 2150                                                                           | 1282 Toolbox                                                                                                                | 8-5/16 10-3/8 11 12                                                                                                                                                                                                     | 137/250 Grip Pliers                                                                                                                           | 19.500 |
| 679291 | 1282-D19-1BMZ-10SD | 13 14 15 16 17 18<br>19 20 21 22 | 4 5 6 8 10     | 3-150 4<br>4-150 5.5<br>6.5 8<br>2153<br>5.5<br>2160<br>PH1 PH2<br>2161<br>PH2 | 1280/81-D19 Insert<br>1280/81-1B Insert<br>1282 - EXT Insert<br>1282-SD-PH-STB Insert<br>1282-SD-MEC-EL Insert<br>1282 Tray | 13-1/2 14 15-19/32 16-<br>5/8 17 18-11/16 19-3/4<br>21-13/16 22 24-15/16<br>26-1. 27-1.1/16 29-1.1/8<br>30-1.3/16 32-1.1/4<br><br>D19 Sockets (679291)<br>8 10 11 12 13 14 15 16<br>17 18 19 21 22 24 26 27<br>29 30 32 | 145/250 Universal Pliers<br>1987 Sliding T-Bar<br>1990-75 Extension<br>1990-125 Extension<br>1990-250 Extension<br>1993Z-94 Ratchet + Coupler | 19.500 |

## 1281-C19/22-1BA-U3

Tool assortment 1/2"



\*WHILE STOCKS LAST

Die-cast Aluminium

| Code   | No.                | 1B Spanners                                                                                    | Allen Keys                                                        | Screwdrivers                                                                           | Toolbox / Inserts / Tray                                                                             | C19 Sockets                                                                                                                                                              | Accessories                                                                                                                                                                                                                               | kg     |
|--------|--------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 678589 | 1281-C19/22-1BA-U3 | 1/4AF 5/16AF 3/8AF 7/16AF<br>1/2AF 9/16AF 5/8AF<br>11/16AF 3/4AF 13/16AF<br>7/8AF 15/16AF 1.AF | 42-88P 3/32AF 1/8AF<br>5/32AF 3/16AF 7/32AF<br>1/4AF 5/16AF 3/8AF | 2150<br>3-150 4<br>4-150 5.5<br>6.5 8<br>2153<br>5.5<br>2160<br>PH1 PH2<br>2161<br>PH2 | 1281 Toolbox<br>1280/81-1B AF. Insert<br>1280/81-D19 Insert<br>1280/81-22 ACC Insert<br>1280/81 Tray | 8-5/16 10-3/8 11 12<br>13-1/2 14 15-19/32 16-<br>5/8 17 18-11/16 19-3/4<br>21-13/16 22 24-15/16<br>26-1. 27-1.1/16 29-1.1/8<br>30-1.3/16 32-1.1/4<br>7/16AF 9/16AF 7/8AF | 50/20.8 Spark Plug Socket<br>137/250 Grip Pliers<br>141/250 Universal Pliers<br>1987 Sliding T-Bar<br>1990-75 Extension<br>1990-125 Extension<br>1990-250 Extension<br>1997/375 Power Bar<br>1995 Universal Joint<br>1993U-3 Rev. Ratchet | 16.420 |

## 1281/1282-C19/22-1BM-10SD

Tool assortment 1/2"



\*WHILE STOCKS LAST

Die-cast Aluminium



| Code          | No.                  | 1B Spanners                      | Allen Keys            | Screwdrivers                                                                                           | Toolbox / Inserts / Tray                                                                                                                                                 | C19 Sockets                                                                                                                                  | Accessories                                                                                                                                                                                                    | kg     |
|---------------|----------------------|----------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| <b>678538</b> | 1281-C19/22-1BM-10SD | 6 7 8 9 10 11 12                 | <b>42-88M</b> 2 2,5 3 | <b>2150</b>                                                                                            | 1281/1282 Toolbox                                                                                                                                                        | 8-5/16 10-3/8 11 12                                                                                                                          | 50/20.8 Spark Plug Socket                                                                                                                                                                                      | 16.500 |
| <b>679011</b> | 1282-C19/22-1BM-10SD | 13 14 15 16 17 18<br>19 20 21 22 | 4 5 6 8 10            | 3-150<br>4 4-150<br>5.5 6.5<br>8<br><b>2153</b><br>5.5<br><b>2160</b><br>PH1 PH2<br><b>2161</b><br>PH2 | 1281/2<br>1280/81-1B Insert<br>1280/81-D19 Insert<br>1280/81-22-ACC Insert<br><b>1282</b><br>1282-SD-PH-STB Insert<br>1282-SD-MEC-EL Insert<br>1280/81 Tray<br>1282 Tray | 13-1/2 14 15-19/32<br>16-5/8 17 18-11/16 19<br>21-13/16 22 24-15/16<br>26-1. 27-1.1/16 29-1.1/8<br>30-1.3/16 32-1.1/4<br>7/16AF 9/16AF 7/8AF | 137/250 Grip Pliers<br>145/250 Universal Pliers<br>1987 Sliding T-Bar<br>1990-75 Extension<br>1990-125 Extension<br>1990-250 Extension<br>1997/375 Power Bar<br>1995 Universal Joint<br>1993U-10T Rev. Ratchet | 18.500 |

## 1281/1282-D19/22-1BM-10SD

Tool assortment 1/2"



\*WHILE STOCKS LAST

Die-cast Aluminium



| Code          | No.                  | 1B Spanners                      | Allen Keys            | Screwdrivers                                                                                        | Toolbox / Inserts / Tray                                                                                                                                                        | D19 Sockets                                        | Accessories                                                                                                                                                                                                    | kg     |
|---------------|----------------------|----------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| <b>678546</b> | 1281-D19/22-1BM-10SD | 6 7 8 9 10 11 12                 | <b>42-88M</b> 2 2,5 3 | <b>2150</b>                                                                                         | 1281/1282 Toolbox                                                                                                                                                               | 8 9 10 11 12 13 14                                 | 50/20.8 Spark Plug Socket                                                                                                                                                                                      | 16.500 |
| <b>679089</b> | 1282-D19/22-1BM-10SD | 13 14 15 16 17 18<br>19 20 21 22 | 4 5 6 8 10            | 3-150 4<br>4-150 5.5 6.5<br>8<br><b>2153</b><br>5.5<br><b>2160</b><br>PH1 PH2<br><b>2161</b><br>PH2 | <b>1281/2</b><br>1280/81-1B Insert<br>1280/81-D19 Insert<br>1280/81-22-ACC Insert<br><b>1282</b><br>1282-SD-PH-STB Insert<br>1282-SD-MEC-EL Insert<br>1280/81 Tray<br>1282 Tray | 15 16 17 18 19 20 21<br>22 24 26 27 28 29<br>30 32 | 137/250 Grip Pliers<br>145/250 Universal Pliers<br>1987 Sliding T-Bar<br>1990-75 Extension<br>1990-125 Extension<br>1990-250 Extension<br>1997/375 Power Bar<br>1995 Universal Joint<br>1993U-10T Rev. Ratchet | 18.500 |



## 1281/1282-C32/19-1BM-62

Tool assortment 1/2"



Die-cast Aluminium

\*WHILE STOCKS LAST

| Code          | No.                | 1B Spanners                      | Allen Keys                                              | Screwdrivers                                                                                     | Toolbox / Inserts / Tray                                                                                                                                                                                                     | C19 / C32 Sockets                                                                                                                                                                                                              | Accessories                                                                                                                                                                                                                                                                                    | kg     |
|---------------|--------------------|----------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| <b>678740</b> | 1281-C32/19-1BM-62 | 6 7 8 9 10 11 12                 | <b>42-88M</b> 2 2,5 3                                   | <b>2150</b>                                                                                      | 1281/1282 Toolbox                                                                                                                                                                                                            | <b>C19</b> 8-5/16 10-3/8 11 12                                                                                                                                                                                                 | 50/20.8 Spark Plug Socket                                                                                                                                                                                                                                                                      | 25.500 |
| <b>679038</b> | 1282-C32/19-1BM-62 | 13 14 15 16 17 18<br>19 20 21 22 | 4 5 6 8 10<br><br><b>IN19 sockets</b><br>5 6 8 10 12 14 | 3-150 4 4-150<br>5.5 6.5 8<br><b>2153</b><br>5.5<br><b>2160</b><br>PH1 PH2<br><b>2161</b><br>PH2 | 1281/2<br>1281/82-1B/62 Insert<br>1280/81-D19/IN19 Insert<br>1280/81-D19 ACC/SKT<br>Insert<br>1280/81-D32/6 Insert<br><b>1282</b><br>1282-SD-PH-STB Insert<br>1282-SD-MEC-EL Insert<br>1280/81 - D32 Tray<br>1282 - D32 Tray | 13-1/2 14 15-19/32 16-<br>5/8 17 18-11/16 19-3/4<br>21-13/16 22 24-15/16<br>26-1. 27-1.1/16 29-1.1/8<br>30-1.3/16 32-1.1/4<br>7/16AF 9/16AF 7/8AF<br><br><b>C32</b> 1.3/8AF 36-1.7/16<br>38-1.1/2 41-1.5/8<br>46-1.13/16 50-2. | 62/250 Adjustable Wrench<br>143/250 Universal Pliers<br>1987 Sliding T-Bar<br>1990-75 Extension<br>1990-125 Extension<br>1990-250 Extension<br>1995 Universal Joint<br>1993U-10T Rev. Ratchet<br>3287/447 Sliding T-Bar<br>3290-200mm Extension<br>3290-400mm Extension<br>3293U-1/440 Ratchet | 26.500 |

## 1282-D32/19-1BM-62

Tool assortment 1/2" + 3/4"



| Code          | No.                | 1B Spanners                                          | Allen Keys                                                               | Screwdrivers                                                                                                    | Toolbox / Inserts / Tray                                                                                                                                                                      | D19 / D32 Sockets                                                                                                                   | Accessories                                                                                                                                                                                                                                                                                                                      | kg     |
|---------------|--------------------|------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| <b>679097</b> | 1282-D32/19-1BM-62 | 6 7 8 9 10 11 12 13<br>14 15 16 17 18 19<br>20 21 22 | <b>42-88M</b> 2 2,5 3<br>4 5 6 8 10<br><br><b>IN19</b> 5 6 8 10<br>12 14 | <b>2150</b><br>3-150 4 4-150<br>5.5 6.5 8<br><b>2153</b><br>5.5<br><b>2160</b><br>PH1 PH2<br><b>2161</b><br>PH2 | 1282 Toolbox<br>1280/81-1B/62 Insert<br>1280/81-D19/IN19 Insert<br>1280/81-D19 ACC/SKT<br>Insert<br>1280/81-D32/6 Insert<br>1282-SD-PH-STB Insert<br>1282-SD-MEC-EL Insert<br>1282 - D32 Tray | <b>D19</b> 8 10 11 12 13 14<br>15 16 17 19 21 22<br>23 24 26 27 28 30 32<br>7/16AF 9/16AF 7/8AF<br><br><b>D32</b> 34 36 38 41 46 50 | 50/20.8 Spark Plug Socket<br>62/250 Adjustable Wrench<br>143/250 Universal Pliers<br>1987 Sliding T-Bar<br>1990-75 Extension<br>1990-125 Extension<br>1990-250 Extension<br>1995 Universal Joint<br>1993U-10T Rev. Ratchet<br>3287/447 Sliding T-Bar<br>3290-200mm Extension<br>3290-400mm Extension<br>3293U-1/440 Rev. Ratchet | 25.610 |



# 1401 / 1401 PRO

Tool cabinet / assortment



12,5 1/2" mm

- > Ideal for the professional workshop.
- > Rigid sheetmetal structure with precision CNC punched pegboard.
- > Three easy-slide drawers incorporating extra strong ball bearing slide mechanisms.
- > One moveable tray, spanner and screwdriver rack and an assortment of moveable hanging hooks for maximum flexibility.
- > Lockable.
- > Phosphated to prevent corrosion.
- > Blue and grey powder coated.
- > L=650 x W=250 x H=970.

| Code   | No.                           | Accessories                    |                       |                               |                         |                  |  |        |
|--------|-------------------------------|--------------------------------|-----------------------|-------------------------------|-------------------------|------------------|--|--------|
| 661155 | 1401 - EMPTY with Accessories | 30 x Plastic Holders with Pins | 1 x Tool Rack: 17-Pin | 1 x Screwdriver Rack: 6-Piece | 1 x Double Storage Tray | 1 x Punch Holder |  | 45.000 |

| Code   | No.                                   | 1B Spanners                                          | Allen Keys                                             | Screwdrivers                                                                          | Tool Cabinet                                                                                                                                                   | C19 Sockets                                                                                                                                                                      | Accessories                                                                                                                                                                                                                                          | Accessories                                                             |        |
|--------|---------------------------------------|------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|--------|
| 661163 | 1401 PRO - With Accessories and Tools | 6 7 8 9 10 11 12 13<br>14 15 16 17 18 19<br>20 21 22 | 42-88M 2 2,5 3<br>4 5 6 8 10<br>IN19 5 6 8 10<br>12 14 | 2150 6.5 8<br>3-150<br>4 4-150 5.5<br>2153 5.5<br>2160 PH1 PH2<br>2161 6-Piece<br>PH2 | 1401<br>Accessories<br>30 x Plastic Holders with Pins<br>1 x Tool Rack: 17-Pin<br>1 x Double Storage Tray<br>1 x Screwdriver Rack: 6-Piece<br>1 x Punch Holder | 8-5/16 10-3/8<br>11 12 13-1/2 14<br>15-19/32 16-5/8<br>17 18-11/16<br>19-3/4 21-13/16<br>22 24-15/16 26-1.<br>27-1.1/16 29-1.1/8<br>30-1.3/16 32-1.1/4<br>7/16AF 9/16AF<br>7/8AF | 62/250 Adjustable Wrench<br>137/250 Grip Pliers<br>143/250 Universal Pliers<br>225/250 Pipe Wrench<br>1987 Sliding T-Bar<br>1990-75 Extension<br>1990-125 Extension<br>1990-250 Extension<br>1993Z-94 Ratchet + Coupler<br>8601/500 Ball Pein Hammer | 1995 Universal Joint<br>8531/300 Tin Snips<br>50/20.8 Spark Plug Socket | 55.000 |

# 1500W / 1500M

Artisan workstation

- > Ideal for the professional workshop or DIY enthusiast.

Wooden Top - Drawer unit not included



Galvanised Metal Top - Drawer unit not included



| Code   | No.       | Surface | L       | W      | H      |        |
|--------|-----------|---------|---------|--------|--------|--------|
| 663166 | 1500-12 W | Wooden  | 1200 mm | 700 mm | 900 mm | 34.000 |
| 663174 | 1500-15 W | Wooden  | 1500 mm | 700 mm | 900 mm | 43.900 |
| 663182 | 1500-20 W | Wooden  | 2000 mm | 700 mm | 900 mm | 53.000 |

| Code   | No.       | Surface          | L       | W      | H      |        |
|--------|-----------|------------------|---------|--------|--------|--------|
| 663557 | 1500-12 M | Galvanised Metal | 1200 mm | 700 mm | 900 mm | 47.800 |
| 663565 | 1500-15 M | Galvanised Metal | 1500 mm | 700 mm | 900 mm | 53.200 |
| 663573 | 1500-20 M | Galvanised Metal | 2000 mm | 700 mm | 900 mm | 59.000 |

# 1401L / 1401L PRO

Tool cabinet / assortment

12.5 1/2 mm

- > Ideal for the professional workshop.
- > Rigid sheetmetal structure with precision CNC punched pegboard.
- > Five easy-slide drawers incorporating extra strong ball bearing slide mechanisms.
- > One moveable tray, spanner and screwdriver rack and an assortment of moveable hanging hooks for maximum flexibility.
- > Lockable.
- > Phosphated to prevent corrosion.
- > Blue and grey powder coated.
- > L=1300 x W=250 x H=970.



| Code   | No.                            | Accessories              |                         |                       |                                |  |  |        |
|--------|--------------------------------|--------------------------|-------------------------|-----------------------|--------------------------------|--|--|--------|
| 662607 | 1401L - EMPTY with Accessories | 1 x Hook 1 Pin: 10-Piece | 1 x Double Storage Tray | 1 x Tool Rack: 17-Pin | 1 x Screwdriver Rack: 10-Piece |  |  | 90.000 |

| Code   | No.                                    | Spanners                                                                                                                                                                                                            | Allen Keys                                                                                                                                                                       | Screwdrivers                                                                                                                   | Tool Cabinet                                                                                                                                      | C19 Sockets                                                                                                                     | Accessories                                                                                                                                                                                                                                                                                                                                                                                                | Accessories                                                                                                                                                                                                                                                                                                 |         |
|--------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 662608 | 1401L PRO - With Accessories and Tools | <b>1B/17M</b> 6 7 8 9 10<br>11 12 13 14 15 16 17<br>18 19 20 21 22<br><br><b>No.2/11M</b> 6x7 8x9<br>10x11 12x13 14x15<br>16x17 17x19 18x19<br>20x22 21x23 24x30<br><br><b>534/9M</b> 10 11 12 13<br>14 15 16 17 19 | <b>42-88M</b> 2 2,5 3<br>4 5 6 8 10<br><br><b>IN19</b> 5 6 8 10<br>12 14<br><br><b>42KL-7M</b> 1,5 2<br>2,5 3 4 5 6<br><br><b>43TX-9M</b> T7 T8<br>T9 T10 T15 T20<br>T25 T30 T40 | <b>2150</b><br>3-150 4<br>4-150 5,5<br>6,5 8<br><br><b>2153</b><br>5,5<br><br><b>2160</b><br>PH1 PH2<br><br><b>2161</b><br>PH2 | 1401L<br><br><b>Accessories</b><br>1 x Hook 1 Pin: 10-piece<br>1 x Tool Rack: 17-Pin<br>1 x Double Storage Tray<br>1 x Screwdriver Rack: 10-Piece | 8-5/16 10-3/8<br>11 12 13-1/2 14<br>15-19/32 16-5/8<br>17 19-3/4 22 23<br>24-15/16 26-1.<br>27-1.1/16 28 30-<br>1.3/16 32-1.1/4 | 43TV TX Gauge Tester<br>8250-200JC Combination Pliers<br>9534.05 Tape Measure<br>1993Z-94 PZK Ratchet & Coupler<br>227/350 Pipe Wrench<br>1993 U-10K Plastic Ratchet<br>VDE ELS/PH Screwdriver Set<br>8601-500 Ball Pein Hammer<br>8132-200JC Telephone Pliers<br>62/300 Adjustable Wrench<br>8380-250TL Tower Pincers<br>50-20.8 Spark Plug Socket<br>145/250 Multigrip Pliers<br>8316-200JC Side Cutters | 9930.000 Torch<br>1987 Sliding T-Bar<br>1995 Universal Joint<br>1990-75 Extension<br>1990-125 Extension<br>1990-250 Extension<br>403 Hacksaw<br>36/1 Strap Wrench<br>8516-300 Tin Snips<br>106 Tool Punch Set<br>137/250 Grip Pliers<br>4611 Power Tester<br>S8000 Circlip Pliers Set<br>D30 FMZ Socket Set | 115.400 |

## 1502

Drawer units

- > Sheetmetal drawer units for 1500 workbenches.



| Code   | No.    | L   | W   | H   |        |
|--------|--------|-----|-----|-----|--------|
| 663506 | 1502-2 | 565 | 395 | 365 | 18.500 |
| 663522 | 1502-3 | 565 | 395 | 365 | 19.200 |

## Bench vice

- > All steel construction.
- > Cast iron nut on spindle.
- > Robotic welded construction.
- > Steel anvil block.



| Code     | No.      | mm  | Jaw Length<br>[mm] | Throat Depth<br>[mm] | Proof Load<br>Kn |  |
|----------|----------|--------------------------------------------------------------------------------------|--------------------|----------------------|------------------|-----------------------------------------------------------------------------------|
| 3600125G | BV-120mm | 140                                                                                  | 120                | 60                   | 2.5              | 5.400                                                                             |

## Engineers vice

- > Heavy duty engineering vice.
- > All steel robot welded construction.
- > Robust sturdy design which can withstand hammer strikes.
- > Replaceable spindle and nut, the nut being virtually unbreakable.
- > Replaceable jaw plates, which are serrated for better grip.
- > Jaw inserts case hardened to between 540-650 HV (52-57 Rockwell).
- > Tensile strength of handle – 425 MPa – complies with SANS 6892.



| Code     | No.      | mm  | Jaw Length<br>[mm] | Throat Depth<br>[mm] | Proof Load<br>Kn |  |
|----------|----------|----------------------------------------------------------------------------------------|--------------------|----------------------|------------------|-------------------------------------------------------------------------------------|
| 3600150G | EV-150mm | 170                                                                                    | 150                | 90                   | 5                | 17.500                                                                              |
| 3600200G | EV-200mm | 250                                                                                    | 200                | 100                  | 9                | 22.800                                                                              |
| 3600250G | EV-250mm | 250                                                                                    | 250                | 125                  | 10               | 37.600                                                                              |

## Spares

| Code    | No.                        |
|---------|----------------------------|
| 8100001 | BV-120mm Jaw Set Insert    |
| 7400100 | BV-120mm Spindle & Nut Set |

| Code    | No.                     | Code    | No.                     |
|---------|-------------------------|---------|-------------------------|
| 8200001 | EV-150mm Jaw Set Insert | 8300002 | EV-200mm Spindle        |
| 8200002 | EV-150mm Spindle        | 8400001 | EV-250mm Jaw Set Insert |
| 8300001 | EV-200mm Jaw Set Insert | 8300002 | EV-250mm Spindle        |

## 1450S Tool panel

- > Ideal for the professional workshop or DIY enthusiast.
- > Rigid sheetmetal pegboard structure.
- > Numerous accessory options available.
- > Phosphated to prevent corrosion.
- > Grey powder coated.
- > L=570 x W=20 x H=1010mm.

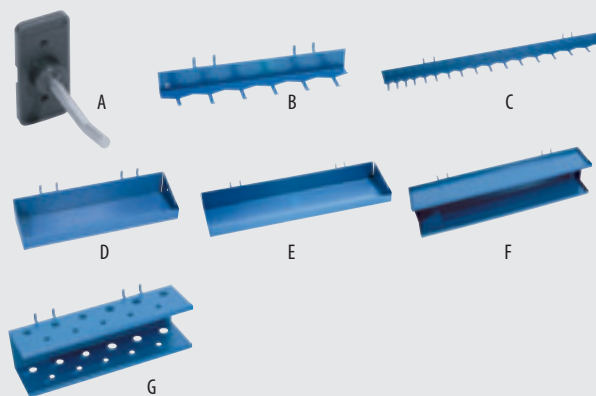


\* Tools not included.

| Code        | No.                                                |  |
|-------------|----------------------------------------------------|-------------------------------------------------------------------------------------|
| 663123      | 1450S - Pegboard Only                              | 4.900                                                                               |
| 663352      | 1450S - With Accessories (Tools Not Included)      | 5.200                                                                               |
| Accessories | 1 x PA-H3 Tool Rack: 17-Pin 10 x PA-H1 Hook: 1-Pin |                                                                                     |

## Pegboard Accessories

> The following accessories are for the 1401, 1401L, 1404 and 1450S



| Code     | No.                                                                                         |   |
|----------|---------------------------------------------------------------------------------------------|---|
| 664111   | PA-H1 Hook: 1-Pin, 10-Piece                                                                 | A |
| 664014   | PA-H2 Tool Rack: 6-Pin                                                                      | B |
| 664022   | PA-H3 Tool Rack: 17-Pin                                                                     | C |
| 664030   | PA-T1 Small Storage Tray                                                                    | D |
| 664049   | PA-T2 Large Storage Tray                                                                    | E |
| 664057   | PA-T3 Double Storage Tray                                                                   | F |
| Code     | No.                                                                                         |   |
| 664065   | PA-T4 Screwdriver Rack - Holds 11 Screwdrivers                                              | G |
| 664138   | PA - Starter Pack                                                                           |   |
| Contents | 10 x PA-H1 Hook: 1-Pin<br>1 x PA-H3 Tool Rack: 17-Pin<br>1 x PA-T4 Screwdriver Rack - Holds |   |
|          | 11 Screwdrivers<br>1 x PA-T3 Double Storage Tray                                            |   |

## 1425-5

Tool chest / assortment



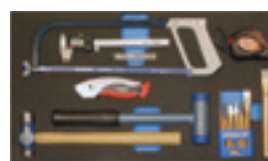
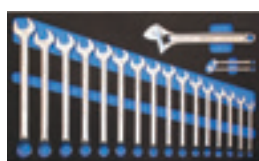
Empty



With Tools

1/4" 1/2"

- > Six-compartment sheetmetal tool chest.
- > Lockable.
- > Five easy-slide drawers, incorporating full extension ball bearing slide mechanisms.
- > Drawer latch incorporated into each drawer.
- > Strong structure, smooth operating hinges.
- > Can be stacked on 1525 tool trolley.
- > Retractable spring-loaded handles.
- > Load capacity per drawer 35kg.
- > Phosphated and powder coated to prevent corrosion.
- > High-density foam inserts.
- > L=687 x W=400 x H=491mm.



Code No.

660965 1425 / 5 Tool Chest - EMPTY

kg

35.500

| Code   | No.                           | Tool Cabinet | 1425/41/1B Foam Insert    | 1425/41/D19 Foam Insert    | 1425/27/PL Foam Insert         | 1425/27/SD Foam Insert               | 1425/27/HM Foam Insert  |  |
|--------|-------------------------------|--------------|---------------------------|----------------------------|--------------------------------|--------------------------------------|-------------------------|-------------------------------------------------------------------------------------|
| 660969 | 1425 / 5                      | 1425 / 5     | 1B 6-24 Spanners (18)     | C19 8-32 Sockets (24)      | 8000/A21 Circlip Pliers        | <b>2150</b> 4-150 6.5 6.5-200 8      | 403 Hacksaw             | 59.500                                                                              |
|        | Comprehensive -<br>With Tools |              | 60CP-250 Shifting Spanner | 50/20.8 Spark Plug SKT     | 8000/J21 Circlip Pliers        | <b>2153</b> 5.5                      | 9000.00 Digital Vernier |                                                                                     |
|        |                               |              |                           | 1987 Sliding T-Bar         | 8000/A2 Circlip Pliers         | <b>2160</b> PH1 PH2 PH3              | 702/21M Feeler -        |                                                                                     |
|        |                               |              |                           | IN19 5-19 Sockets (10)     | 8000/J2 Circlip Pliers         | <b>2161</b> PH2                      | Gauge Set               |                                                                                     |
|        |                               |              |                           | TX19 E10-24 Sockets (8)    | 137/250 Vice Grip              | No.400 8 x 10 Flare Nut Spanner      | 9100 Utility Knife      |                                                                                     |
|        |                               |              |                           | 1990/75mm Extension        | 145/250 Universal Pliers       | No.400 11 x 13 Flare Nut Spanner     | 9534.05 Tape Measure    |                                                                                     |
|        |                               |              |                           | 1990/125mm Extension       | 8132/200 JC Telephone Pliers   | No.400 12 x 14 Flare Nut Spanner     | 248ST/40 Recoil Free    |                                                                                     |
|        |                               |              |                           | 1990/250mm Extension       | 8250/200 JC Combination Pliers | No.400 17 x 19 Flare Nut Spanner     | Hammer                  |                                                                                     |
|        |                               |              |                           | ITX19 T20-T50 Sockets (7)  | 8316-200 JC Side Cutters       | No.400 22 x 24 Flare Nut Spanner     | 8601/500g Hammer        |                                                                                     |
|        |                               |              |                           | No.20 4-13 Sockets (11)    | 42/88M Allen Key Set           | 26R Tubular Box Spanners - 8x9 10x11 | 106 Chisel & Punch Set  |                                                                                     |
|        |                               |              |                           | 2093Z/94 Ratchet + Coupler | 43TX/09 TX Allen Key Set       | 12x13 14x15                          | (6-Piece)               |                                                                                     |
|        |                               |              |                           | 2090/4 Extension           |                                | 26RS/2 Stepped Tommy Bar             | 95/200 Flat Chisel      |                                                                                     |
|        |                               |              |                           | 2098 Driving Handle        |                                |                                      |                         |                                                                                     |
|        |                               |              |                           | 1993-U10T Rev. Ratchet     |                                |                                      |                         |                                                                                     |
|        |                               |              |                           | 1997/375mm Swivel Handle   |                                |                                      |                         |                                                                                     |
|        |                               |              |                           | 1995 Universal Joint       |                                |                                      |                         |                                                                                     |

## 1410

Artisan toolchest



- > Four-drawer sheetmetal tool chest.
- > Lockable.
- > Strong structure, full extension ball bearing slides.
- > Rubber anti-slip mats in each drawer.
- > Drawer latch incorporated into each drawer.
- > Can be stacked on 1510 tool trolley and other 1410 tool chests.
- > Retractable spring-loaded handles.
- > Phosphated and powder coated to prevent corrosion.
- > Load capacity per drawer 35kg.
- > L=574 x W=417 x H=384mm.

## 1425 + 1525 Concept



Code No.  
660817 1410

kg  
23.000

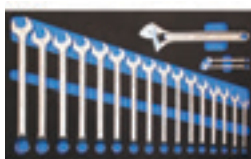


## 1525

Tool trolley /  
assortment

1/2"

- > Ideal for the professional workshop.
- > Rigid sheetmetal structure.
- > Five standard and two deep easy-slide drawers incorporating extra strong ball bearing slider mechanisms.
- > Central drawer locking mechanism.
- > Two swivel castors (one with safety brake) for maximum mobility and safety.
- > Handle for easy manoeuvrability.
- > Load capacity of 300kg.
- > Load capacity per drawer 35kg.
- > Blue and grey powder coated.
- > Drawer latch incorporated into each drawer.
- > Empty or with tools.
- > L=758 x W=602 x H=914mm.



| Code   | No.                       |        |
|--------|---------------------------|--------|
| 662794 | 1525 Tool Trolley - EMPTY | 55.000 |

| Code   | No.  | Tool Trolley               | 1425/41/1B Foam Insert    | 1425/41/D19 Foam Insert   | 1425/27/PL Foam Insert        | 1425/27/SD Foam Insert         | 1425/27/HM Foam Insert           |        |
|--------|------|----------------------------|---------------------------|---------------------------|-------------------------------|--------------------------------|----------------------------------|--------|
| 661325 | 1525 | 1525                       | 1B 6-24 Spanners (18)     | C19 8-32 Sockets (24)     | 8000/A21 Circlip Pliers       | 2150 4-150 6.5 6.5-200 8       | 403 Hacksaw                      | 84.400 |
|        |      | Comprehensive - With Tools | 60CP-250 Shifting Spanner | No.50/20.8 Spark Plug SKT | 8000/J21 Circlip Pliers       | 2153 5.5                       | 9000.00 Digital Vernier          |        |
|        |      |                            |                           | 1987 Sliding T-Bar        | 8000/A2 Circlip Pliers        | 2160 PH1 PH2 PH3               | No.702/21M FeelerGauge Set       |        |
|        |      |                            |                           | IN19 5-19 Sockets (10)    | 8000/J2 Circlip Pliers        | 2161 PH2                       | 9100.00 Utility Knife            |        |
|        |      |                            |                           | TX19 E10-24 Sockets (8)   | 137/250 Vice Grip             | 400 8 x 10 Flare Nut Spanner   | 9534.05 Tape Measure             |        |
|        |      |                            |                           | 1990 75-125-250mm Ext     | 145/250 Universal Pliers      | 400 11 x 13 Flare Nut Spanner  | 248ST/40 Recoil Free- Hammer     |        |
|        |      |                            |                           | ITX19 T20-T50 Sockets (7) | 8132/200JC Telephone Pliers   | 400 17 x 19 Flare Nut Spanner  | 8601/500g Ball PeinHammer        |        |
|        |      |                            |                           | No.20 4-13 Sockets (11)   | 8250/200JC Combination Pliers | 400 22 x 24 Flare Nut Spanner  | 106 Chisel & Punch Set (6-Piece) |        |
|        |      |                            |                           | 2093Z/94 Rev. Ratchet     | 8316-200 JC Side Cutters      | 26R Tubular Box Spanners - 8x9 | 95/200 Flat Chisel               |        |
|        |      |                            |                           | 2098 Driving Handle       | 42/88M Allen Key Set          | 10x11 12x13 14x15              |                                  |        |
|        |      |                            |                           | 1993-U10T Rev. Ratchet    | 43TX/09 TX Allen Key Set      | 26RS/2 Stepped Tommy Bar       |                                  |        |
|        |      |                            |                           | 1997/375mm                |                               |                                |                                  |        |
|        |      |                            |                           | 1995 Universal Joint      |                               |                                |                                  |        |

## 1510

Tool trolley



- > Ideal for the professional workshop.
- > Rigid sheetmetal structure.
- > Five standard and one deep easy-slide drawers incorporating extra strong ball bearing slider mechanisms.
- > Central drawer locking mechanism.
- > Two swivel castors (one with safety brake) for maximum mobility and safety.
- > Handle for easy manoeuvrability.
- > Load capacity of 300kg.
- > Load capacity per drawer 35kg.
- > Blue and grey powder coated.
- > Drawer latch incorporated into each drawer.
- > L=651 x W=585 x H=877mm.

| Code   | No.                  |        |
|--------|----------------------|--------|
| 662792 | 1510 Trolley - EMPTY | 48.000 |



## 1581

Tool trolley /  
assortment



1/2"

- > Ideal for the professional workshop.
- > Rigid sheetmetal structure with pegboard back.
- > Six standard and one deep easy-slide drawers incorporating extra strong ball bearing slider mechanisms.
- > Working platform with three compartments for small parts. Raised edges.
- > Central drawer locking mechanism.
- > Two swivel castors (one with safety brake) for maximum mobility and safety.
- > Handle for easy manoeuvrability.
- > Load capacity of 300kg.
- > Load capacity per drawer 35kg.
- > Blue and grey powder coated.
- > Drawer latch incorporated into each drawer.
- > Empty or with tools.
- > L=635 x W=495 x H=932mm.



| Code   | No.                  |        |
|--------|----------------------|--------|
| 662801 | 1581 Trolley - EMPTY | 56.000 |

| Code   | No.                     | 1B Spanners    | Allen Keys             | Screwdrivers          | Trolley / Inserts / Tray   | C19 Sockets            | Accessories                    |                        |        |
|--------|-------------------------|----------------|------------------------|-----------------------|----------------------------|------------------------|--------------------------------|------------------------|--------|
| 661306 | 1581                    | 6 7 8 9 10 11  | 42-88M 2 2,5 3         | 2150                  | 1581 Tool Trolley          | C19 8-5/16 10-3/8 11   | 36/1 Oil Filter Strap Wrench   | 137/250 Grip Pliers    | 68.000 |
|        | Classic -<br>With Tools | 12 13 14       | 4 5 6 8 10             | 3-150 4 4-150         | 1281/82-1B62 Insert        | 12 13-1/2 14 15-19/32  | 62/250 Adjustable Wrench       | 1987 Sliding T-Bar     |        |
|        |                         | 15 16 17 18 19 |                        | 5.5 6.5 8             | 1280/81-D19/IN19 Insert    | 16-5/8 17 18-11/16     | 143/250 Universal Pliers       | 1990-75 Extension      |        |
|        |                         | 20 21 22       | IN19 5 6 8 10<br>12 14 | 2153                  | 1280/81-D19 Acc/Skt Insert | 19-3/4 21-13/16 22 24- | 50/20.8 Spark Plug Socket      | 1990-125 Extension     |        |
|        |                         |                |                        | 1282-SD-PH-STB Insert | 15/16 26-1. 27-1.1/16      | 1993U-10T Rev. Ratchet | 1990-250 Extension             |                        |        |
|        |                         |                |                        | 2160                  | 1282-SD-MEC-EL Insert      | 29-1.1/8 30-1.3/16     | 1995 Universal Joint           | 8000-A2 Circlip Pliers |        |
|        |                         |                |                        | PH1 PH2               | 1280/81-PL/137/36 Insert   | 32-1.1/4 7/16AF 9/16AF | 8250-200 JC Combination Pliers | 8000-J2 Circlip Pliers |        |
|        |                         |                |                        | 2161                  | 1581 Filler                | 7/8AF                  | 8132-200 JC Telephone Pliers   |                        |        |
|        |                         |                |                        | PH2                   |                            |                        | 8316-200 JC Side Cutters       |                        |        |

## 1530

Service trolley



NEW

- > Ideal for the professional workshop.
- > Rigid sheetmetal structure.
- > Two swivel castors (one with safety brake) for maximum mobility and safety.
- > Handle for easy manoeuvrability.
- > Load capacity of 200kg.
- > Blue powder coated.
- > Suitable for 1281, 1282, 1335, 1410, 1425 Tool Boxes.

| Code   | No.  | L    | W   | H   |        |
|--------|------|------|-----|-----|--------|
| 663522 | 1530 | 1032 | 502 | 926 | 34.500 |

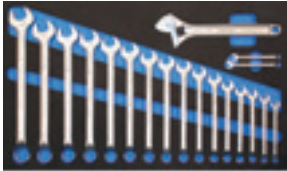
## 1425 / 41 / D19



- › GEDORE Check-Tool-System: 2-colour foam insert to check that the set is complete
- › Each tool is securely held in its own pocket, grip recesses facilitate removal of the tools

| Code          | No.                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |       |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------|
| <b>663023</b> | 1425/41/D19                                                                                                                                                                                                                                                                                                                                                                                                                                |  | 7.820 |
| Contents      | C19 8-32 Sockets (24)<br>1987 Sliding T-Bar<br>1990/75mm Extension<br>1990/125mm Extension<br>1990/250mm Extension<br>1995 Universal Joint<br>2098 Driving Handle<br>1993-U10T Rev. Ratchet<br>1997/375mm Swivel Handle<br>2090/4 Extension<br>2093Z-94 Ratchet + Coupler<br>1425/41/D19 Foam Insert<br>50/20.8 Spark Plug SKT<br>IN19 5-19 Sockets (10)<br>TX19 E10-24 Sockets (8)<br>ITX19 T20-50 Sockets (7)<br>No.20 4-13 Sockets (11) |  |       |

## 1425 / 41 / 1B



- › GEDORE Check-Tool-System: 2-colour foam insert to check that the set is complete
- › Each tool is securely held in its own pocket, grip recesses facilitate removal of the tools

| Code          | No.                                                                                                         |  |       |
|---------------|-------------------------------------------------------------------------------------------------------------|--|-------|
| <b>663024</b> | 1425/41/1B                                                                                                  |  | 3.210 |
| Contents      | 1B 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 24<br>1425/41/1B Foam Insert<br>60CP-250 Shifting Spanner |  |       |

## 1425 / 27 / SP



- › GEDORE Check-Tool-System: 2-colour foam insert to check that the set is complete
- › Each tool is securely held in its own pocket, grip recesses facilitate removal of the tools

| Code          | No.                                                                                                                                                                                                                                                                                                                                                                                                    |  |       |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------|
| <b>663037</b> | 1425/27/SP                                                                                                                                                                                                                                                                                                                                                                                             |  | 3.170 |
| Contents      | 2150 4-150 (Electrician's)<br>2150 6.5-200 (Electrician's)<br>2150 6.5 (Mechanic's)<br>2150 8 (Mechanic's)<br>145/250 Universal Pliers<br>2160 PH1 (Phillips)<br>2160 PH2 (Phillips)<br>2160 PH3 (Phillips)<br>42/88M Allen Key Set<br>1425/27/SP Foam Insert<br>8132/200 Telephone Pliers<br>8250/200 Combination Pliers<br>8316-200 JC Side Cutters<br>137/250 Vice Grip<br>43TX/09 TX Allen Key Set |  |       |

## 1425 / 27 / PL



- › GEDORE Check-Tool-System: 2-colour foam insert to check that the set is complete
- › Each tool is securely held in its own pocket, grip recesses facilitate removal of the tools

| Code          | No.                                                                                                                                                                                                                                                                                                                               |  |       |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------|
| <b>663025</b> | 1425/27/PL                                                                                                                                                                                                                                                                                                                        |  | 3.250 |
| Contents      | 8000/A21 Circlip Pliers<br>8000/J21 Circlip Pliers<br>8000/A2 Circlip Pliers<br>8000/J2 Circlip Pliers<br>137/250 Vice Grip<br>145/250 Universal Pliers<br>1425/27/PL Foam Insert<br>8132/200JC Telephone Pliers<br>8250/200JC Combination Pliers<br>8316-200 JC Side Cutters<br>42/88M Allen Key Set<br>43TX/09 TX Allen Key Set |  |       |

## 1425 / 27 / HM



- › GEDORE Check-Tool-System: 2-colour foam insert to check that the set is complete
- › Each tool is securely held in its own pocket, grip recesses facilitate removal of the tools

| Code          | No.                                                                                                                                                                                                                                                           |  |       |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------|
| <b>663036</b> | 1425/27/HM                                                                                                                                                                                                                                                    |  | 4.070 |
| Contents      | 403 Hacksaw<br>106 Chisel & Punch Set<br>9534.05 Tape Measure<br>1425/27/HM Foam Insert<br>9000.00 Digital Vernier<br>8601/500g Ball Pein Hammer<br>9100.00 Utility Knife<br>248ST/40 Recoil Free Hammer<br>No.702/21M Feeler Gauge Set<br>95/200 Flat Chisel |  |       |

## 1425 / 27 / SD



- › GEDORE Check-Tool-System: 2-colour foam insert to check that the set is complete
- › Each tool is securely held in its own pocket, grip recesses facilitate removal of the tools

| Code          | No.                                                                                                                                                                                                                                                                                                                                          |  |       |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------|
| <b>663035</b> | 1425/27/SD                                                                                                                                                                                                                                                                                                                                   |  | 2.150 |
| Contents      | 2150 4-150 6.5 6.5-200 8<br>2153 5.5<br>2160 PH1 PH2 PH3<br>2161 PH2<br>26RS-2 Stepped Tommy Bar<br>1425/27/SD Foam Insert<br>No.400 8 x 10 Flare Nut Spanner<br>No.400 11 x 13 Flare Nut Spanner<br>No.400 12 x 14 Flare Nut Spanner<br>No.400 17 x 19 Flare Nut Spanner<br>No.400 22 x 24 Flare Nut Spanner<br>26R - 8x9 10x11 12x13 14x15 |  |       |

## 1425 - 3 - 5

Spares



- › Foam inserts are not covered by the GEDORE guarantee and may be subject to degradation as well as wear and tear. Replacement foam inserts can therefore be purchased separately.

| Code          | No.             |  |  |
|---------------|-----------------|--|--|
| <b>562860</b> | 1425 / 41 / D19 |  |  |
| <b>562865</b> | 1425 / 41 / 1B  |  |  |
| <b>562885</b> | 1425 / 27 / SP  |  |  |
| <b>562870</b> | 1425 / 27 / PL  |  |  |
| <b>562880</b> | 1425 / 27 / HM  |  |  |
| <b>562875</b> | 1425 / 27 / SD  |  |  |

## REF A C19/22/ACC



› Toolbox, Tool Cabinet,  
Tool Trolley and Modular  
Assortments.

| Code          | No. / Insert                    | Sockets           | Accessories                                                      |                                          |
|---------------|---------------------------------|-------------------|------------------------------------------------------------------|------------------------------------------|
| <b>662208</b> | REF A-C19/22/ACC                | <b>C19</b> 7/16AF | 50/20.8 Spark Plug Socket                                        | 1990-75 Extension 2.370                  |
| <b>561185</b> | <b>Insert</b><br>1280/81-22-ACC | 9/16AF<br>7/8AF   | 1997/375 Power Bar<br>1987 Sliding T-Bar<br>1995 Universal Joint | 1990-125 Extension<br>1990-250 Extension |

## REF B B-C19



› Toolbox, Tool Cabinet,  
Tool Trolley and Modular  
Assortments.

| Code          | No. / Insert                 | Sockets                                                                                                | Accessories            |       |
|---------------|------------------------------|--------------------------------------------------------------------------------------------------------|------------------------|-------|
| <b>662216</b> | REF B-C19                    | <b>C19</b> 8-5/16 10-3/8 11 12 13-1/2                                                                  | 1993U-10T Rev. Ratchet | 2.710 |
| <b>561142</b> | <b>Insert</b><br>1280/81-D19 | 14 15-19/32 16-5/8 17 18-11/16 19-3/4 21-13/16 22 24-15/16 26-1. 27-1.1/16 29-1.1/8 30-1.3/16 32-1.1/4 |                        |       |

## REF C 1B



› Toolbox, Tool Cabinet,  
Tool Trolley and Modular  
Assortments.

| Code          | No. / Insert/Tray            | 1B Spanners                   | Accessories                                      |       |
|---------------|------------------------------|-------------------------------|--------------------------------------------------|-------|
| <b>662224</b> | REF C-1B                     | 6 7 8 9 10 11 12 13           | 137/250 Grip Pliers                              | 4.100 |
| <b>561134</b> | <b>Insert</b><br>1280/81-1B  | 14 15 16 17 18 19 20<br>21 22 | 145/250 Universal Pliers<br>42/88M Allen Key Set |       |
| <b>561401</b> | <b>Metal Tray</b><br>1280/81 |                               |                                                  |       |

## REF D C19/IN19



› Toolbox, Tool Cabinet,  
Tool Trolley and Modular  
Assortments.

| Code          | No. / Insert                      | Sockets                                                                                             | Allen Key Sockets    |       |
|---------------|-----------------------------------|-----------------------------------------------------------------------------------------------------|----------------------|-------|
| <b>662232</b> | REF D-C19/IN19                    | <b>C19</b> 8-5/16 10-3/8 11 12 13-1/2 14                                                            | <b>IN19</b> 5 6 8 10 | 2.670 |
| <b>561207</b> | <b>Insert</b><br>1280/81-D19/IN19 | 15-19/32 16-5/8 17 18-11/16 19-3/4 21-13/16 22 24-15/16 26-1. 27-1.1/16 29-1.1/8 30-1.3/16 32-1.1/4 | 12 14                |       |

## REF E 1B/62



› Toolbox, Tool Cabinet,  
Tool Trolley and Modular  
Assortments.

| Code          | No. / Insert                   | 1B Spanners                   | Accessories                                      |       |
|---------------|--------------------------------|-------------------------------|--------------------------------------------------|-------|
| <b>662240</b> | REF E-1B/62                    | 6 7 8 9 10 11 12 13           | 62/250 Adjustable Wrench                         | 4.120 |
| <b>561193</b> | <b>Insert</b><br>1281/82-1B/62 | 14 15 16 17 18 19 20<br>21 22 | 143/250 Universal Pliers<br>42/88M Allen Key Set |       |
| <b>561401</b> | <b>Metal Tray</b><br>1280/81   |                               |                                                  |       |

## REF F D19/ACC/SKT



› Toolbox, Tool Cabinet,  
Tool Trolley and Modular  
Assortments.

| Code          | No. / Insert                         | Sockets           | Accessories                                                          |                                          |
|---------------|--------------------------------------|-------------------|----------------------------------------------------------------------|------------------------------------------|
| <b>662259</b> | REF F-D19/ACC/SKT                    | <b>D19</b> 7/16AF | 50/20.8 Spark Plug SKT                                               | 1990-75 Extension 2.180                  |
| <b>561215</b> | <b>Insert</b><br>1280/81-D19 ACC/SKT | 9/16AF<br>7/8AF   | 1987 Sliding T-Bar<br>1995 Universal Joint<br>1993U-10T Rev. Ratchet | 1990-125 Extension<br>1990-250 Extension |

## REF G C132/6



› Toolbox, Tool Cabinet,  
Tool Trolley and Modular  
Assortments.

| Code          | No. / Insert                   | Sockets                               | Accessories                                                          |       |
|---------------|--------------------------------|---------------------------------------|----------------------------------------------------------------------|-------|
| <b>662267</b> | REF G-C32/6                    | <b>C32</b> 1.3/8AF 36-1.7/16          | 3287/447 Sliding T-Bar                                               | 8.700 |
| <b>561258</b> | <b>Insert</b><br>1280/81-D32/6 | 38-1.1/2 41-1.5/8<br>46-1.13/16 50-2. | 3290-200 Extension<br>3290-400 Extension<br>3293U-1/440 Rev. Ratchet |       |

## REF H D19/22/ACC



› Toolbox, Tool Cabinet,  
Tool Trolley and Modular  
Assortments.

| Code          | No. / Insert                    | Sockets            | Accessories                                                                                                                       |       |
|---------------|---------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------|
| <b>662275</b> | REF H-D19/22/ACC                | <b>D19</b> 9 18 20 | 50/20.8 Spark Plug Socket                                                                                                         | 2.360 |
| <b>561185</b> | <b>Insert</b><br>1280/81-22-ACC |                    | 1987 Sliding T-Bar<br>1990-75 Extension<br>1990-125 Extension<br>1990-250 Extension<br>1995 Universal Joint<br>1997/375 Power Bar |       |

REF I  
D19

› Toolbox, Tool Cabinet,  
Tool Trolley and Modular  
Assortments.

| Code          | No. / Insert                 | Sockets                                         | Accessories            |       |
|---------------|------------------------------|-------------------------------------------------|------------------------|-------|
| <b>662283</b> | REF I-D19                    | <b>D19</b> 8 10 11 12 13                        | 1993U-10T Rev. Ratchet | 2.360 |
| <b>561142</b> | <b>Insert</b><br>1280/81-D19 | 14 15 16 17 19 21<br>22 24 26 27 28 29<br>30 32 |                        |       |

REF J  
D19/IN19

› Toolbox, Tool Cabinet,  
Tool Trolley and Modular  
Assortments.

| Code          | No. / Insert                      | Sockets                                   | Allen Key Sockets          |       |
|---------------|-----------------------------------|-------------------------------------------|----------------------------|-------|
| <b>662291</b> | REF J-D19/IN19                    | <b>D19</b> 8 10 11 12 13 14               | <b>IN19</b> 5 6 8 10 12 14 | 2.720 |
| <b>561207</b> | <b>Insert</b><br>1280/81-D19/IN19 | 15 16 17 18 19 21 22<br>24 26 27 29 30 32 |                            |       |

## REF K D32/6



› Toolbox, Tool Cabinet,  
Tool Trolley and Modular  
Assortments.

| Code          | No. / Insert                   | Sockets                     | Accessories                                                          |       |
|---------------|--------------------------------|-----------------------------|----------------------------------------------------------------------|-------|
| <b>662321</b> | REF K-D32/6                    | <b>D32</b> 1.3/8AF 36 38 41 | 3287/447 Sliding T-Bar                                               | 8.710 |
| <b>561258</b> | <b>Insert</b><br>1280/81-D32/6 | 46 50                       | 3290-200 Extension<br>3290-400 Extension<br>3293U-1/440 Rev. Ratchet |       |

## REF L PL/137/36



› Toolbox, Tool Cabinet,  
Tool Trolley and Modular  
Assortments.

| Code          | No. / Insert                          | Pliers/Cirdclip Pliers                                                                                                                | Accessories         |       |
|---------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------|
| <b>662356</b> | REF L-PL/137/36                       | <b>Pliers</b>                                                                                                                         | 36/1 Strap Wrench   | 2.390 |
| <b>561274</b> | <b>Insert</b><br>1280/81-<br>PL137/36 | 8132/200 JC Telephone Pliers<br>8250/200 JC Universal Pliers<br>8316/200 JC Side Cutters<br><b>Cirdclip Pliers</b><br>8000-A2 8000-J2 | 137/250 Grip Pliers |       |

REF M-MF-  
PL/81/82/83

› Toolbox, Tool Cabinet,  
Tool Trolley and Modular  
Assortments.

| Code          | No. / Insert                  | Pliers                       |       |
|---------------|-------------------------------|------------------------------|-------|
| <b>662941</b> | REF M-PL/81/82/83 Ass.        | 8132/200 JC Telephone Pliers | 2.700 |
| <b>663082</b> | REF MF-PL/81/82/83 Ass.       | 8250/200 JC Universal Pliers | 2.010 |
| <b>561363</b> | <b>Inserts</b><br>1282-Pliers | 8316/200 JC Side Cutters     |       |
| <b>562840</b> |                               |                              |       |

## REF N-10



› Toolbox, Tool Cabinet,  
Tool Trolley and Modular  
Assortments.

| Code          | Insert                            | 2150                       | 2153 | 2160    | 2161 |       |
|---------------|-----------------------------------|----------------------------|------|---------|------|-------|
| <b>662968</b> | 1282-2161 ELS+PH<br>1282-2150 MEC | 3-150 4-150<br>4 5.5 6.5 8 | 5.5  | PH1 PH2 | PH2  | 2.100 |
| <b>561283</b> | <b>Inserts</b>                    |                            |      |         |      |       |
| <b>561291</b> |                                   |                            |      |         |      |       |

## REF O-6SD



› Toolbox, Tool Cabinet,  
Tool Trolley and Modular  
Assortments.

| Code          | No.                          | 2150            | 2160 |       |
|---------------|------------------------------|-----------------|------|-------|
| <b>663018</b> | REFO-6SD                     | 4               | PH1  | 1.780 |
| <b>561322</b> | <b>Insert</b><br>1282-6SD 3C | 5.5<br>6.5<br>8 | PH2  |       |

## REF OF



› Toolbox, Tool Cabinet,  
Tool Trolley and Modular  
Assortments.

| Code          | No.                                             | 2150            | 2160 |       |
|---------------|-------------------------------------------------|-----------------|------|-------|
| <b>663083</b> | REF OF-6SD                                      | 4               | PH1  | 0.730 |
| <b>562832</b> | <b>Insert</b><br>REF OA-2150-6SD<br>Foam Insert | 5.5<br>6.5<br>8 | PH2  |       |

## REF P-4EXT T-BAR



› Toolbox, Tool Cabinet,  
Tool Trolley and Modular  
Assortments.

| Code          | No. / Insert            | Accessories        |       |
|---------------|-------------------------|--------------------|-------|
| <b>663020</b> | REF P-4 Ext – T-bar Ass | 1990-75 Extension  | 1.100 |
| <b>561312</b> | <b>Insert</b>           | 1990-125 Extension |       |
|               | 1282 EXT                | 1990-250 Extension |       |
|               |                         | 1987 Sliding T-Bar |       |

## REF PF-4EXT T-BAR



› Toolbox, Tool Cabinet,  
Tool Trolley and Modular  
Assortments.

| Code          | No. / Insert             | Accessories        |       |
|---------------|--------------------------|--------------------|-------|
| <b>663084</b> | REF PF-4 Ext – T-bar Ass | 1990-75 Extension  | 1.080 |
| <b>562841</b> | <b>Insert</b>            | 1990-125 Extension |       |
|               | Foam                     | 1990-250 Extension |       |
|               |                          | 1987 Sliding T-Bar |       |

## REF Q-4



› Toolbox, Tool Cabinet,  
Tool Trolley and Modular  
Assortments.

| Code          | No. / Insert                 | Accessories            |       |
|---------------|------------------------------|------------------------|-------|
| <b>663022</b> | REF Q-4 ACC – Power Bar Ass. | 1990-75 Extension      | 1.300 |
| <b>561304</b> | <b>Insert</b>                | 1990-250 Extension     |       |
|               | 1282-4 ACC.                  | 1995 Universal Joint   |       |
|               |                              | 1997-375 Swivel Handle |       |

## REF QF-4



› Toolbox, Tool Cabinet,  
Tool Trolley and Modular  
Assortments.

| Code          | No. / Insert                  | Accessories            |       |
|---------------|-------------------------------|------------------------|-------|
| <b>663085</b> | REF QF-4 ACC – Power Bar Ass. | 1990-75 Extension      | 1.300 |
| <b>562842</b> | <b>Insert</b>                 | 1990-250 Extension     |       |
|               | Ref Q 1997                    | 1995 Universal Joint   |       |
|               |                               | 1997-375 Swivel Handle |       |

## REF RF-C19Z/ Z94



› Toolbox, Tool Cabinet,  
Tool Trolley and Modular  
Assortments.

| Code          | No. / Insert   | Sockets                                  | Accessories         |       |
|---------------|----------------|------------------------------------------|---------------------|-------|
| <b>663086</b> | REF RF-C19/Z94 | <b>C19</b> 8-5/16 10-3/8 11 12 13-1/2 14 | 1993 Z-94 Ratchet + | 2.330 |
| <b>562812</b> |                | 15-19/32 16-5/8 17 18-11/16 19-3/4       | Coupler             |       |
|               |                | 21-13/16 22 24-15/16 26-1. 27-1.1/16     |                     |       |
|               |                | 29-1.1/8 30-1.3/16 32-1.1/4              |                     |       |

## REF SF-1B/145



› Toolbox, Tool Cabinet,  
Tool Trolley and Modular  
Assortments.

| Code          | No. / Insert/Tray | 1B Spanners          | Accessories              |       |
|---------------|-------------------|----------------------|--------------------------|-------|
| <b>663087</b> | REF SF-1B/145     | 6 7 8 9 10 11 12 13  | 137/250 Grip Pliers      | 3.960 |
| <b>562809</b> | <b>Insert</b>     | 14 15 16 17 18 19 20 | 145/250 Universal Pliers |       |
|               | 1280/81-1B        | 21 22                | 42/88M Allen Key Set     |       |
| <b>561401</b> | <b>Metal Tray</b> |                      |                          |       |
|               | 1282              |                      |                          |       |

## REF WF-VF



› Toolbox, Tool Cabinet,  
Tool Trolley and Modular  
Assortments.

| Code          | Inserts        | 2150        | 2160    | 2161 | 2153 |       |
|---------------|----------------|-------------|---------|------|------|-------|
| <b>663092</b> | REF WF-2153    | 4 5.5 6.5 8 |         |      | 5.5  | 0.580 |
| <b>663091</b> | REF VF-2161    | 3-150 4-150 | PH1 PH2 | PH2  |      | 0.450 |
| <b>582857</b> | <b>Inserts</b> |             |         |      |      |       |
| <b>562858</b> |                |             |         |      |      |       |

## REF 10SD



› Toolbox, Tool Cabinet,  
Tool Trolley and Modular  
Assortments.

| Code          | Description | 2150            | 2153 | 2160    | 2161 |       |
|---------------|-------------|-----------------|------|---------|------|-------|
| <b>662348</b> | 10SD        | 4 5.5 6.5 8 5.5 |      | PH1 PH2 | PH2  | 1.830 |
|               |             | 3-150 4-150     |      |         |      |       |

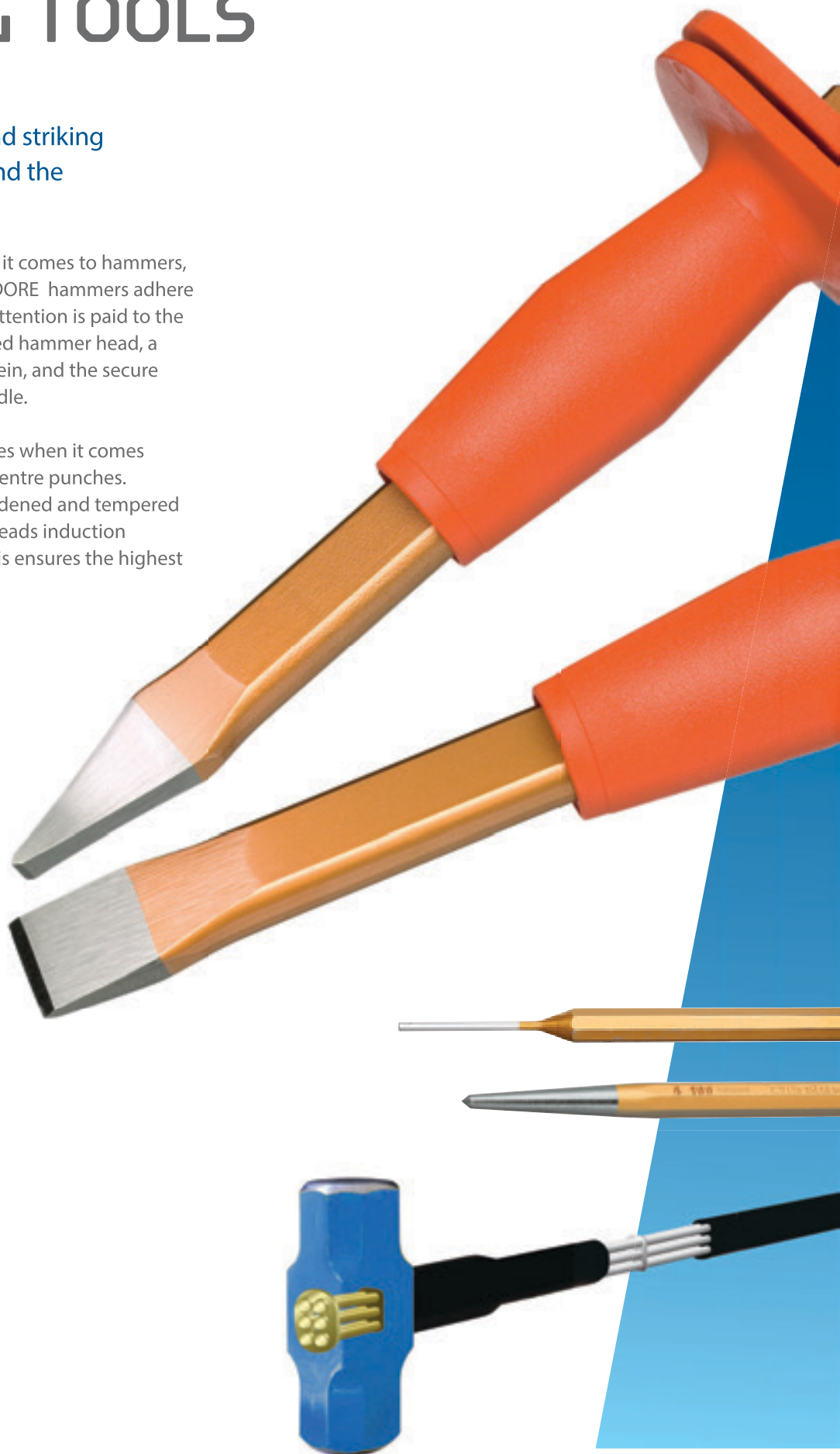


# HAMMERS AND STRIKING TOOLS

Strike by strike: hammers and striking tools from GEDORE withstand the toughest stress and force.

From the head to the handle, when it comes to hammers, it's safety that counts above all. GEDORE hammers adhere to the highest of SANS standards. Attention is paid to the correct tempering of the drop forged hammer head, a clean edge break on the face and pein, and the secure connection between head and handle.

GEDORE also makes no compromises when it comes to pin punches, drift punches and centre punches. All striking tools are hot forged, hardened and tempered along the full length with striking heads induction tempered to prevent shattering. This ensures the highest level of stability and work safety.

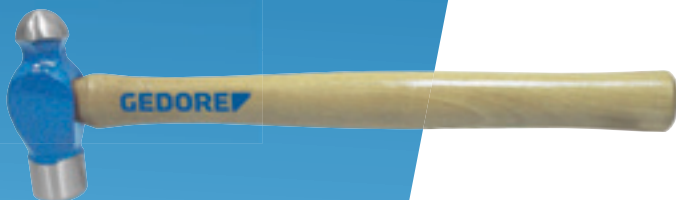


BALANCED  
NON-SLIP



#### HAMMER QUALITY FROM ONE HAND

- Drop forged
- Striking faces induction hardened and precision ground



#### HARDWOOD HANDLES

- Hardwood handles withstand 3 to 4 times higher impacts



#### CHISEL AND PUNCH SETS

- Comes in a sturdy PVC stand.
- Working edge polished and clear varnished.
- Made from Chrome Molybdenum Vanadium air hardened 45CrMoV7 steel.

# i RECOIL-FREE HAMMERS

## YOUR ADVANTAGE

- Due to the special filling insert in the hammer head a considerably higher impact is made compared to standard engineers' and recoilless hammers
- Universal use for service and assembly work, with all the advantages of a recoilless hammer with higher impact
- "Dead blows" with no recoil reduce stress on muscles, nerves and wrists
- Lower cost due to universal use as an engineer's and recoilless hammer
- Recoilless hammers protect sensitive surfaces
- Each blow is more effective than standard safety hammers
- Available with hickory, tubular steel or fibreglass handles
- Exchangeable inserts, resistant to breakage or wear, made of modified polyamide

## FUNCTION

- The hollow hammer head is filled with steel shot. Small steel balls with a high carbon content.
- Workpiece "adhesion" and a "fully-felt" strike come from the practically 100% pulse transfer onto the workpiece.
- The impact (colloquial term for pulse) results principally from the kinetic energy of the fine-grained steel shot.
- The hammer head mass is slight compared to steel shot.
- That is why the counter pulse triggered by the hammer head is not felt.
- Bouncing blows are avoided.
- Goes easy on one's joints and tendons.



## 248 ST

Recoil-free hammers



- › With very robust and durable steel tube handle
- › Splinter-proof, shatter-proof and wear-resistant polyamide heads, 75 Shore D, tested to -20° C

| Code    | No.       | Ø mm  | l mm   | kg    |
|---------|-----------|-------|--------|-------|
| 8828950 | 248 ST-30 | 30 mm | 290 mm | 0.600 |
| 8829170 | 248 ST-40 | 40 mm | 300 mm | 0.800 |
| 8829250 | 248 ST-50 | 50 mm | 310 mm | 1.005 |
| 8829330 | 248 ST-60 | 60 mm | 335 mm | 1.800 |

## E 248 Spares

Polyamide head

- › Made of shatterproof, break and wear resistant polyamide, 75 Shore D, tested to -20° C



| Code    | No.      | Ø mm | kg    |
|---------|----------|------|-------|
| 8830260 | E 248-30 | 30   | 0.015 |
| 8830420 | E 248-40 | 40   | 0.031 |
| 8830500 | E 248-50 | 50   | 0.050 |
| 8830690 | E 248-60 | 60   | 0.090 |

## 8601

### Ball pein hammers



- › Drop forged.
- › Striking faces induction hardened and precision ground
- › Blue epoxy powder coated.
- › In accordance with SANS 387.
- › Hardwood handles.

| Code   | No.         | l mm | kg    |
|--------|-------------|------|-------|
| 676381 | 8601 / 100  | 280  | 0.160 |
| 676403 | 8601 / 200  | 310  | 0.320 |
| 676411 | 8601 / 300  | 325  | 0.420 |
| 676438 | 8601 / 500  | 370  | 0.610 |
| 676446 | 8601 / 700  | 375  | 0.840 |
| 676519 | 8601 / 900  | 400  | 1.140 |
| 676527 | 8601 / 1100 | 410  | 1.240 |

## 620C

### Club hammers



- › Handle contains high tensile steel rods moulded in abrasive-resistant rubber ensuring outstanding durability.
- › Locking plate design ensures head will not separate from the handle.
- › The abrasive-resistant rubber is injected all the way into the eye of the hammer head.
- › Superior quality rubber handle provides excellent grip in wet and dry conditions allowing for versatility and safety.
- › 50-58HRC.

**Applications:** Mining, Construction, Steelwork, Fencing, Electrical Engineering, Chiseling and Chasing, Surveying

| Code   | No.      | g    | l mm | kg    |
|--------|----------|------|------|-------|
| 676530 | 620C-1.1 | 1100 | 250  | 1.100 |
| 676531 | 620C-1.8 | 1800 | 250  | 1.800 |

## 622C

### Copper sledge hammers



- › Handle contains high tensile steel rods moulded in abrasive-resistant rubber ensuring outstanding durability.
- › Superior quality rubber handle provides excellent grip in wet and dry conditions allowing for versatility and safety.
- › Head 99.98% copper reduces damage to workpieces and reduces chance of sparking in hazardous areas.

**Applications:** Mining, Petrochemical, Engineering, Toolmaking

| Code   | No.      | g    | l mm | kg    |
|--------|----------|------|------|-------|
| 676534 | 622C-1.8 | 1800 | 250  | 1.800 |
| 676536 | 622C-3.6 | 3600 | 535  | 3.600 |
| 676538 | 622C-6.3 | 6300 | 710  | 6.300 |

## 650C

### Club hammers



- › Fine grain high alloy steel/ carbon steel.
- › Drop forged.
- › Heat treated and induction hardened.
- › Highly polished head.
- › Polyprop handle.
- › Comfortable shock absorbant vinyl grip.
- › 50-58HRC.

| Code    | No.      | g    | l mm | kg    |
|---------|----------|------|------|-------|
| 6765392 | 650C-1.1 | 1100 | 260  | 1.100 |
| 6765390 | 650C-1.8 | 1800 | 275  | 1.800 |

## 640S

### Sledge hammers



### Powerful Reinforcement



- › Handle core contains high tensile steel rods moulded in abrasive-resistant rubber ensuring outstanding durability.
- › Locking plate design ensures head will not separate from the handle.
- › The abrasive-resistant rubber is injected all the way into the eye of the hammer head.
- › Superior quality rubber handle provides excellent grip in wet and dry conditions allowing for versatility and safety.
- › 50-58HRC.

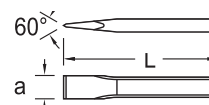
**Applications:** Mining, Building & Construction, Demolition, Heavy Industry, Military, Emergency Services.

| Code   | No.      | g    | l mm | kg    |
|--------|----------|------|------|-------|
| 676532 | 620S-3.6 | 3600 | 535  | 3.600 |
| 676533 | 620S-6.3 | 6300 | 710  | 6.300 |



## 95

## Flat cold chisels



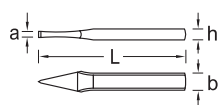
- > Acc. to DIN 6453
- > Vanadium Steel
- > Striking heads inductively tempered

| Code    | No.    | L   | a    | b  | h  |       |
|---------|--------|-----|------|----|----|-------|
| 8698640 | 95-125 | 125 | 15,0 | 14 | 9  | 0.100 |
| 8698720 | 95-150 | 150 | 18,0 | 17 | 11 | 0.190 |
| 8698800 | 95-175 | 175 | 21,0 | 20 | 12 | 0.280 |
| 8698990 | 95-200 | 200 | 24,0 | 23 | 13 | 0.390 |

| Code     | No.    | L   | a    | b  | h  |       |
|----------|--------|-----|------|----|----|-------|
| 8699100* | 95-250 | 250 | 28,0 | 26 | 13 | 0.570 |
| 8699370* | 95-300 | 300 | 30,0 | 26 | 13 | 0.710 |

## 96

## Cross-cut chisels



- > Acc. to DIN 6451
- > Vanadium Steel
- > Striking heads inductively tempered

| Code    | No.    | L   | a   | b  | h  |       |
|---------|--------|-----|-----|----|----|-------|
| 8702180 | 96-125 | 125 | 5,0 | 14 | 9  | 0.098 |
| 8702260 | 96-150 | 150 | 6,0 | 17 | 11 | 0.170 |
| 8702340 | 96-175 | 175 | 7,0 | 17 | 11 | 0.210 |
| 8702420 | 96-200 | 200 | 8,0 | 20 | 12 | 0.290 |
| 8702500 | 96-250 | 250 | 9,0 | 23 | 13 | 0.460 |

## 99

## Drift punches, octagonal

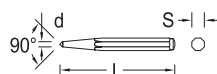


- > Acc. to DIN 6458
- > GEDORE vanadium steel
- > Striking heads inductively tempered
- > Special sizes available on request

| Code    | No.     | d | L   | s  |       |
|---------|---------|---|-----|----|-------|
| 8708700 | 99 10-1 | 1 | 120 | 10 | 0.060 |
| 8708970 | 99 10-2 | 2 | 120 | 10 | 0.061 |
| 8709190 | 99 10-3 | 3 | 120 | 10 | 0.063 |
| 8711170 | 99 12-4 | 4 | 120 | 12 | 0.086 |
| 8711330 | 99 12-5 | 5 | 120 | 12 | 0.091 |
| 8711410 | 99 12-6 | 6 | 120 | 12 | 0.094 |
| 8711680 | 99 12-7 | 7 | 120 | 12 | 0.096 |
| 8711760 | 99 12-8 | 8 | 120 | 12 | 0.099 |

## 100

## Centre punches, octagonal



- > Acc. to DIN 7250
- > Vanadium Steel
- > Striking heads inductively tempered

| Code    | No.    | d | L   | s  |       |
|---------|--------|---|-----|----|-------|
| 8721050 | 100-10 | 4 | 120 | 10 | 0.063 |
| 8721130 | 100-12 | 5 | 120 | 12 | 0.091 |
| 8721210 | 100-15 | 5 | 150 | 12 | 0.119 |
| 8721480 | 100-16 | 8 | 150 | 16 | 0.216 |

108 UNI  
Protective hand guard

- > Made from PVC
- > Highest safety for the hand in case of misses due to an enlarged and double protection plate
- > Avoids injuries of the hand
- > No rolling away (elliptical-shaped)
- > Jarring blows do not move into the hand
- > For all chisels from 250 mm length

| Code    | No.     | oval                                    | octagonal            |       |
|---------|---------|-----------------------------------------|----------------------|-------|
| 8658500 | 108 UNI | 20 x 12<br>23 x 13<br>26 x 13<br>26 x 7 | 14<br>16<br>18<br>20 | 0.182 |



## 106

Chisel & punch set,  
6 pieces



- > Vanadium Steel
- > Striking heads inductively tempered



| Code    | No. | Contents                                           | Packaged   |       |
|---------|-----|----------------------------------------------------|------------|-------|
| 8725200 | 106 | 97-125 150<br>98-125<br>99 12-3<br>100-10<br>119-4 | PVC holder | 0.550 |

## 113

Drift punch set,  
6 pieces



- > Vanadium Steel
- > Striking heads inductively tempered



| Code    | No. | Contents                           | Packaged   |       |
|---------|-----|------------------------------------|------------|-------|
| 8753680 | 113 | 99 10-1 2 3<br>99 12-4 5<br>100-10 | PVC holder | 0.450 |

## 116

Pin punch set,  
6 pieces



- > Acc. to DIN 6451
- > Vanadium Steel
- > Striking heads inductively tempered



| Code    | No. | Contents                                           | Packaged   |       |
|---------|-----|----------------------------------------------------|------------|-------|
| 8757670 | 116 | 119-3<br>119-4<br>119-5<br>119-6<br>119-7<br>119-8 | PVC holder | 0.510 |

## 2200

Number set,  
9 pieces



- > 6mm print height. 9 numbers.
- > To label finished parts such as signs, tools etc.
- > In blue plastic box.
- > Made from hardened steel, with hardened handle and tempered striking head to prevent shattering.



| Code    | No.      |       |
|---------|----------|-------|
| 8605140 | 2200 - 6 | 0.300 |

## 2201

Letter set,  
27 pieces



- > 6mm print height. 27 letters.
- > To label finished parts such as signs, tools etc.
- > In blue plastic box.
- > Made from hardened steel, with hardened handle and tempered striking head to prevent shattering.



| Code    | No.      |       |
|---------|----------|-------|
| 8605220 | 2201 - 6 | 1.300 |



**OCHSENKOPF**  
BY GEDORE

A FORCE OF NATURE **SINCE 1781.**



Germany's Ochsenkopf stands for perfection and security in forest and carpentry tools. Founded in 1781, the Ochsenkopf-Ax is at the highest level for craftsmanship, it is still the pride of the traditional Bergisches tool industry.

[ochsenkopf.com](http://ochsenkopf.com)



## Manufacture Out of the forge and into the forest

**1**



The forged blanks are sawn off from rolled C60 tempering steel.

**2**



The red-hot blank is shaped on a forging press and the hole is made for the eye. Excess bunting is removed.

**3**



The glowing blade is beaten out on the forging roll.

**4**



Final shaping under the forging hammer. Trimming excess material and rough-grinding the axe.

**5**



Permanent marking by means of a stamp bearing the manufacturer's symbol. Tempering (hardening and tempering) the cutting edge ensures hardness and toughness.

**6**



Sand-blasting the surface. Fine-grinding the cutting edge. A crowned cut increases stability. Translucent varnish protects the axe head from corrosion.

**7**



Inserting and clamping the handle. The triple clamp provided by one wooden wedge and two ring wedges ensures a lasting and safe connection.

## OX 248 E Axe SPALT-FIX®

- Optimum splitting results, less force required due to wedge-shaped blade
- Long service life, little weight
- With high-quality hickory handle. End of handle rounded for extra comfort.

**DIMENSIONS**  
810 x 190 x 50mm



| Code           | No.           | Test seal   |  |  |  |  | Spare Handle  |
|----------------|---------------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------|
| <b>1591703</b> | OX 248 E-2501 | KWF PRO, GS | 2500                                                                                | 115                                                                                 | 800                                                                                 | 3250                                                                                | OX E-84 E-800 |

## OX 244 E Hatchet SPALT-FIX®

- Optimum splitting results, less force required due to wedge-shaped blade
- Long service life, little weight
- With high-quality hickory handle. End of handle rounded for extra comfort.

**DIMENSIONS**  
510 x 150 x 40mm



| Code           | No.           | Test seal |  |  |  |  | Spare Handle   |
|----------------|---------------|-----------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------|
| <b>1591738</b> | OX 244 E-1251 | KWF, GS   | 1250                                                                                  | 100                                                                                   | 500                                                                                   | 1650                                                                                  | OX E-84 E-0500 |

## OX 235 E Forestry hatchet

- Indispensable in wood-working and gardening
- Cutting edge fine polished
- With high-quality hickory handle

**DIMENSIONS**  
410 x 160 x 30mm



| Code           | No.           | Test seal |  |  |  |  | Spare Handle   |
|----------------|---------------|-----------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------|
| <b>1591657</b> | OX 235 E-0802 | KWF, GS   | 800                                                                                   | 110                                                                                   | 380                                                                                   | 1100                                                                                  | OX E-78 E-0380 |

# VDE INSULATED TOOLS

When working on electrical installations or hybrid and electric vehicles, safety at work is the top priority. With insulated tools from GEDORE, you are on the safe side.

All VDE safety tools made by GEDORE - from spanners, screwdrivers and pliers to torque wrenches - are manufactured in such a way that they reliably protect the user from electrical shock when used as intended. To achieve this, GEDORE performs every single step, right down to the 100% testing of the electrical insulation properties on the 10,000 V high-voltage test facility.

In addition, all VDE tools meet the DIN-ISO requirements with regard to their properties such as hardness and torque.

GEDORE is not satisfied with just the standard. That is why the tools have intelligent additional functions such as the Check-Tool insulation or the ultra-small blade diameter of the SLIM DRIVE screwdrivers.



## HOW DO I RECOGNISE SAFE INSULATED TOOLS?

- Only tools with all test marks are considered to be insulated
- Additionally marked with the name of the manufacturer, model or type designation and year of manufacture



- Tools marked with the double triangle are individually tested
- Testing at 10,000 V AC based on EN 60900/IEC 60900

1000 V

- VDE insulation: insulated up to 1000 V



- Testing performed by VDE Test Institute
- Compliance with tool and safety standards guaranteed
- Tools meet the requirements of the German equipment safety law



- Tool complies with the Equipment and Product Safety Act (GSPG) according to testing and certification office





## SAFE INSULATED



### SAFE UP TO 1000 VOLT

- VDE insulation: insulated up to 1000 V according to EN 60900/IEC 60900
- Safe working under electrical voltage
- Up to AC 1000 V (alternating voltage)
- Up to DC 1500 V (direct voltage)

### VDE CHECK-TOOL INSULATION

- All GEDORE VDE soft-plastic insulated safety tools have the Check-Tool insulation.
- The two-colour multi-layer insulation - red on the outside, yellow on the inside - complies with the BGV A3 (VBG-4) regulation.
- The tool must not show any discernable damage. If yellow is visible, it is high time to dispose of the tool



The two-ply  
Check-Tool  
insulation



**VDE 2 E**

VDE single ended ring spanners, deep offset



- > Vanadium steel 31CrV3
- > protective insulation up to 1000 V, according to EN 60900/IEC 60900, 2-fold Check-Tool insulation

WHILE STOCKS LAST / INDENT ONLY

**VDE 894**

VDE single open ended spanners



- > Vanadium steel 31CrV3
- > protective insulation up to 1000 V, according to EN 60900/IEC 60900, 2-fold Check-Tool insulation
- > Jaw set at 15°

| Code    | No.        |    |     |       |  |  |
|---------|------------|----|-----|-------|--|--|
| 6036000 | VDE 2 E 10 | 10 | 170 | 0.097 |  |  |
| 6036190 | VDE 2 E 11 | 11 | 180 | 0.093 |  |  |
| 6036350 | VDE 2 E 13 | 13 | 190 | 0.130 |  |  |
| 6036430 | VDE 2 E 14 | 14 | 210 | 0.151 |  |  |

| Code    | No.        |    |     |       |  |  |
|---------|------------|----|-----|-------|--|--|
| 6036780 | VDE 2 E 17 | 17 | 220 | 0.199 |  |  |
| 6036860 | VDE 2 E 19 | 19 | 240 | 0.244 |  |  |
| 6037320 | VDE 2 E 32 | 32 | 330 | 0.683 |  |  |

| Code    | No.        |    |     |       |
|---------|------------|----|-----|-------|
| 6572120 | VDE 894 10 | 10 | 105 | 0.034 |
| 6572200 | VDE 894 11 | 11 | 115 | 0.044 |
| 6572470 | VDE 894 13 | 13 | 135 | 0.067 |
| 6572550 | VDE 894 14 | 14 | 145 | 0.081 |
| 6572980 | VDE 894 17 | 17 | 160 | 0.117 |
| 6573010 | VDE 894 19 | 19 | 175 | 0.161 |
| 6574920 | VDE 894 32 | 32 | 280 | 0.558 |

**VDE 2160 PH**

Phillips screwdrivers for cross-slotted head screws



- > individually tested, insulated up to 1000 V, according to EN 60900/IEC 60900, fully insulated blade
- > Tip as per DIN ISO 8764-1 PH Ergonomic 3-component handle Power-Grip<sup>3</sup> for maximum power with minimum effort
- > Type of drive marked at end of the handle

| Code    | No.           |   |     |     |       |
|---------|---------------|---|-----|-----|-------|
| 1612115 | VDE 2160 PH 1 | 1 | 80  | 180 | 0.082 |
| 1612123 | VDE 2160 PH 2 | 2 | 100 | 210 | 0.119 |
| 1612131 | VDE 2160 PH 3 | 3 | 150 | 270 | 0.188 |

**VDE 2170**

Electrician's screwdrivers for slotted head screws



- > individually tested, insulated up to 1000 V, according to EN 60900/IEC 60900, fully insulated blade
- > Tip as per DIN ISO 2380-1 Form B
- > Ergonomic 3-component handle Power-Grip<sup>3</sup> for maximum power with minimum effort
- > Type of drive marked at end of the handle
- > hanging hole on handle for space-saving storage

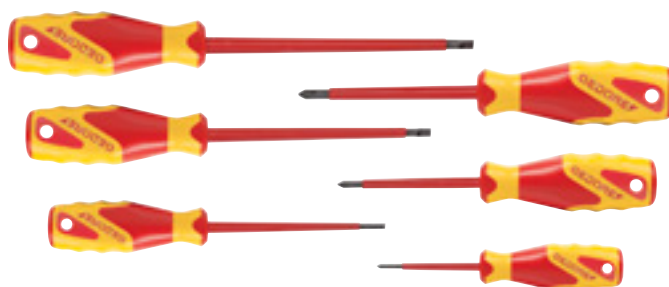
| Code    | No.          |     |     |     |       |
|---------|--------------|-----|-----|-----|-------|
| 1612220 | VDE 2170 2,5 | 2,5 | 75  | 160 | 0.038 |
| 1612247 | VDE 2170 3,5 | 3,5 | 100 | 185 | 0.055 |
| 1612255 | VDE 2170 4   | 4,0 | 100 | 185 | 0.058 |

| Code    | No.          |     |     |     |       |
|---------|--------------|-----|-----|-----|-------|
| 1612271 | VDE 2170 5,5 | 5,5 | 125 | 225 | 0.095 |
| 1612298 | VDE 2170 6,5 | 6,5 | 150 | 260 | 0.134 |

# WWW.GEDORE.CO.ZA

## VDE 2160-2170 PH 06

Screwdriver set,  
6 pieces



- > For slotted and cross-head screws PH
- > Insulated up to 1000 V, according to EN 60900/IEC 60900, fully insulated blade
- > Ergonomic 3-component handle Power-Grip<sup>3</sup> for maximum power with minimum effort

| Code    | No.                 | Contents                        | Pieces | kg    |
|---------|---------------------|---------------------------------|--------|-------|
| 1616048 | VDE 2160-2170 PH-06 | slotted 3,5 4 5,5 6,5 mm PH 1 2 | 6      | 0.660 |

## VDE 2133

Nut drivers



- > Ergonomic 3-component handle Power-Grip<sup>3</sup> for maximum power with minimum effort
- > Insulated up to 1000 V, according to EN 60900/IEC 60900
- > hanging hole on handle for space-saving storage

| Code    | No.        |  |  |  | Head-Ø | Ø   |  |
|---------|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|-----|-----------------------------------------------------------------------------------|
| 1747045 | VDE 2133 3 | 3                                                                                 | 125                                                                               | 225                                                                               | 9      | 8,9 | 0.109                                                                             |
| 1747053 | VDE 2133 4 | 4                                                                                 | 125                                                                               | 225                                                                               | 10     | 8,9 | 0.111                                                                             |
| 1747061 | VDE 2133 5 | 5                                                                                 | 125                                                                               | 225                                                                               | 11     | 8,9 | 0.112                                                                             |
| 1747088 | VDE 2133 6 | 6                                                                                 | 125                                                                               | 225                                                                               | 12     | 8,9 | 0.114                                                                             |
| 1747096 | VDE 2133 7 | 7                                                                                 | 125                                                                               | 235                                                                               | 14     | 9,9 | 0.152                                                                             |
| 1747118 | VDE 2133 8 | 8                                                                                 | 125                                                                               | 235                                                                               | 15     | 9,9 | 0.154                                                                             |
| 1747126 | VDE 2133 9 | 9                                                                                 | 125                                                                               | 235                                                                               | 16     | 9,9 | 0.154                                                                             |

| Code    | No.         |  |  1 mm |  2 mm | Head-Ø | Ø    |  kg |
|---------|-------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------|------|----------------------------------------------------------------------------------------|
| 1747134 | VDE 2133 10 | 10                                                                                 | 125                                                                                      | 235                                                                                      | 17     | 9,9  | 0.161                                                                                  |
| 1747142 | VDE 2133 11 | 11                                                                                 | 125                                                                                      | 254                                                                                      | 19     | 10,9 | 0.193                                                                                  |
| 1747150 | VDE 2133 12 | 12                                                                                 | 125                                                                                      | 245                                                                                      | 20     | 10,9 | 0.196                                                                                  |
| 1747169 | VDE 2133 13 | 13                                                                                 | 125                                                                                      | 245                                                                                      | 21     | 10,9 | 0.199                                                                                  |
| 1747177 | VDE 2133 14 | 14                                                                                 | 125                                                                                      | 245                                                                                      | 22     | 10,9 | 0.198                                                                                  |
| 1747185 | VDE 2133 17 | 17                                                                                 | 125                                                                                      | 245                                                                                      | 26     | 10,9 | 0.222                                                                                  |

## VDE 2133

Nut driver set,  
10 pieces



| Code    | No.           | Contents                                          | kg    |
|---------|---------------|---------------------------------------------------|-------|
| 1747260 | VDE 2133 / 10 | 2133 5,0 6,0 7,0 8,0 9,0 10,0 11,0 12,0 13,0 14,0 | 1.300 |

- > Only tools bearing these test symbols are classed as insulated tools.
- > VDE insulation as per standard EN60900, IEC/CEI900, VDE0680.
- > Safe working in high-voltage areas.
- > Up to 1000V alternating current.
- > Up to 1500V direct current.



# PRECISION UNDER HIGH VOLTAGE



VDE torque wrench – VDE 4508

- 1** TESTED QUALITY IN ACC. WITH DIN EN ISO 6789-2:2017
- 2** PRECISE WORKING BY EXCEEDING THE SPECIFIED STANDARD OF +/- 4%
- 3** TACTILE AND AUDIBLE TRIGGER SIGNAL
- 4** EASY OPERATION, EVEN WITH SAFETY GLOVES ON AS WELL

## VDE 4508

VDE torque wrench  
5-50Nm



**NEW**

- › Controlled screw tightening in the most common range' Release system generates a clear tactile and audible release signal
- › Scale with one Nm graduation
- › Classified according to DIN EN ISO 6789-2:2017 Type II Class A, incl. traceable test certificate, calibrated to a maximum permissible deviation of +/- 3 % and therefore more precise than the +/- 4 % required by the standard
- › Safety button to prevent unintentional loosening of the socket spanner insert
- › VDE insulated up to 1000 V, in accordance with EN 60900/IEC 60900

\* SPECIAL ORDER

   1000 V



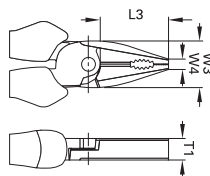
| Code    | No.         | Type               | □"   | ■ mm | Nonius | Height mm | Nm    | Housing square centre spacing mm | Length mm | Head width mm | Head height mm | □ kg  |
|---------|-------------|--------------------|------|------|--------|-----------|-------|----------------------------------|-----------|---------------|----------------|-------|
| 3125335 | VDE 4508-02 | Reversible ratchet | 3/8" | 10   | 1      | 75        | 5-25  | 24                               | 319       | 50            | 62             | 0.714 |
| 3079066 | VDE 4508-05 | Reversible ratchet | 1/2" | 12,5 | 2,5    | 80        | 10-50 | 24                               | 369       | 48            | 62             | 0.825 |

## VDE 8250 H

VDE heavy duty combination pliers  
with VDE insulating sleeves



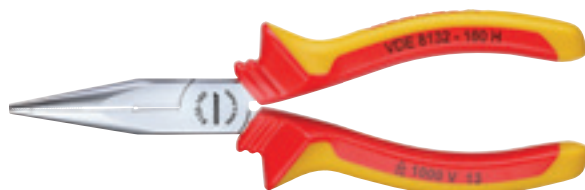
- > Individually tested
- > For round and flat material
- > Extra long blades
- > For all wire types including piano wire, 1.6 mm
- > Protective insulation up to 1000 V, according to EN 60900/IEC 60900
- > Sleeve insulation



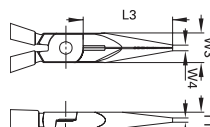
| Code    | No.            | L   | L3   | W3   | W4  | T1   |       |
|---------|----------------|-----|------|------|-----|------|-------|
| 1550942 | VDE 8250-160 H | 160 | 35   | 22,8 | 5,8 | 10,4 | 0.228 |
| 1550950 | VDE 8250-180 H | 180 | 38,5 | 25,6 | 6,5 | 11,0 | 0.288 |
| 1550969 | VDE 8250-200 H | 200 | 39,5 | 27,0 | 6,5 | 12,4 | 0.369 |

## VDE 8132 H

VDE telephone pliers  
with VDE insulating sleeves, straight pattern



- > Long, flat-round jaws, straight gripping faces, serrated
- > For holding, gripping, bending and cutting
- > Protective insulation up to 1000 V, according to EN 60900/IEC 60900
- > Sleeve insulation



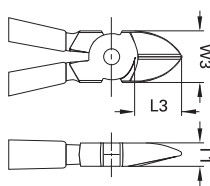
| Code    | No.            | L   | L3   | W3   | W4  | T1  | T2  |       |
|---------|----------------|-----|------|------|-----|-----|-----|-------|
| 1552112 | VDE 8132-160 H | 160 | 50   | 16,5 | 3,2 | 9,0 | 2,5 | 0.164 |
| 1552120 | VDE 8132-200 H | 200 | 75,7 | 18,5 | 3,7 | 9,5 | 2,8 | 0.235 |

## VDE 8314 H

VDE side cutters  
with VDE insulating sleeves



- > With slender head, ideal for confined spaces
- > For medium-hard wire 1.6 mm
- > Protective insulation up to 1000 V, according to EN 60900/IEC 60900
- > Sleeve insulation

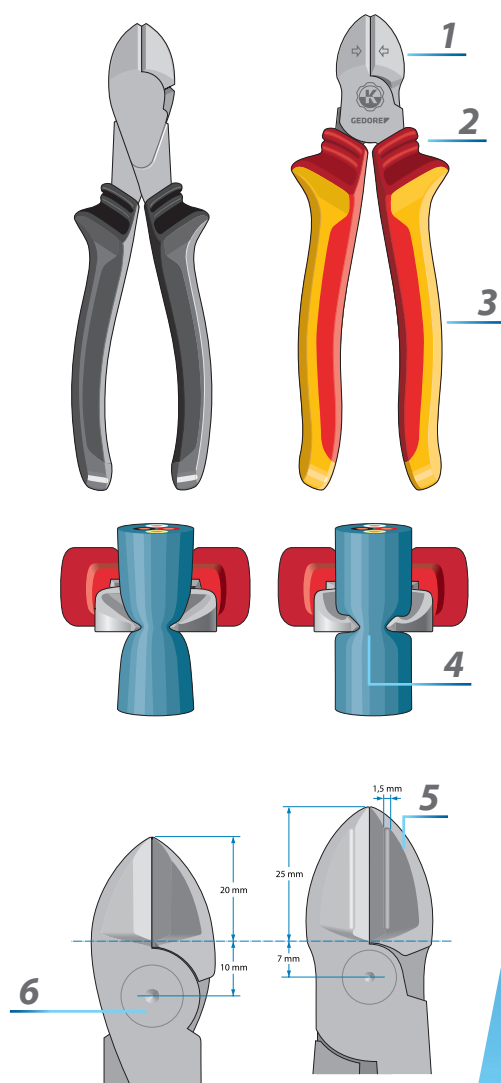


| Code    | No.            | L   | L3   | W3   | T1   | Ø   |       |
|---------|----------------|-----|------|------|------|-----|-------|
| 1552155 | VDE 8314-140 H | 140 | 18,5 | 18,5 | 9,5  | 1,6 | 0.177 |
| 1552163 | VDE 8314-160 H | 160 | 19   | 22,0 | 10,0 | 1,6 | 0.231 |



# i VDE SIDE CUTTERS

Particularly suitable for  
electrical installation work



- 1** Inductively hardened cutting edges (63 - 65 HRC) ensure constant cutting power over a long time span.
- 2** Max. safety when used under voltages thanks to the long, insulated handle with non-slip mechanism
- 3** VDE insulated sleeves
- 4** Maximum cutting performance yet with a low level of effort expended thanks to an optimum interaction of cutting geometry, eccentric rivet bearing and ergonomic handle design.
- 5** Stepped cutting edges make "cutting" easier and protect the cutting material
- 6** Power side cutter thanks to a marked transfer of the pivot to the cutter

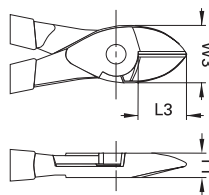
\* Crowned surfaces/handles - i.e. which are hardly rounded - prevent unfavourable, punctual peak forces. As a result, the force is evenly spread across your hand.

## VDE 8316 H

VDE power side cutters  
with VDE insulating sleeves



- > For hard wire/piano wire
- > Max. cutting capacity Ø 1,4 - 2,0 mm
- > Protective insulation up to 1000 V, according to EN 60900/IEC 60900
- > Sleeve insulation



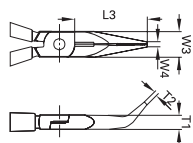
| Code    | No.            | L   | L3   | W3 | T1   | Ø   |       |
|---------|----------------|-----|------|----|------|-----|-------|
| 1551000 | VDE 8316-200 H | 200 | 22,0 | 28 | 11,0 | 2,0 | 0.344 |

## VDE 8132 AB H

VDE bent nose telephone pliers  
with VDE insulating sleeves, angled pattern



- > Long, flat-round jaws, straight gripping faces, serrated
- > Tips 45° angled
- > Protective insulation up to 1000 V, according to EN 60900/IEC 60900
- > Sleeve insulation



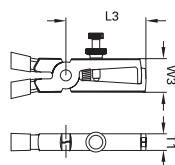
| Code    | No.               | L   | L3   | W3   | W4  | T1  | T2  |       |
|---------|-------------------|-----|------|------|-----|-----|-----|-------|
| 1552139 | VDE 8132 AB-160 H | 160 | 46   | 16,5 | 3,2 | 9,0 | 2,5 | 0.173 |
| 1552147 | VDE 8132 AB-200 H | 200 | 70,5 | 18,5 | 3,7 | 9,5 | 2,8 | 0.235 |

## VDE 8098 H

VDE stripping pliers  
with VDE insulating sleeves



- > Opens automatically, with spring and adjusting screw
- > V-shaped cutting jaws for stripping the plastic insulation of single- and multi-core conductors
- > For wires from 0.8 to 6.0 mm<sup>2</sup> Protective insulation up to 1000 V, according to EN 60900/IEC 60900
- > Sleeve insulation



| Code    | No.            | L   | L3   | W3   | T1  | mm <sup>2</sup> |       |
|---------|----------------|-----|------|------|-----|-----------------|-------|
| 1552074 | VDE 8098-160 H | 160 | 43,5 | 18,5 | 8,5 | 0,8-6,0         | 0.204 |

## VDE 8099 H

VDE stripping pliers  
with VDE insulating sleeves



- > Self-adjusting, for wires 0.5 - 5.0 mm<sup>2</sup>
- > V-shaped cutting jaws for stripping the plastic insulation of single- and multi-core conductors
- > Protective insulation up to 1000 V, according to EN 60900/IEC 60900
- > Sleeve insulation

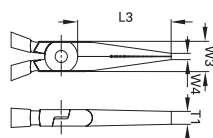
| Code    | No.            | [-mm-] | [-"inch-] | mm <sup>2</sup> |       |
|---------|----------------|--------|-----------|-----------------|-------|
| 1552082 | VDE 8099-160 H | 160    | 6.1/2     | 0,5-5,0         | 0.211 |

## VDE 8120 H

VDE flat nose pliers  
with VDE insulating sleeves



- > With long jaws, serrated gripping faces
- > Protective insulation up to 1000 V, according to EN 60900/IEC 60900
- > Sleeve insulation



| Code    | No.            | L   | L3 | W3   | W4  | T1  |       |
|---------|----------------|-----|----|------|-----|-----|-------|
| 1552090 | VDE 8120-160 H | 160 | 51 | 16,5 | 3,4 | 9,0 | 0.175 |

VDE 8122 H

VDE round nose pliers  
with VDE insulating sleeves



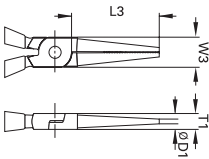


> With long jaws, serrated gripping faces

> For gripping and bending

> Protective insulation up to 1000 V, according to EN 60900/IEC 60900

> Sleeve insulation



| Code    | No.            | L   | L3 | W3   | D1  | T1  |  |
|---------|----------------|-----|----|------|-----|-----|-------------------------------------------------------------------------------------|
| 1552104 | VDE 8122-160 H | 160 | 48 | 16,5 | 2,5 | 8,7 | 0.154                                                                               |

VDE S8003 H

VDE pliers set with VDE  
insulating sleeves





> Protective insulation up to 1000 V, according to EN 60900/IEC 60900

> Sleeve insulation

| Code    | No.          | Contents                                           | Pieces |  |
|---------|--------------|----------------------------------------------------|--------|---------------------------------------------------------------------------------------|
| 1550594 | VDE S 8003 H | VDE 8132-160 H<br>VDE 8250-180 H<br>VDE 8314-160 H | 3      | 0.747                                                                                 |

VDE 1101-003

VDE tool set in i-BOXX® 72





> Individually tested, insulated up to 1000 V, according to EN 60900/IEC 60900, except voltage tester No. 4615

> In GEDORE i-BOXX® 72

| Code    | No.          | Contents                                                                                          | Pieces |  |
|---------|--------------|---------------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|
| 1828045 | 1101-003 VDE | VDE 8132-200 H<br>VDE 8250-180 H<br>VDE 8314-160 H<br>VDE 2170 4 5.5<br>VDE 2160 PH 1 2<br>4615 3 | 8      | 2.300                                                                                 |

VDE 4522  
Cable knife



   1000 V

- › Strong, straight blade made from hardened and tempered steel.
- › Tough, resilient plastic handle.
- › With VDE insulation as per DIN EN 60900.

| Code    | No.      | mm  | kg    |
|---------|----------|-----|-------|
| 6690400 | VDE 4522 | 180 | 0.104 |

V 180  
Cable shears



 1000 V

- › Cuts cable up to 27mm, solid material up to 200 mm<sup>2</sup>.
- › Individually tested, insulation up to 1000V.

| Code    | No.    | mm  | kg   |
|---------|--------|-----|------|
| 6430330 | 180-23 | 620 | 2.12 |

V 4614 PLUS  
Voltage tester 1000V  
two-pole with LED  
display



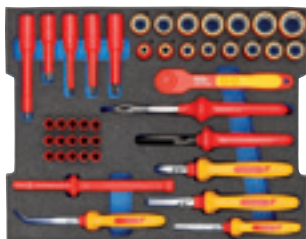
 1000 V

- › AC and DC voltages from 12-690V.
- › Single pole phase testing > 100VAC.
- › With VDE insulation as per DIN EN 60900.
- › Protection classification IP65, dust-proof, hose-proof.
- › Displays polarity in case of direct current (DC).

| Code    | No.    | kg    |
|---------|--------|-------|
| 2241137 | V 4614 | 0.270 |





**1100 - 1094**VDE tool assortment HYBRID  
53 pieces
**10** **3/8"**    1000 V

- > The perfect range of tools for repair and maintenance work on hybrid and electric vehicles
- > Suitable for vehicles of all manufacturers
- > All tools insulated according to EN 60900/EC 60900
- > In GEDORE L-BOXXÄ® 136

| Code           | No.       | Contents                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Pieces |  |
|----------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|
| <b>2979063</b> | 1100-1094 | 3/8" VDE socket wrench insert No. VDE 30, SW 6 8 9 10 11<br>12 13 14 15 16 17 18 19 20 22 mm<br>3/8" VDE screwdriver bit socket No. VDE INX 30, SW 8<br>10 12 mm<br>3/8" VDE extension No. VDE 3090 -3 -6, 75 150 mm<br>3/8" VDE reversible ratchet No. VDE 3093 U<br>VDE Screwdriver slot No. VDE 2170, 2.5 3.5 4 5.5 mm<br>VDE Screwdriver Cross-recess No. VDE 2160 PH 1 2 3<br>VDE Screwdriver TX No. VDE 2163 TX T20 T25 T30<br>VDE cable cutter No. VDE 8094, 200 mm<br>VDE Universal pliers No. VDE 146 10, 10".<br>VDE Power combination pliers No. VDE 8250-200 H, 200 mm<br>2-component handle VDE Power side cutter No. VDE 8314-180 H, 180 mm<br>VDE Flat nose pliers No. VDE 8132 AB-200 JC, 200 mm angled<br>2-component handle VDE Flat nose pliers No. VDE 8120-160 H, 160 mm<br>2-component handle VDE cable knife No. VDE 4522, 180 mm<br>Counter sleeve No. V 914, size 1 2 3 | 53     | 8.280                                                                               |

**ELECTRICIAN'S TOOLSET**
**12,5** **1/2"**    1000 V

- > Double stitched and bound.
- > Very durable water repellent inner lining.
- > Heavy duty zip.
- > Reinforced inners.

| Code                             | No.                    | 1B Spanners               | 42-88M Allen keys     | VDE Screwdrivers                                               | VDE Nut drivers                                                                       |
|----------------------------------|------------------------|---------------------------|-----------------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>668122</b>                    | Electrician's Tool Set | 8 10 13<br>17 19          | 2 2,5 3 4 5 6<br>8 10 | <b>VDE 2160</b><br>PH1 PH2 PH3<br><b>VDE 2170</b><br>4 5.5 6.5 | <b>2133</b> 4 6<br>8 10 13                                                            |
| Accessories                      |                        | Accessories               |                       |                                                                |  |
| Electrician's Toolcase           |                        | 145-250 Waterpump Pliers  |                       |                                                                | 6.100                                                                                 |
| VDE 8098-160H Stripping Pliers   |                        | 9930.000 Torch            |                       |                                                                |                                                                                       |
| VDE 8250-200H Combination Pliers |                        | 9534.05 Tape Measure      |                       |                                                                |                                                                                       |
| VDE 8314-160H Side Cutters       |                        | VDE 4522 Cable Knife      |                       |                                                                |                                                                                       |
| VDE 8132-200H Telephone Pliers   |                        | Digital Multimeter        |                       |                                                                |                                                                                       |
| 137-175 Grip Pliers              |                        | 8601-300 Ball Pein Hammer |                       |                                                                |                                                                                       |
| 62-250 P10 Shifting Spanner      |                        |                           |                       |                                                                |                                                                                       |

## VDE 1001

### VDE toolset



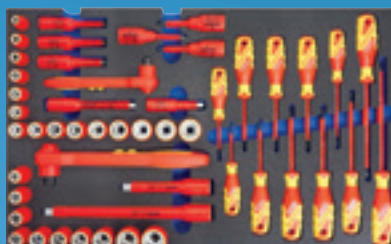
12.5 1/2    1000 V

- > With practical foam insert in sturdy PVC case
- > Dimensions: 395 x 295 x 106 mm
- > Offset screwdriver No. 42 not insulated

| Code    | No.      | Contents                                                                                            | Pieces |  |
|---------|----------|-----------------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|
| 6602560 | VDE 1001 | VDE 19 10 12 13 14 17 19 22 24<br>VDE 1993 U<br>VDE 1990-5 -10<br>VDE 1989 T<br>VDE 2170 5,5 42 2,5 | 14     | 3.460                                                                               |

## KL-4600-200

Tool trolley with high-voltage assortment  
103 pieces



**NEW**

3/8 1/2    1000 V

- > With its unique kit assembly, the high-voltage VDE tool trolley is ideal for working on hybrid and electric vehicles safely
- > Perfect for repair and maintenance work on vehicles of all manufacturers.
- > All tools are insulated with protection according to EN 60900/EC 60900
- > The tool trolley has side panels with Euro perforations, a heavy-duty chassis with external bearings, ball-bearing guide rails, and central locking

| Code    | No.         | Height mm | Width mm | Depth mm | Drawers        | Static load capacity kg | Load capacity kg | Number of drawers | Pieces |  |
|---------|-------------|-----------|----------|----------|----------------|-------------------------|------------------|-------------------|--------|---------------------------------------------------------------------------------------|
| 3415740 | KL-4600-200 | 985       | 775      | 475      | full extension | 900                     | 650              | 6                 | 103    | 96.000                                                                                |

### Contents

3/8" VDE Tool assortment with 6 - 22; XZN M8 - M12, 3/8" VDE Torque wrench 5 - 25 Nm, 1/2" VDE Tool assortment with 10 - 24; IN 5 - 8 mm VDE Open-end wrench 9 - 24, VDE Ring spanner 8 - 22, VDE Screwdriver slotted Phillips; TX T8 - T30, VDE Cable shears, VDE Universal pliers VDE Power combination pliers, VDE Power side cutters, VDE Needle nose pliers, angled, VDE Flat nose pliers, VDE Cable knife Meter connection fittings, Digital voltage tester 1.0000 V, Electrician protective gloves, Liner gloves, Rubber drape 250 x 350 mm ISO standing mat, Barrier tape, Warning sign „Lightning“, High-voltage warning sign „Switched on“, High-voltage warning sign „Switched off“ Safety lock, Plastic clip 80 mm; 160mm, Cable spreader, Rubber mallet, Workshop trolley

# TORQUE TOOLS

## Maximum control in production guarantees high quality tools.

Use of the best quality steel, state-of-the-art machinery and environmentally friendly production processes. Our tooling experts ensure meticulous processing and future development. Precise adherence to strict testing and measuring specifications are the seal for the highest product quality. Wide range of mechanical or electronic torque spanners, testing devices and torque multipliers and accessories. Customised service packages including the development of customer-specific solutions.

All parts entering the production process - from the steel to the smallest spring - are inspected, and all production steps or operations are subject to strict quality controls.

After assembly and adjustment the torque tools are checked for accuracy (calibrated) in the final inspection and given a serial number. All torque tools are delivered with a factory test certificate or a calibration certificate in accordance with the applicable standards and guidelines. Processing quality, repeat accuracy and service life are tested in regular endurance tests. Insights gained here flow directly back into the optimisation of the production process.



### TRACEABLE SAFETY

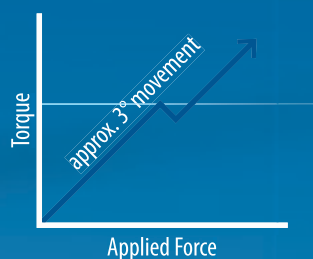
- DAkkS calibration in our own accredited, independent DAkkS calibration laboratory
- In-house calibration according to ISO 6789
- SANAS accredited laboratory in South Africa







0.04 TO  
54,000 N·M

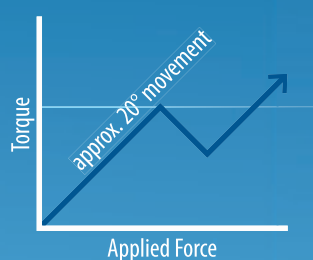


#### CLICK TOOLS - Overtightening Possible



When the preset torque value is reached the operator will hear a click, feel an impulse and there will be approximately 3° of tool movement. Resetting takes place when the hand pressure is released. Work can then immediately continue.

These tools are generally length dependent (exception DREMOMETER models AM - F), the position of the hand on the tool alters the torque produced.

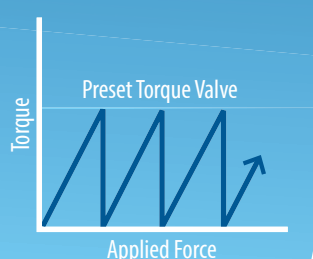


#### BREAKING TOOLS - Overtightening Unlikely



When the preset torque value is reached, these tools break at a specific point along the tool's length - usually at a pivot point near the tool's head. In most cases the movement is approximately 20°. The tool is automatically reset by allowing the handle to return to its in line position. These tools are length

dependent, the position of the hand on the tool alters the torque produced. Continued application of force after 20° of tool movement will increase the torque applied above the preset limit but with the greater angle of tool movement this is less likely.



#### SLIPPING TOOLS - Overtightening Impossible



When the preset torque value is reached, a mechanism in the tool causes the application of torque to cease and the tool slips free for a short time until resetting occurs. Even if the application of force

is repeated, the preset torque value will not be exceeded, therefore making it impossible to overtighten a fastener. These tools are not length dependent.

# OVERVIEW OF GEDORE

## TORQUE TOOLS

| Page                                            | Series/Type     |                                                                                     | Precision +/- | Drive                                            | Ratchet | Scale |
|-------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|---------------|--------------------------------------------------|---------|-------|
| <b>0,4 – 3.000Nm Mechanical Torque Wrenches</b> |                 |                                                                                     |               |                                                  |         |       |
| 138                                             | Dremometer      |    | 3%            | $\frac{1}{4}" \blacktriangleright \frac{1}{2}"$  | ●       | ●     |
| 136                                             | Dremaster DMK   |    | 3%            | $\frac{1}{2}" \blacktriangleright \frac{3}{4}"$  | ●       | ●     |
| 137                                             | Dremometer DMSE |    | 3%            | $\boxed{9 \times 12} \quad \boxed{14 \times 18}$ | ○       | ●     |
| 134                                             | Torcofix K      |    | 3%            | $\frac{1}{4}" \blacktriangleright \frac{3}{4}"$  | ●       | ●     |
| 135                                             | Torcofix SE     |    | 3%            | $\boxed{9 \times 12} \quad \boxed{14 \times 18}$ | ○       | ●     |
| 135                                             | Torcofix FS     |    | 3%            | $\boxed{9 \times 12} \quad \boxed{14 \times 18}$ | ○       | ○     |
| 143                                             | TSN Slipper     |  | 4%            | $\frac{1}{4}" \blacktriangleright \frac{1}{2}"$  | ●       | ○     |
| 145                                             | TBN Breaker     |  | 4%, 6%        | $\textcircled{16} \quad \boxed{9 \times 12}$     | ○       | ○     |
| 144                                             | TSP Slipper     |  | 6%            | $\frac{1}{4}"$                                   | ●       | ○     |
| 144                                             | TSC Slipper     |  | 6%            | $\frac{1}{4}"$                                   | ●       | ○     |
| 147                                             | Typ 83          |  | 4%            | $\frac{1}{4}" \blacktriangleright \frac{1}{2}"$  | ●       | ○     |
| 146                                             | TBI 1000        |  | 4%            | $\frac{3}{4}"$                                   | ●       | ●     |
| <b>0,04 – 13,6Nm Torque screwdriver</b>         |                 |                                                                                     |               |                                                  |         |       |
| 149                                             | TLS Pro         |  | 6%            | $\frac{1}{4}"$                                   | ○       | ○     |
| 148                                             | Typ 756 S       |  | 6%            | $\frac{1}{4}"$                                   | ○       | ●     |
| <b>2 – 1.000Nm Electronic torque wrench</b>     |                 |                                                                                     |               |                                                  |         |       |
| 146                                             | Torcotronic III |  | 1%            | $\frac{1}{4}" \quad \frac{1}{2}"$                | ●       | ●     |
| <b>Torque testers</b>                           |                 |                                                                                     |               |                                                  |         |       |
| 151                                             | Dremotest E     |  | 1%            | $\frac{1}{4}" \blacktriangleright 1"$            | ○       | ○     |

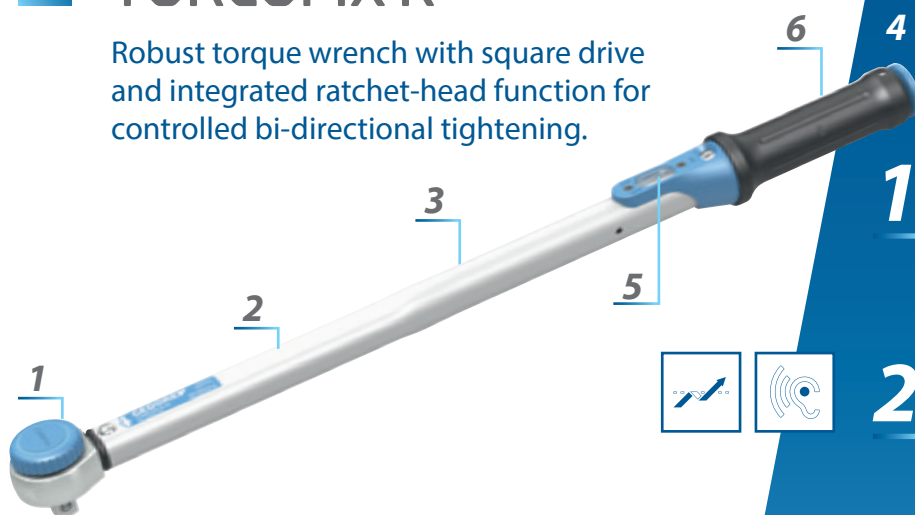


## Range Nm

| Operation length independent | Release types                                                                         | 0            | 5 | 10 | 15 | 20         | 40 | 60 | 80 | 100 | 150 | 200          | 300 | 400 | 500 | 750 | 1000 | 1500 | 2000 |  |
|------------------------------|---------------------------------------------------------------------------------------|--------------|---|----|----|------------|----|----|----|-----|-----|--------------|-----|-----|-----|-----|------|------|------|--|
| Mechanical torque wrench     |                                                                                       |              |   |    |    |            |    |    |    |     |     |              |     |     |     |     |      |      |      |  |
| ●                            | ①    | 6 – 3.000Nm  |   |    |    |            |    |    |    |     |     |              |     |     |     |     |      |      |      |  |
| ●                            | ①    |              |   |    |    | 20 – 850Nm |    |    |    |     |     |              |     |     |     |     |      |      |      |  |
| ○                            | ①    |              |   |    |    | 20 – 400Nm |    |    |    |     |     |              |     |     |     |     |      |      |      |  |
| ○                            | ①    | 1 – 750Nm    |   |    |    |            |    |    |    |     |     |              |     |     |     |     |      |      |      |  |
| ○                            | ①    | 5 – 50Nm     |   |    |    |            |    |    |    |     |     |              |     |     |     |     |      |      |      |  |
| ○                            | ①    | 2 – 200Nm    |   |    |    |            |    |    |    |     |     |              |     |     |     |     |      |      |      |  |
| ○                            | ③  | 3 – 125Nm    |   |    |    |            |    |    |    |     |     |              |     |     |     |     |      |      |      |  |
| ●                            | ②  | 5 – 200Nm    |   |    |    |            |    |    |    |     |     |              |     |     |     |     |      |      |      |  |
| ○                            | ③  | 1 – 10Nm     |   |    |    |            |    |    |    |     |     |              |     |     |     |     |      |      |      |  |
| ●                            | ③  | 1 – 10Nm     |   |    |    |            |    |    |    |     |     |              |     |     |     |     |      |      |      |  |
| ●                            |                                                                                       | 0.8 – 2000Nm |   |    |    |            |    |    |    |     |     |              |     |     |     |     |      |      |      |  |
| ●                            | ②  |              |   |    |    |            |    |    |    |     |     | 200 – 1000Nm |     |     |     |     |      |      |      |  |
| ○                            |                                                                                       | 5 – 125Nm    |   |    |    |            |    |    |    |     |     |              |     |     |     |     |      |      |      |  |
|                              | ③  | 0,05 – 25Nm  |   |    |    |            |    |    |    |     |     |              |     |     |     |     |      |      |      |  |
| ○                            | ③  | 0,05 – 9Nm   |   |    |    |            |    |    |    |     |     |              |     |     |     |     |      |      |      |  |
| ○                            |                                                                                       |              |   |    |    |            |    |    |    |     |     |              |     |     |     |     |      |      |      |  |
|                              |                                                                                       | 2 – 1000Nm   |   |    |    |            |    |    |    |     |     |              |     |     |     |     |      |      |      |  |
| ○                            |                                                                                       |              |   |    |    |            |    |    |    |     |     |              |     |     |     |     |      |      |      |  |
|                              |                                                                                       | 0,9 – 3150Nm |   |    |    |            |    |    |    |     |     |              |     |     |     |     |      |      |      |  |
|                              |                                                                                       |              |   |    |    |            |    |    |    |     |     |              |     |     |     |     |      |      |      |  |

# TORCOFIX K

Robust torque wrench with square drive and integrated ratchet-head function for controlled bi-directional tightening.



## CHROME-PLATED RATCHET HEAD

All 1/4"-1/2" square drives of the TORCOFIX K series have a black plastic cap – also referred to as a mushroom head. This mushroom head prevents an unintentional pulling out of the whole square drive when changing the nut socket.



## DIN EN ISO

Classified to DIN EN ISO 6789-2:2017 Type II Class A, with a factory certificate allowing for operations to be traced back. Calibrated to a permitted  $\pm 3\%$  deviation and better. The specifications of the standard ( $\pm 4\%$ ) are exceeded.

## 1

## 2

## AUTOMATIC ACTUATION

The TORCOFIX actuates with a clear tactile impulse and audible signal and is immediately ready for operation again.

## 3

## ROBUST STEEL TUBE

With high corrosion protection, chrome-plated, silk-metal.

## 4

## LIGHTWEIGHT AND RELIABLE

Locking button enables reliable locking of the torque setting.

## 5

## SCALE

Easily readable double scale (Nm/lbf.ft), well protected behind a window with a magnifying glass effect. The torque setting is readable on the scale or, more particularly, on the scale in combination with the scale ring.

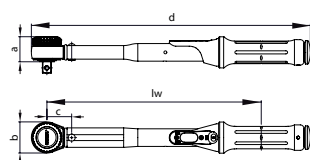
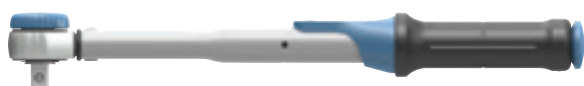
## 6

## HANDGRIP WITH A USER AID

Black plastic handgrip, new ergonomically enhanced shape, with an indentation in the middle of the handgrip. User aid and reference points for calibration.

## 4549 - 4550

Torque wrench TORCOFIX K  
40-750Nm

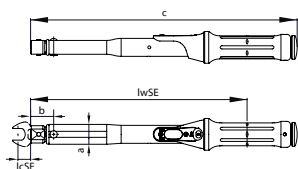


- > 1/4", 3/8", 1/2" mushroom head square. From 3/4" with square drive
- > For controlled bi-directional tightening
- > you can feel and hear an audible automatic click
- > Highest accuracy max. deviation of  $\pm 3\%$
- > Ergonomic system for torque adjustment
- > Double scale N-m and lbf-ft
- > Certificate according to DIN EN ISO 6789:2017 part 2

| Code    | No.     | "    | mm   | N-m     | lbf-ft   | الليست             | vernier Nm | lw     | a    | b    | d     |       |
|---------|---------|------|------|---------|----------|--------------------|------------|--------|------|------|-------|-------|
| 2201429 | 4549-00 | 1/4" | 6,3  | 1-5     | 0,75-3,7 | 25 N-m / 25 lbf-ft | 0,025 N-m  | 146    | 25,3 | 35,0 | 224   | 0.432 |
| 1545132 | 4549-02 | 1/4" | 6,3  | 5-25    | 3,7-18   | 1 N-m / 1 lbf-ft   | 0,1 N-m    | 206,5  | 25,3 | 35,0 | 284   | 0.680 |
| 1545140 | 4549-05 | 3/8" | 10   | 10-50   | 7,5-37   | 25 N-m / 25 lbf-ft | 0,25 N-m   | 256,5  | 25,3 | 35,0 | 334   | 0.550 |
| 7601610 | 4550-20 | 1/2" | 12,5 | 40-200  | 30-150   | 10 N-m / 10 lbf-ft | 1 N-m      | 394,2  | 36   | 44,0 | 486   | 1.344 |
| 7674330 | 4550-40 | 3/4" | 20   | 80-400  | 60-300   | 10 N-m / 10 lbf-ft | 1 N-m      | 583,2  | 31   | 62,5 | 686   | 1.988 |
| 7674760 | 4550-55 | 3/4" | 20   | 110-550 | 80-405   | 10 N-m / 10 lbf-ft | 1 N-m      | 853,7  | 31   | 69,0 | 958   | 4.224 |
| 1521365 | 4550-75 | 3/4" | 20   | 150-750 | 110-550  | 10 N-m / 10 lbf-ft | 1 N-m      | 1128,7 | 38   | 69,0 | 1.232 | 5.400 |

## 4101

Torque wrench TORCOFIX SE  
40-750Nm



- > SE holder for insert tools (jaw, ring, reversible ratchet)
- > For controlled bi-directional tightening
- > you can feel and hear an audible automatic click

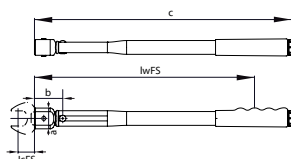
- > Highest accuracy max. deviation of  $\pm 3$
- > Ergonomic system for torque adjustment
- > Double scale N-m and lbf-ft
- > Certificate according to DIN EN ISO 6789:2017 part 2



| Code    | No.     | mm     | N-m  | lbf-ft | vernier Nm | lcSE     | c    | lwSE | lcSE  | kg    |
|---------|---------|--------|------|--------|------------|----------|------|------|-------|-------|
| 1646206 | 4101-05 | 9 x 12 | 5-50 | 3,5-37 | 25 N-m     | 0,25 N-m | 17,5 | 323  | 262,5 | 0.399 |

## 4150 - 4151

Torque wrench TORCOFIX FS  
5-200Nm



- > SE holder for insert tools (jaw, ring, reversible ratchet)
- > For controlled bi-directional tightening
- > you can feel and hear an audible automatic click

- > Highest accuracy max. deviation of  $\pm 3$
- > Ergonomic system for torque adjustment
- > Certificate according to DIN EN ISO 6789:2017 part 2
- > For special tools observe the gauge block



| Code    | No.                   | mm      | N-m    | lwFS | lcFS | a  | c   | kg    |
|---------|-----------------------|---------|--------|------|------|----|-----|-------|
| 7601960 | 4150-25 without fixed | 9 x 12  | 5-25   | 134  | 17,5 | 22 | 186 | 0.300 |
| 7602180 | 4150-50 without fixed | 9 x 12  | 10-50  | 194  | 17,5 | 22 | 246 | 0.270 |
| 7602850 | 4150-85 without fixed | 9 x 12  | 17-85  | 277  | 17,5 | 22 | 329 | 0.340 |
| 7603580 | 4151-20 without fixed | 14 x 18 | 40-200 | 357  | 25   | 33 | 410 | 0.750 |

## 3550-UK-LS4

Torque wrench TORCOFLEX UK SET  
5 pieces



- > Tried-and-tested torque wrench in the 40-200 Nm range with test certificate
- > Controlled clockwise tightening; bi-directional reversible ratchet
- > Classified as per DIN EN ISO 6789-2:2017; adjusted to a maximum permissible  $\pm 3\%$  deviation and thus with a greater

- precision than the standard-stipulated  $\pm 4\%$
- > Highly suited for car tyre changing given its 1/2" extension and impact sockets with protective sleeve in the 17, 19 and 21 mm sizes

**NEW**



| Code    | No.         | "    | mm   | Contents                                                                                                         | Nm     | Height mm | Head width mm | Head height mm | Length mm | kg    |
|---------|-------------|------|------|------------------------------------------------------------------------------------------------------------------|--------|-----------|---------------|----------------|-----------|-------|
| 3107027 | 3550-UK-LS4 | 1/2" | 12,5 | Torque wrench TORCOFLEX 40 - 200 Nm<br>No. 3550-20 UK<br>Extension No 1990-5<br>Impact socket set 1/2", 3 pieces | 40-200 | 44        | 42.5          | 22             | 499       | 2.398 |

# **i** DREMASTER DMK

Robust torque wrench with square drive and integrated ratchet-head function for controlled bi-directional tightening and interchangeable mushroom head with push-button release.



## SCALE

Model-dependent intervals of 1 or 0.5 N·m allow very accurate settings.



## LIGHTWEIGHT AND RELIABLE

Locking button enables reliable locking of the torque setting. "Torque adjustable" reference by means of opened lock symbol. Provision for rapid setting from the separate hexagon allen key fixture.



## DUAL SCALE WITH MAIN AND ALTERNATIVE UNIT (N·M/lb·ft)

Main unit N·m with vernier. At all times only one unit in the viewing area = avoids any reading errors. Change-over switch next to the scale for straightforward unit selection.



## 2

### AUTOMATIC ACTUATION

The DREMASTER® DMK actuates with a clear tactile impulse and audible signal and is immediately ready for operation again.



## 3

### DIN EN ISO

Classified to DIN EN ISO 6789:2003 Type II Class A, with a factory certificate allowing for operations to be traced back. Calibrated to a permitted  $\pm 3\%$  deviation and better. The specifications of the standard ( $\pm 4\%$ ) are exceeded

## 4

### ROBUST STEEL TUBE

With high corrosion protection, chrome-plated, satin powdercoated

## 5

### ADDITIONAL PROTECTION OF THE SERIAL NUMBER

Concealed setting drill hole = secured adjusting/setting system Serial number on the wrench and on the certificate for unambiguous product identification, traceable via in-house DAKS laboratory to national standards

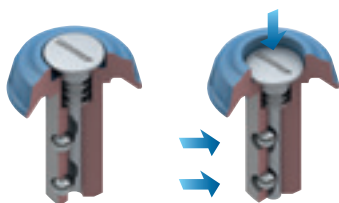
## 6

### HANDGRIP WITH A USER AID

Grey plastic handgrip, new ergonomically enhanced shape, with an indentation in the middle of the handgrip. User aid and reference points for calibration.

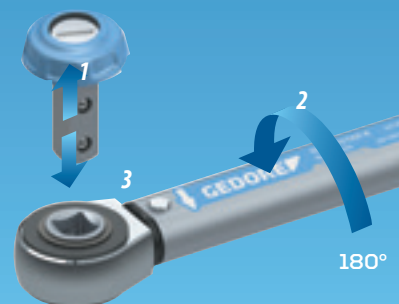


## TECHNICAL INFORMATION ANTI-LOSS ATTACHMENT



In order to change the turning direction of the DREMASTER® DMK:

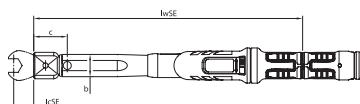
- 1 Press on the push-button with your thumb and take out the mushroom head
- 2 Turn the wrench
- 3 Re-insert the square drive





## DMK

Torque wrench DREMASTER®  
20-850Nm



### Use:

- For use in all areas of industrial manufacturing.
- For controlled nut and bolt tightening.

### Features:

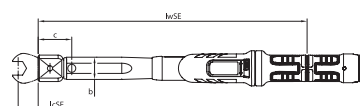
- Adjustable torque wrench with a square drive and integrated ratchet head function.
- For controlled bi-directional tightening.
- Interchangeable mushroom head square drive with ball-locking mechanism as per DIN 3120.
- In accordance with DIN EN ISO 6789, traceable to national norms.
- Lever breaking mechanism with a castor guarantee tactile impulse and audible actuation signals.

- Actuation accuracy: +/- 3% tolerance of the scale set to torque.
- Sturdy, satin-chrome plated tubular steel construction, with chrome plated ratchet head and top grade plastic parts.
- Ergonomically shaped, two-component plastic grip with calibration aid.
- Double scale Nm and lbf.ft behind window with magnifying effect.
- Additional micrometer scale with a Nm graduation of 0.1, 0.25, 0.5 or 1Nm.
- Supplied with a calibration certificate.
- Unique serial number for traceability.

| Code    | No.     | "   | N-m     | lbf-ft  | سلسله | vernier Nm | L      |       |
|---------|---------|-----|---------|---------|-------|------------|--------|-------|
| 2641232 | DMK 100 | 1/2 | 20-100  | 15-75   | 5 Nm  | 0,5 Nm     | 423.5  | 1.100 |
| 2641240 | DMK 200 | 1/2 | 40-200  | 30-150  | 10 Nm | 1 Nm       | 514.5  | 1.300 |
| 2641259 | DMK 300 | 1/2 | 60-300  | 45-220  | 10 Nm | 1 Nm       | 606.4  | 1.500 |
| 2641267 | DMK 400 | 3/4 | 80-400  | 60-300  | 10 Nm | 1 Nm       | 714.8  | 2.400 |
| 2641275 | DMK 550 | 3/4 | 110-550 | 80-405  | 10 Nm | 1 Nm       | 953.2  | 3.800 |
| 2641283 | DMK 750 | 3/4 | 150-750 | 110-550 | 10 Nm | 1 Nm       | 1228.2 | 4.900 |
| 2641291 | DMK 850 | 3/4 | 250-850 | 185-630 | 10 Nm | 1 Nm       | 1375.2 | 5.200 |

## DMSE

Torque wrench DREMASTER®  
20-400Nm



- SE holder for insert tools (jaw, ring, reversible ratchet)
- For controlled bi-directional tightening
- you can feel and hear an audible automatic click
- Highest accuracy max. deviation of +/- 3
- Ergonomically shaped plastic handgrip with calibration aid
- Switching between main scale N-m and sub scale lbf-ft, no reading errors

- Provision for rapid setting with hexagon allen key, not included
- Secured adjusting/setting system
- Certificate according to DIN EN ISO 6789:2017 part 2
- For special tools observe the gauge block



| Code    | No.      | mm         | N-m    | lbf-ft | سلسله              | vernier Nm | L     | LwSE  | LcSE |       |
|---------|----------|------------|--------|--------|--------------------|------------|-------|-------|------|-------|
| 2641445 | DMSE 100 | 9 x 12 mm  | 20-100 | 15-75  | 5 N-m / 5 lbf-ft   | 0,5 N-m    | 398,5 | 326,2 | 17,5 | 1.000 |
| 2641453 | DMSE 150 | 9 x 12 mm  | 30-150 | 22-110 | 10 N-m / 10 lbf-ft | 1 N-m      | 489,5 | 417,2 | 17,5 | 1.160 |
| 2641461 | DMSE 200 | 14 x 18 mm | 40-200 | 30-150 | 10 N-m / 10 lbf-ft | 1 N-m      | 499,5 | 427,2 | 25,0 | 1.250 |
| 2641488 | DMSE 300 | 14 x 18 mm | 60-300 | 45-220 | 10 N-m / 10 lbf-ft | 1 N-m      | 590,4 | 518,1 | 25,0 | 1.400 |
| 2641496 | DMSE 400 | 14 x 18 mm | 80-400 | 60-300 | 10 N-m / 10 lbf-ft | 1 N-m      | 677,2 | 604,9 | 25,0 | 2.000 |

# i DREMOMETER

Permanent Precision



SE 9x12 14x18 8-400 N·m



L 1/4 - 1 6-2000 N·m



1/4 - 1 1/2 6-3000 N·m



Z 16 22 28 8-1000 N·m

## 1

DRIVE IN ACCORDANCE  
WITH APPLICATION

## 2

CLASSIFIED TO DIN EN ISO 6789:2017  
TYPE II CLASS A,

## 3

CLEAR DOUBLE SCALE N·M AND  
LBF·IN/LBF·FT (DEPENDENT ON MODEL)

## 4

ROBUST AND LIGHT ALUMINIUM  
CONSTRUCTION WITH ERGONOMIC HANDLE

## 5

RELEASES AUTOMATICALLY  
PERCEPTIBLE AND AUDIBLE

## 6

NEW HANDLE SHAPE ALLOWS THE  
USE OF EXTENSION TUBES

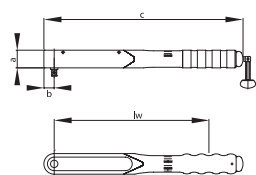
## 8554

Torque wrench DREMOMETER®  
6-30Nm



- > Torque wrench with 1/4" square drive in the range 6 - 30 N·m
- > Single- and double-square drive for controlled bi-directional tightening
- > you can feel and hear an audible automatic click
- > Double scale for measuring ranges in the lbf-in range
- > Highest accuracy max. deviation of +/- 3
- > Error-free operation - no change in torque values when operated outside the handle.  
Not length dependent
- > Certificate according to DIN EN ISO 6789:2017 part 2

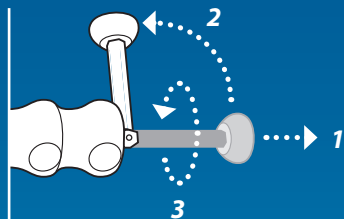
\*WHILE STOCKS LAST



| Code    | No.      | Drive type/drive | "    | mm  | Storage     | N·m  | lbf-in | lw  | a  | b  | c   |                   |       |
|---------|----------|------------------|------|-----|-------------|------|--------|-----|----|----|-----|-------------------|-------|
| 7775440 | 8554-01* | Single square    | 1/4" | 6,3 | Plastic box | 6-30 | 50-270 | 206 | 30 | 15 | 268 | 1 N·m / 10 lbf-in | 0.850 |

## TECHNICAL INFORMATION

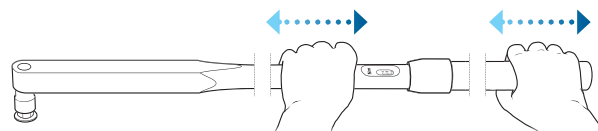
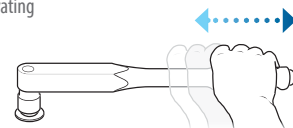
Setting of the torque value to N-m or alternatively to lbf-in / lbf-ft by the non-losable hexagon key in the handgrip. The smooth-running mechanism enables the setting to be made quickly without significant force needing to be applied. All DREMOMETERS are also available with locking and safety device (A+S). Pre-set value locking and safety device (A+S) eliminates the possibility of unintentional or manipulated adjustment, thereby representing more process reliability of the user



## OPERABLE WITHOUT INACCURACIES

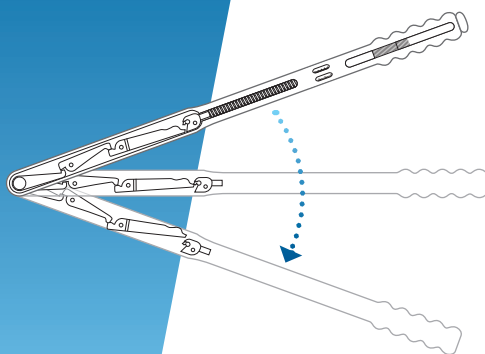
Regardless of where you apply the force, at the center of the handgrip or another part of the DREMOMETER, with both hands or using an extension tube, your torque setting will always be attained, without shifts in value. Due to its unique single-axis location of the centre of rotation and the output square drive, the DREMOMETER is a tool that can be operated free from errors. In contrast to conventional torque wrenches, this single lever enables tightening without shifts in the measured value and without interference caused by activation outside of the handgrip.

However, value shifts are possible when activating the DREMOMETER with special wrenches or when using wrenches with different depth gauges.



## WORKING PRINCIPLE

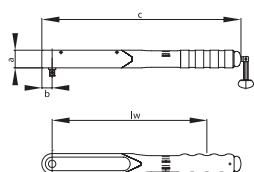
The quality lever chain produced in the company's own drop forge reduces the strain on the mechanics to a minimum. The proportioning of the individual levers, which are optimally attuned to each other, gives the DREMOMETER its unique precision and its long tool life.



- 1 Position of the lever chain without impact of force (in starting position).
- 2 Position of the lever chain with impact of force before the set torque is achieved. The force is transferred from the primary lever to the intermediary and final lever until the final lever slips past the so-called release lever through the sliding back of the angle-lever body.
- 3 Position of the lever chain when the force impacts after the torque setting is achieved. Immediate position after the clear tactile impulse and audible signal "click". On relief, the lever chain moves back into the starting position (1).

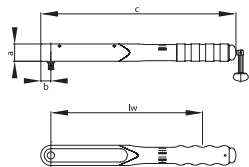
# 8560

Torque wrench DREMOMETER®  
8-40Nm



- > Torque wrench with 3/8" square drive in the range of 8 - 40 N-m
- > Single- and double-square drive for controlled bi-directional tightening
- > You can feel and hear an audible automatic click
- > Double scale for measuring ranges in the lbf-in range
- > Highest accuracy max. deviation of +/- 3
- > Error-free operation - no change in torque values when operated outside the handle. Not length dependent
- > Certificate according to DIN EN ISO 6789:2017 part 2

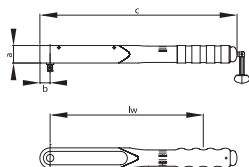
| Code    | No.     | Drive type/drive | "    | mm | Storage     | N-m  | lbf-in | lw  | a  | b    | c   |                   |       |
|---------|---------|------------------|------|----|-------------|------|--------|-----|----|------|-----|-------------------|-------|
| 7682000 | 8560-01 | Single square    | 3/8" | 10 | Plastic box | 8-40 | 70-350 | 262 | 30 | 17,5 | 338 | 5 N-m / 50 lbf-in | 0.848 |

**8561**Torque wrench DREMOMETER®  
20-120Nm

- › Torque wrench with 1/2" square drive in the range of 25 - 120 N-m
- › Single- and double-square drive for controlled bi-directional tightening
- › you can feel and hear an audible automatic click
- › Double scale for measuring ranges in lbf-ft range
- › Highest accuracy max. deviation of +/- 3
- › Error-free operation - no change in torque values when operated outside the handle. Not length dependent
- › Certificate according to DIN EN ISO 6789:2017 part 2
- › Power-saving through the use of optional extension tubes

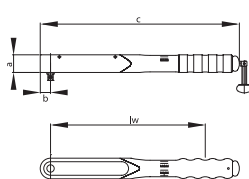
\*WHILE STOCKS LAST

| Code    | No.      | Drive type/drive | "    | mm   | Storage     | Contents | N-m    | lbf-ft | lw  | a  | b    | c   |                  |       |
|---------|----------|------------------|------|------|-------------|----------|--------|--------|-----|----|------|-----|------------------|-------|
| 7683320 | 8561-01* | Single square    | 1/2" | 12,5 | Plastic box |          | 25-120 | 18-90  | 373 | 30 | 17,5 | 462 | 5 N-m / 5 lbf-ft | 1.500 |

**8573**Torque wrench DREMOMETER®  
40-200Nm

- › Torque wrenches with 1/2" square drive in the range 40 - 200 N.m
- › Single- and double-square drive for controlled bi-directional tightening
- › you can feel and hear an audible automatic click
- › Double scale for measuring ranges in lbf-ft range
- › Highest accuracy max. deviation of +/- 3
- › Error-free operation - no change in torque values when operated outside the handle. Not length dependent
- › Certificate according to DIN EN ISO 6789:2017 part 2
- › With push-button release

| Code    | No.     | Drive type/drive | "    | mm   | Storage     | Contents | N-m    | lbf-ft | lw  | a  | b    | c   |                  |       |
|---------|---------|------------------|------|------|-------------|----------|--------|--------|-----|----|------|-----|------------------|-------|
| 7685530 | 8573-00 | Single square    | 1/2" | 12,5 | Plastic box |          | 40-200 | 30-150 | 463 | 30 | 17,5 | 551 | 5 N-m / 5 lbf-ft | 1.400 |

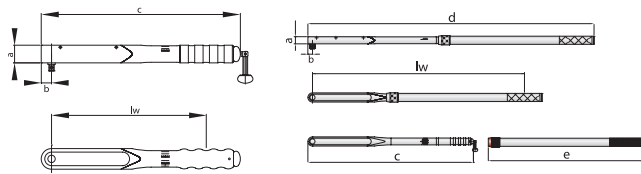
**8562**Torque wrench DREMOMETER®  
50-300Nm

- › Torque wrenches with 1/2" square drive in the range 60 - 300 N.m
- › Single- and double-square drive for controlled bi-directional tightening
- › you can feel and hear an audible automatic click
- › Double scale for measuring ranges in lbf-ft range
- › Highest accuracy max. deviation of +/- 3
- › Error-free operation - no change in torque values when operated outside the handle. Not length dependent
- › Certificate according to DIN EN ISO 6789:2017 part 2
- › Power-saving through the use of optional extension tubes

| Code    | No.     | Drive type/drive | "    | Storage     | Contents | N-m    | lbf-ft | lw  | a  | c   |                  |       |
|---------|---------|------------------|------|-------------|----------|--------|--------|-----|----|-----|------------------|-------|
| 7685450 | 8562-10 | Single square    | 1/2" | Plastic box |          | 50-300 | 35-220 | 529 | 35 | 617 | 5 N-m / 5 lbf-ft | 2.000 |

## 8563 D / DR

Torque wrench DREMOMETER®  
140-760Nm



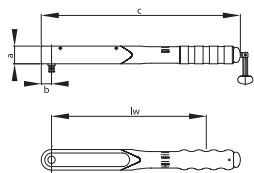
| Code    | No.     | Drive type/drive |  " |                                                                                      | Storage     | N-m                            | lbf-ft  |  | lw     | a  | d    |     |      |     |                                                                                     |  |
|---------|---------|------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------|--------------------------------|---------|-------------------------------------------------------------------------------------|--------|----|------|-----|------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 7691500 | 8563-10 | Single square    | 3/4"                                                                                |                                                                                      | Plastic box | 155-760                        | 115-560 | / 10 lbf-ft                                                                         | 719    | 45 | 812  |     |      |     |                                                                                     | 3.450                                                                               |
| Code    | No.     | Drive type/drive |  " |  mm | Storage     | Contents                       | N-m     | lbf-ft                                                                              | lw     | a  | b    | c   | d    | e   |  |                                                                                     |
| 7670180 | 8563-01 | Single square    | 3/4"                                                                                | 20                                                                                   | Plastic box | ALU extension tube No. 8571-80 | 155-760 | 115-560                                                                             | 1290,5 | 35 | 22,5 | 812 | 1403 | 762 | 5.000                                                                               |                                                                                     |



- > Torque wrench with 3/4" square drive in the range of 110 - 550 N.m
- > Single- and double-square drive for controlled bi-directional tightening
- > you can feel and hear an audible automatic click
- > Double scale for measuring ranges in
- lbf-ft range
- > Highest accuracy max. deviation of +/- 3
- > Error-free operation - no change in torque values when operated outside the handle. Not length dependent
- > Certificate according to DIN EN ISO 6789:2017 part 2

## 8570

Torque wrench DREMOMETER®  
80-360Nm



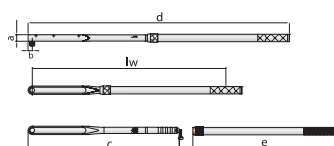
- > Torque wrench with 3/4" square drive in the range of 80 - 360 N.m
- > Single- and double-square drive for controlled bi-directional tightening
- > you can feel and hear an audible automatic click
- > Double scale for measuring ranges in lbf-ft range
- > Highest accuracy max. deviation of +/- 3
- > Error-free operation - no change in torque values when operated outside the handle. Not length dependent
- > Certificate according to DIN EN ISO 6789:2017 part 2
- > Power-saving through the use of optional extension tubes

\*WHILE STOCKS LAST

| Code    | No.      | Drive type/drive | "    | Storage     | Contents | N-m    | lbf-ft | سلسله            | lw  | a  | d   | kg    |
|---------|----------|------------------|------|-------------|----------|--------|--------|------------------|-----|----|-----|-------|
| 7688470 | 8570-10* | Single square    | 3/4" | Plastic box |          | 80-360 | 60-260 | 5 N-m / 5 lbf-ft | 624 | 45 | 717 | 2.800 |

## 8571

Torque wrench DREMOMETER®  
520-1000Nm

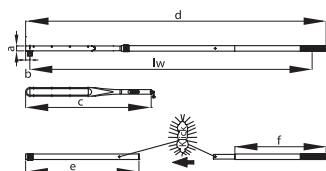


- > Torque wrench with 3/4" square drive in the range of 520 - 1000 N.m
- > Single- and double-square drive for controlled bi-directional tightening
- > you can feel and hear an audible automatic click
- > Double scale for measuring ranges in lbf-ft range
- > Highest accuracy max. deviation of +/- 3
- > Error-free operation - no change in torque values when operated outside the handle. Not length dependent
- > Certificate according to DIN EN ISO 6789:2017 part 2
- > Save effort using the optional extension tubes

| Code    | No.     | Drive type/drive | "    | mm | Storage     | Contents                       | N-m      | lbf-ft  | lw     | a  | b    | c   | d    | e   | kg    |
|---------|---------|------------------|------|----|-------------|--------------------------------|----------|---------|--------|----|------|-----|------|-----|-------|
| 7694010 | 8571-01 | Single square    | 3/4" | 20 | Plastic box | ALU extension tube No. 8571-80 | 520-1000 | 380-730 | 1290,5 | 35 | 22,5 | 812 | 1403 | 762 | 4.250 |



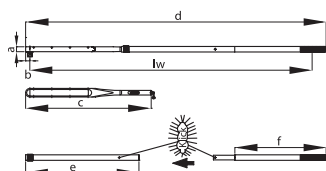
## 8564

Torque wrench DREMOMETER®  
750-2000Nm

- > Torque wrenches with 1" square drive in the range 750 - 2000 N.m
- > Single- and double-square drive for controlled bi-directional tightening
- > you can feel and hear an audible automatic click
- > Double scale for measuring ranges in lbf-ft range
- > Highest accuracy max. deviation of +/- 3
- > Error-free operation - no change in torque values when operated outside the handle. Not length dependent
- > Certificate according to DIN EN ISO 6789:2017 part 2
- > Save effort using the optional extension tubes

| Code    | No.     | Drive type/drive | "  | mm | Storage     | Contents                       | N-m      | lw   | a  | b  | c   | d    | e   | f   | kg     |
|---------|---------|------------------|----|----|-------------|--------------------------------|----------|------|----|----|-----|------|-----|-----|--------|
| 7695250 | 8564-01 | Single square    | 1" | 25 | Plastic Box | Extension tube 8564-92 8572-74 | 750-2000 | 2213 | 40 | 30 | 932 | 2353 | 925 | 745 | 12.000 |

## 8572

Torque wrench DREMOMETER®  
1500-3000Nm

- > Torque wrench with 1.1/2" square drive in the range of 1500 - 3000 N.m
- > Single square for the controlled legal suit
- > you can feel and hear an audible automatic click
- > Double scale for measuring ranges in lbf-ft range
- > Highest accuracy max. deviation of +/- 3
- > Error-free operation - no change in torque values when operated outside the handle. Not length dependent
- > Certificate according to DIN EN ISO 6789:2017 part 2
- > Save effort using the optional extension tubes

| Code    | No.     | Drive type/drive | "      | mm | Storage     | Contents                       | N-m       | lw   | a  | b  | c     | d    | e   | f   | kg     |
|---------|---------|------------------|--------|----|-------------|--------------------------------|-----------|------|----|----|-------|------|-----|-----|--------|
| 7717160 | 8572-01 | Single square    | 1.1/2" | 40 | Plastic Box | Extension tube 8564-92 8572-74 | 1500-3000 | 2309 | 40 | 35 | 1.037 | 2454 | 925 | 745 | 15.000 |

## 8200

Torque angle indicator



- > Torque-angle tightening
- > Separate angle of rotation gauges with 1/2" or 3/4" square drive
- > For additional precise angle tightening (0-360°)
- > No. 8200-01/-02 with sliding claw and magnetic arm
- > No. 8200-11 only with magnetic arm to operate with a suitable torque wrench
- > The maximum load of the torque wrench must not be exceeded

| Code    | No.     | "    | "    | mm | mm     | kg    |
|---------|---------|------|------|----|--------|-------|
| 1195980 | 8200-01 | 1/2" | 1/2" | 80 | 0-360° | 0.330 |

# i TSN SLIPPER

Pre-set ratchet head torque wrench with automatic actuation and slip function. Over-tightening is not possible.



1

## INTEGRATED RATCHET FUNCTION

Particularly dependable ratchet having 36 teeth (759-00/-01) or 48 teeth (759-02/-03). Slip-through function guarantees controlled and safe screw tightening, even in hard-to-access locations.

2

## OUTPUT SQUARE DRIVE

Made of quality steel with ball-locking mechanism.



3

## HIGH REPEATABILITY

Guarantees constant tightening torques.

4

## ROBUST CASTING PART

Made of corrosion-resistant, rustproof material.

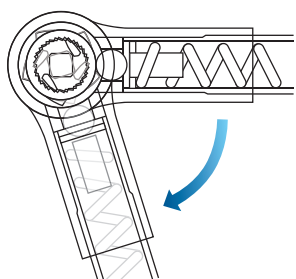
5

## RUBBER HANDGRIP

Ergonomic and pleasant to hold in your hand. Prevents slipping.

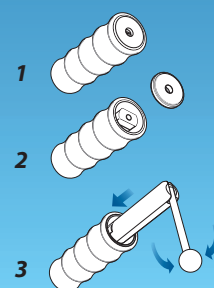
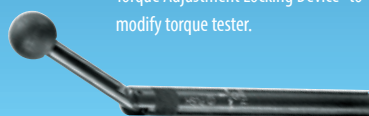
## WORKING PRINCIPLE

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



## TECHNICAL INFORMATION

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



759

Torque wrench TZN SLIPPER  
3-125Nm



- > Fixed torque wrench for series assembly
- > 1/4", 3/8" or 1/2" square drive with integrated ratchet function
- > For error proof controlled directional tightening
- > It is not possible to over-tighten the screw
- > Certificate according to DIN EN ISO 6789 /- 4 % tolerance
- > Fixed setting at GEDORE or by hand on a test device
- > EPA (Electrostatic Protected Area) compliant

| Code    | No.    | "    | mm   | N-m    | lbf-in   | mm  | kg    |
|---------|--------|------|------|--------|----------|-----|-------|
| 7091900 | 759-00 | 1/4" | 6,3  | 5-25   | 44-221   | 216 | 0.340 |
| 7092040 | 759-01 | 1/4" | 6,3  | 5-25   | 44-221   | 216 | 0.340 |
| 7092120 | 759-02 | 3/8" | 10   | 15-55  | 132-486  | 324 | 0.800 |
| 7092200 | 759-03 | 1/2" | 12,5 | 40-125 | 354-1106 | 460 | 1.360 |

## 761

Torque wrench TSP SLIPPER, pre-set 1-10Nm

**Use:**

- For use in all areas of assembly work where controlled tightening with low torque values is required (eg electronic hardware sector).
- For controlled nut and bolt tightening.

**Features:**

- Pre-set production torque wrench without scale.
- Square drive with ball-locking mechanism.
- Integrated ratchet function for controlled clockwise tightening.
- In accordance with DIN EN ISO 6789, traceable to national norms.
- Actuation accuracy: +/-6% tolerance of the set torque.

- Precision mechanism slides through very noticeably and audibly when the pre-set torque is achieved – over tightening is not possible.
- Automatic resetting to the starting position.
- Lightweight yet stable and corrosion resistant construction design.
- ESD (electrostatic discharge) = electrostatically protected.
- Black, non-slip rubber handgrip.
- Supplied with a calibration certificate.
- Unique serial number for traceability.

| Code    | No.    | 1/4" | mm  | N-m  | mm  | kg    |
|---------|--------|------|-----|------|-----|-------|
| 1196650 | 761-05 | 1/4" | 6,3 | 1-5  | 185 | 0.190 |
| 1196731 | 761-10 | 1/4" | 6,3 | 2-10 | 185 | 0.190 |

## 762

Torque wrench TSC SLIPPER 1-10Nm

**Use:**

- For use in all areas of assembly work where controlled tightening with low torque values is required (eg electronic hardware sector).
- For controlled nut and bolt tightening.

**Features:**

- Square drive with ball-locking mechanism.
- Integrated ratchet function for controlled clockwise tightening.
- In accordance with DIN EN ISO 6789, traceable to national norms.
- Actuation accuracy: +/-6% tolerance of the set torque.
- Precision mechanism slides through very

- noticeably and audibly when the pre-set torque is achieved – over tightening is not possible.
- Automatic resetting to the starting position.
- Lightweight yet stable and corrosion resistant construction design.
- ESD (electrostatic discharge) = electrostatically protected.
- Black, non-slip rubber handgrip.
- Supplied with a calibration certificate.
- Unique serial number for traceability.

| Code    | No.    | 1/4" | mm  | N-m  | mm  | kg    |
|---------|--------|------|-----|------|-----|-------|
| 1196480 | 762-05 | 1/4" | 6,3 | 1-5  | 195 | 0.235 |
| 1196510 | 762-10 | 1/4" | 6,3 | 2-10 | 195 | 0.235 |

## TSC

Torque wrench ADJUSTABLE SLIPPER 10-90Nm



- Adjustable torque wrench with scale
- 1/4" square drive with integrated ratchet function
- For controlled error proof directional tightening

- It is not possible to over-tighten the screw
- Certificate according to DIN EN ISO 6789 /- 6 % tolerance
- EPA (Electrostatic Protected Area) compliant

| Code   | No.    | 1/4" | mm  | N-m   | mm  | kg    |
|--------|--------|------|-----|-------|-----|-------|
| 056060 | TSC-45 | 1/4" | 6,3 | 10-45 | 195 | 0.235 |
| 056080 | TSC-90 | 1/4" | 6,3 | 20-90 | 195 | 0.235 |

# i TBN BREAKER

Pre-set torque wrench with automatic snap actuation. Torque wrench offering maximum accuracy. Guaranteed tightening values without over-tightening.



1

## DRIVE

16 mm spigot end or 9x12 mm rectangular cavity made of quality steel with pin-locking mechanism.



2

## BREAKING

All TBN breaking torque wrenches break by 20° at the pivot point when the set torque is achieved. The models 760-00/-01 can also be set to a breaking angle of 90°.

3

## RUBBER HANDGRIP

Ergonomic and pleasant to hold in your hand. Prevents slipping.



4

## PATENTED MECHANISM

Guarantees a long product lifespan with guaranteed accuracy values.

5

## LIGHTWEIGHT STEEL TUBE

Firm, solid, and free of corrosion.



16 5 - 135 N-m



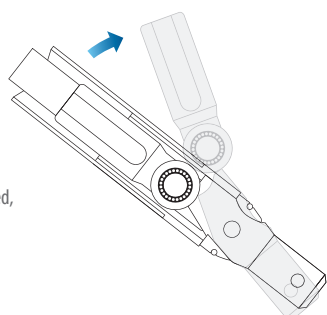
9x12 0,2 - 135 N-m



As an option, we also manufacture the TBN BREAKER models 760-00/-01 with interchangeable fittings directly positioned on the tool.

## WORKING PRINCIPLE

When the TBN breaking torque wrench is operated, the rear section of the driver unit presses the roller. When the pre-set torque value is achieved, the lever switches over and the front section of the drive unit breaks.



## TECHNICAL INFORMATION

TBN BREAKER 760-00/-01 values are changed using the "Double Positive" adjustment system.



## ATB SE

Adjustable breaking torque wrench  
1-10Nm



### Use:

- > Controlled bolt and nut tightening.
- > For use in all areas of production line assembly.
- > Extremely durable.

### Features:

- > Compact design allows easy access where space is restricted.
- > With 9x12 mm rectangular end.
- > Offers improved control of the tightening process by reducing the risk of under and over tightening. This is achieved by Torqueleader's unique breaking mechanism that allows the operator more time to react once the target torque is

achieved.

- > Accuracy +/- 6% of reading.
- > Reduces the likelihood of warranty claims and rework by assuring process control through accurate and repeatable torque application.
- > Automatic resetting to the starting position.
- > Fast and accurate to set using the quick and easy to read micrometer setting scale.
- > Black, non-slip rubber handgrip.
- > This tool is length dependent, with hand position altering the torque applied.
- > Accessories available.

| Code    | No.     | mm        | N-m  | mm  | kg    |
|---------|---------|-----------|------|-----|-------|
| 2839636 | ATB-5G  | 9 x 12 mm | 1-5  | 230 | 0.290 |
| 2839644 | ATB-10G | 9 x 12 mm | 2-10 | 230 | 0.300 |

## 760

Breaking torque wrench TBN  
0.4-200Nm



- > fixed torque wrench for series assembly
- > 9x12 mm inner rectangular or 16 mm spigot
- > For bi-directional tightening (the wrench only has to be turned by 180°)
- > Breaking of the handgrip by 20° when the pre-set torque value is achieved makes over-tightening unlikely

- > Certificate according to DIN EN ISO 6789
- > Fixed setting at GEDORE or by hand on a test device
- > No. 760-00/-01: EPA (Electrostatic Protected Area) compliant

| Code    | No.     | mm        | Ø  | N·m   | mm  | kg   |
|---------|---------|-----------|----|-------|-----|------|
| 7090690 | TBN2G   | 9 x 12 mm |    | 0.4-2 | 133 | 0.11 |
| 7090770 | TBN10G  | 9 x 12 mm |    | 2-10  | 133 | 0.15 |
| 1824686 | TBN25   |           | 16 | 5-25  | 265 | 0.41 |
| 1824694 | TBN25 G | 9 x 12 mm |    | 5-25  | 265 | 0.41 |
| 1824708 | TBN65   |           | 16 | 13-65 | 302 | 0.75 |

| Code    | No.      | mm         | Ø  | N·m    | mm  | kg    |
|---------|----------|------------|----|--------|-----|-------|
| 1824716 | TBN65 G  | 9 x 12 mm  |    | 13-65  | 302 | 0.750 |
| 1824724 | TBN135   |            | 16 | 27-135 | 408 | 1.030 |
| 1824732 | TBN135 G | 9 x 12 mm  |    | 27-135 | 408 | 0.830 |
| 050300  | TBN200   |            | 16 | 40-200 | 520 | 1.400 |
| 050310  | TBN200 G | 14 x 18 mm |    | 40-200 | 520 | 1.400 |

## 8301 - 8302

Torque wrench with slave pointer  
0.8-200Nm



- > Dial-indicating torque wrench with dual scale and slave pointer
- > Controlled tightening (right/left) and checking of tightening values
- > 1/4", 3/8", 1/2", 3/4" or 1" double square drive
- > Models No. 8301-04 to No. 8304-80: with integrated ratchet-function

- > Certificate according to DIN EN ISO 6789 / - 4 % tolerance
- > 5 % overload of the maximum value
- > Light, robust aluminium construction
- > Models No. 8301-04 to No. 8301-40: EPA (Electrostatic Protected Area) compliant
- > Audio-visual signal is standard on models 8303-40 to 8305-20

| Code    | No.     | Drive type/drive | "    | mm   | N·m    | lbf·in | lbf·ft | EPA | mm  | mm                | Height | kg    |
|---------|---------|------------------|------|------|--------|--------|--------|-----|-----|-------------------|--------|-------|
| 7651390 | 8301-04 | Double square    | 1/4" | 6,3  | 0,8-4  | 7-35   |        | x   | 244 | 1 N·m / 1 lbf·in  | 61     | 0.520 |
| 7651470 | 8301-12 | Double square    | 1/4" | 6,3  | 2,4-12 | 21-105 |        | x   | 244 | 5 N·m / 2 lbf·in  | 61     | 0.520 |
| 7651550 | 8301-25 | Double square    | 3/8" | 10   | 5-25   | 44-220 |        | x   | 244 | 1 N·m / 10 lbf·in | 69     | 0.520 |
| 7651630 | 8301-40 | Double square    | 3/8" | 10   | 8-40   | 72-360 |        | x   | 244 | 1 N·m / 10 lbf·in | 69     | 0.520 |
| 7651710 | 8302-08 | Double square    | 1/2" | 12,5 | 16-80  |        | 12-60  | 0   | 435 | 2 N·m / 1 lbf·ft  | 86     | 1.360 |
| 7651980 | 8302-20 | Double square    | 1/2" | 12,5 | 40-200 |        | 30-160 | 0   | 515 | 5 N·m / 5 lbf·ft  | 86     | 1.410 |

## ET2SA

Electronic torque wrench, E-torg  
With rotary angle measurement  
2-1000Nm



- > Documented tightening for torque and angle of rotation
- > Optical, acoustic and sensory signalling
- > Graphic evaluation with free software
- > Marked contrast graphics display with backdrop lighting
- > 1/4" square, 9x12, 14x18 rectangular, 22 and 28 mm spigot mount (depending on model)
- > Screw joint analyses
- > Process control

- > Factory certificate according to DIN ISO 6789
- > Optional certificate according to DAkkS-DKD-R 3-7
- > Torque reading precision +/- 1 %, +/- 1 digit from reading figure
- > Demonstration and consultation - technical field service
- > Further options on request: further torque, yield strength etc.

| Code    | No.         | "    | mm   | mm      | Ø  | N·m      | lbf·ft | a  | d     | kg    |
|---------|-------------|------|------|---------|----|----------|--------|----|-------|-------|
| 2795493 | ET2SKA 25   | 1/4" | 6,3  |         |    | 2-25     | 1,5-18 | 35 | 347   | 0.850 |
| 2795612 | ET2SKA 150  | 1/2" | 12,5 | 9 x 12  |    | 10-150   | 7-111  | 35 | 514   | 1.330 |
| 2795620 | ET2SKA 300  | 1/2" | 12,5 | 14 x 18 |    | 30-300   | 22-221 | 35 | 753   | 1.840 |
| 2795639 | ET2SZA 600  |      |      |         | 22 | 100-600  | 74-443 | 35 | 1.055 | 3.220 |
| 2795655 | ET2SZA 1000 |      |      |         | 28 | 100-1000 | 74-750 | 40 | 1.488 | 5.680 |





# TBI 1000

Industrial breaking torque wrench  
200-1000Nm



## Use:

- > Controlled screw tightening in the most common range of 200 - 1000 N-m
- > Industry and vehicle sector (lorries, industrial vehicles)

## Features:

- > Hot forged beam, high strength tubular steel handle
- > 3/4" square drive with integrated ratchet function, push through, reversible
- > Non-slip silicone grip
- > Powder coated tubular handle
- > Acc. to DIN EN ISO 6789, traceable to national standards
- > Breaking mechanism as an actuation signal which can be seen and felt and makes over-tightening unlikely
- > Dual scale N-m and lbf-ft

## Scope of delivery:

- > Test certificate acc. to DIN EN ISO 6789
- > Delivery in sturdy plastic case

*Ratcheting 3/4" square drive, push through, reversible*



*Hot forged steel beam for maximum strength*

*Once the torque, that has been pre-set, is reached, the wrench breaks at the central main pivot, giving an unmistakable indication to the user*

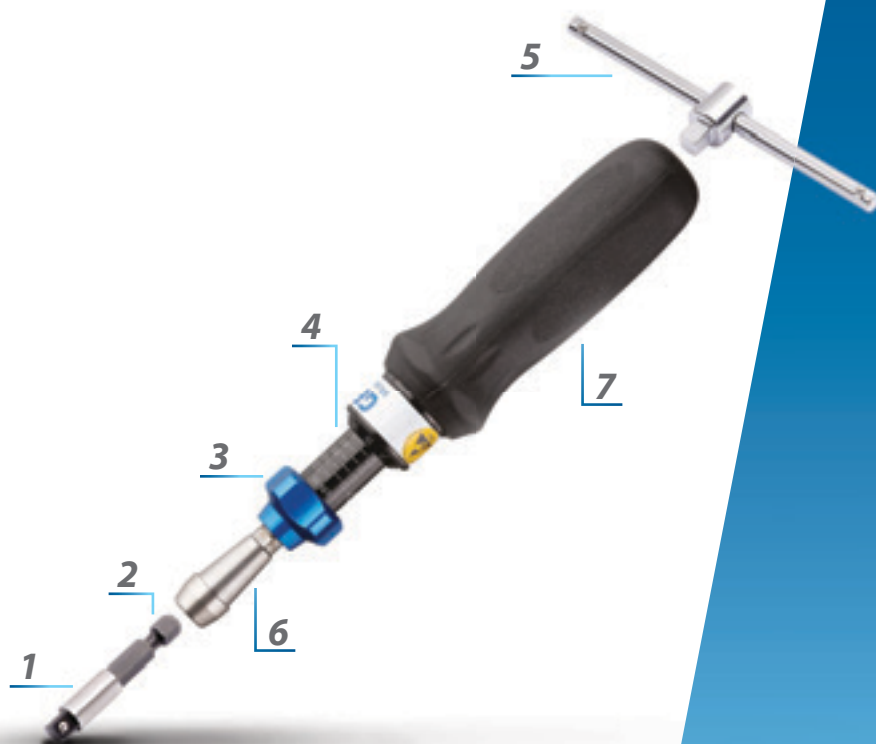
*Powder coated tublar handle Silicone handle for a non-slip, comfortable grip*

*The torque is set using the 20mm adjustable hex key, and following the laser marked scale which shows both Nm and lb/ft*



| Code    | No..    | "   | Nm       | mm   | kg    |
|---------|---------|-----|----------|------|-------|
| 3108023 | TBI1000 | 3/4 | 200-1000 | 1500 | 7.500 |

# **i** TORQUE SCREWDRIVERS 756

**1**

**DRIVE ADAPTOR**  
1/4"-SQUARE DRIVE

To fit industry standard nut sockets.

**2**

**DRIVE ADAPTOR**  
1/4"-HEXAGON-MALE

Guarantees a safe and stable connection to the tool.

**3**

**"POSITIV-LOCK"-SYSTEM**

Locks the set torque, reliably preventing it from wrong setting.

**4**

**SCALE**

Clearly readable scale ring; enables you to make the setting accurately, quickly and without error.

**5**

**SLIDING T-BAR**

Made of quality steel, can be adapted to enhance users transmission of power.

**6**

**1/4"-DRIVE TYPE**

Made of stainless steel, for industry-standard bits.

**7**

**RUBBER HANDGRIP**

Ergonomic, can be held securely in your hand.

## 756

Torque screwdriver type S  
0.24-9Nm



- > Adjustable torque screwdriver with scale
- > 1/4" hexagon socket for 1/4" bits - C 6.3
- > With slip clutch for error proof controlled right and left hand tightening
- > It is not possible to over-tighten the screw
- > Test certificate acc. to DIN EN ISO 6789

- > EPA (Electrostatic Protected Area) compliant
- > Incl. 1/4" adapter drive unit (No. 757-20)
- > Models no. 756-06/-09 with additional cross handle



| Code    | No.       | ⌀"   | ⌀mm | ■"   | ■mm | cN-m    | N-m      | ⌊mm⌋ |       |
|---------|-----------|------|-----|------|-----|---------|----------|------|-------|
| 1400150 | QSN120 FH | 1/4" | 6.3 | 1/4" | 6,3 | 24-120  | 0,24-1,2 | 183  | 0.230 |
| 1400169 | QSN600 FH | 1/4" | 6.3 | 1/4" | 6,3 | 120-600 | 1,2-6    | 196  | 0.335 |
| 1400177 | QSN900 FH | 1/4" | 6.3 | 1/4" | 6,3 | 400-900 | 4-9      | 196  | 0.335 |

## TLS PRO

Torque screwdriver, pre-set  
0.05-13.5Nm



- > Accurate process control is ensured by eliminating under and over tightening due to Gedore Torque's proven slipping technology.
- > Years of dependable service is provided by the robust design especially if regularly calibrated.
- > Calibration stickers can be easily applied to the purpose designed nose.

- > To allow for customisation and clear identification, interchangeable coloured end caps are available.
- > Increased production efficiency by reducing operator fatigue due to a specifically designed ergonomic handgrip combined with a smooth tool reset action.
- > To assist with higher torque, T-bars come standard with the Pro and ESD 450 and 1350 models.



| Code   | No.           | 1/4" | 6.3 mm | cN-m     | N-m       | 132 mm | 0.210 kg |
|--------|---------------|------|--------|----------|-----------|--------|----------|
| 065400 | TLS PRO 25H   | 1/4" | 6.3    | 5-25     | 0.05-0.25 | 132    | 0.210    |
| 065500 | TLS PRO 150H  | 1/4" | 6.3    | 20-150   | 0.2-1.5   | 132    | 0.210    |
| 065600 | TLS PRO 450H  | 1/4" | 6.3    | 50-450   | 0.5-4.5   | 140    | 0.230    |
| 065700 | TLS PRO 1350H | 1/4" | 6.3    | 250-1350 | 2.5-13.5  | 140    | 0.230    |

## TLS

Torque screwdriver type FS, pre set  
0.04-13.6Nm



- > fixed torque screwdriver for series assembly
- > 1/4" hexagon socket for 1/4" bits - C 6.3
- > With slip clutch for error proof controlled right and left hand tightening
- > It is not possible to over-tighten the screw
- > Test certificate according to DIN EN ISO 6789, permissible deviation of +/- 6

- > Fatigue-free working through ergonomic handle
- > Fixed setting at GEDORE or by hand on a test device
- > Model No. 755-05 with additional cross handle

**SPECIAL ORDER ONLY**



| Code    | No.                   | 1/4" | 6.3 mm | 1/4" | 6.3 mm | cN-m     | N-m       | 76 mm | 0.050 kg |
|---------|-----------------------|------|--------|------|--------|----------|-----------|-------|----------|
| 1471481 | TLS0022 MICRO FH BLUE | 1/4" | 6.3    | 1/4" | 6.3    | 4.4-22   | 0.04-0.22 | 76    | 0.050    |
| 1471473 | TLS0022 FH BLUE       | 1/4" | 6.3    | 1/4" | 6.3    | 4.4-22   | 0.04-0.22 | 104   | 0.072    |
| 1471465 | MIN FH BLUE           | 1/4" | 6.3    | 1/4" | 6.3    | 27-135   | 0.27-1.35 | 111   | 0.210    |
| 1471457 | STD FH BLUE           | 1/4" | 6.3    | 1/4" | 6.3    | 80-400   | 0.8-4     | 127   | 0.280    |
| 1228501 | TLS1360 FH BLUE       | 1/4" | 6.3    | 1/4" | 6.3    | 280-1360 | 2.8-13.6  | 137   | 0.325    |

## QS

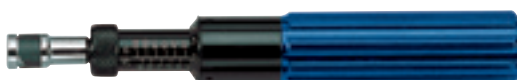
Torque screwdriver type S, pre set  
0.24-9Nm



- > Adjustable torque screwdriver with scale
- > 1/4" hexagon socket for 1/4" bits - C 6.3
- > With slip clutch for error proof controlled right and left hand tightening
- > It is not possible to over-tighten the screw
- > Certificate according to DIN EN ISO 6789

- maximum deviation +/- 6%
- > Incl. 1/4" adapter drive unit (No. 757-20)
- > Models No. 757-06/-09 with additional cross handle

**SPECIAL ORDER ONLY**



| Code    | No.           | 1/4" | 6.3 mm | 1/4" | 6.3 mm | cN-m    | N-m      | 169 mm | 0.165 kg |
|---------|---------------|------|--------|------|--------|---------|----------|--------|----------|
| 7718050 | QSM/N FH BLUE | 1/4" | 6.3    | 1/4" | 6.3    | 24-120  | 0.24-1.2 | 169    | 0.165    |
| 7718130 | QS6 FH BLUE   | 1/4" | 6.3    | 1/4" | 6.3    | 120-600 | 1.2-6    | 184    | 0.335    |
| 7718210 | QS9 FH BLUE   | 1/4" | 6.3    | 1/4" | 6.3    | 400-900 | 4-9      | 184    | 0.335    |

## CAPTURE HUB



- > Digital torque tester for testing torque wrenches and torque screwdrivers
- > Light and robust thanks to the aluminum basic housing, horizontal and vertical mounting possible
- > 4 models in the range of 0.1-25 Nm
- > With 1/4" square socket (CH25 with 3/8")
- > Measuring tolerance +/- 1% for all readings
- > 4 measurement modes: sliding value display (track), breakpoint detection (first peak), peak value measurement (peak), screwdriver test
- > Including screw joint simulator attachment for testing screwdrivers

- > Switchable units N m, cN m, lbf ft, lbf in, ozf in
- > 50 test sequences can be programmed
- > 2000 measured values can be saved
- > Clear and high-contrast TFT display
- > expandable by an additional capture sensor (connection socket available)
- > powerful lithium-ion battery for Line Side mains-independent work
- > Data output and mains operation via USB connection
- > optional: PC evaluation software "Capture Manager" (2908778)

| Code   | No.   | N-m        | lbf-ft           | □ mm | □ "  | H mm | W mm | D mm | kg    |
|--------|-------|------------|------------------|------|------|------|------|------|-------|
| 036910 | CH 1  | 0.1-1 N-m  | 0,08-0,75 lbf-ft | 6,3  | 1/4" | 50   | 200  | 110  | 0.500 |
| 036920 | CH 2  | 0.2-2 N-m  | 0,15-1,5 lbf-ft  | 6,3  | 1/4" | 50   | 200  | 110  | 0.500 |
| 036930 | CH 5  | 0.5-5 N-m  | 0,4-3,65 lbf-ft  | 6,3  | 1/4" | 50   | 200  | 110  | 0.500 |
| 036940 | CH 25 | 2.5-25 N-m | 3,65-18 lbf-ft   | 10,0 | 3/8" | 50   | 200  | 110  | 0.500 |

## CAPTURE DISPLAY AND SENSOR



## TOOL BENEFITS AND FEATURES

- > Capture Family User layout / menus (Same operation as Capture Display)
- > Sensors supplied with a UKAS calibration to BS7882 Class 1 or better
- > On Board Memory – 500 Tools & 2000 Torque reading storage
- > Capture Manager software compatibility for

certificate generation

- > USB connection for data transfer
- > Clear easy to read display, with limits warnings
- > Capture Display integrates with competitors' 2mV/V sensors /transducers, plug n play
- > Battery or Mains powered

| Code   | Description                                           | H x W x D      | kg    |
|--------|-------------------------------------------------------|----------------|-------|
| 038700 | Capture Display                                       | 80 x 170 x 140 | 0.780 |
| 038703 | 4 way switch (allows 4 sensors to connect to display) | 80 x 170 x 140 | 0.700 |
| 036246 | Capture Cable (Capture Display to Capture Sensor)     |                |       |
| 036226 | Capture Cable (Capture Display to Custom Sensor)      |                |       |
| 038710 | Capture Manager Software                              |                |       |

| Code   | Description | Nm      | Accuracy +/- | □ " | H x W x D    | kg   |
|--------|-------------|---------|--------------|-----|--------------|------|
| 038802 | CS1.5       | 0.1-1.5 | 1%           | 1/4 | 62 x 85 x 65 | 0.50 |
| 038805 | CS2         | 0.2-2   | 1%           | 1/4 | 62 x 85 x 65 | 0.50 |

| Code   | Description | Nm       | Accuracy +/- | □ " | H x W x D       | kg    |
|--------|-------------|----------|--------------|-----|-----------------|-------|
| 038820 | CS50        | 5-50     | 1%           | 3/8 | 62 x 85 x 65    | 0.507 |
| 038807 | CS5         | 0.5-5    | 1%           | 1/4 | 62 x 85 x 65    | 0.500 |
| 038810 | CS10        | 1-10     | 1%           | 1/4 | 62 x 85 x 65    | 0.500 |
| 038815 | CS25        | 2.5-25   | 1%           | 3/8 | 62 x 85 x 65    | 0.500 |
| 038825 | CS100       | 10-100   | 1%           | 1/2 | 62 x 85 x 65    | 0.600 |
| 038830 | CS250       | 25-250   | 1%           | 1/2 | 82 x 120 x 87   | 1.450 |
| 038835 | CS500       | 50-500   | 1%           | 3/4 | 82 x 100 x 87   | 1.600 |
| 038845 | CS1500      | 150-1500 | 1%           | 1   | 100 x 165 x 134 | 4.000 |

## CAPTURE LITE



- > Digital torque tester for testing torque spanners and torque screwdrivers
- > Light and robust due to aluminium basic housing
- > 5 models in the range from 0.02 N-m to 350 N-m
- > With 1/4", 3/8", 1/2" square mount (CL1 and CL10H with 1/4" hexagonal shaft)
- > Ease of use. Intuitive software design is similar to CAPTURE Display allowing existing Capture users to be familiar with the architecture and new users to become productive quickly, with its easy to use menus and Plug & Play functionality
- > 3 measuring modes: floating value display (track), kink point

detection (first peak), peak value measurement (peak)

- > easy handling due to 1-button operation (measuring mode, unit)
- > Switchable between N-m, lbf-ft and lbf-in (depending on model)
- > optimal readability due to single-line well illuminated OLED display
- > Autostart function when a torque tool is inserted
- > Auto-sleep mode when not in use
- > Easy mounting on the table or on the wall
- > Power supply and data output via USB connection

| Code   | No.   | Nm   | □ " | □ " | Dimensions (mm) | Hole Centres (mm) | Accuracy +/- | kg    |
|--------|-------|------|-----|-----|-----------------|-------------------|--------------|-------|
| 038120 | CL 10 | 1-10 | 1/4 |     | 120 x 70        | 90                | 1%           | 1.400 |

## CAPTURE LITE 1100-3000



- > High quality one piece construction, aluminium body, machined from solid billet.
- > Robust powder coating that looks good and stands up to tough industrial environments.
- > High strength stainless steel torsion shaft with 36mm Hex
- > Same footprint and mounting hole positions as other Capture Lite models. Mounting kit available separately
- > Easy to read laser marking of required product information
- > Fully compliant with UKCA and CE marking
- > Similar to other Capture models
- > Simple one-button operation.
- > Peak, First Peak and track mode available

- > Multiple units available: N-m, lbf-ft & lbf-in
- > WAG euro box with custom foam cut-out. (Same box as Capture sensors)
- > CL unit
- > 2 x bolt down bolts
- > USB cable
- > Socket 3/4" FS to 36mm FH (Product Code:6272830)
- > Socket 1" FS to 36mm FH (Product Code: 6174900)
- > Calibration certificate
- > Quick start guide
- > User Instructions

| Code    | No.     | Nm       | Drive Size | Drive Type | Adapter          |       |
|---------|---------|----------|------------|------------|------------------|-------|
| 3297934 | CL 1100 | 80-1100  | 36mm       | male hex   | 3/4" & 1" socket | 1.400 |
| 3420523 | CL 3000 | 200-3000 | 36mm       | male hex   | 3/4" & 1" socket |       |

## 8612

Electronic torque tester DREMOTEST E  
0.9-3150Nm



- > Checking/adjustment of right-hand torque wrenches and screwdrivers
- > Plug & Work = very easy to use
- > High measurement accuracy: +/- 1% tolerance of reading, +/- 1 digit
- > Autoreset
- > Can be switched from N-m to lbf-ft and lbf-in

- > Serial interface RS232 for PC
- > Test certificate
- > Optional: Car adapter for 12 Volt power supply (No. 8612-390),
- > Optional: plausibility verification software (Code 2834391)

\*WHILE STOCKS LAST

| Code    | No.        | Hex | Hex" | mm"      | Resolution | Adapter  | lbf-ft   | Nm       | cNm/Nm | ozf.in/lbf.in | Gradation     |        |
|---------|------------|-----|------|----------|------------|----------|----------|----------|--------|---------------|---------------|--------|
| 1824635 | 8612-720   |     | 1/4  | 1/4      |            |          |          |          | 26-130 | 36-180        | 2cNm/2ozf.in  | 10.000 |
| 1824651 | 8612-740   |     |      | 1/4, 3/8 |            |          |          |          | 2.4-12 | 0.2-2         | 0.2Nm/2lbf.in | 3.200  |
| 1947699 | 8612-050*  | 10  |      |          | 0.01       | 1/4, 3/8 | 0.7-40.6 | 0.9-55   |        |               |               | 3.000  |
| 1856111 | 8612-300*  | 17  |      |          | 0.1        | 3/8, 1/2 | 7-236    | 9-320    |        |               |               | 3.000  |
| 1947702 | 8612-1000* | 36  |      |          | 1          | 1/2, 3/4 | 66-811   | 90-1100  |        |               |               | 10.000 |
| 2529858 | 8612-3150* |     |      |          | 1          | 1        | 369-2323 | 500-3150 |        |               |               | 26.000 |

## 7112

Rectangular open  
end fitting  
9x12



- > For solving difficult assembly problems
- > SE recording 9x12

| Code    | No.     | mm | mm     | mm  | mm   | Depth gauge |       | Code    | No.     | mm | mm     | mm  | mm | Depth gauge |       |
|---------|---------|----|--------|-----|------|-------------|-------|---------|---------|----|--------|-----|----|-------------|-------|
| 7688390 | 7112-07 | 7  | 9 x 12 | 5,5 | 20   | 17,5        | 0.035 | 7689360 | 7112-14 | 14 | 9 x 12 | 7,5 | 31 | 20,0        | 0.040 |
| 7688550 | 7112-08 | 8  | 9 x 12 | 5,5 | 21,5 | 17,5        | 0.035 | 7689440 | 7112-15 | 15 | 9 x 12 | 7,5 | 33 | 20,0        | 0.040 |
| 7679050 | 7112-09 | 9  | 9 x 12 | 5,5 | 23   | 17,5        | 0.035 | 7679990 | 7112-16 | 16 | 9 x 12 | 7,5 | 35 | 20,0        | 0.045 |
| 7688630 | 7112-10 | 10 | 9 x 12 | 5,5 | 24,5 | 17,5        | 0.040 | 7689600 | 7112-17 | 17 | 9 x 12 | 7,5 | 37 | 20,0        | 0.050 |
| 7688980 | 7112-11 | 11 | 9 x 12 | 5,5 | 26   | 17,5        | 0.030 | 7684560 | 7112-18 | 18 | 9 x 12 | 7,5 | 39 | 20,0        | 0.060 |
| 7679560 | 7112-12 | 12 | 9 x 12 | 5,5 | 27,5 | 17,5        | 0.035 | 7689790 | 7112-19 | 19 | 9 x 12 | 7,5 | 41 | 20,0        | 0.060 |
| 7689010 | 7112-13 | 13 | 9 x 12 | 5,5 | 29   | 17,5        | 0.035 |         |         |    |        |     |    |             |       |



## 7212

Rectangular ring  
end fitting  
9x12



> For solving difficult  
assembly problems  
> SE recording 9x12

| Code    | No.     | mm | mm     | mm <sup>2</sup> | Depth gauge | kg    |
|---------|---------|----|--------|-----------------|-------------|-------|
| 7691340 | 7212-07 | 7  | 9 x 12 | 8               | 17,5        | 0.030 |
| 7691420 | 7212-08 | 8  | 9 x 12 | 8               | 17,5        | 0.030 |
| 7691690 | 7212-10 | 10 | 9 x 12 | 8               | 17,5        | 0.030 |
| 7691770 | 7212-11 | 11 | 9 x 12 | 8               | 17,5        | 0.030 |
| 7677940 | 7212-12 | 12 | 9 x 12 | 12              | 17,5        | 0.035 |
| 7691930 | 7212-13 | 13 | 9 x 12 | 12              | 17,5        | 0.035 |
| 7692230 | 7212-14 | 14 | 9 x 12 | 12              | 17,5        | 0.040 |

| Code    | No.     | mm | mm     | mm <sup>2</sup> | Depth gauge | kg    |
|---------|---------|----|--------|-----------------|-------------|-------|
| 7692580 | 7212-15 | 15 | 9 x 12 | 12              | 17,5        | 0.040 |
| 7678080 | 7212-16 | 16 | 9 x 12 | 13              | 17,5        | 0.040 |
| 7692740 | 7212-17 | 17 | 9 x 12 | 13              | 17,5        | 0.040 |
| 7678160 | 7212-18 | 18 | 9 x 12 | 13              | 17,5        | 0.040 |
| 7692820 | 7212-19 | 19 | 9 x 12 | 13              | 17,5        | 0.040 |
| 7678240 | 7212-21 | 21 | 9 x 12 | 15              | 17,5        | 0.050 |
| 7693040 | 7212-22 | 22 | 9 x 12 | 15              | 17,5        | 0.050 |

## 7118

Rectangular open  
end fitting  
14x18



> For solving difficult  
assembly problems  
> SE recording 14x18

| Code    | No.     | mm | mm      | mm <sup>2</sup> | mm   | Depth gauge | kg    |
|---------|---------|----|---------|-----------------|------|-------------|-------|
| 7689870 | 7118-13 | 13 | 14 x 18 | 7               | 30   | 25,0        | 0.120 |
| 7690020 | 7118-14 | 14 | 14 x 18 | 7               | 32   | 25,0        | 0.120 |
| 7690100 | 7118-15 | 15 | 14 x 18 | 7               | 34   | 25,0        | 0.120 |
| 7685610 | 7118-16 | 16 | 14 x 18 | 9               | 35,5 | 25,0        | 0.125 |
| 7690370 | 7118-17 | 17 | 14 x 18 | 9               | 37   | 25,0        | 0.130 |
| 7686180 | 7118-18 | 18 | 14 x 18 | 9               | 39   | 25,0        | 0.130 |
| 7690450 | 7118-19 | 19 | 14 x 18 | 9               | 41   | 25,0        | 0.130 |

| Code    | No.     | mm | mm      | mm <sup>2</sup> | mm   | Depth gauge | kg    |
|---------|---------|----|---------|-----------------|------|-------------|-------|
| 7686420 | 7118-21 | 21 | 14 x 18 | 11              | 45   | 25,0        | 0.155 |
| 7690610 | 7118-22 | 22 | 14 x 18 | 11              | 47   | 25,0        | 0.150 |
| 7690880 | 7118-24 | 24 | 14 x 18 | 11              | 51   | 25,0        | 0.170 |
| 7690960 | 7118-27 | 27 | 14 x 18 | 13              | 58,5 | 25,0        | 0.185 |
| 7691260 | 7118-30 | 30 | 14 x 18 | 13              | 67,5 | 25,0        | 0.220 |
| 7687740 | 7118-32 | 32 | 14 x 18 | 13              | 67,5 | 25,0        | 0.220 |

## 7218

Rectangular close  
end fitting  
14x18



> For solving difficult  
assembly problems  
> SE recording 14x18

| Code    | No.     | mm | mm      | mm <sup>2</sup> | mm   | Depth gauge | kg    |
|---------|---------|----|---------|-----------------|------|-------------|-------|
| 7693120 | 7218-13 | 13 | 14 x 18 | 12              | 21,5 | 25,0        | 0.120 |
| 7693390 | 7218-14 | 14 | 14 x 18 | 12              | 23   | 25,0        | 0.120 |
| 7693470 | 7218-15 | 15 | 14 x 18 | 12              | 24,2 | 25,0        | 0.115 |
| 7678320 | 7218-16 | 16 | 14 x 18 | 12              | 25,7 | 25,0        | 0.125 |
| 7693630 | 7218-17 | 17 | 14 x 18 | 12              | 27,2 | 25,0        | 0.125 |
| 7678830 | 7218-18 | 18 | 14 x 18 | 12              | 28,5 | 25,0        | 0.125 |
| 7693710 | 7218-19 | 19 | 14 x 18 | 12              | 30,5 | 25,0        | 0.125 |

| Code    | No.     | mm | mm      | mm <sup>2</sup> | mm | Depth gauge | kg    |
|---------|---------|----|---------|-----------------|----|-------------|-------|
| 7678910 | 7218-21 | 21 | 14 x 18 | 15              |    | 25,0        | 0.140 |
| 7693980 | 7218-22 | 22 | 14 x 18 | 15              |    | 25,0        | 0.140 |
| 7694280 | 7218-24 | 24 | 14 x 18 | 15              |    | 25,0        | 0.140 |
| 7694440 | 7218-27 | 27 | 14 x 18 | 17,5            |    | 31,0        | 0.150 |
| 7694790 | 7218-30 | 30 | 14 x 18 | 17,5            |    | 31,0        | 0.160 |
| 7695920 | 7218-32 | 32 | 14 x 18 | 17,5            |    | 31,0        | 0.165 |

## 7412

Rectangular reversible ratchet head 9x12



- For solving difficult assembly problems
- SE recording 9x12
- Return angle 5°
- 1/4" to 30 N-m continuous load capacity
- 3/8" to 135 N-m continuous load capacity
- 1/2" to 150 N-m continuous load capacity

| Code    | No.     | "    | "    | mm     | mm | mm   | mm | Depth gauge | Continuous load | kg    |
|---------|---------|------|------|--------|----|------|----|-------------|-----------------|-------|
| 7672710 | 7412-00 | 1/4" | 6,3  | 9 x 12 | 5  | 16,6 | 25 | 17,5        | 1/4" = 30 N-m   | 0.060 |
| 7686500 | 7412-01 | 3/8" | 10   | 9 x 12 | 5  | 23,2 | 34 | 17,5        | 3/8" = 135 N-m  | 0.140 |
| 7687230 | 7412-02 | 1/2" | 12,5 | 9 x 12 | 5  | 24,2 | 34 | 17,5        | 1/2" = 150 N-m  | 0.150 |

## 7418

Rectangular reversible ratchet head 14x18



- For solving difficult assembly problems
- SE recording 14x18
- Return angle 7°
- 1/2" to 340 N-m continuous load capacity
- 3/4" to 400 N-m continuous load capacity

| Code    | No.     | "    | "    | mm      | mm  | mm   | mm   | Depth gauge | Continuous load | kg    |
|---------|---------|------|------|---------|-----|------|------|-------------|-----------------|-------|
| 7687580 | 7418-02 | 1/2" | 12,5 | 14 x 18 | 7,2 | 28,8 | 25,0 | 25,0        | 1/2" = 340 N-m  | 0.363 |
| 7687660 | 7418-04 | 3/4" | 20   | 14 x 18 | 7,2 | 35,5 | 25,0 | 25,0        | 3/4" = 400 N-m  | 0.790 |

## i ACCESSORIES DREMOMETER

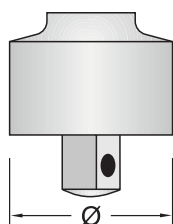
### Ratchet heads DREMOMETER 754

Ratchet head no. 754 can only be used in combination with the DREMOMETER. Please note the right direction of rotation by the ratchet head when ordering. There are separate models for clockwise or counter-clockwise rotation. Ratchet head nos. 754-11 to 754-16 (counter-clockwise) can only be used with the DREMOMETER with double square drive.



## 754

Ratchet head 1/2" - 1"



- Enables controlled torque tightening in combination with a DREMOMETER torque wrench
- Fine-pitched, sturdy ratchet head
- Made of chrome-vanadium steel
- Clockwise models (no. 754-00 to -06)

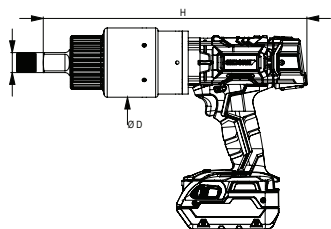
- Anti-clockwise models (no. 754-11 to -16)
- Made of chrome-vanadium steel
- \*Max. continuous load of ratchet according to DIN EN ISO 6789:2003 and/or maximum load of cavity

| Code    | No.    | "    | "    | H  | mm | °   | Use               | Version   | Permanent load capacity* | kg    |
|---------|--------|------|------|----|----|-----|-------------------|-----------|--------------------------|-------|
| 7680650 | 754-02 | 1/2" | 1/2" | 36 | 46 | 7,5 | B, BC, C          | Clockwise | 1/2" = 340 N-m           | 0.350 |
| 7680730 | 754-04 | 3/4" | 3/4" | 56 | 65 | 10  | CD, DS, D, DR, DX | Clockwise | 3/4" = 1000 N-m          | 1.000 |
| 7680810 | 754-06 | 1"   | 1"   | 62 | 73 | 10  | E / EK            | Clockwise | 1" = 2000 N-m            | 1.800 |

# i LDA CORDLESS TORQUE WRENCH

## UP TO 13 000 Nm

with process reliable documentation software and sunlight-readable colour display



**LDA series** – straight version



## FEATURES

1

### DISPLAY

SUNLIGHT-READABLE COLOUR DISPLAY. CONTINUOUSLY ADJUSTABLE TORQUE FROM 90 - 13 000 Nm

2

### PRECISION

TORQUE ACCURACY BETTER THAN +/- 3% FOR THE SAME BOLT CONNECTION

3

### BATTERY PERFORMANCE

SYSTEM PERFORMANCE: 270 WH  
POWERFUL 90 WH (18V/5AH) LITHIUM-ION BATTERY

4

### AUTOMATIC DEVICE SWITCH-OFF

OWN MICROPROCESSOR-CONTROLLED SWITCH-OFF ELECTRONICS. AUTOMATIC SWITCH-OFF OF THE DEVICE WHEN TORQUE IS ACHIEVED. WRENCH SLACKEN (BACK OFF) AFTER TORQUE IS APPLIED

5

### LOW-MAINTENANCE MODERN CONTROL SYSTEM

BRUSHLESS TECHNOLOGY

6

### DOCUMENTATION

DOCUMENTATION OF OVER 10.000 BOLTED CONNECTIONS AND PRE-DEFINING OF DIFFERENT BOLTING OPERATIONS WITH THE MODULE DOCU (OPTIONAL)

7

### TORQUE ROTATION ANGLE MODUS

DEFINED BOLTING WITH THE TORQUE ROTATION ANGLE MODUS (OPTIONAL)

| Code              | N-m<br>min <sup>1</sup> /max <sup>2</sup> | lbf-ft<br>min <sup>1</sup> /max <sup>2</sup> | ~ U/min | □ "    | Ø D mm | H mm | kg   |
|-------------------|-------------------------------------------|----------------------------------------------|---------|--------|--------|------|------|
| LDA-05 Solution*  | 90-500                                    | 66 - 369                                     | 46      | 3/4"   | 80     | 294  | 3.4  |
| LDA-07 Solution*  | 120-700                                   | 86 - 516                                     | 29      | 3/4"   | 80     | 326  | 4.0  |
| LDA-12 Solution*  | 200-1200                                  | 148 - 885                                    | 20      | 3/4"   | 80     | 326  | 4.0  |
| LDA-15 Solution*  | 180-1500                                  | 184 - 1107                                   | 15      | 1"     | 88     | 342  | 5.1  |
| LDA-22 Solution*  | 300-2200                                  | 221 - 1623                                   | 10      | 1"     | 90     | 360  | 5.7  |
| LDA-32 Solution*  | 400-3200                                  | 290 - 2360                                   | 7       | 1"     | 88     | 383  | 6.2  |
| LDA-40 Solution*  | 500-4000                                  | 369 - 2950                                   | 5.5     | 1"     | 88     | 383  | 6.2  |
| LDA-60 Solution*  | 700-6000                                  | 516 - 4425                                   | 3.5     | 1 1/2" | 102    | 398  | 7.9  |
| LDA-80 Solution*  | 1000-8000                                 | 740 - 5900                                   | 1.8     | 1 1/2" | 128    | 423  | 12.1 |
| LDA-100 Solution* | 1250-10 000                               | 930 - 7380                                   | 1.4     | 1 1/2" | 142    | 438  | 14.0 |
| LDA-130 Solution* | 1600-13 000                               | 1180 - 9590                                  | 1.0     | 1 1/2" | 174.5  | 454  | 20.1 |

\* Module and Software is not available for the **LDA-05** and **LDA-07** Solution.

\* Module function for **LDA-12** and **LDA-15** Solution is only in **1st Gear**

\* From **LDA-22** Solution available for **both Gears**

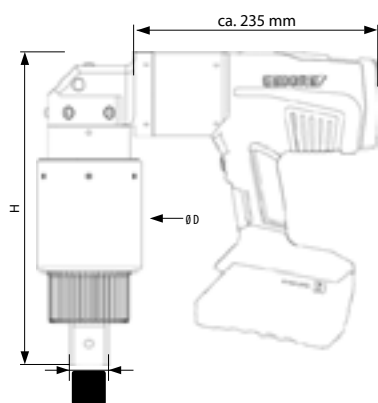
### Conforms to the highest standards

The data transfer of all bolt tightening operations via USB interface at the end of the working day is flawless and complete with the LDA Solution.

An integrated counting mode for life and maintenance cycle reminds you of service and recalibration.

# LAW SOLUTION

CORDLESS TORQUE WRENCH  
UP TO 6000 Nm



LAW Solution series – angled version

## FEATURES

1

### DISPLAY

SUNLIGHT-READABLE COLOUR DISPLAY. CONTINUOUSLY ADJUSTABLE TORQUE FROM 90 - 6000 NM

2

### PRECISION

TORQUE ACCURACY BETTER THAN +/- 3% FOR THE SAME BOLT CONNECTION

3

### BATTERY PERFORMANCE

SYSTEM PERFORMANCE: 270 WH  
POWERFUL 90 WH (18V/5AH) LITHIUM-ION BATTERY

4

### AUTOMATIC DEVICE SWITCH-OFF

OWN MICROPROCESSOR-CONTROLLED SWITCH-OFF ELECTRONICS. AUTOMATIC SWITCH-OFF OF THE DEVICE WHEN TORQUE IS ACHIEVED. WRENCH SLACKEN (BACK OFF) AFTER TORQUE IS APPLIED

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### TORQUE ROTATION ANGLE MODUS

DEFINED BOLTING WITH THE TORQUE ROTATION ANGLE MODUS (OPTIONAL)

| Code            | N·m<br>min <sup>1</sup> /max <sup>2</sup> | lbf·ft<br>min <sup>1</sup> /max <sup>2</sup> | ~ U/min  | Ø D mm | H mm |  |
|-----------------|-------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------|--------|------|---------------------------------------------------------------------------------------|
| LAW-22 Solution | 300-2200                                  | 220-1630                                     | 7 1"                                                                                        | 90     | 256  | 8.7                                                                                   |
| LAW-32 Solution | 400-3200                                  | 290-2360                                     | 5 1"                                                                                        | 88     | 289  | 9.4                                                                                   |
| LAW-40 Solution | 500-4000                                  | 370-2950                                     | 3.8 1"                                                                                      | 88     | 289  | 9.4                                                                                   |
| LAW-60 Solution | 750-6000                                  | 550-4430                                     | 2.2 1 1/2"                                                                                  | 102    | 295  | 11.0                                                                                  |

# TORQUE MULTIPLIERS

The name says it all: The GEDORE torque multipliers in the DREMOPLUS ALU series are reliable and greatly reduce the wrench length and force required by the user.



In mechanical and plant engineering, heavy industry, construction industry, ship, aircraft, railway and power stations - applications which a multiple of the torque that the user can apply is often required. This is where GEDORE's mechanical, hand-operated torque multipliers and reaction arms are the perfect solution.

When tightening and loosening, the safety slip release mechanism with overload protection is the main feature. At 10% overload, it releases and seamlessly re-engages. The mechanism, including the low-backlash two-stage planetary gear, is packed in a light and slim housing made of high-performance aluminium. This makes torque multipliers around 30% lighter and durable than models with steel housings - and really power packs.



## CHOOSING THE RIGHT TORQUE ASSEMBLY TOOL FOR SCREWS AND NUTS

- It is vital that use is made of a torque wrench complete with ratchet function (integrated or separate) for torque multipliers without anti-wind-up ratchet
- For models with an anti-wind-up ratchet, we recommend the use of torque tools complete with ratchet function (integrated or separate) - for ease of working



RELIABLE,  
COMPACT AND  
DURABLE



#### GEDORE DREMOPLUS ALU MAKES THE DIFFERENCE



- Delivery incl. factory test certificate
- Lightweight, robust tools



- Reliable accuracy for all applications with repeatability of  $\pm 3\%$



- Torque settings and individual tool components are fully traceable



- Minimised impact on the tooth flanks in the low-backlash planetary gearbox



- Precise matching of components
- Integrated safety overload protection

#### SAFETY PLUS

- Convenient and safe working - perfect for confined spaces or where access is limited
- Repetition-accurate and precise results ensure a maximum degree of safety
- High degree of resilience and long life of the appliances attributable to a lowbacklash planet gear with Ceramic-Teflon® coating
- A 30 % + lighter steel housing thanks to the use of high-performance aluminium
- Precise, reliable figures - even under extreme climatic conditions
- The most common INPUT/OUTPUT torques are displayed on the torque multiplier



## i WORKING PRINCIPLE

### TORQUE - VELOCITY

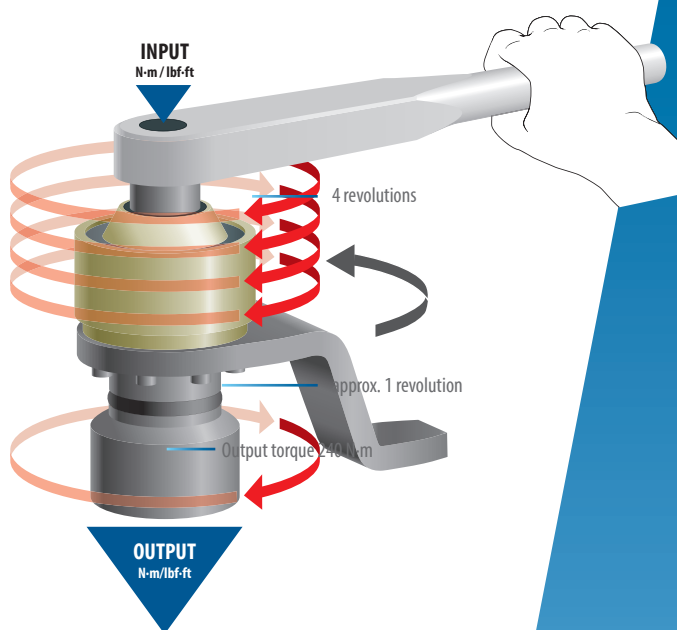
The chart represents the torque principle, multiplication.  
Let us assume a 60 Nm input torque and a 240 Nm output torque.

At a 1:4 ratio, 4 revolutions are needed at the input for 1 revolution with a 240 N-m torque to be obtained at the output.

This is substantiated in terms of the physical formula:  
**Power = torque x revolution**

With gear efficiency deducted, the output power is to be considered as a constant equal to the input power.  
Thus multiplication of the torque can only be obtained from an increased number of revolutions at the input.

### INPUT TORQUE WITH TORQUE WRENCH 60 N·M

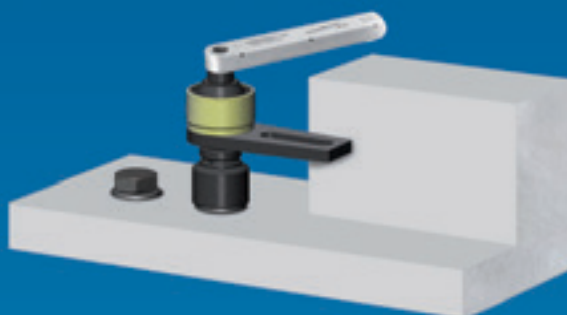


### FORCE AND REACTION

When working with a torque multiplier, torsion wind-up is built up in the gear when the screw is tightened.  
This stress must be reduced. A reaction absorbed by reaction arm and abutment is produced.

### L-FORM REACTION ARM WITHOUT ADJUSTABLE REACTION SQUARE

The reaction acts on the wall. Is possible, but the tilting moment which arises causes the max. permitted torque to drop by 20 %.



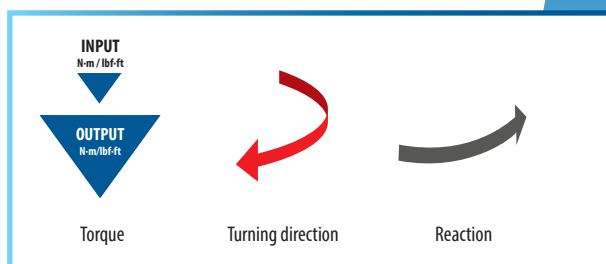
### L-FORM REACTION ARM WITH ADJUSTABLE REACTION SQUARE

The reaction acts on the adjacent impact socket.



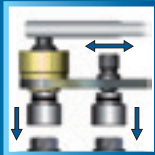
### REACTION ARM IN Z-FORM

The reaction acts on the adjacent screw connection

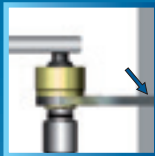


# i REACTION ARM

L-FORM



- This straight reaction arm with adjustable reaction square is admirably suited for flange screw connections.
- The L-form reaction arm has in terms of support a larger radius than the Z-Form.



The L-form is also ideal for those points above the screwtightening level. However, the resulting tilting moment causes the max. permitted torque to drop by 20 %.

Z-FORM



- A flexible off set reaction arm which has proved itself as the standard solution.
- Supporting situations are, for instance, adjoining screws, walls, machine parts and other stable abutments.
- This reaction arm can be ideally used where conditions are quite cramped.



# **i** DREMOPLUS ALU FAMILY 1

DVV-40Z, DVV-40ZRS – DVV-540RS



1

Convenient: Integrated "RS" anti-wind-up ratchet for safe working. Bi-directional (apart from model DVV-40Z)

2

Lightweight and slim: High-performance aluminium housing is 30 % lighter than a steel one

3

Low backlash, 2-stage planet gear for a long service life

4

Stable, shuttle-impacted gear housing

5

Flexible: With detachable Z-form reaction arm, can be optionally retrofitted with L-form reaction arm and adjustable reaction square

6

A 1", 1 1/2" or 2 1/2" output square with drill hole for impact sockets with safety pin and ring

7

1/2" or 3/4" input square

8

Overload safety mechanism - "Slipper" - filed as a patent. Triggers overload at 10% and again clicks into place. Clockwise and anti-clockwise

9

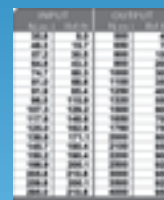
A coating of the tooth flanks consisting of ceramic and teflon enables the gear to be constantly lubricated with a minimum of grease

10

A Z-form forged reaction arm of chromevanadium steel absorbs any countering force that arises. Optional: L-form reaction arm on request

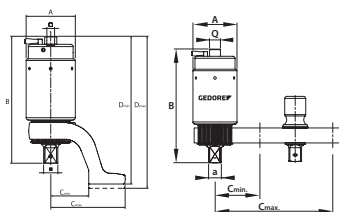
## 100% QUALITY CHECK

- Delivery including factory test certificate
- The most common INPUT/OUTPUT torques on the torque multiplier



## DVV-40Z - DVV-40ZRS

Torque multiplier DREMOPLUS ALU  
4000Nm



- > Controlled screw tightening and loosening
- > High-performance aluminium housing
- > Transmission ratio 1:16
- > DVV-40ZRS model with anti-wind-up ratchet (RS)
- > Non-destructive overload protection "Slipper" to protect the gearbox, right and left hand
- > Z-form, offset reaction arm depending on model made of chrome-vanadium steel
- > Better than +/- 3 % accuracy
- > To operate with a suitable torque wrench

| Code    | No.       | max.<br>N·m<br>Output | max.<br>lbf·ft<br>Output | Reaction<br>arm   | •:•  | □" C | ■" D | A  | B   | C min | C max | D min | D max | max.<br>N·m<br>Input | max.<br>lbf·ft<br>Input | kg  |
|---------|-----------|-----------------------|--------------------------|-------------------|------|------|------|----|-----|-------|-------|-------|-------|----------------------|-------------------------|-----|
| 2653087 | DVV-40Z   | 4000                  | 2390                     | Z-form,<br>offset | 1:16 | 1/2" | 1"   | 88 | 212 | 68    | 133   | 250   | 256   | 300                  | 220                     | 3,9 |
| 2653109 | DVV-40ZRS | 4000                  | 2390                     | Z-form,<br>offset | 1:16 | 1/2" | 1"   | 88 | 227 | 68    | 133   | 264   | 270   | 310                  | 230                     | 4,2 |

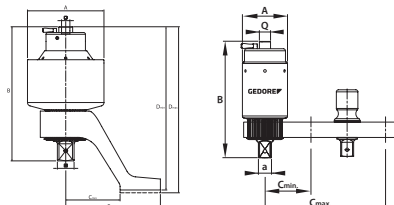


#### OPTIONAL ACCESSORIES:

| Code           | No.      | Designation                                | C min | C max |  |
|----------------|----------|--------------------------------------------|-------|-------|-------------------------------------------------------------------------------------|
| <b>2653176</b> | RZ-DVV40 | Reaction arm Z-form offset for DVV40       | 68    | 133   | 1.500                                                                               |
| <b>2653184</b> | RL-DVV40 | Reaction arm L-form straight for DVV40, 1" | 86    | 234   | 1.737                                                                               |

## DVV-60ZRS - DVV-130ZRS

Torque multiplier DREMOPLUS ALU  
6000 - 13000Nm



- > Controlled screw tightening and loosening
- > High-performance aluminium housing
- > Transmission ratio 1:18, 1:22, 1:28.5, 1:39
- > All models with return flow protection (RS)
- > Non-destructive overload protection "Slipper" to protect the gearbox, right and left hand
- > With cranked reaction arm Z-shaped
- > Better than +/- 3 % accuracy
- > To operate with a suitable torque wrench

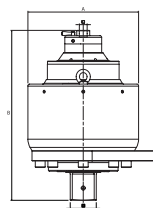
| Code           | No.        | max. N-m Output | max. lbf-ft Output | Reaction arm   |  | " C  | " D    | A   | B   | C min | C max | D min | D max |  max. N-m Input |  max. lbf-ft Input |  |
|----------------|------------|-----------------|--------------------|----------------|-----------------------------------------------------------------------------------|------|--------|-----|-----|-------|-------|-------|-------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>2653117</b> | DVV-60ZRS  | 6000            | 4400               | Z-form, offset | 1:18                                                                              | 3/4" | 1.1/2" | 102 | 257 | 110   | 190   | 316   | 324   | 400                                                                                                | 300                                                                                                   | 6.60                                                                                |
| <b>2653125</b> | DVV-80ZRS  | 8000            | 5870               | Z-form, offset | 1:22                                                                              | 3/4" | 1.1/2" | 128 | 277 | 110   | 190   | 338   | 342   | 420                                                                                                | 310                                                                                                   | 9.10                                                                                |
| <b>2653133</b> | DVV-100ZRS | 10000           | 7330               | Z-form, offset | 1:28,5                                                                            | 3/4" | 1.1/2" | 142 | 292 | 120   | 216   | 350   | 356   | 410                                                                                                | 305                                                                                                   | 10.9                                                                                |
| <b>2653141</b> | DVV-130ZRS | 13000           | 9530               | Z-form, offset | 1:39                                                                              | 3/4" | 1.1/2" | 175 | 306 | 126   | 229   | (372) | (379) | 380                                                                                                | 280                                                                                                   | 17.0                                                                                |

#### OPTIONAL ACCESSORIES:

| Code           | No.         | Designation                                       | C min | C max |  |
|----------------|-------------|---------------------------------------------------|-------|-------|---------------------------------------------------------------------------------------|
| <b>2653192</b> | RZ-DVV60    | Reaction arm Z-form offset for DVV60              | 110   | 194   | 4.015                                                                                 |
| <b>2653206</b> | RZ-DVV80    | Reaction arm Z-form offset for DVV80              | 110   | 190   | 4.484                                                                                 |
| <b>2653222</b> | RZ-DVV100   | Reaction arm Z-form offset for DVV100             | 120   | 215   | 3.166                                                                                 |
| <b>2653230</b> | RZ-DVV130   | Reaction arm Z-form offset for DVV130             | 126   | 229   | 3.580                                                                                 |
| <b>2654091</b> | RL-DVV60-80 | Reaction arm L-form straight for DVV60-80, 1.1/2" | 120   | 315   | 4.104                                                                                 |

## DVV-540RS

Torque multiplier DREMOPLUS ALU  
54000Nm



- > Controlled screw tightening and loosening
- > High-performance aluminium housing
- > Better than +/- 3 % tolerance
- > For operation in combination with a torque wrench
- > With fixture for welding on a reaction arm (optional)
- > Multiplication at the ratio of 1:175
- > 1 model for a maximum load of around a max. 54000 N-m
- > Output square with drill hole for impact sockets with safety pin and ring

| Code           | No.       | max. N-m Output | max. lbf-ft Output | Reaction arm |  | " C  | " D    | A   | B   |  max. N-m Input |  max. lbf-ft Input |  |
|----------------|-----------|-----------------|--------------------|--------------|-------------------------------------------------------------------------------------|------|--------|-----|-----|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>2653168</b> | DVV-540RS | 54000           | 40330              | without      | 1:175                                                                               | 3/4" | 2.1/2" | 270 | 415 | 380                                                                                                  | 280                                                                                                     | 64.6                                                                                  |



# i DREMOPLUS ALU FAMILY 2

DVI-20L/Z UND DVI-28L/Z



1

3/4" input square

2

Low backlash, single-stage planet gear for a long service life

3

Output square 1" with drill hole for impact sockets with safety pin and ring

4

Overload safety mechanism achieved from a classic shearing square

5

Overload safety mechanism achieved from a classic shearing square

6

Overload safety mechanism achieved from a classic shearing square

## DVI-20Z AND DVI-28Z

- Reaction arm Z-form offset
- fix integrated

## DVI-20L AND DVI-28L

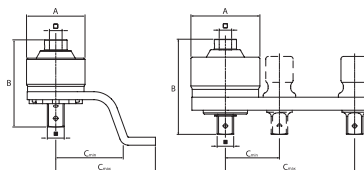
- Reaction arm L-form with adjustable reaction square drive
- fix integrated

## 100% QUALITY CHECK

- Delivery including factory test certificate
- The most common INPUT/OUTPUT torques on the torque multiplier



## DVI-20L/Z - DVI-28L/Z

Torque multiplier DREMOPLUS ALU  
2000-2800Nm

- > Controlled screw tightening and loosening
- > High-performance aluminium housing
- > Better than +/- 3 % tolerance
- > For operation in combination with a torque wrench
- > With firmly integrated reaction arm of an Z- or L-form depending on model
- > Multiplication at the ratio of 1:4, 1:5.5

| Code    | No.     | max. N-m<br>Output | max. lbf-ft<br>Output | Reaction arm     | •:•   | □ " C | ■ " D | A   | B   | C min | C max | max. N-m<br>Input | max. lbf-ft<br>Input | kg  |
|---------|---------|--------------------|-----------------------|------------------|-------|-------|-------|-----|-----|-------|-------|-------------------|----------------------|-----|
| 2653249 | DVI-20L | 2000               | 1500                  | L-form, straight | 1:4   | 3/4"  | 1"    | 88  | 131 | 73    | 152   | 580               | 430                  | 1.8 |
| 2653257 | DVI-28L | 2800               | 2050                  | L-form, straight | 1:5,5 | 3/4"  | 1"    | 106 | 146 | 83    | 199   | 550               | 410                  | 2.4 |
| 2653265 | DVI-20Z | 2000               | 1500                  | Z-form, offset   | 1:4   | 3/4"  | 1"    | 88  | 131 | 100   | 150   | 580               | 430                  | 1.8 |
| 2653273 | DVI-28Z | 2800               | 2050                  | Z-form, offset   | 1:5,5 | 3/4"  | 1"    | 106 | 146 | 100   | 150   | 550               | 410                  | 2.4 |

## OPTIONAL ACCESSORIES:

| Code    | No.         | Designation                                | kg  |
|---------|-------------|--------------------------------------------|-----|
| 2653281 | RZ-DVI20    | Reaction arm Z-form offset for DVI20       | 1.1 |
| 2653303 | RL-DVI20    | Reaction arm L-form straight for DVI20, 1" | 1.2 |
| 2653311 | RZ-DVI28    | Reaction arm Z-form offset for DVI28       | 1.5 |
| 2653338 | RL-DVI28    | Reaction arm L-form straight for DVI28, 1" | 1.7 |
| 2653346 | E-VKT-DVI20 | Spare square 1" for DVI20                  | 0.3 |
| 2670526 | E-VKR-DVI28 | Spare square 1" incl. ring for DVI28       | 0.5 |

# i DREMOPLUS ALU FAMILY 3

DVV-13Z



1

1/2" input square

2

Low backlash, single-stage planet gear for a long service life

3

Output square 3/4" with drill hole for impact sockets with safety pin and ring

4

Reaction arm: Forged reaction arm absorbs any counter force arising

5

Lightweight: High-performance aluminium housing is 30 % lighter than a steel one

6

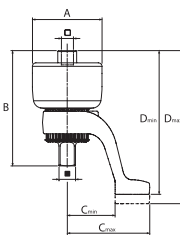
Flexible: With detachable Z-form reaction arm; can be optionally retrofitted with long reaction arm incorporating an adjustable reaction square (L-form) of lightweight metal

## DVV-13Z

Torque multiplier DREMOPLUS ALU  
1300Nm



DVV-13ZG



- > Controlled screw tightening and loosening
- > With a single-stage planet gear
- > High-performance aluminium housing
- > Better than +/- 3 % tolerance
- > For operation in combination with a torque wrench
- > Can be optionally retrofitted with L-form straight reaction arm
- > Multiplication at the ratio of 1:5
- > Also available as set (No. DVV-13ZG) with three different impact sockets - sizes 27, 30, 32 mm

| Code    | No.      | max. N-m<br>Output | max. lbf-ft<br>Output | Reaction<br>arm                    | • : • | □ " C | ■ " D | A  | B   | C min | C max | D min | D max | max. N-m<br>Input | max. lbf-ft<br>Input | kg  |
|---------|----------|--------------------|-----------------------|------------------------------------|-------|-------|-------|----|-----|-------|-------|-------|-------|-------------------|----------------------|-----|
| 2653370 | DVV-13Z  | 1300               | 950                   | Z-form, offset                     | 1:5   | 1/2"  | 3/4"  | 80 | 133 | 56    | 95    | 165   | 173   | 270               | 200                  | 1.3 |
| 2653389 | DVV-13ZG | 1300               | 950                   | DVV-13ZK<br>32 27K 32<br>30K 32 32 | 1:5   | 1/2"  | 3/4"  | 80 | 133 | 56    | 95    | 165   | 173   | 270               | 200                  | 3.0 |

### OPTIONAL ACCESSORIES:

| Code    | No.       | Designation                                   | C min | C max | kg    |
|---------|-----------|-----------------------------------------------|-------|-------|-------|
| 2653397 | RZ-DVV13  | Reaction arm Z-form offset for DVV-13         | 55    | 95    | 0.582 |
| 2653400 | RL-DVV13  | Reaction arm L-form straight for DVV-13, 3/4" | 60    | 159   | 0.800 |
| 2684233 | E-S-DVV13 | Sun gear for DVV-13                           |       |       | 0.096 |

# PULLERS

Concentrated power forged from steel: Pullers effortlessly move loads weighing several tonnes. Whenever components such as roller bearings, gear wheels or other machine elements need to be safely released from the friction-locked connection.

In industry and trade, stuck connections of pressed-on components that are held in position by their own frictional force are part of work life. GEDORE pullers are

the perfect choice for loosening them effortlessly and gently. Over 100 years of manufacturing expertise are reflected in the intelligent design and well thought-out components.

External and internal extractors, ball bearing extractors, special tools for the automotive sector and accessories such as nut splitters, flange drivers, thread adapters and safety foils. The GEDORE range covers the complete range of applications from 0.5 - 15 tonnes in workshops, industry, agricultural and construction machinery repair.



## BEST QUALITY FOR YOUR SAFETY

- Maximum value is attached to the safety of the puller when selecting the material and manufacturing process for each individual component part beforehand.
- Any overloading of drop-forged components, such as 2-arm cross-beams, legs and clamping parts, is revealed through deformation - on account of the course of their fibres - rather than through fracturing and/or splintering.
- Thermo-chemical treatment bestows a hardness on the components meeting the demands placed.
- Strict checks ensure a constant high quality



# SECURE INTELLIGENT



## GEDORE PULLERS FOR MAXIMUM PERFORMANCE

- High-grade industrial quality for the toughest forms of continuous use and safety in everyday work
- Many years of experience in the development and production of puller tools
- Numerous patents and utility models,
- Effortless moving of multi-ton loads
- Ideal for the controlled use of force and a vital requirement for safe working



## GEDORE SPINDLE

- Maintenance free
- Fine thread is rolled and obtains higher strength
- Nitocarbured surface makes them wear-resistant
- Oil and grease not necessary
- Spindle tips can be replaced

## INTELLIGENT DESIGNS - WELL THOUGHTOUT COMPONENTS

- GEDORE pullers impress as much through their quality as they do through their user-friendliness and superiority in detail:
- A lasered scale on the 2-arm cross-beam enable the legs to be symmetrically aligned
- Leg brake and quick-release clamp are those rapid and assured ways of locking and fastening the puller legs
- Both the nitro-carbured mechanical and hydraulic spindles have properties that make work considerably easier and safer



## 8220

Twin grip pullers



- For the safe and fast removal of discs, pulleys, wheels, ball bearings etc.
- Strong drop forged design.
- Reversible hooks permit use as an internal or external puller.
- Available in standard length or with extensions for extra length.

\*WHILE STOCKS LAST

| Code   | No.       | Running Depth | Max. Opening |  |
|--------|-----------|---------------|--------------|-------------------------------------------------------------------------------------|
| 040150 | 8220-10   | 105           | 110          | 1.200                                                                               |
| 040180 | 8220-20   | 160           | 180          | 3.100                                                                               |
| 040210 | 8220-30*  | 210           | 280          | 8.500                                                                               |
| 040160 | 8220-10L  | 200           | 110          | 1.800                                                                               |
| 040190 | 8220-20L  | 310           | 180          | 4.500                                                                               |
| 040220 | 8220-30L* | 410           | 280          | 11.600                                                                              |

| Code   | No.                              | Running Depth | Max. Opening |  |
|--------|----------------------------------|---------------|--------------|-------------------------------------------------------------------------------------|
| 040460 | 8220-20HSP1 Puller & Spindle *   | 90            | 180          | 0.900                                                                               |
| 040470 | 8220-30HSP3 Puller & Spindle *   | 100           | 280          | 2.000                                                                               |
| 040480 | 8220-20L HSP1 Puller & Spindle * | 90            | 180          | 5.000                                                                               |
| 040490 | 8220-30L HSP3 Puller & Spindle * | 100           | 280          |                                                                                     |

| Code   | No.      | ↳ mm ↲ |  |
|--------|----------|--------|-------------------------------------------------------------------------------------|
| 040170 | 8220-10P | 151    | 0.900                                                                               |
| 040200 | 8220-20P | 220    | 2.000                                                                               |
| 040230 | 8220-30P | 308    | 5.000                                                                               |

## 8562

Twin grip pullers



- For removing small parts such as battery terminals, pulleys, wheels, ball bearings etc.

| Code   | No.    | Running Depth | Max. Opening |  |
|--------|--------|---------------|--------------|-------------------------------------------------------------------------------------|
| 040427 | 8562-1 | 50            | 60           | 0.200                                                                               |
| 040428 | 8562-2 | 70            | 70           | 0.220                                                                               |

## 8563

Triple grip puller



- For removing small parts such as battery terminals, pulleys, wheels, ball bearings etc.

| Code   | No.    | Running Depth | Max. Opening |  |
|--------|--------|---------------|--------------|---------------------------------------------------------------------------------------|
| 040417 | 8563-1 | 55            | 60           | 0.310                                                                                 |



## 8564

Twin grip pullers



\*WHILE STOCKS LAST

## 8565

Triple grip puller



\*WHILE STOCKS LAST

| Code   | No.                             | Running Depth | Max. Opening |  |
|--------|---------------------------------|---------------|--------------|-----------------------------------------------------------------------------------|
| 040010 | 8564-2                          | 100           | 110          | 1.000                                                                             |
| 040030 | 8564-3                          | 140           | 150          | 1.900                                                                             |
| 040050 | 8564-4                          | 200           | 200          | 2.300                                                                             |
| 040440 | 8564-4 HSPIL Puller & Spindle * | 105           | 200          | 3.700                                                                             |

| Code   | No.                            | Running Depth | Max. Opening |  |
|--------|--------------------------------|---------------|--------------|-------------------------------------------------------------------------------------|
| 040020 | 8565-2                         | 80            | 120          | 1.300                                                                               |
| 040040 | 8565-3                         | 140           | 160          | 2.500                                                                               |
| 040060 | 8565-4                         | 200           | 220          | 4.000                                                                               |
| 040450 | 8565-4 HSPIL Puller & Spindle5 | 105           | 220          | 4.600                                                                               |

## 8566

Twin grip pullers



> Suitable for industrial purposes and heavy agricultural as well as construction machines.

## 8567

Triple grip puller



\*WHILE STOCKS LAST

| Code   | No.                            | Running Depth | Max. Opening |  |
|--------|--------------------------------|---------------|--------------|-------------------------------------------------------------------------------------|
| 040070 | 8566-1                         | 300           | 300          | 9.800                                                                               |
| 040080 | 8566-2                         | 400           | 400          | 10.800                                                                              |
| 040495 | 8566-1 HSP3 Puller & Spindle * | 105           | 300          | 10.100                                                                              |
| 040500 | 8566-2 HSP3 Puller & Spindle * | 110           | 370          | 11.100                                                                              |

| Code   | No.                            | Max. Opening |  |
|--------|--------------------------------|--------------|---------------------------------------------------------------------------------------|
| 040090 | 8567-1                         | 350          | 11.900                                                                                |
| 040100 | 8567-2                         | 420          | 13.000                                                                                |
| 040505 | 8567-1 HSP3 Puller & Spindle * | 345          | 12.100                                                                                |
| 040510 | 8567-2 HSP3 Puller & Spindle   | 350          | 13.300                                                                                |

## 8569

## Triple grip puller



- › Tried and tested, particularly strong design for removing discs, wheels, ball bearings etc.
- › With technical and economical benefits due to the variable clamping reach and automatic grip of the legs
- › Particularly suitable for pulling off V-belt pulleys and flywheels which are mounted on longer shafts
- › Upgradeable with hydraulic spindle

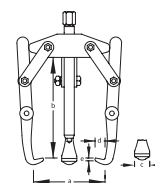
| Code                                                                                        | No.    | a max | b   | max. t |  |  |
|---------------------------------------------------------------------------------------------|--------|-------|-----|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 8006190                                                                                     | 1.15/1 | 130   | 140 | 3      | M 14x1,5 x 140                                                                    | 17 mm                                                                             |
| 8006350                                                                                     | 1.15/2 | 200   | 210 | 7.5    | M 18x1,5 x 200                                                                    | 25 mm                                                                             |
| optional  |        |       |     |        |                                                                                   |                                                                                   |
| -                                                                                           | c      | d     | e   |        |                                                                                   |                                                                                   |
| -                                                                                           | 18     | 11    | 2,0 |        |                                                                                   | 1.200                                                                             |
| -                                                                                           | 25     | 16    | 3,0 |        |                                                                                   | 3.300                                                                             |

## 1.15

## Triple grip pullers



- › Heavy duty model for the removal of discs, pulleys, wheels, ball bearings etc.



| Code   | No.    | Running Depth | Max. Opening |  |
|--------|--------|---------------|--------------|-------------------------------------------------------------------------------------|
| 040120 | 8569-1 | 80            | 150          | 1.100                                                                               |
| 040140 | 8569-2 | 140           | 200          | 2.700                                                                               |

## 8568

## Twin grip pullers



- › Heavy duty model for the removal of discs, pulleys, wheels, ball bearings etc.

| Code   | No.    | Running Depth | Max. Opening |  |
|--------|--------|---------------|--------------|-------------------------------------------------------------------------------------|
| 040110 | 8568-1 | 100           | 150          | 0.800                                                                               |
| 040130 | 8568-2 | 140           | 200          | 1.900                                                                               |

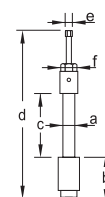
## HSP

## Hydraulic pressure spindle



- › For controlled and safe pulling work
- › Set up for a compression of up to 15 t
- › The thrust piece can be replaced by a tip and extended if necessary
- › The small pressure spindle is secured with an unscrewing lock to stop any accidental withdrawal

\*WHILE STOCKS LAST



| Code   | No.    | max. t | b   | c   | d   | e  | f  | Stroke |  |
|--------|--------|--------|-----|-----|-----|----|----|--------|---------------------------------------------------------------------------------------|
| 040350 | HSP1L* | 10,0   | 80  | 135 | 350 | 12 | 32 | 12     | 1.300                                                                                 |
| 040360 | HSP1   | 6,0    | 80  | 205 | 420 | 12 | 36 | 12     | 1.800                                                                                 |
| 040400 | HSP3*  | 15,0   | 125 | 165 | 465 | 17 | 41 | 12     | 3.375                                                                                 |

## 1.30/N

Internal extractor  
with reinforced shoulder



- Especially suitable for the safe and trouble-free extraction of needle roller bearings, ball bearings and brass sleeves from crankshafts

### Note:

- The shoulder of the shell jaw must be applied behind the bearing

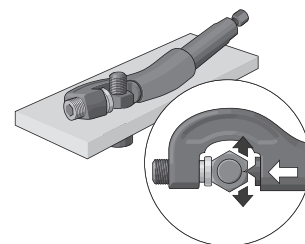
\*WHILE STOCKS LAST

## 1.26/HYD

Nut splitter  
Hydraulic



- With strong chisel, additionally induction hardened
- No breakout of the cutting edge
- The chamfer at the chisel's edge improves the splitting effect and prevents breakage
- For nuts up to property class 10
- Chisel replaceable



| Code    | No.      | mm    | M         | mm | kg    |
|---------|----------|-------|-----------|----|-------|
| 8012750 | 1.30/0*  | 5-8   | M10       | 10 | 0.120 |
| 8012830 | 1.30/1*  | 8-12  | M10       | 10 | 0.120 |
| 8012910 | 1.30/2*  | 12-15 | M10       | 10 | 0.130 |
| 8012130 | 1.30/3*  | 15-19 | M10       | 14 | 0.170 |
| 8012480 | 1.30/4*  | 19-25 | M10       | 14 | 0.200 |
| 8012560 | 1.30/4A* | 25-30 | M10       | 14 | 0.300 |
| 8012640 | 1.30/5*  | 30-35 | M10       | 14 | 0.400 |
| 8012720 | 1.30/6*  | 35-45 | M14 x 1.5 | 17 | 0.650 |

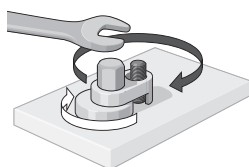
| Code   | No.        | for nuts of size | mm | max. t | kg    |
|--------|------------|------------------|----|--------|-------|
| 040790 | 1.26/1 HYD | M4 - M14         | 12 | 5      | 0.800 |
| 040870 | 1.26/2 HYD | M14 - M24        | 12 | 13     | 3.400 |

## 8600

Stud extractor



- For removing damaged studs with right-hand or left-hand thread
- Even suitable for extremely short stud ends



## 1.73

Universal ball  
joint puller



- For pressing out the ball joint pins when removing car and truck ball joints

| Code   | No.    | Ø-Stud | kg    |
|--------|--------|--------|-------|
| 041010 | 8600-1 | 4-10   | 0.600 |
| 041020 | 8600-2 | 8-25   | 0.230 |

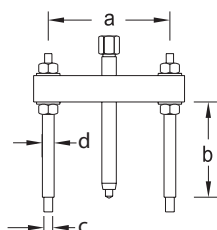
| Code    | No.    | mm | Clamping height | Fork depth | kg    |
|---------|--------|----|-----------------|------------|-------|
| 8030810 | 1.73/1 | 23 | 65              | 24         | 0.730 |

## 1.38

### Separator puller



- > These pullers are used in conjunction with the No. 1.40 cutting blades
- > The tension bolts are screwed into the threaded holes of the cutting blades



| Code                                                                                         | No.    | a                 | b   | for separator |  |   |
|----------------------------------------------------------------------------------------------|--------|-------------------|-----|---------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 8017550                                                                                      | 1.38/0 | 40-120            | 125 | 1.40/0        | M 14 x 120                                                                        | 17 mm                                                                              |
| 8017630                                                                                      | 1.38/1 | 165-60            | 180 | 1.40/1        | M 18 x 170                                                                        | 19 mm                                                                              |
| 8017710                                                                                      | 1.38/2 | 70-215            | 195 | 1.40/2        | G 1/2 x 210                                                                       | 22 mm                                                                              |
| 8017980                                                                                      | 1.38/3 | 90-300            | 205 | 1.40/3        | G 3/4 x 280                                                                       | 27 mm                                                                              |
| optional  |        |                   |     |               |                                                                                   |                                                                                    |
| -                                                                                            |        | C / D             |     |               |                                                                                   |  |
| -                                                                                            |        | M10 / M12x1,5     |     |               |                                                                                   | 1.000                                                                              |
| -                                                                                            |        | M10 / M14x1,5     |     |               |                                                                                   | 1.100                                                                              |
| 1.06/HSP1                                                                                    |        | M14x1,5 / M16x1,5 |     |               |                                                                                   | 3.400                                                                              |
| 1.06/HSP2                                                                                    |        | M18x1,5 / M20x1,5 |     |               |                                                                                   | 6.500                                                                              |

## 1.40

### Separator



- > For removing taper roller and ball bearings, inner bearing races, and other tightly-seated or thin-walled parts

| Code    | No.    | A mm  | for puller | C       |  |
|---------|--------|------------------------------------------------------------------------------------------|------------|---------|-------------------------------------------------------------------------------------|
| 8019680 | 1.40/0 | 5-60 mm                                                                                  | 1.38/0     | M10     | 0.500                                                                               |
| 8019760 | 1.40/1 | 12-75 mm                                                                                 | 1.38/1     | M10     | 0.900                                                                               |
| 8019840 | 1.40/2 | 22-115 mm                                                                                | 1.38/2     | M14x1,5 | 2.400                                                                               |
| 8019920 | 1.40/3 | 30-155 mm                                                                                | 1.38/3     | M18x1,5 | 4.700                                                                               |

## 1.36

### Support brace



**Operation:**  
The counter-support brace is placed on the housing and the spindle screwed onto the spindle of the internal extractor. The toggle is held firmly, and the bearing extracted by tightening the nut.

| Code    | No.    | for internal extractors            |  |  |  |
|---------|--------|------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 8016580 | 1.36/1 | 1.30/0 - 1.30/5<br>1.34/1 - 1.34/4 | M10                                                                                 | 27 mm                                                                               | 0.750                                                                               |
| 8016660 | 1.36/2 | 1.30/6 - 1.30/7                    | M14x1,5                                                                             | 32 mm                                                                               | 1.650                                                                               |

## 8551

### Bolt extractor set



- > Made from Chrome Vanadium steel-35HRC.
- > In sturdy plastic case.

| Code    | No.     | Contents                                                                             |       |
|---------|---------|--------------------------------------------------------------------------------------|-------|
| 6759890 | 8551-88 | 8551 Bolt extractor M3-M6 M6-M8<br>M8-M11 M11-M14 M14-M18 M18-M24<br>M24-M33 M33-M45 | 0.724 |

## 1.31

### Internal extractor set



- > Sets comprise the most used extractor sizes for the removal of ball bearings, bearing races, bushings, shaft seals, etc.
- > In robust sheet metal case

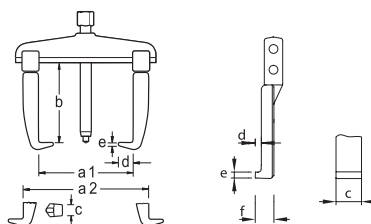
| Code    | No.    | Contents                                                                                                                                                                                                                                                                                                                                                         |       |
|---------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 8014610 | 1.31/1 | 1.30/2 Internal extractor 12-15 mm<br>1.30/3 Internal extractor 15-19 mm<br>1.30/4 Internal extractor 19-25 mm<br>1.30/4A Internal extractor 25-30 mm<br>1.30/5 Internal extractors 30-35 mm<br>1.30/6 Internal extractor 35-45 mm<br>1.36/1 Counter support for 1.30/0 - 1.30/5<br>1.36/2 Counter support for 1.30/6 - 1.30/7<br>131/199B Sheet metal box empty | 6.400 |

## 1.07/K

### Puller set with 9 legs



- > In robust plastic case
- > Contents: 1 spindle, 1 cross-beam each 2- and 3-arm pattern and 9 slim pulling legs in 3 lengths
- > 2. spindle in case 1.07/K saves working time



| Code    | No.    | a   | b                  | max. t |  | mm    | optional | c  | d   | e   |       |
|---------|--------|-----|--------------------|--------|--|-------|----------|----|-----|-----|-------|
| 8117340 | 1.07/K | 130 | 100 / 200 / 250 mm | 2,5    |  | 17 mm | -        | 27 | 7,5 | 3,7 | 5.800 |

## 1100-1.04

### Universal puller kit, in L-BOXX® 136



- > Maximum capacity up to 5t.
- > 2- and 3-arm cross-beam.
- > With rigid and slim legs and extensions.
- > 12 different pullers can be combined.
- > External Ø up to 130mm, internal Ø up to 170mm with a 200mm clamping reach.
- > 1100 CT2-1.04 to retrofit existing L-BOXX®es 136.

| Code    | No.       | Contents                                                |       |
|---------|-----------|---------------------------------------------------------|-------|
| 2838362 | 1100-1.04 | L-Boxx® 136 no. 1100L<br>+ Assortment no. 1100 CT2-1.04 | 6.300 |



1101-1.29/3K  
Ball bearing ectractor set

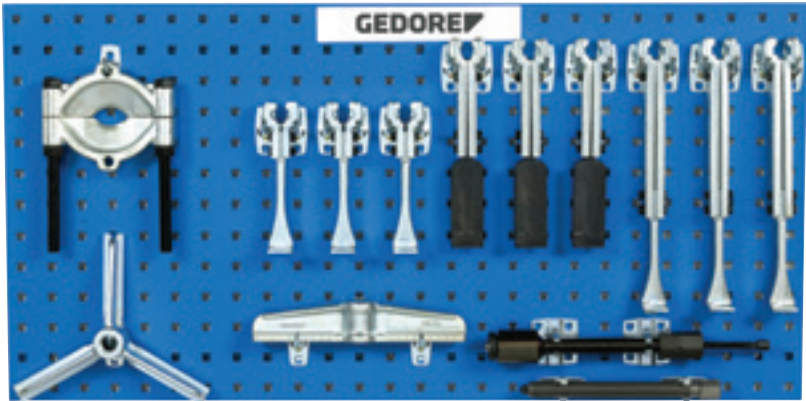


- > Ball bearing extractor set for more than 40 ball bearings.
- > For removing ball bearings that are both on a shaft and in a housing.
- > Non-destructive removal of deep-groove ball bearings without dismantling the shaft; no need to drill open the bearing cage (no chippings).
- > With Check-Tool insert.
- > Insert for use in drawers with minimum dimensions 340 x 260 x 60mm.
- > In GEDORE i-BOXX® 72 No. 1101 L.
- > Dimensions: 367 x 316 x 72mm.

\*WHILE STOCKS LAST

| Code    | No.            | Contents                                                                                                  | For ball bearing No.                                                                                                                                                                                                        |  |
|---------|----------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 2964392 | 1101-1.29/3K * | 4 Heads with spindle no. 1.29/1-1.29/5<br>7 Heads with spindle no. 1.29/10-1.29/45<br>1 Handle no. 1.29/0 | 6000 6001 6002 6003 6004 6005 6006 6007 6008 6009 6010 6011 6012 6200 6201 6202 6203 6204 6205 6206 6207 6208 6209 6210 6211 6212 6213 6300 6301 6302 6303 6304 6305 6306 6307 6308 6309 6310 6311 6403 6404 6405 6406 6407 | 5.800                                                                               |

2.20  
Truck workshop puller kit



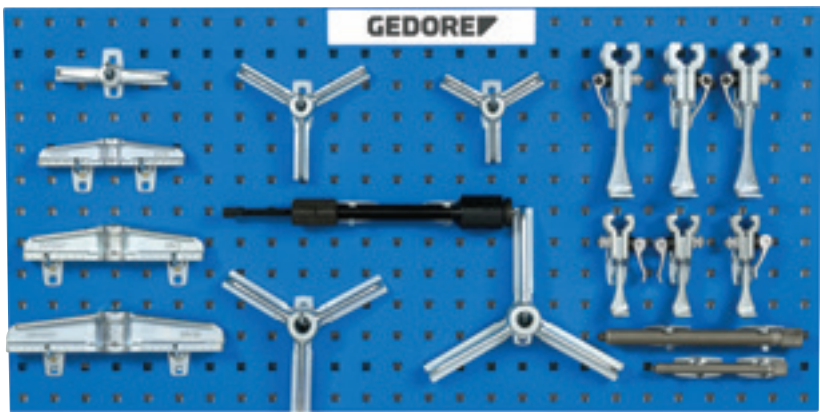
- > Clearly arranged modular system
- > Everything at hand on perforated wall-board

| Code    | No.     | Contents                                                                                                                                                                                                                 |  |
|---------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1088718 | 2.20LKW | 2-arm Cross Piece - 260mm<br>3-arm Cross Piece - 260mm<br>3 x Pulling Hooks - 100mm<br>3 x Pulling Hooks - 300mm<br>3 x Slim Pattern Pulling Hooks - 220mm<br>Spindle<br>Hydraulic Pressure Spindle<br>Bearing Separator | 23.300                                                                                |



## 2.30

Industrial puller kit



- For the assembly of 1.06 and 1.07 pullers.
- Clearly arranged modular system on pegboard.

| Code    | No.  | Contents                                                                                                                                                |  |
|---------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1393014 | 2.30 | 4 x 2-arm cross pieces 140 180 220 260mm<br>4 x 3-arm cross pieces 140 180 220 260mm<br>2 x Spindles<br>Hydraulic Pressure Spindle<br>6 x Pulling Hooks | 19.400                                                                              |

## 2.40

Construction machine puller kit



- For the assembly of 1.14 and 1.15 pullers.
- Clearly arranged modular system on pegboard.

| Code    | No.  | Contents                                                                                                                                                                |  |
|---------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1393030 | 2.40 | 2 x 2-arm Heads<br>2 x 3-arm Heads<br>3 x Pulling Hooks - 210mm<br>3 x Pulling Hooks - 260mm<br>3 x Pulling Hooks - 390mm<br>2 x Spindles<br>Hydraulic Pressure Spindle | 24.300                                                                                |



# APPRENTICE / ARTISAN TOOLKITS

GEDORE offers a wide range of custom toolkits to ensure that workers at every workplace have optimally adapted sets and the greatest flexibility in selecting the tools they need, GEDORE offers tool sets designed for use on motor vehicles, commercial vehicles, plumbing, electrical installations as well as sets tailored to Apprentices and Artisans needs.

Why not create your perfect tool assortment to match your corporate design requests and your process specifications.

All assortments are packed in high-density foam inserts or plastic references and will fit into an appropriate compartment of the GEDORE tool chests, trolleys or toolboxes.

Minimum quantities apply.

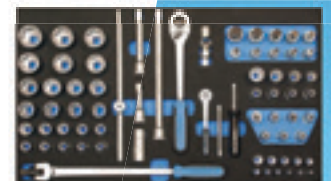


## ADVANTAGES

- Easy assessment of what tools to buy
- Spend less time 'looking for tools'.
- Tidier workplace.
- Easy identification and easy access of the correct tool.
- Easily check whether the toolset is complete.
- Elimination of unnecessary tool purchases – no surplus tool accumulation.



Plastic references



High-density foam



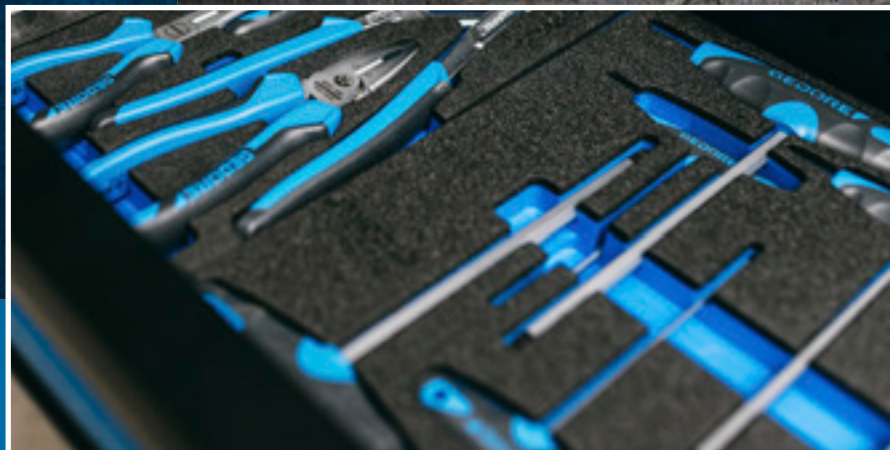




## SELECT SHEETMETAL

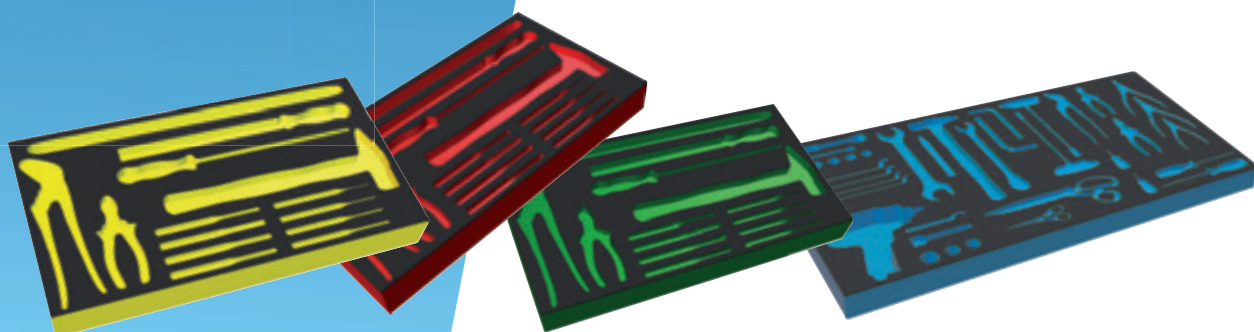
- Phosphated and powder coated to prevent corrosion
- Rigid, strong structure
- Ideal for the professional workshop

PRECISE  
CUSTOMISED



## CUSTOM COLOUR CHOICES

- Whether for mobile use or stationary, every tool has its place.
- Modular arrangement systems make daily routine that much easier (no more scratching for tools).
- Compact tool assortments make for easy tool selection.
- Customised equipment/tool sets in module systems and/or trolleys/benches in company design/colours.

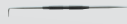


# APPRENTICE TOOLKITS

## i CONSTRUCTION MACHINERY TOOLKIT

For construction apprentices and tradesman



|                                                                                     |                                                                                                                                           |                                                                                     |                                           |                                                                                       |                                        |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
|  | <b>1525 Tool Trolley</b>                                                                                                                  |  | <b>8000-J2</b><br>Circclip Pliers         |  | <b>95-125, 150, 175</b><br>Flat Chisel |
|  | <b>1425 Tool Chest</b>                                                                                                                    |  | <b>8250-200 JC</b><br>Combination Pliers  |  | <b>116</b><br>Pin Punch Set            |
|  | <b>Foam Inserts</b> 1525-41-1B<br>1525-41-400 1525-41-403<br>1525-41-4550 1525-41-D32<br>1525-41-8601 1525-27-62<br>1525-27-PH 1525-27-PL |  | <b>8132-200 JC</b><br>Telephone Pliers    |  | <b>4550-20</b><br>Torque Wrench        |
|  | <b>62P</b> 150, 450mm<br>Adjustable Wrenches                                                                                              |  | <b>8316-200 JC</b><br>Side Cutters        |  | <b>702-21M</b><br>Feeler Gauge Set     |
|  | <b>145-10C</b><br>Universal Pliers                                                                                                        |  | <b>8531-250</b><br>Tin Snips              |  | <b>R93000006</b><br>Key File Set       |
|  | <b>137-250</b><br>Grip Pliers                                                                                                             |  | <b>8601-500, 900</b><br>Ball Pein Hammers |  | <b>R9455-05</b><br>Tape Measure - 5m   |
|  | <b>8000-A2</b><br>Circclip Pliers                                                                                                         |  | <b>248-ST</b><br>Recoil Free Hammer       |  | <b>Scriber-MS/ST-190mm</b>             |
|                                                                                     |                                                                                                                                           |  | <b>R9250</b><br>Rubber Mallet             |  | <b>Digital Multimeter</b>              |



1/4"

3/8"

1/2"

3/4"

Code

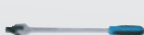
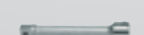
No.



668119

Construction Machinery Toolkit

145.530

**Caliper-Vernier** - 150x0.02mm**File Thread Restorer****403**  
Hacksaw**3081**  
L-Handle**3090-125, 250**  
Extensions**3019**  
Adapter**3095**  
Universal Joint**3087**  
Sliding T-bar**3093-Z94**  
Reversible Ratchet**1995**  
Universal Pliers**1990-75, 125, 250**  
Extensions**1985**  
Speed Brace**1987**  
Sliding T-bar**1997-375**  
Swivel Handle**1993-U10T**  
Reversible Ratchet**3295**  
Universal Joint 3/4"**3290-200, 400**  
Extensions**3287**  
Sliding T-bar**3293-U1**  
Reversible Ratchet**3296**  
Swivel Handle**R4510-50, 150mm**  
Extensions**R4520022**  
Sliding T-bar**R4530005**  
Universal Joint**R4000027**  
Reversible Ratchet**R4100 Sockets-4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14****D30 Sockets-8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 7/16 AF, 9/16 AF, 7/8 AF****C19 Sockets- 8-5/16, 10-3/8, 11, 12, 13-1/2, 14, 15-19/32, 16-5/8, 17, 18-11/16, 19-3/4, 21-13/16, 22, 24-15/16, 26-1., 27-1.1/16, 29-1.1/8, 30-1.3/16, 32-1.1/4****D19 Sockets- 5/16 AF, 3/8 AF, 7/16 AF, 1/2AF, 9/16 AF, 5/8 AF, 11/16 AF, 3/4 AF, 13/16 AF, 7/8 AF, 15/16 AF, 1 AF, 1.1/16 AF, 1.1/8 AF****C32 Sockets-19-3/4, 22-7/8, 24-15/16, 26-1, 27-1.1/16, 29-1.1/8, 30-1.3/16, 32-1.1/4, 33-1.5/16, 38-1.1/2, 41-1.5/8, 46-1.13/16, 50-2****D32 Sockets-1.3/8 AF, 1.7/16 AF, 1.11/16 AF, 1.3/4 AF, 1.7/8 AF****R4245 Male TX Sockets-T10, T15, T20, T25, T27, T30, T40****IKS 20 PZ Sockets-PZ 1, PZ 2, PZ 3****R4255 Allen Key Sockets-3, 4, 5, 6, 8, 10****IKS 20 PH Sockets-PH 0, PH 1, PH 2, PH 3****R4120 Female TX-E5, E6, E7, E8, E10****ITX19 TX Sockets-T20, T25, T27, T30, T40, T45, T50****TX19 TX Sockets-E10, E12****TX30 TX Sockets-E5, E6, E7, E8****IN19 Sockets-5/16 AF, 3/8 AF, 1/2 AF, 9/16 AF, 5/8 AF****1B Combination Spanners-6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32**

1.1/4AF, 1.5/16AF, 1.3/8AF, 1.1/2AF, 1.1/8 AF, 1.1/16 AF

**1B13A-1/4AF, 5/16AF, 3/8AF, 7/16AF, 1/2AF, 9/16AF, 5/8AF, 11/16AF, 3/4AF, 13/16AF, 7/8AF, 15/16AF, 1AF****400 Flare Nut Spanners-17x19, 22x24, 7/16x1/2, 9/16x5/8, 5/16x3/8****42L-9M Long Allen Keys Set-1.5, 2, 2.5, 3, 4, 5, 6, 8, 10****42-9P Allen Keys Set-1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8"****2150 3C Screwdriver**  
4 6.5 10**2160 3C Screwdriver**  
PH1 PH2 PH3

# MECHANIC'S TOOLKIT

For diesel, forklift, motor, tractor, motorcycle, diesel fuel injection mechanic, diesel fitter apprentices and tradesmen.



1/2"

| Code   | No.                | kg     |
|--------|--------------------|--------|
| 668036 | Mechanic's Toolkit | 41.500 |

|  |                                                                                                    |
|--|----------------------------------------------------------------------------------------------------|
|  | <b>1410 Tool Chest</b>                                                                             |
|  | <b>D19 Sockets-</b> 8, 10, 11, 12, 13, 14, 15, 16, 17, 19, 21, 22, 23, 24, 26, 27, 28, 30, 32      |
|  | <b>1B Combination Spanners-</b> 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24 |
|  | <b>534 Swivel Head Spanners-</b> 10, 11, 12, 13, 14, 15, 16, 17, 19                                |
|  | <b>62P</b> 200, 300mm Adjustable Wrenches                                                          |
|  | <b>8601-</b> 100, 700 Ball Pein Hammers                                                            |
|  | <b>248-ST</b> Recoil Free Hammer                                                                   |
|  | <b>42-88M-</b> 2, 2.5, 3, 4, 5, 6, 7, 8, 9, 10 Allen Keys Set                                      |
|  | <b>42-88P-</b> 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8" Allen Keys Set                  |
|  | <b>116</b> Pin Punch Set                                                                           |
|  | <b>2160</b> PH1 PH2                                                                                |
|  | <b>2150</b> 4 5.5 6.5 8 10                                                                         |
|  | <b>8531-</b> 250 Tin Snips                                                                         |
|  | <b>36/1</b> Oil Filter Wrench                                                                      |
|  | <b>Safety Glasses</b>                                                                              |
|  | <b>10pc Drill Bit Set</b>                                                                          |
|  | <b>Thread Restorer</b>                                                                             |
|  | <b>Flat File-</b> 250                                                                              |

|  |                                        |
|--|----------------------------------------|
|  | <b>Round File-</b> 250                 |
|  | <b>Half-Round File-</b> 250            |
|  | <b>100-</b> 16 Centre Punch            |
|  | <b>95-</b> 175, 200 Flat Chisel        |
|  | <b>Stainless Steel Ruler-</b> 300mm    |
|  | <b>Engineer's Square-</b> 100mm        |
|  | <b>Engineer's Scriber</b> 190mm        |
|  | <b>702-</b> 21M Feeler Gauge Set       |
|  | <b>403</b> Hacksaw                     |
|  | <b>8000-A2</b> Circip Pliers           |
|  | <b>8000-J2</b> Circip Pliers           |
|  | <b>8132-</b> 200 JC Telephone Pliers   |
|  | <b>8250-</b> 200 JC Combination Pliers |
|  | <b>8316-</b> 200 JC Side Cutters       |
|  | <b>145-</b> 10C Universal Pliers       |
|  | <b>137-</b> 250 Grip Pliers            |
|  | <b>Oil Can-</b> 300                    |
|  | <b>1993-Z94</b> Reversible Ratchet     |

|  |                                      |
|--|--------------------------------------|
|  | <b>1985</b> Feeler Gauge Set         |
|  | <b>1987</b> Speed Brace              |
|  | <b>1990-</b> 125, 250 Extensions     |
|  | <b>1995</b> Universal Joint          |
|  | <b>50-</b> 20, 8mm Spark Plug Socket |
|  | <b>54-</b> 16mm Spark Plug Socket    |

## Optional Extras

|  |                                                                    |
|--|--------------------------------------------------------------------|
|  | <b>95-</b> 300 Flat Chisel<br>Code: 8699370<br>kg 0.560            |
|  | <b>R94420021</b> Vernier<br>Code: 3301430<br>kg 0.320              |
|  | <b>R94550005-</b> 05M Tape Measure<br>Code: 3301428<br>kg 0.200    |
|  | <b>227-</b> 350 Pipe Wrench<br>Code: 645346<br>kg 1.62             |
|  | <b>Suction Lifter-</b> 19mm<br>Code: 0120130<br>kg 0.020           |
|  | <b>Suction Lifter-</b> 22mm<br>Code: 0120120<br>kg 0.020           |
|  | <b>Circuit Tester</b><br>Code: 0120100<br>kg 0.040                 |
|  | <b>Tyre Pressure Gauge</b><br>Code: 0120110<br>kg 0.120            |
|  | <b>400-</b> 5M Flare Nut Spanner Set<br>Code: 634026<br>kg 0.710   |
|  | <b>INX19</b> PM-5D Allen Key Socket Set<br>Code: 617989<br>kg 1.32 |

# AUTOMOTIVE ELECTRICIAN'S TOOLKIT



1/4"

1/2"

| Code   | No.                              |        |
|--------|----------------------------------|--------|
| 668028 | Automotive Electrician's Toolkit | 35.500 |

|  |                                                                                                |
|--|------------------------------------------------------------------------------------------------|
|  | <b>1410 Tool Chest</b>                                                                         |
|  | <b>1B Combination Spanners</b> -6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 |
|  | <b>R4900</b> 3046-46 Piece 1/4" Socket Set                                                     |
|  | <b>Tube Spanner Set</b> -8x9, 10x11, 12x13, 14x15, 16x17, 18x19                                |
|  | <b>26-RS2</b><br>To be used with Tube Spanner Set                                              |
|  | <b>42-88M Allen Keys Set</b> -2, 2.5, 3, 4, 5, 6, 8, 10                                        |
|  | <b>42-88P Allen Keys Set</b> -3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8"              |
|  | <b>2160</b><br>PH1 PH2                                                                         |
|  | <b>2150</b><br>4 5.5 6.5 8                                                                     |
|  | <b>116</b><br>Pin Punch Set                                                                    |
|  | <b>100</b> -10, 16<br>Centre Punches                                                           |
|  | <b>8601-700</b><br>Ball Pein Hammer                                                            |
|  | <b>267-40</b><br>Recoil Free Hammer                                                            |
|  | <b>Circuit Tester</b>                                                                          |
|  | <b>8132-160 JC</b><br>Telephone Pliers                                                         |

|  |                                              |
|--|----------------------------------------------|
|  | <b>8250-200 JC</b><br>Combination Pliers     |
|  | <b>8316-160 JC</b><br>Side Cutters           |
|  | <b>8132AB-160 TL</b><br>Telephone Pliers     |
|  | <b>145-10C</b><br>Universal Pliers           |
|  | <b>62P 200</b><br>Adjustable Wrench          |
|  | <b>Heavy Duty Crimping Pliers</b>            |
|  | <b>8516-250</b><br>Tin Snips                 |
|  | <b>Wire Stripper</b>                         |
|  | <b>Digital Multimeter</b>                    |
|  | <b>Stainless Steel Ruler-300</b>             |
|  | <b>R93210000</b><br>Heavy-Duty Utility Knife |
|  | <b>403</b><br>Hacksaw                        |
|  | <b>Safety Glasses</b>                        |
|  | <b>Engineer's Scriber</b>                    |
|  | <b>Box Wrench Set-8 Piece</b>                |

|  |                                                             |
|--|-------------------------------------------------------------|
|  | <b>Needle File Set-6 Piece</b>                              |
|  | <b>95-300 Flat Chisel</b><br>Code: 8699370<br>0.400         |
|  | <b>95-200 Flat Chisel</b><br>Code: 8698990<br>0.400         |
|  | <b>Junior Hacksaw</b><br>Code: 3012000<br>0.100             |
|  | <b>134-250 Grip Pliers</b><br>Code: 745995<br>0.570         |
|  | <b>R94420021 Vernier</b><br>Code: 3301430<br>0.320          |
|  | <b>R94550005-05M Tape Measure</b><br>Code: 3301428<br>0.200 |
|  | <b>1985 Speed Brace</b><br>Code: 614335<br>0.585            |
|  | <b>50-20.8mm Spark Plug Socket</b><br>Code: 636614<br>0.119 |
|  | <b>54-16mm Spark Plug Socket</b><br>Code: 636622<br>0.096   |
|  | <b>702-21M Feeler Gauge Set</b><br>Code: 6547950<br>0.070   |
|  | <b>D19HMZ Socket Set</b><br>Code: 614610<br>1.93            |
|  | <b>10pc Drill Bit Set</b><br>Code: 0120000<br>0.510         |

## Optional Extras



# ELECTRICIAN'S & REFRIGERATION MECHANIC'S TOOLKIT



1/4"

1/2"

| Code   | No.                                              |  |        |
|--------|--------------------------------------------------|--|--------|
| 668001 | Electrician's & Refrigeration Mechanic's Toolkit |  | 38.500 |

|  |                                                                                                |
|--|------------------------------------------------------------------------------------------------|
|  | <b>1410 Tool Chest</b>                                                                         |
|  | <b>1B Combination Spanners</b> -6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 |
|  | <b>R49003046-46 Piece 1/4\" Socket Set</b>                                                     |
|  | <b>D19HMZ</b><br>Socket Set                                                                    |
|  | <b>42-88M Allen Keys Set</b> -2, 2.5, 3, 4, 5, 6, 8, 10                                        |
|  | <b>42-88P Allen Keys Set</b> -3/32\", 1/8\", 5/32\", 3/16\", 7/32\", 1/4\", 5/16\", 3/8\"      |
|  | <b>2160</b><br>PH1 PH2                                                                         |
|  | <b>2150</b><br>4 5.5 6.5 8                                                                     |
|  | <b>116</b><br>Pin Punch Set                                                                    |
|  | <b>100-16</b><br>Centre Punches                                                                |
|  | <b>Flat File</b> -250                                                                          |
|  | <b>Round File</b> -250                                                                         |
|  | <b>Half-Round File</b> -250                                                                    |
|  | <b>8132-200 JC</b><br>Telephone Pliers                                                         |
|  | <b>8250-200 JC</b><br>Combination Pliers                                                       |

|  |                                              |
|--|----------------------------------------------|
|  | <b>8316-200 JC</b><br>Side Cutters           |
|  | <b>8601-100, 700</b><br>Ball Pein Hammers    |
|  | <b>248-ST</b><br>Recoil Free Hammer          |
|  | <b>145-10C</b><br>Universal Pliers           |
|  | <b>62P 200, 300</b><br>Adjustable Wrenches   |
|  | <b>Heavy Duty Crimping Pliers</b>            |
|  | <b>Wire Stripper</b>                         |
|  | <b>Digital Multimeter</b>                    |
|  | <b>Stainless Steel Ruler</b> -300            |
|  | <b>R93210000</b><br>Heavy-Duty Utility Knife |
|  | <b>403</b><br>Hacksaw                        |
|  | <b>Safety Glasses</b>                        |
|  | <b>Engineer's Scriber</b>                    |
|  | <b>Box Wrench Set</b> -8 Piece               |
|  | <b>137-250</b><br>Grip Pliers                |

|  |                              |
|--|------------------------------|
|  | <b>Circuit Tester</b>        |
|  | <b>95-100</b><br>Flat Chisel |

## Optional Extras

|  |                                                             |
|--|-------------------------------------------------------------|
|  | <b>95-200 Flat Chisel</b><br>Code: 8698990<br>0.400         |
|  | <b>Engineer's Square</b><br>Code: 0110200<br>0.133          |
|  | <b>R94100051 Spirit Level</b><br>Code: 3301422<br>0.170     |
|  | <b>227-350 Pipe Wrench</b><br>Code: 645346<br>1.62          |
|  | <b>R94420021 Vernier</b><br>Code: 3301430<br>0.320          |
|  | <b>R94550005-05M Tape Measure</b><br>Code: 3301428<br>0.200 |
|  | <b>8000-A2 Circlip Pliers</b><br>Code: 6701540<br>0.167     |
|  | <b>8000-J2 Circlip Pliers</b><br>Code: 6703400<br>0.146     |

# APPRENTICE TRUNK TOOLKIT



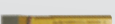
1/2"

3/8"

3/4"

➤ 4x Sliding trays with high-density foam inserts.

| Code   | No.                      |        |
|--------|--------------------------|--------|
| 668109 | Apprentice Trunk Toolkit | 48.630 |

|                                                                                     |                                                                                                               |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
|    | <b>1460 Tool Trunk</b>                                                                                        |
|    | <b>1B</b> 6, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 34, 36 |
|  | <b>1B</b> 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 7/8, 15/16, 1, 1.1/16, 1.1/8, 1.3/16, 1.1/4       |
|  | <b>8250-200 JC</b><br>Combination Pliers                                                                      |
|  | <b>8132-200 JC</b><br>Telephone Pliers                                                                        |
|  | <b>8316-200 JC</b><br>Side Cutters                                                                            |
|  | <b>8000-A2</b><br>Circlip Pliers                                                                              |
|  | <b>8000-J2</b><br>Circlip Pliers                                                                              |
|  | <b>137-250</b><br>Grip Pliers                                                                                 |
|  | <b>145-10C</b><br>Universal Pliers                                                                            |
|  | <b>116</b><br>Pin Punch Set                                                                                   |
|  | <b>100-16</b><br>Centre Punches                                                                               |
|  | <b>Flat File-250</b>                                                                                          |

|                                                                                     |                                                           |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------|
|    | <b>4550-20</b><br>Torque Wrench                           |
|    | <b>403</b><br>Hacksaw                                     |
|  | <b>8601-100</b><br>Ball Pein Hammers                      |
|  | <b>D32-EMZ</b><br>3/4" Socket Set                         |
|  | <b>2160</b><br>PH1 PH2                                    |
|  | <b>2150</b><br>6.5 3-150 4-150 6.5-200                    |
|  | <b>42KL-9M</b><br>1,5 2 2,5 3 4 5 6 8 10                  |
|  | <b>702-21M</b><br>Feeler Gauge Set                        |
|  | <b>D30</b><br>6 7 8 9 10 11 12 13 14 15 16 17 18 19 21 22 |
|  | <b>3081</b><br>L-Handle                                   |
|  | <b>3090 Extension</b><br>125mm                            |
|  | <b>3093Z-94</b><br>Ratchet                                |
|  | <b>1993Z-94</b><br>Reversible Ratchet                     |

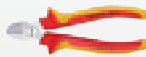
|                                                                                       |                                                                                              |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|    | <b>D19 Sockets</b> 8, 10, 11, 12, 13, 14, 15, 16, 17, 19, 21, 22, 23, 24, 26, 27, 28, 30, 32 |
|    | <b>1997-450</b><br>Power Bar                                                                 |
|  | <b>1987</b><br>Sliding T-Bar                                                                 |
|  | <b>1990 Extensions</b><br>125, 250mm                                                         |



# STUDENT ELECTRICIAN'S TOOLKIT



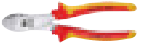
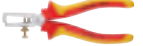
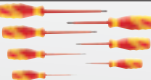
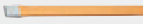
| Code   | No.                           |  |
|--------|-------------------------------|-------------------------------------------------------------------------------------|
| 679465 | Student Electrician's Toolkit | 28.00                                                                               |

|                                                                                                             |                                        |                                                                                     |                                    |
|-------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------------------------------------------------|------------------------------------|
|                             | 1335 Tool Box                          |    | REF I-D19 ASS                      |
|                            | Engineers Square - 100mm               |    | 8000 - A 1 Circlip pliers          |
|                            | Measuring Rule - 300mm                 |    | 8000 - J 1 Circlip Pliers          |
|                            | 8280 E - 200 Electrician Plier         |  | 8531 / 250 Tin Snips               |
|                          | Engineers Scriber - 190mm              |  | 95 - 200 Flat Chisel               |
|                          | 403 Hacksaw                            |  | 100 - 10 Centre Punch              |
|                          | DV026C Safety Glasses                  |  | 116A Pin Punch Set                 |
|                           | Engin.ball pein hammer 300g fibreglass |  | VDE 8316 - 200H Side Cutter        |
|                          | Tape measure 1.5m tape-w.19mm class.II |  | VDE 8098-160H Stripping Plier      |
|                          | 42 9P Allen Key Set                    |  | VDE 8132-160H Telephone Plier      |
|                          | 42 100M Allen Key Set                  |  | VDE 8314 - 140H Side Cutter        |
|  | 62/300mm - P12" Adjustable Wrench      |  | VDE 2170-2160 PH06 Screwdriver Set |
|                          | 142 10TL Universal Plier               |                                                                                     |                                    |

# MILLWRIGHT TOOLKIT



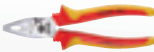
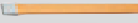
| Code   | No.                |  |
|--------|--------------------|-------------------------------------------------------------------------------------|
| 679460 | Millwright Toolkit | 29.00                                                                               |

|                                                                                     |                                          |                                                                                                             |                                   |
|-------------------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------|
|    | 1335 Tool Box                            |                            | 1B / 18M Comb. Spanner Set        |
|    | Engineers Square - 100mm                 |                            | 42 9P Allen Key Set               |
|    | Measuring Rule - 300mm                   |                            | 42 100M Allen Key Set             |
|   | Spring Dividers - 150mm                  |  | 62/300mm - P12" Adjustable Wrench |
|  | 8280 E - 200 Electrician Plier           |                          | 137 / 250 Grip Plier              |
|  | Engineers Scriber - 190mm                |                          | 142 10TL Universal Plier          |
|  | 403 Hacksaw                              |                          | 227/350 Pipe Wrench               |
|  | VDE 8316 - 200H Side Cutter              |                          | 702 13 A Feeler Gauge Set         |
|  | VDE 8098-160H Stripping Plier            |                          | REF I-D19 ASS                     |
|  | VDE 8122-160H Round Nose Plier           |                          | 8000 - A 1 Circlip pliers         |
|  | VDE 8132-160H Telephone Plier            |                          | 8000 - J 1 Circlip Pliers         |
|  | VDE 2170-2160 PH06 Screwdriver Set       |                          | 8531 / 250 Tin Snips              |
|  | DV026C Safety Glasses                    |                          | 95 - 200 Flat Chisel              |
|  | Engin.ball pein hammer 300g fibreglass   |                          | 100 - 10 Centre Punch             |
|  | Tape measure 1.5m tape-w.19mm class.II   |                          | 116A Pin Punch Set                |
|  | Prof.cutter knife 5xblade multi-C-handle |                          | 248 ST - 40mm Recoil Free Hammer  |
|  | 1B/26M TOOL WRAP                         |                                                                                                             |                                   |

# STUDENT BOILER MAKER TOOLKIT



| Code   | No.                          |       |
|--------|------------------------------|-------|
| 679505 | Student Boiler Maker Toolkit | 28.50 |

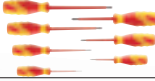
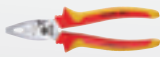
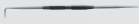
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|-------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------|
|    | 1335 Tool Box                          |                             | 403 Hacksaw                       |
|    | 100 - 10 Centre Punch                  |                            | 2150-2160 PH -06 MS S/Driver Set  |
|   | 116A Pin Punch Set                     |  | 62/300mm - P12" Adjustable Wrench |
|  | 8601 / 300 Ball Pein Hammer            |                           | DV026C Safety Glasses             |
|  | 248 ST - 40mm Recoil Free Hammer       |                           | 227/300 Pipe Wrench               |
|  | Measuring Rule - 300mm                 |                           | Engineers Scriber - 190mm         |
|  | Tape measure 1.5m tape-w.19mm class.II |                                                                                                              |                                   |
|  | Spring Dividers - 150mm                |                                                                                                              |                                   |
|  | VDE 8250-200H Comb Plier               |                                                                                                              |                                   |
|  | 8380 - 250 TL Tower Pincer             |                                                                                                              |                                   |
|  | 137 / 250 Grip Plier                   |                                                                                                              |                                   |
|  | VDE 8316 - 200H Side Cutter            |                                                                                                              |                                   |
|  | 1B / 08M Comb. Spanner Set             |                                                                                                              |                                   |
|  | 42 100M Allen Key Set                  |                                                                                                              |                                   |
|  | 95 - 200 Flat Chisel                   |                                                                                                              |                                   |



# STUDENT MEGATRONICS TOOLKIT



| Code   | No.                         |       |
|--------|-----------------------------|-------|
| 679500 | Student Megatronics Toolkit | 27.90 |

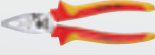
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|-------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------------------|
|    | 1335 Tool Box                          |                             | 137 / 250 Grip Plier               |
|    | 100 - 10 Centre Punch                  |                             | VDE 8316 - 200H Side Cutter        |
|   | 116A Pin Punch Set                     |                             | 1B / 18M Comb. Spanner Set         |
|  | 8601 / 300 Ball Pein Hammer            |                            | D19 MK Socket Set                  |
|  | 248 ST - 40mm Recoil Free Hammer       |                           | 1993U-10T Reversible Ratchet       |
|  | Engineers Square -100mm                |                           | 42 100M Allen Key Set              |
|  | Measuring Rule - 300mm                 |                           | 42 9P Allen Key Set                |
|  | Tape measure 1.5m tape-w.19mm class.II |                           | 95 - 200 Flat Chisel               |
|  | 702 13 A Feeler Gauge Set              |                           | 403 Hacksaw                        |
|  | Spring Dividers - 150mm                |                           | VDE 2170-2160 PH06 Screwdriver Set |
|  | VDE 8250-200H Comb Plier               |  | 62/300mm - P12" Adjustable Wrench  |
|  | 8000 - J 1 Cirdlip Pliers              |                           | DV026C Safety Glasses              |
|  | 8000 - A 1 Cirdlip pliers              |                           | 227/300 Pipe Wrench                |
|  | VDE 8314 - 140H Side Cutter            |                           | 2133 10 Nutdriver                  |
|  | VDE 8132-160H Telephone Plier          |                           | Engineers Scriber - 190mm          |
|  | 142 10TL Universal Plier               |                           | 8531 / 250 Tin Snips               |

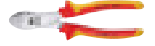


# STUDENT DIESEL MECHANIC TOOLKIT



| Code   | No.                             |       |
|--------|---------------------------------|-------|
| 679470 | Student Diesel Mechanic Toolkit | 30.00 |

|                                                                                     |                                        |
|-------------------------------------------------------------------------------------|----------------------------------------|
|    | 1335 Tool Box                          |
|     | 100 - 10 Centre Punch                  |
|   | 116A Pin Punch Set                     |
|  | 8601 / 300 Ball Pein Hammer            |
|  | 8601 / 700 Ball Pein Hammer            |
|  | 248 ST - 40mm Recoil Free Hammer       |
|  | Engineers Square - 100mm               |
|  | Measuring Rule - 300mm                 |
|  | Tape measure 1.5m tape-w.19mm class.II |
|  | 702 13 A Feeler Gauge Set              |
|  | Spring Dividers - 150mm                |
|  | VDE 8250-200H Comb Plier               |
|  | 8000 - J 1 Circlip Pliers              |
|  | 8000 - J 11 Circlip Pliers             |
|  | 8000 - A 1 Circlip pliers              |
|  | 8000 - A 11 Circlip Pliers             |

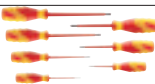
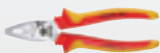
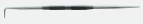
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|--------------------------------------------------------------------------------------------------------------|-----------------------------------|
|                             | VDE 8132-160H Telephone Plier     |
|                             | 142 10TL Universal Plier          |
|                             | 137 / 250 Grip Plier              |
|                           | VDE 8316 - 200H Side Cutter       |
|                           | 1B / 26M Comb. Spanner Set        |
|                           | D19 MK Socket Set                 |
|                           | 1993U-10T Reversible Ratchet      |
|                           | 20 EMZ Socket Set                 |
|                           | 42 100M Allen Key Set             |
|                           | 95 - 200 Flat Chisel              |
|                           | 139 - 450X19 Pry Bar              |
|                           | 403 Hacksaw                       |
|                           | 2150-2160 PH -06 MS S/Driver Set  |
|  | 62/300mm - P12" Adjustable Wrench |
|                           | DV026C Safety Glasses             |

|                                                                                      |                           |
|--------------------------------------------------------------------------------------|---------------------------|
|   | 227/300 Pipe Wrench       |
|   | Engineers Scriber - 190mm |
|  | 4611 Power Testing S/Dr   |

# STUDENT FITTER TOOLKIT



| Code   | No.                    |       |
|--------|------------------------|-------|
| 679490 | Student Fitter Toolkit | 28.00 |

|                                                                                     |                                        |                                                                                                              |                                    |
|-------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------------------|
|    | 1335 Tool Box                          |                             | 1B / 18M Comb. Spanner Set         |
|    | 100 - 10 Centre Punch                  |                             | D19 MK Socket Set                  |
|   | 116A Pin Punch Set                     |                             | 1993U-10T Reversible Ratchet       |
|  | 8601 / 300 Ball Pein Hammer            |                           | 42 100M Allen Key Set              |
|  | 248 ST - 40mm Recoil Free Hammer       |                           | 42 9P Allen Key Set                |
|  | Engineers Square - 100mm               |                           | 95 - 200 Flat Chisel               |
|  | Measuring Rule - 300mm                 |                           | 403 Hacksaw                        |
|  | Tape measure 1.5m tape-w.19mm class.II |                           | VDE 2170-2160 PH06 Screwdriver Set |
|  | 702 13 A Feeler Gauge Set              |  | 62/300mm - P12" Adjustable Wrench  |
|  | Spring Dividers - 150mm                |                           | DV026C Safety Glasses              |
|  | VDE 8250-200H Comb Plier               |                           | 227/300 Pipe Wrench                |
|  | 8000 - J 1 Cirdclip Pliers             |                           | Engineers Scriber - 190mm          |
|  | 8000 - A 1 Cirdclip pliers             |                           | 8531 / 250 Tin Snips               |
|  | VDE 8132-160H Telephone Plier          |                                                                                                              |                                    |
|  | 142 10TL Universal Plier               |                                                                                                              |                                    |
|  | 137 / 250 Grip Plier                   |                                                                                                              |                                    |

# ARTISANS TOOLKITS

## ELECTRICIAN'S LIGHT CURRENT TOOLKIT



| Code   | No.                                 |        |
|--------|-------------------------------------|--------|
| 668110 | Electrician's Light Current Toolkit | 32.200 |

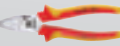
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|-------------------------------------------------------------------------------------|--------------------------------------------------------------|
|  | <b>1410 Tool Chest</b>                                       |
|  | <b>1B Combination Spanners-6, 7, 8, 9, 10, 11, 12, 13</b>    |
|  | <b>62P 150 Adjustable Wrench</b>                             |
|  | <b>42-88M Allen Keys Set-2, 2.5, 3, 4, 5, 6, 7, 8, 9, 10</b> |
|  | <b>60CP-250 Adjustable Wrench</b>                            |
|  | <b>2150 6.5 3-150 4-150 6.5-200</b>                          |
|  | <b>2160 PH1 PH2</b>                                          |
|  | <b>145-10C Universal Pliers</b>                              |
|  | <b>Junior Hacksaw</b>                                        |
|  | <b>137-250 Grip Pliers</b>                                   |
|  | <b>8133-180 JC Telephone Pliers</b>                          |
|  | <b>8250-200 JC Combination Pliers</b>                        |

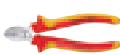
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|-------------------------------------------------------------------------------------|-----------------------------------|
|  | <b>8316-160 JC Side Cutters</b>   |
|  | <b>Universal Panel Key</b>        |
|  | <b>Digital Multimeter</b>         |
|  | <b>Wire Stripper</b>              |
|  | <b>8601-500</b>                   |
|  | <b>R94550005-05M Tape Measure</b> |
|  | <b>403 Hacksaw</b>                |
|  | <b>R95300017 LED Torch</b>        |
|  | <b>R9321 Utility Knife</b>        |

# ELECTRICIAN'S MEDIUM CURRENT TOOLKIT



| Code   | No.                                  |        |
|--------|--------------------------------------|--------|
| 668113 | Electrician's Medium Current Toolkit | 32.200 |

|                                                                                     |                                                           |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------|
|  | <b>1410 Tool Chest</b>                                    |
|  | <b>1B Combination Spanners-6, 7, 8, 9, 10, 11, 12, 13</b> |
|  | <b>62P 150, 300mm Adjustable Wrenches</b>                 |
|  | <b>42-88M Allen Keys Set-2, 2.5, 3, 4, 5, 6, 8, 10</b>    |
|  | <b>Circuit Voltage Tester</b>                             |
|  | <b>VDE 2133 Nut Drivers 6, 7, 8, 9, 10, 11, 12, 13</b>    |
|  | <b>VDE 2160 PH1 PH2</b>                                   |
|  | <b>VDE 2170 3.5 4 5.5 6.5</b>                             |
|  | <b>145-10C Universal Pliers</b>                           |
|  | <b>Junior Hacksaw</b>                                     |
|  | <b>137-250 Grip Pliers</b>                                |
|  | <b>VDE 8132-160 H Telephone Pliers</b>                    |
|  | <b>VDE 8250-200 H Combination Pliers</b>                  |

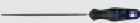
|                                                                                     |                                   |
|-------------------------------------------------------------------------------------|-----------------------------------|
|  | <b>VDE 8314-140 H Side Pliers</b> |
|  | <b>Universal Panel Key</b>        |
|  | <b>Digital Multimeter</b>         |
|  | <b>Wire Stripper</b>              |
|  | <b>8601-500 Ball Pein Hammer</b>  |
|  | <b>R94550005-05M Tape Measure</b> |
|  | <b>403 Hacksaw</b>                |
|  | <b>R95300017 LED Torch</b>        |
|  | <b>VDE 4522 Cable Knife</b>       |
|  | <b>Heavy-Duty Crimping Pliers</b> |
|  | <b>D19HMZ Socket Set</b>          |



# FARMER'S TOOLKIT



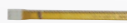
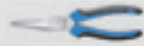
| Code   | No.              | kg     |
|--------|------------------|--------|
| 668111 | Farmer's Toolkit | 32.400 |

|                                                                                     |                                                                                            |                                                                                     |                           |                                                                                       |                           |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------|---------------------------------------------------------------------------------------|---------------------------|
|  | 1335 Tool Box                                                                              |  | Leather Gloves            |  | 50-20.8 Spark Plug Socket |
|  | 1B Combination Spanners-6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24 |  | Digital Multimeter        |  | 95-250 Flat Chisel        |
|  | 62P 300 Adjsutable Wrench                                                                  |  | 8531-250 Tin Snips        |  | 702-20M Feeler Gauge Set  |
|  | 42-88M Allen Keys Set-2, 2.5, 3, 4, 5, 6, 7, 8, 9, 10                                      |  | 8601-900 Ball Pein Hammer |  | 38-500 Tyre Lever         |
|  | 403 Hacksaw                                                                                |  | R9455-05 Tape Measure     |  | 106 Chisel and Punch Set  |
|  | 2150 4 5.5 6.5 8                                                                           |  | Yale Padlock              |  | C19TMZ Socket Set 1/2"    |
|  | 2160 PH1 PH2                                                                               |  | R95300017 LED Torch       |  | R9321 Utility Knife       |
|  | 145-10C Universal Pliers                                                                   |  | Fencing Pliers 8260-300   |  | 227-350 Pipe Wrench       |
|  | Junior Hacksaw                                                                             |  | Flat File-250             |                                                                                       |                           |
|  | 137-250 Grip Pliers                                                                        |  | Round File-250            |                                                                                       |                           |
|   | 8132-200 JC Telephone Pliers                                                               |  | Half-Round File-250       |                                                                                       |                           |
|  | 8250-200 JC Combination Pliers                                                             |                                                                                     |                           |                                                                                       |                           |
|  | 8316-200 JC Side Cutters                                                                   |                                                                                     |                           |                                                                                       |                           |

# GENERAL ARTISAN'S TOOLKIT



| Code   | No.                       |  |
|--------|---------------------------|-------------------------------------------------------------------------------------|
| 668112 | General Artisan's Toolkit | 42.000                                                                              |

|                                                                                     |                                                                                            |                                                                                     |                             |                                                                                                         |                                    |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------|------------------------------------|
|  | 1410 Tool Chest                                                                            |  | Flat File-250               |                    | Engineer's Scriber                 |
|  | 1B Combination Spanners-6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24 |  | Round File-250              |                    | Safety Glasses                     |
|  | 62P 300 Adjustable Wrench                                                                  |  | Half-Round File-250         |                    | Engineer's Square                  |
|  | 42-88M Allen Keys Set-2, 2.5, 3, 4, 5, 6, 8, 10                                            |  | 8601-700 Ball Pein Hammers  |                    | 116 Pin Punch Set                  |
|  | 8133-180 JC Triple Pliers                                                                  |  | R9455-05 Tape Measure       |  | R49003046-46 Piece 1/4" Socket Set |
|   | 2150 4 5.5 6.5 8                                                                           |  | 267-40 Recoil Free Hammer   |                    | Vernier                            |
|  | 2160 PH1 PH2                                                                               |  | R95300017 LED Torch         |                    | 95-250 Flat Chisel                 |
|  | 145-10C Universal Pliers                                                                   |  | 8531-250 Tin Snips          |                    | 100-16 Centre Punch                |
|  | 403 Hacksaw                                                                                |  | 50-20.8 Spark Plug Socket   |                                                                                                         |                                    |
|  | 137-250 Grip Pliers                                                                        |  | C19HMZ Socket Set 1/2"      |                                                                                                         |                                    |
|  | 8132-200 JC Telephone Pliers                                                               |  | 227-350 Pipe Wrench         |                                                                                                         |                                    |
|  | 8250-200 JC Combination Pliers                                                             |  | R9321 Utility Knife         |                                                                                                         |                                    |
|  | 8316-200 JC Side Cutters                                                                   |  | Stainless Steel Ruler-300mm |                                                                                                         |                                    |

# TECHNICIAN'S RUCKSACK TOOLKIT



| Code   | No.                           |
|--------|-------------------------------|
| 668120 | Technician's Rucksack Toolkit |

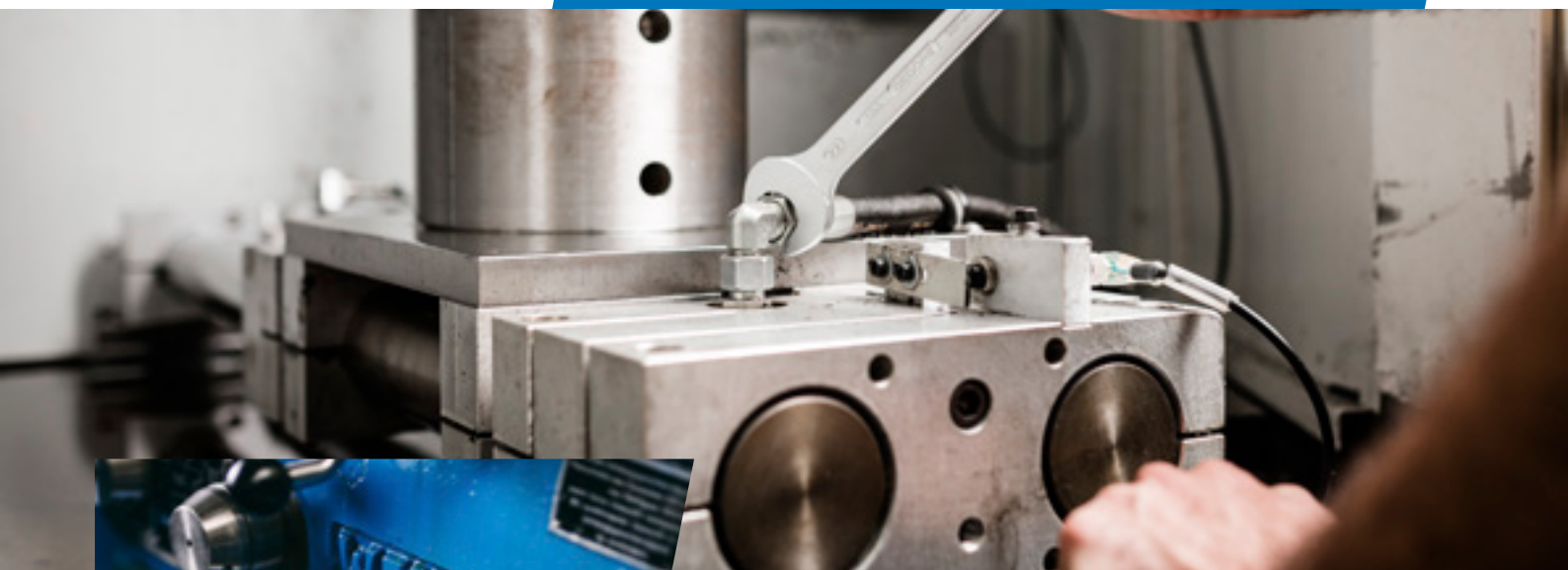
| kg    |
|-------|
| 8.610 |

|                                                                                     |                                                                             |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
|  | Gedore Rucksack                                                             |
|  | No.6 Open-Ended Spanners-6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22 |
|  | 62P-200 Adjustable Wrench                                                   |
|  | 42-7M Allen Keys Set-2, 2.5, 3, 4, 5, 6, 8                                  |
|  | 2150 6.5 3-150 4-150 6.5-200                                                |
|  | 2160 PH1 PH2                                                                |
|  | 145-10C Universal Pliers                                                    |
|  | Leather Gloves                                                              |

|                                                                                     |                                |
|-------------------------------------------------------------------------------------|--------------------------------|
|  | 8250-200 JC Combination Pliers |
|  | 8316-200 JC Side Cutters       |
|  | R9321 Utility Knife            |
|  | SRC-C19Z-10 Socket Set 1/2"    |
|  | R95300017 LED Torch            |
|  | 8601-500 Ball Pein Hammer      |

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## OUR TORQUE WRENCH SERVICE - QUALIFIED AND CUSTOMISED

### Warranty

In terms of GEDORE'S warranty policy, all torque wrenches are covered by a lifetime guarantee against defective materials and workmanship. Provided that the tool has been correctly used for its intended purpose and allowances have been made for the wear and tear of moving parts, the torque wrench will be repaired free of charge.

The warranty does not cover torque wrenches which have been misused or which have experienced wear and tear through extensive use.

A warranty return will be assessed by our technical staff and if the return falls outside of our warranty policy, the customer will be notified and quoted for the repair.

### Calibration

A standard calibration and the issue of a test certificate will be provided as standard practice on any repair conducted.

A SANAS calibration and the issue of a SANAS calibration certificate will be done on request at an additional nominal charge.

Please note that the torque wrench is an item of measuring equipment.

#### We recommend

- Calibration once a year (DIN EN ISO 6789:2003)  
or after 5000 load cycles (DIN EN ISO 6789:2003)

#### Your advantage

- Torque wrench offers measurement accuracy.
- Free calibration service at GEDORE SA.

Regular calibration, adjustment and certification. Why is this so important?

- This us allows us to guarantee the precision and reliability of our torque tools in the long term. We attach a great deal of importance to this as your safety is of the utmost importance.
- We offer you the safety you require for everyday controlled tightening.

**GEDORE - competent control at the highest level**

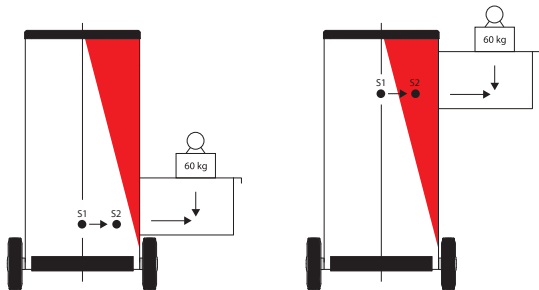


# WE TAKE **YOUR HEALTH AND SAFETY** SERIOUSLY.

To ensure that you use our tools safely, please familiarise yourself with the following information.\*

## Why should heavy tools be stored in the bottom drawer?

- Always store the heaviest tools in the bottom (heavy duty) drawer.
- When the bottom drawer is opened, the centre of gravity is relocated to a safe range.
- Storing heavy tools in the upper drawers relocates the centre of gravity upwards.
- When the drawer is opened, the centre of gravity is relocated to a critical range.
- This makes the tool trolley very susceptible to lateral forces. If the trolley is exposed to lateral forces such as impact, it can overturn.
- Always observe the load capacity for each drawer to ensure that you always stay in the safe range.
- S 1 = tool trolley centre of gravity when the drawer is closed
- S 2 = tool trolley centre of gravity when the drawer is opened
- Red = critical range danger of overturning



## General

- Always wear safety goggles for tasks involving chips or the possibility of parts splintering.
- Only use the hand tools for their intended purpose.
- Never modify or tamper with tools. Exceptions: Professional regrinding of chisels, scrapers, cutting tools as well as hammer edges.
- Never work with damaged tools. Damaged tools must be replaced immediately.
- Handles must be free of oil and grease.
- Depending on the task, protect your hands by wearing work gloves.
- Work on live circuits may only be performed by qualified personnel using suitable VDE tools.
- Choose a safe surface to ensure stability. Wear safety shoes.
- Wear the specified ear protection when working in noisy environments.



## Tool trolley

- Read the operating instructions.
- Open only one drawer at a time, when more than one drawer is open it increases the chance of the trolley tipping over.
- Always keep the heaviest tools in the lower (heavy) drawer. Storage in the top drawers increases the chance of the trolley tipping over.
- Take note of the permissible load capacity of each drawer and the total carrying capacity of the trolley.
- Never store pointed or sharp items loosely in the tool chest. Scribers can be made safe by pushing a cork on to the pointed ends.
- Only move the trolley when all the drawers are closed and locked.
- When the trolley is stationary always set the safety brake on the swivel castors to avoid movement.



## Tool chests

- Do not climb or step on to the tool chest.
- Never store pointed or sharp items loosely in the tool chest. Scribers can be made safe by pushing a cork on to the pointed ends.
- To avoid injury keep your back straight and lift from your knees when attempting to lift the tool chest.



## Spanners

- Only use spanner sizes and profiles which fit the bolt or nut head.
- Do not use spanners as levers or as striking tools.
- Select the spanner in accordance with the screwed connection. This applies particularly to screwed connections with high torques.
- Never extend the tool lever arm except when the tools are designed especially for this purpose, e.g. single ended ring spanners.
- Never hit a spanner with a hammer except when the tools have an area designed especially for this purpose, e.g. slogging spanners.
- Always apply the spanner at a right angle to the bolt axis.
- Always pull the spanner towards you. Never push the spanner away from you. If for any reason you can only press the spanner away from you, use your open hand to prevent injuring your knuckles.
- Ring spanners transmit the forces more consistently. Ring spanners are therefore more suitable for large torques.
- Apply open ended spanners in such a way that the angle of the jaw is facing in the direction of rotation.
- If a torque is required for the screwed connection, use a torque wrench.
- Never work with damaged spanners or attempt to repair them, rather replace them.



## Screwdrivers

- Choose the screwdriver which is suitable for the respective bolt head profile.
- Place the workpiece on a ledge or clamp it. This helps to avoid injuries incurred by sliding blades.
- Avoid cuts by directing the requisite pressure for releasing or tightening the bolt head away from your body.
- Wear protective gloves when working with screwdrivers.
- If the screwdriver is too long, do not under any circumstances shorten the blade or handle. Choose a shorter screwdriver.
- Do not use the screwdriver as a caulking or crushing tool.
- Light hammer impact may only be applied for loosening screws using suitable screwdrivers with striking cap or continuous blade.
- If the bolt fails to loosen, use the GEDORE impact driver set No. K 1900-013 to release the bolt without destroying it.
- Insulated and tested screwdrivers must be used when working on electrical systems.

\* Furthermore, the relevant safety guidelines of various institutions apply, e.g. the guidelines of the trade associations, employers' instructions and the statutory specifications of the respective country.

## VDE tools

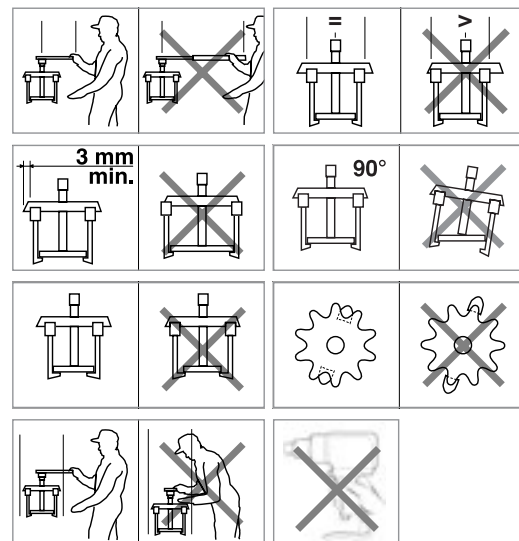
- › Work on electrically live equipment may only be carried out by trained electricians.
- › Only tools and safety equipment marked with the double triangle or bell 1000V symbol may be used.
- › Before commencing any work, check the insulation for damage.
- › Damaged tools must not be used.
- › The regulations of the employers' liability insurance associations and power supply companies must be complied with.
- › GEDORE VDE tools are approved for work on live circuits at voltages up to 1000V AC and 1500V DC.
- › Tools must not be combined unless they are designed to be securely joined together.

## Ratchets, tools and sockets

- › Ratchets are suitable for quick loosening and tightening.
- › Avoid jerky movements with the ratchet, e.g. caused by hammer impact.
- › The square drive and the tool and socket square drive must be of the same size.
- › Select the drive size in accordance with the screwed connection. This applies particularly to screwed connections with high torques.
- › Ensure that the ball engages properly in the ball catch.
- › Always pull the spanner towards you. Never push the spanner away from you. If for any reason you can only press the spanner away from you, use your open hand to prevent injuring your knuckles.
- › Only use suitable sockets and connections for the impact driver. Use a safety pin and ring to secure the connection between the socket, extension and machine.
- › When using reducers, the smaller drive's torque always applies.
- › Do not use ratchets as levers or as striking tools.

## Pullers

- › Read the operating instructions.
- › Use only original spare parts and accessories for your GEDORE puller. Never use worn, modified or defective spare parts or accessories.
- › Wear goggles and protective clothing when working. For added safety, use the GEDORE safety cover 5.10.
- › Before pulling, ensure that the legs are in contact with the part to be pulled and are firmly tightened so that the spindle operates centrally along the axis of the puller.
- › Attention! When using a puller, forces of up to several tons are generated. Take care to ensure that the puller is correctly positioned and is vertical to the component being pulled.
- › Do not use electric or pneumatic power or percussion drivers.



## Pipe bending systems

- › Read the operating instructions.
- › Never use defective or worn pipe bending systems.
- › Replace defective or worn parts with original parts.
- › Use suitable systems and tools for bending.
- › Wear safety goggles, safety shoes and protective clothing.
- › Ensure stability of the pipe bending system during the bending process.

## Cutting tools

- › Always set cutting tools down on a clearly visible place. Handles should always point towards you.
- › Sharpen your cutting tools regularly. Blunt cutting tools represent a greater risk of injury than sharp ones. Blunt cutting tools require more force to be applied.
- › Store cutting tools separately. This protects the blades and your fingers.
- › Set shears down with their tips closed. This protects the blades and your fingers.

## Safety notes for striking tools

### Chisels

- › Wear safety glasses and safety gloves.
- › Before starting work, check that the chisel blade is sharp and the striking end is burr-free. The blades must be properly wet-sharpened.
- › Select the appropriate type and size of chisel for the work to be carried out.
- › Hold the chisel with a firm grip.
- › When working, keep your eyes on the chisel tip.
- › Wherever possible, use a chisel with hand guard.
- › Never use chisels on workpieces harder than 40 HRC.
- › Set safety guards in place to prevent splinters and chips posing a hazard for other people.

### Centre punches, drifts and mortise chisels

- › These tools are subject to the same safety rules as chisels.

## Torque tools

- › Read the operating instructions.
- › Only use correctly calibrated torque wrenches.
- › Treat torque wrenches as measuring equipment. Store torque wrenches carefully.
- › Only use torque wrenches within the permissible torque range.
- › Stop tightening the bolt immediately once you feel and hear the click signal.
- › Apply the torque wrench at a right angle to the screwed connection.
- › Only use original end fittings or accessories which fit the respective torque wrench.
- › Where possible, do not use any reducers.
- › Never loosen bolts using a torque wrench.
- › Never use the torque wrench as a hammer.
- › Slacken the torque wrench after completing work.
- › Never use defective or worn accessory parts. Replace defective or worn parts with original parts.
- › Only use one hand on the handle of the torque wrench; two-handed operation is only possible using DREMOMETER A - F.

## Torque multipliers

- › Read the operating instructions.
- › Wear safety goggles, safety shoes and protective clothing.
- › Always inspect the torque multiplier for damage before use.
- › Never use electric, pneumatic or battery operated torque multipliers or impact wrenches.
- › Never exceed the specified maximum input torque.
- › Always use impact sockets in accordance with DIN 3129 or ISO 2725-2 and ISO 1174.
- › Always securely connect the reaction arm to the support bolt.
- › Never extend the impact socket or connector between bolt and torque multiplier.
- › Never use a universal or cardan joint.
- › Never hit the torque multiplier with a hammer.
- › Do not drop the torque multiplier.
- › Never use the torque multiplier if it has been dropped, used to strike other objects, or if anything has fallen on it.
- › Always keep hands and fingers away from the reaction arm.
- › Always select an anchor point (wall, another bolt) sufficient to withstand torque reaction forces. Reaction torque equals output torque.
- › Never allow the gearbox to touch a wall or other object.
- › Never modify the reaction arm without consulting with the manufacturer.

## Hammers

- › Always wear safety glasses and safety gloves.
- › Use the hammer only for its intended purpose.
- › Never misuse the hammer as a lever.
- › Before starting work, check that the hammer head is securely attached to the shaft.
- › Select the appropriate size hammer for the work to be carried out.
- › Never hit two hammers together.
- › Never use steel hammers on workpieces harder than 46HRC. Use suitable plastic-faced hammers for this. If in doubt, rather use a suitable plastic-faced hammer.
- › Avoid bouncing blows.
- › Use only the work faces of the hammer. Blows with the side face damage the non-hardened hammer eye. This can loosen the grip of the shaft in the hammer head.
- › If a burr forms on the peen or face of the hammer head, this must be immediately removed. Failure to do this can pose the risk of splintering when the hammer is in use.
- › Grip the hammer shaft as far away from the hammer head as possible. This improves the impact effect and avoids vibrations.
- › Do not store hammers with wooden shafts in warm, dry environments. Wood is a natural product. Dry, warm storage conditions can cause the shaft to lose moisture and shrink, so that the hammer shaft is no longer a tight fit in the hammer head.
- › Do not store the wooden shaft in too damp conditions! Too much moisture causes the wooden shaft to swell up and damages the wooden fibres. This can result in the wooden shaft snapping behind the eye area.

## Safety notes

- › For engines with ignition coils integrated in the spark plug connector (coil-on-plug), use only spark plug sockets with retainer springs. (No. 50 - 59).
- › Do not use magnetic spark plug spanners on coil-on-plug spark plugs.
- › This can result in control unit faults.

## Work gloves

- › Read the operating instructions.
- › Ensure that your work gloves are suitable for the respective task to be performed.
- › Examine your work gloves for damage before use. Damaged work gloves must be replaced.
- › Only work using work gloves which fit your hands perfectly.
- › Store your work gloves in a clean and dry place.

## Safety goggles

- › Read the operating instructions.
- › Ensure that your safety goggles are suitable for the respective task to be performed.
- › Examine your safety goggles for damage before use. Damaged safety goggles must be replaced.
- › Store safety goggles in dry areas. Use the black plastic bag provided for this purpose. This will help you to avoid scratches on the lenses.
- › Clean the lenses regularly under running water, not when dry.
- › Do not wear safety goggles on top of standard spectacles. Mechanical effects can be transferred which may be dangerous.

## Ear protection

- › Read the operating instructions.
- › Ensure that your ear protection is suitable for the respective task to be performed.
- › Examine your ear protection for damage before use. Ear protection displaying damage must be replaced.
- › Wear ear protection for the entire duration of your stay in noisy areas.
- › Store your ear protection in a clean and dry place.
- › Avoid impact against the earpieces. Otherwise, this can move the earpieces and lead to a noise level which is harmful for your ears.

## Pliers

- › Wear protective goggles when working with pliers. Ejected bits of wire and circlips not positioned correctly in the tip of the pliers pose a risk to your eyes.
- › Check on the jaws for wear and tear. Worn jaws result in slipping and thus in accidents.
- › The joint of the pliers should not have any noticeable play. Exceptions are the sliding joints.
- › When cutting wire, choose pliers that match the wire diameter and wire hardness.
- › Never use pliers as hammers.
- › Only insulated and tested pliers are to be used when working on electrical equipment.
- › Grip wrenches are only for briefly fixing work pieces.



# 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% utilisation of the bolt yield strength. The calculations are based on a friction coefficient of 0.14 (new bolt) without any after treatment, (non-lubricated). Please note: in extreme cases, e.g. for bolts lubricated with MOS2 compound and with cadmium plated connecting elements on both sides, the tightening torque should be reduced by around 20 %. |                                                    |        |        |        |        |        |                                                                                              |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Tightening values for quality grade as per DIN 267 |        |        |        |        |        |             |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4.6                                                | 5.6    | 6.9    | 8.8    | 10.9   | 12.9   |                                                                                              |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| <b>M 2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0,123                                              | 0,162  | 0,314  | 0,373  | 0,520  | 0,628  | <b>4</b>                                                                                     |                                                                                   |                                                                                   | 1,90                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| <b>M 2,2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0,196                                              | 0,265  | 0,510  | 0,598  | 0,843  | 1,010  | <b>4,5*</b>                                                                                  |                                                                                   |                                                                                   | 2,64                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| <b>M 2,5</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0,284                                              | 0,373  | 0,726  | 0,863  | 1,206  | 1,451  | <b>5</b>                                                                                     | 11,5                                                                              |                                                                                   | 3,55                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| <b>M 3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0,441                                              | 0,588  | 1,128  | 1,344  | 1,883  | 2,256  | <b>5,5</b>                                                                                   | 14,4                                                                              |                                                                                   | 4,64                                                                                |                                                                                     | 14,4                                                                                |                                                                                     | 2,32                                                                                |
| <b>M 3,5</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0,677                                              | 0,902  | 1,736  | 2,060  | 2,893  | 3,481  | <b>6*</b>                                                                                    | 17,6                                                                              | 7,4                                                                               | 5,92                                                                                |                                                                                     | 17,6                                                                                |                                                                                     | 2,96                                                                                |
| <b>M 4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1,000                                              | 1,344  | 2,599  | 3,040  | 4,315  | 5,148  | <b>7</b>                                                                                     | 25,2                                                                              | 11,4                                                                              | 9,12                                                                                |                                                                                     | 25,2                                                                                |                                                                                     | 4,56                                                                                |
| <b>M 5</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1,916                                              | 2,648  | 5,099  | 6,031  | 8,483  | 10,200 | <b>8</b>                                                                                     | 34,5                                                                              | 16,6                                                                              | 13,3                                                                                |                                                                                     | 34,5                                                                                | 34,5                                                                                | 6,65                                                                                |
| <b>M 6</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3,432                                              | 4,511  | 8,728  | 10,300 | 14,710 | 17,652 | <b>9*</b>                                                                                    | 45,4                                                                              | 23                                                                                | 18,4                                                                                |                                                                                     | 45,4                                                                                | 45,4                                                                                | 9,20                                                                                |
| <b>M 6</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3,432                                              | 4,511  | 8,728  | 10,300 | 14,710 | 17,652 | <b>10</b>                                                                                    | 58,1                                                                              | 31                                                                                | 24,8                                                                                | 58,1                                                                                | 58,1                                                                                | 58,1                                                                                | 12,4                                                                                |
| <b>M 7</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5,590                                              | 7,453  | 14,220 | 17,162 | 24,517 | 28,439 | <b>11</b>                                                                                    | 72,7                                                                              | 40,4                                                                              | 32,3                                                                                | 72,7                                                                                | 72,7                                                                                | 72,7                                                                                | 16,1                                                                                |
| <b>M 8</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 8,238                                              | 10,787 | 21,575 | 25,497 | 35,304 | 42,168 | <b>12*</b>                                                                                   | 89,1                                                                              | 51,5                                                                              | 41,2                                                                                | 89,1                                                                                | 89,1                                                                                | 89,1                                                                                | 20,6                                                                                |
| <b>M 8</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 8,238                                              | 10,787 | 21,575 | 25,497 | 35,304 | 42,168 | <b>13</b>                                                                                    | 107                                                                               | 64,5                                                                              | 51,6                                                                                | 107                                                                                 | 107                                                                                 | 107                                                                                 | 25,8                                                                                |
| <b>M 10</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 16,67                                              | 21,575 | 42,168 | 50,014 | 70,608 | 85,317 | <b>14*</b>                                                                                   | 128                                                                               | 79,4                                                                              | 63,5                                                                                | 128                                                                                 | 128                                                                                 | 128                                                                                 | 31,7                                                                                |
| <b>M 10</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 16,67                                              | 21,575 | 42,168 | 50,014 | 70,608 | 85,317 | <b>15</b>                                                                                    | 150                                                                               | 96,2                                                                              | 77,0                                                                                | 150                                                                                 | 150                                                                                 | 150                                                                                 | 38,5                                                                                |
| <b>M 12</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 28,44                                              | 38,246 | 73,550 | 87,279 | 122,60 | 147,10 | <b>16</b>                                                                                    | 175                                                                               | 115                                                                               | 92,3                                                                                | 175                                                                                 | 175                                                                                 | 175                                                                                 | 46,1                                                                                |
| <b>M 12</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 28,44                                              | 38,246 | 73,550 | 87,279 | 122,60 | 147,10 | <b>17*</b>                                                                                   | 201                                                                               | 134                                                                               | 107                                                                                 | 201                                                                                 | 201                                                                                 | 201                                                                                 | 53,5                                                                                |
| <b>M 12</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 28,44                                              | 38,246 | 73,550 | 87,279 | 122,60 | 147,10 | <b>18</b>                                                                                    | 230                                                                               | 160                                                                               | 128                                                                                 | 230                                                                                 | 230                                                                                 | 230                                                                                 | 64,0                                                                                |
| <b>M 14</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 45,11                                              | 60,801 | 116,70 | 138,30 | 194,20 | 235,40 | <b>19*</b>                                                                                   | 261                                                                               | 186                                                                               | 149                                                                                 | 261                                                                                 | 261                                                                                 | 261                                                                                 | 74,5                                                                                |
| <b>M 14</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 45,11                                              | 60,801 | 116,70 | 138,30 | 194,20 | 235,40 | <b>20*</b>                                                                                   | 294                                                                               | 215                                                                               | 172                                                                                 | 294                                                                                 | 294                                                                                 | 294                                                                                 | 86,0                                                                                |
| <b>M 14</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 45,11                                              | 60,801 | 116,70 | 138,30 | 194,20 | 235,40 | <b>21</b>                                                                                    | 330                                                                               | 247                                                                               | 198                                                                                 | 330                                                                                 | 330                                                                                 | 330                                                                                 | 99,0                                                                                |
| <b>M 16</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 69,63                                              | 93,163 | 178,5  | 210,80 | 299,10 | 357,90 | <b>22*</b>                                                                                   | 368                                                                               | 281                                                                               | 225                                                                                 | 368                                                                                 | 368                                                                                 | 368                                                                                 | 112                                                                                 |
| <b>M 16</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 69,63                                              | 93,163 | 178,5  | 210,80 | 299,10 | 357,90 | <b>23*</b>                                                                                   | 408                                                                               | 319                                                                               | 255                                                                                 | 408                                                                                 | 408                                                                                 | 408                                                                                 | 127                                                                                 |
| <b>M 16</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 69,63                                              | 93,163 | 178,5  | 210,80 | 299,10 | 357,90 | <b>24</b>                                                                                    | 451                                                                               | 359                                                                               | 287                                                                                 | 451                                                                                 | 451                                                                                 | 451                                                                                 | 143                                                                                 |
| <b>M 18</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 95,12                                              | 127,50 | 245,20 | 289,3  | 411,90 | 490,30 | <b>25*</b>                                                                                   | 496                                                                               | 402                                                                               | 322                                                                                 | 496                                                                                 | 496                                                                                 | 496                                                                                 | 161                                                                                 |
| <b>M 18</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 95,12                                              | 127,50 | 245,20 | 289,3  | 411,90 | 490,30 | <b>26*</b>                                                                                   | 544                                                                               | 449                                                                               | 359                                                                                 | 544                                                                                 | 544                                                                                 | 544                                                                                 | 179                                                                                 |
| <b>M 20</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 135,3                                              | 180,45 | 384,10 | 411,90 | 578,60 | 696,30 | <b>27</b>                                                                                    | 594                                                                               | 499                                                                               | 399                                                                                 | 594                                                                                 | 594                                                                                 | 594                                                                                 | 199                                                                                 |
| <b>M 20</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 135,3                                              | 180,45 | 384,10 | 411,90 | 578,60 | 696,30 | <b>28*</b>                                                                                   | 647                                                                               | 552                                                                               | 442                                                                                 | 647                                                                                 | 647                                                                                 | 647                                                                                 | 221                                                                                 |
| <b>M 22</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 182,4                                              | 245,16 | 470,70 | 559,00 | 784,50 | 941,40 | <b>30</b>                                                                                    | 760                                                                               | 670                                                                               | 536                                                                                 | 760                                                                                 | 760                                                                                 | 760                                                                                 | 268                                                                                 |
| <b>M 22</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 182,4                                              | 245,16 | 470,70 | 559,00 | 784,50 | 941,40 | <b>32*</b>                                                                                   | 884                                                                               | 804                                                                               | 643                                                                                 | 884                                                                                 | 884                                                                                 | 884                                                                                 | 321                                                                                 |
| <b>M 24</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 230,5                                              | 308,91 | 598,20 | 711,00 | 1000   | 1196   | <b>34</b>                                                                                    | 1019                                                                              | 951                                                                               | 761                                                                                 | 1019                                                                                | 1019                                                                                | 1019                                                                                | 381                                                                                 |
| <b>M 24</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 230,5                                              | 308,91 | 598,20 | 711,00 | 1000   | 1196   | <b>36</b>                                                                                    | 1165                                                                              | 1117                                                                              | 894                                                                                 | 1165                                                                                | 1165                                                                                | 1165                                                                                | 447                                                                                 |
| <b>M 27</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 343,2                                              | 460,90 | 887,50 | 1049   | 1481   | 1775   | <b>41</b>                                                                                    | 1579                                                                              | 1442                                                                              | 1154                                                                                | 1579                                                                                | 1579                                                                                | 1579                                                                                | 577                                                                                 |
| <b>M 30</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 465,8                                              | 622,72 | 1206   | 1422   | 2010   | 2403   | <b>46</b>                                                                                    | 2067                                                                              | 1816                                                                              | 1453                                                                                | 2067                                                                                | 2067                                                                                | 2067                                                                                | 726                                                                                 |
| <b>M 33</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 632,5                                              | 848,30 | 1628   | 1932   | 2716   | 3266   | <b>50</b>                                                                                    | 2512                                                                              | 2145                                                                              | 1716                                                                                | 2512                                                                                | 2512                                                                                | 2512                                                                                | 858                                                                                 |
| <b>M 36</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 814,0                                              | 1089   | 2099   | 2481   | 3491   | 4197   | <b>55</b>                                                                                    | 3140                                                                              |                                                                                   | 2077                                                                                | 3140                                                                                | 3140                                                                                | 3140                                                                                | 1038                                                                                |
| <b>M 39</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1059                                               | 1412   | 2716   | 3226   | 4531   | 5443   | <b>60</b>                                                                                    | 3849                                                                              |                                                                                   | 2471                                                                                | 3849                                                                                |                                                                                     | 3849                                                                                | 1235                                                                                |
| <b>M 42</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1304                                               | 1746   | 3364   | 3991   | 5609   | 6727   | <b>65</b>                                                                                    | 4021                                                                              |                                                                                   | 2900                                                                                | 4021                                                                                |                                                                                     | 4021                                                                                | 1422                                                                                |
| <b>M 45</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1638                                               | 2177   | 4207   | 4992   | 7012   | 8414   | <b>70</b>                                                                                    | 4658                                                                              |                                                                                   | 3364                                                                                | 4658                                                                                |                                                                                     | 4658                                                                                | 1618                                                                                |
| <b>M 48</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1981                                               | 2638   | 5080   | 6021   | 8473   | 10150  | <b>75</b>                                                                                    | 5394                                                                              |                                                                                   | 3862                                                                                |                                                                                     |                                                                                     | 5394                                                                                | 1765                                                                                |
| <b>M 52</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2540                                               | 3393   | 6541   | 7747   | 10885  | 13092  | <b>80</b>                                                                                    | 6178                                                                              |                                                                                   | 4394                                                                                |                                                                                     |                                                                                     | 6178                                                                                | 1912                                                                                |
| <b>M 56</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3168                                               | 4227   | 8149   | 9650   | 13582  | 16279  | <b>85</b>                                                                                    | 6963                                                                              |                                                                                   |                                                                                     |                                                                                     |                                                                                     | 6963                                                                                | 2059                                                                                |
| <b>M 60</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3932                                               | 5247   | 10101  | 11964  | 16867  | 20202  | <b>90</b>                                                                                    | 7845                                                                              |                                                                                   |                                                                                     |                                                                                     |                                                                                     | 7845                                                                                | -                                                                                   |
| <b>M 64</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4737                                               | 6306   | 12160  | 14416  | 20300  | 24320  | <b>95</b>                                                                                    | 8336                                                                              |                                                                                   |                                                                                     |                                                                                     |                                                                                     | 8336                                                                                | -                                                                                   |

**Note:** In reference to the spanner test torque as per DIN ISO 1711-1 column, we explicitly point out that these are minimum guarantee values.

Bolts from M39 in quality grades 4.6, 5.6, 6.9, 8.8, 10.9 and 12.9 are not standardised.

\* These sizes are not included in DIN ISO 272

# TIGHTENING / TEST TORQUE

| Wrench/spanner test torques in accordance with DIN ISO 1711-1<br>(minimum guaranteed values) Nm |                                                                                   |                                                                                   |                                                                                   |                       |                       | Test torques for tightening tools for hexagon socket head screws |                    |                                     |           |                                   |          |                                                                                     |           |           |  |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------|-----------------------|------------------------------------------------------------------|--------------------|-------------------------------------|-----------|-----------------------------------|----------|-------------------------------------------------------------------------------------|-----------|-----------|--|
|                |  | With internal square as per DIN 3120                                              |                                                                                   |                       |                       |                                                                  | DIN EN ISO<br>4762 | No. 42T,<br>DT42<br>No. 42,<br>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<br>No.<br>D 20                                                             | No. 30<br>No.<br>D 30                                                             | No. 19<br>No.<br>D 19 | No. 32<br>No.<br>D 32 | No.<br>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                                 |           |                                   |          |                                                                                     |           |           |  |
| M 2,5                                                                                           | 5                                                                                 | 15,1                                                                              |                                                                                   |                       |                       |                                                                  |                    |                                     |           |                                   |          |                                                                                     |           |           |  |
| M 3                                                                                             | 5,5                                                                               | 17,8                                                                              |                                                                                   |                       |                       |                                                                  | 2,5                | 3,8                                 |           |                                   |          |                                                                                     |           |           |  |
| M 3,5                                                                                           | 6*                                                                                | 20,6                                                                              | 23,2                                                                              |                       |                       |                                                                  |                    |                                     |           |                                   |          |                                                                                     |           |           |  |
| M 4                                                                                             | 7                                                                                 | 26,8                                                                              | 33,2                                                                              |                       |                       |                                                                  | 3                  | 6,6                                 | 6,6       | 6,6                               |          |                                                                                     |           |           |  |
| M 5                                                                                             | 8<br>9*                                                                           | 33,6<br>41,1                                                                      | 45,5<br>59,9                                                                      | 94,1<br>119,2         |                       |                                                                  | 4                  | 16                                  | 16        | 16                                | 16       | 16                                                                                  |           |           |  |
| M 6                                                                                             | 10                                                                                | 49,1                                                                              | 76,7                                                                              | 147                   |                       |                                                                  | 5                  | 30                                  | 30        | 30                                | 30       | 30                                                                                  |           |           |  |
| M 7                                                                                             | 11<br>12*                                                                         | 57,8<br>67,0                                                                      | 96<br>118                                                                         | 178<br>212            |                       |                                                                  |                    |                                     |           |                                   |          |                                                                                     |           |           |  |
| M 8                                                                                             | 13<br>14*                                                                         | 68,6<br>68,6                                                                      | 141<br>169                                                                        | 249<br>288            |                       |                                                                  | 6<br>7             | 52<br>80                            | 52        | 52                                | 52<br>78 | 52<br>78                                                                            |           |           |  |
| M 10                                                                                            | 15<br>16<br>17*                                                                   |                                                                                   | 198<br>225<br>225                                                                 | 331<br>377<br>425     |                       |                                                                  | 8                  | 120                                 | 120       | 120                               | 120      | 120                                                                                 |           |           |  |
| M 12                                                                                            | 18<br>19*<br>20*                                                                  |                                                                                   | 225<br>225<br>225                                                                 | 477<br>531<br>569     |                       |                                                                  | 9<br>10<br>12      | 165<br>220<br>370                   |           | 220                               | 220      | 220                                                                                 |           |           |  |
| M 14                                                                                            | 21<br>22*<br>23*                                                                  |                                                                                   | 225<br>225                                                                        | 569<br>569<br>569     | 569<br>569            |                                                                  |                    |                                     |           |                                   |          |                                                                                     |           |           |  |
| M 16                                                                                            | 24<br>25*<br>26*                                                                  |                                                                                   |                                                                                   | 569<br>569<br>569     | 569<br>583<br>624     |                                                                  | 14                 | 590                                 | 590       |                                   | 590      | 590                                                                                 |           |           |  |
| M 18                                                                                            | 27<br>28*                                                                         |                                                                                   |                                                                                   | 569<br>569            | 665<br>707            |                                                                  |                    |                                     |           |                                   |          |                                                                                     |           |           |  |
| M 20                                                                                            | 30                                                                                |                                                                                   |                                                                                   | 569                   | 795                   |                                                                  | 17                 | 980                                 | 980       |                                   | 1000     | 1000                                                                                | 1000      |           |  |
| M 22                                                                                            | 32*<br>34                                                                         |                                                                                   |                                                                                   | 569<br>569            | 888<br>984            |                                                                  |                    |                                     |           |                                   |          |                                                                                     |           |           |  |
| M 24                                                                                            | 36                                                                                |                                                                                   |                                                                                   |                       | 1084                  | 1677                                                             | 19                 | 1360                                | 1360      |                                   | 1400     | 1400                                                                                | 1400      |           |  |
| M 27                                                                                            | 41                                                                                |                                                                                   |                                                                                   |                       | 1353                  | 1910                                                             |                    |                                     |           |                                   |          |                                                                                     |           |           |  |
| M 30                                                                                            | 46                                                                                |                                                                                   |                                                                                   |                       | 1569                  | 2143                                                             | 22                 | 2110                                |           |                                   | 2100     | 2100                                                                                |           |           |  |
| M 33                                                                                            | 50                                                                                |                                                                                   |                                                                                   |                       | 1569                  | 2329                                                             | 24                 | 2750                                |           |                                   |          |                                                                                     | 2700      |           |  |
| M 36                                                                                            | 55                                                                                |                                                                                   |                                                                                   |                       | 1569                  | 2562                                                             | 27                 | 3910                                |           |                                   |          |                                                                                     |           |           |  |
| M 39                                                                                            | 60                                                                                |                                                                                   |                                                                                   |                       | 1569                  | 2795                                                             | 30                 | 4000                                |           |                                   |          |                                                                                     |           |           |  |
| M 42                                                                                            | 65                                                                                |                                                                                   |                                                                                   |                       |                       | 2795                                                             | 32                 | 4000                                |           |                                   |          |                                                                                     |           |           |  |
| M 45                                                                                            | 70                                                                                |                                                                                   |                                                                                   |                       |                       | 2795                                                             |                    |                                     |           |                                   |          |                                                                                     |           |           |  |
| M 48                                                                                            | 75                                                                                |                                                                                   |                                                                                   |                       |                       | 2795                                                             | 36                 | 4000                                |           |                                   |          |                                                                                     |           |           |  |
| M 52                                                                                            | 80                                                                                |                                                                                   |                                                                                   |                       |                       | 2795                                                             |                    |                                     |           |                                   |          |                                                                                     |           |           |  |
| M 56                                                                                            | 85                                                                                |                                                                                   |                                                                                   |                       |                       |                                                                  |                    |                                     |           |                                   |          |                                                                                     |           |           |  |
| M 60                                                                                            | 90                                                                                |                                                                                   |                                                                                   |                       |                       |                                                                  |                    |                                     |           |                                   |          |                                                                                     |           |           |  |
| M 64                                                                                            | 95                                                                                |                                                                                   |                                                                                   |                       |                       |                                                                  |                    |                                     |           |                                   |          |                                                                                     |           |           |  |

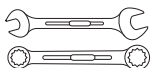
The matching test torques are derived from the theoretical load capability of the connecting square drive.

**Note:** Hand tightening sockets are unsuited to use with impact drivers. Inappropriate use poses an accident risk.

# HEAD WIDTHS AND THREAD DIAMETERS

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

# SPANNER SIZES TOLERANCE FOR BOLTS AND SOCKET WRENCHES

| Nominal size/s<br>in mm<br> mm | Tolerance class 1 as per<br>ISO 691 dimensions<br> |        | Tolerance class 2 <sup>a</sup> as<br>per ISO 691 dimensions<br> |        |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------|--------|
|                                                                                                                 | 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 |
| 3 ≤ 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                                                                                                                              | + 1,22 | -                                                                                                                                                | -      |

This tolerance class applies only to ring spanners or socket wrenches that have not been manufactured by material removal.

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

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

Conversion tables  
Inch to decimal-inches and mm

| in.   | dec.in.       | mm.            | in.   | dec.in.       | mm.            |
|-------|---------------|----------------|-------|---------------|----------------|
| 0     | 0             | 0              | 1/2   | <b>0.5</b>    | <b>12,7000</b> |
| 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  | <b>0.0625</b> | <b>1,5875</b>  | 9/16  | <b>0.5625</b> | <b>14,2875</b> |
| 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   | <b>0.125</b>  | <b>3,1750</b>  | 5/8   | <b>0.625</b>  | <b>15,8750</b> |
| 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  | <b>0.1875</b> | <b>4,7625</b>  | 11/16 | <b>0.6875</b> | <b>17,4625</b> |
| 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   | <b>0.25</b>   | <b>6,3500</b>  | 3/4   | <b>0.75</b>   | <b>19,0500</b> |
| 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  | <b>0.3125</b> | <b>7,9375</b>  | 13/16 | <b>0.8125</b> | <b>20,6375</b> |
| 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   | <b>0.375</b>  | <b>9,5250</b>  | 7/8   | <b>0.875</b>  | <b>22,2250</b> |
| 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  | <b>0.4375</b> | <b>11,1125</b> | 15/16 | <b>0.9375</b> | <b>23,8125</b> |
| 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

| Required Units   | Torque conversion factors |       |        |          |          |          |         |                | Corresponding unit |
|------------------|---------------------------|-------|--------|----------|----------|----------|---------|----------------|--------------------|
|                  | = mNm                     | = cNm | = Nm   | = ozf-in | = lbf-in | = lbf-ft | = gf-cm | = f-cm (kp-cm) |                    |
| 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:**  
Conversion of 5lbf-ft in cNm

**Solution:**  
5 x 135,6 = 678cNm

| Conversion from 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 |

| 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 |

| Conversion from Nm 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 |

| Conversion from kgf-m (kp-m) in Nm |        |        |         |         |         |         |         |         |                 |
|------------------------------------|--------|--------|---------|---------|---------|---------|---------|---------|-----------------|
| kgf-m(kp-m)                        | 0      | 1      | 2       | 3       | 4       | 5       | 6       | 7       | 8 9             |
| 0                                  | 0,00   | 9,81   | 19,61   | 29,42   | 39,23   | 49,03   | 58,84   | 68,65   | 78,45 88,26     |
| 10                                 | 98,07  | 107,87 | 117,68  | 127,49  | 137,29  | 147,10  | 156,91  | 166,71  | 176,52 186,33   |
| 20                                 | 196,13 | 205,94 | 215,75  | 225,55  | 235,36  | 245,17  | 254,97  | 264,78  | 274,59 284,39   |
| 30                                 | 294,20 | 304,01 | 313,81  | 323,62  | 333,43  | 343,23  | 353,04  | 362,85  | 372,65 382,46   |
| 40                                 | 392,27 | 402,07 | 411,88  | 421,69  | 431,49  | 441,30  | 451,11  | 460,91  | 470,72 480,53   |
| 50                                 | 490,33 | 500,14 | 509,95  | 519,75  | 529,56  | 539,37  | 549,17  | 558,98  | 568,79 578,59   |
| 60                                 | 588,40 | 598,21 | 608,01  | 617,82  | 627,63  | 637,43  | 647,24  | 657,05  | 666,85 676,66   |
| 70                                 | 686,47 | 696,27 | 706,08  | 715,89  | 725,69  | 735,50  | 745,31  | 755,11  | 764,92 774,73   |
| 80                                 | 784,53 | 794,34 | 804,15  | 813,95  | 823,76  | 833,57  | 843,37  | 853,18  | 862,99 872,79   |
| 90                                 | 882,60 | 892,41 | 902,21  | 912,02  | 921,83  | 931,63  | 941,44  | 951,25  | 961,05 970,86   |
| 100                                | 980,67 | 990,47 | 1000,28 | 1010,08 | 1019,89 | 1029,70 | 1039,50 | 1049,31 | 1059,12 1068,92 |

| Conversion from 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 |

| Conversion from lbf-in in Nm |       |       |       |       |       |       |       |       |             |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|
| 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 | 10,84 | 10,96 | 11,07 11,19 |
| 100                          | 11,30 | 11,41 | 11,52 | 11,64 | 11,75 | 11,86 | 11,98 | 12,09 | 12,20 12,31 |

### Important prefix characters

|       |    |               |                    |
|-------|----|---------------|--------------------|
| Giga  | G  | 1.000.000.000 | = 10 <sup>9</sup>  |
| Mega  | M  | 1.000.000     | = 10 <sup>6</sup>  |
| Kilo  | k  | 1.000         | = 10 <sup>3</sup>  |
| Hecto | H  | 100           | = 10 <sup>2</sup>  |
| Deca  | Da | 10            | = 10 <sup>1</sup>  |
| Deci  | d  | 0,1           | = 10 <sup>-1</sup> |
| Centi | c  | 0,01          | = 10 <sup>-2</sup> |
| Milli | m  | 0,001         | = 10 <sup>-3</sup> |
| Micro | μ  | 0,000001      | = 10 <sup>-6</sup> |
| Nano  | n  | 0,000000001   | = 10 <sup>-9</sup> |

### Important SI units with conversions to old but still commonly used units

|                    |              |    |                    |                             |
|--------------------|--------------|----|--------------------|-----------------------------|
| Length             | metre        | m  |                    |                             |
| Masa               | kilogramme   |    |                    |                             |
| Time               | second       | s  |                    |                             |
| Force              | newton       | N  | = m/s <sup>2</sup> | 1 N = 0,102 kp              |
| Torque             | newton metre | Nm |                    | 9,81 N·m = 1 kp·m           |
| Energy (work)      | joule        | J  | = Nm               |                             |
| Heat quantity      | joule        | J  |                    | 1 J = 0,239 cal             |
| Power              | watt         | W  | = Nm/s             | 1 kW = 1,36 PS = 860 kcal/h |
| Pressure           | pascal       | Pa | = N/m <sup>2</sup> | 100 000 Pa = 1 bar = 10 mWS |
| Electrical current | ampere       | A  |                    |                             |
| Temperature        | kelvin       | K  |                    | 1 K = 1 °C                  |

### Conversion table, mass and weight

|                    |            |             |               |               |
|--------------------|------------|-------------|---------------|---------------|
| 1 megagramme (Mg)  | = 1.000 kg | = 10.000 hg | = 100.000 dag | = 1.000.000 g |
| 1 ton (to.)        | = 1.000 kg |             |               |               |
| 1 kilogramme (kg)  |            | = 10 hg     | = 100 dag     | = 1000 g      |
| 1 hectogramme (hg) |            |             | = 10 dag      | = 100 g       |
| 1 decagramme (dag) |            |             |               | = 10 g        |
| 1 gramme (g)       | = 10 dg    | = 100 cg    | = 1000 mg     |               |
| 1 decigramme (dg)  |            | = 10 cg     | = 100 mg      |               |
| 1 centigramme (cg) |            |             | = 10 mg       |               |
| 1 miligramme (mg)  |            |             | = 1 mg        |               |

### Conversion table, force and torque

|                  |            |
|------------------|------------|
| 1 newton         | = 0,102 kp |
| 1 kilopond       | = 9,81 N   |
| 1 kilopond metre | = 9,81 Nm  |

### Material properties

|                                 | Density<br>g/cm <sup>3</sup> | Expansion<br>1/°C | Melting point<br>°C | Modulus of elasticity<br>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 100mm in length at a temperature of 10°C. Lengthy expansion coefficient  $\alpha$  °C exp. = 100mm x 0,000012 x 10 = 0,012mm = 12μm

### Example 2:

Elastic expansion  $e = s/E$ . A body of 100mm in length made of ABS is stretched with  $s = 50N/mm^2$ ;  $e = 50N/mm^2 : 2500N/mm^2 = 0.02$ . The expansion is: 10 mm x 0.02 = 2mm.

### Example 3:

Two steel plates with a total thickness of 20mm are pre-stressed by means of a screw connection of  $s = 50N/mm^2$ ;  $e = 50 : 210000 = 0.00024$ . The compression in the surrounding area of the screw is 2 mm x 0.00024 = 0,0048mm = 5μm.

The elastic compression induces a continuous pre-tension of the screw connection.

A properly tensed screw connection is selfinhibiting.

## Comparison table of Vickers-Brinell-Rockwell hardness and tensile strength

| Vickers hardness<br>HV 30 | Brinell hardness<br>HB 30 | Rockwell hardness<br>HRB | Rockwell hardness<br>HRC | Tensile strength<br>σB<br>N/mm <sup>2</sup> |
|---------------------------|---------------------------|--------------------------|--------------------------|---------------------------------------------|
| 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                     | –                                           |

## ARTICLE INDEX

| Article No. | Page |
|-------------|------|
|-------------|------|

|                                                     |         |
|-----------------------------------------------------|---------|
| 1.07/K..... Puller Set .....                        | 183     |
| 1.15..... Triple Grip Puller.....                   | 180     |
| 1.26..... Nut Splitter - Hydraulic .....            | 181     |
| 1.30..... Internal Extractor .....                  | 181     |
| 1.31..... Internal Extractor Set.....               | 183     |
| 1.36..... Support Brace .....                       | 182     |
| 1.38..... Separator Puller.....                     | 182     |
| 1.40..... Bearing Separator.....                    | 182     |
| 1.73..... Ball Joint Puller.....                    | 181     |
| 1.75..... Oil Filter Hook.....                      | 85      |
| 100..... Centre Punch .....                         | 126     |
| 106..... Chisel & Punch Set.....                    | 127     |
| 108..... UNI Hand Guard .....                       | 126     |
| 1001..... Electricians VDE Toolset.....             | 141     |
| 1100-1.04..... Universal Puller Set.....            | 183     |
| 1101-1.29/3K..... Ball Bearing Extractor Set.....   | 184     |
| 1102-003..... Pliers Set.....                       | 71      |
| 113..... Drift Punch Set.....                       | 127     |
| 116..... Pin Punch Set.....                         | 127     |
| 125..... Piston Ring Clamp Band.....                | 86      |
| 126..... Piston Ring Pliers.....                    | 86      |
| 126-060..... Piston Ring Pliers.....                | 86      |
| 1260..... Toolbox - 3 Compartments.....             | 102     |
| 1261..... Toolbox - 5 Compartments.....             | 102     |
| 128..... Valve Spring Tensioner.....                | 87      |
| 1281..... Toolbox - 5 Compartments - Aluminium..... | 102     |
| 1281/1282..... Tool Assortments.....                | 105-111 |
| 1282/5..... Toolbox - 5 Compartments.....           | 102     |
| 1282/7..... Toolbox - 7 Compartments.....           | 102     |
| 132..... Hose Clamp Pliers .....                    | 86      |
| 132 CLIC..... Hose Clamp Pliers .....               | 87      |
| 133..... Open Ended Slogging Spanner.....           | 16      |
| 1335..... Toolbox - 5 Compartments.....             | 102     |
| 134..... Straight Jaw Grip Wrench .....             | 77      |
| 135..... Brake Spring Pliers.....                   | 87      |
| 137..... Grip Wrenches.....                         | 77      |
| 138..... Welding Grip Pliers.....                   | 77      |
| 138 Y..... C-Grip Pliers .....                      | 77      |
| 139..... Pry Bars.....                              | 85      |
| 1401..... PRO Cabinet & Tools.....                  | 112     |
| 1401..... Tool Cabinet.....                         | 112     |
| 1401L..... Large Tool Cabinet.....                  | 113     |
| 1401L..... PRO Cabinet & Tools.....                 | 113     |
| 1410..... Artisan's Tool Chest.....                 | 115     |
| 142..... Universal Pliers.....                      | 79      |
| 142 16-TL..... Universal Pliers.....                | 79      |
| 1425/27/HM..... Modular Assortment.....             | 118     |
| 1425/27/PL..... Modular Assortment.....             | 118     |

## ARTICLE INDEX

| Article No. | Page |
|-------------|------|
|-------------|------|

|                                                       |     |
|-------------------------------------------------------|-----|
| 1425/27/SD..... Modular Assortment.....               | 118 |
| 1425/27/SP..... Modular Assortment.....               | 118 |
| 1425/41/D19..... Modular Tool Assortment .....        | 118 |
| 1425/41/IB..... Modular Tool Assortment .....         | 118 |
| 1425-3-5..... Spare.....                              | 118 |
| 1425/5..... Comprehensive Tool Assortment.....        | 115 |
| 1425/5..... Tool Chest .....                          | 115 |
| 145..... Waterpump Pliers .....                       | 79  |
| 1450S..... Tool Panel & Accessories .....             | 114 |
| 1460..... Tool Trunk .....                            | 103 |
| 1500..... Metal Work Bench.....                       | 112 |
| 1500..... Wooden Work Bench.....                      | 112 |
| 1502..... Drawer Unit.....                            | 113 |
| 1510..... Tool Trolley .....                          | 116 |
| 1525..... Comprehensive Tool Assortment.....          | 116 |
| 1525..... Tool Trolley .....                          | 116 |
| 1530..... Service Trolley .....                       | 117 |
| 1581..... Tool Trolley .....                          | 117 |
| 1581..... Classic Tool Assortment .....               | 117 |
| 180..... Cable Shears - Insulated .....               | 139 |
| 183 12 TC..... Plier Wrench.....                      | 79  |
| 19L..... Sockets, Long Pattern 1/2".....              | 32  |
| 19SR..... Socket Set 1/2".....                        | 34  |
| 32..... Repair Kits.....                              | 39  |
| 1930..... Reducer 1/2" to 3/8" .....                  | 40  |
| 1932..... Converter 1/2" to 3/4" .....                | 40  |
| 1985..... Speed Brace Handle 1/2".....                | 40  |
| 1987..... Sliding T-Bar 1/2" .....                    | 39  |
| 1990..... Extension Bar 1/2".....                     | 39  |
| 1990KR..... Universal Extension 1/2".....             | 40  |
| 1990M..... Extension with Magnet 1/2".....            | 40  |
| 1993 U-3..... Reversible Ratchet 1/2".....            | 29  |
| 1993 U-10T..... Reversible Ratchet 1/2".....          | 28  |
| 1993 Z-94..... Reversible Ratchet & Coupler 1/2"..... | 29  |
| 1993 ALU-10..... Aluminium Reversible Ratchet .....   | 29  |
| 1994..... Square Coupler 1/2".....                    | 40  |
| 1995..... Universal Joint 1/2".....                   | 40  |
| 1996..... Power Bar 1/2".....                         | 39  |
| 1997..... Power Bar 1/2".....                         | 39  |
| 19L..... Extra Deep Socket (MM) (AF).....             | 32  |
| 1B..... Spanner Sets.....                             | 6   |
| 1B..... Spanners (AF).....                            | 6   |
| 1B..... Spanners (MM).....                            | 5   |
| 2..... Ring Spanner Sets.....                         | 9   |
| 2..... Ring Spanners (MM) (AF).....                   | 9   |
| 2A..... Single Ended Ring Spanners.....               | 14  |
| 2AR..... Extension Tube .....                         | 14  |
| 2ATM..... Single Ended Ring Spanner Set .....         | 14  |

## ARTICLE INDEX

| Article No.                                     | Page  |
|-------------------------------------------------|-------|
| 20.....Sockets 1/4".....                        | 21    |
| 20L.....Sockets Long Pattern 1/4".....          | 21    |
| 2.20.....Truck Workshop Kit.....                | 184   |
| 2.30.....Industrial Puller Kit.....             | 185   |
| 2.40.....Construction Machine Puller Kit.....   | 185   |
| 20 EAU-3.....Socket Set 1/4".....               | 23    |
| 20 EMZ.....Socket Set 1/4".....                 | 23    |
| 20 MDX.....Socket Set 1/4".....                 | 23    |
| 20 NZA.....Socket Set 1/4".....                 | 23    |
| 20 NZI.....Socket Set 1/4".....                 | 23    |
| 2030.....Converter 1/4" to 3/8".....            | 23    |
| 2087.....Sliding T-Bar 1/4".....                | 23    |
| 2088.....Flexible Extension 1/4".....           | 23    |
| 2090.....Extension 1/4".....                    | 24    |
| 2093-U3.....Reversible Ratchet 1/4".....        | 20    |
| 2093-U10.....Reversible Ratchet 1/4".....       | 20    |
| 2093-Z/94.....Reversible Ratchet 1/4".....      | 20    |
| 2094.....Coupler 1/4".....                      | 24    |
| 2095.....Universal Joint 1/4".....              | 24    |
| 2097.....Swivel Handle 1/4".....                | 24    |
| 2098.....Driving Handle 1/4".....               | 24    |
| 2132.....Reducer 1" to 3/4" AF.....             | 46    |
| 2133.....3C Nut Drivers.....                    | 57    |
| 2133.....3C Nut Driver Sets.....                | 57    |
| 2150.....3C Screwdrivers.....                   | 56    |
| 2153.....3C Stubby Screwdriver.....             | 56    |
| 2150-2160 PH.....3C Screwdriver Sets.....       | 58-59 |
| 2160 PH.....3C Screwdriver.....                 | 56    |
| 2160 PZ.....3C Screwdriver.....                 | 57    |
| 2161 PH.....3C Stubby Screwdriver - Philip..... | 56    |
| 2163 TX.....3C TX Screwdrivers.....             | 57    |
| 2163 TX.....3C TX Screwdriver Set.....          | 58    |
| 2187.....Sliding T-Bar 1".....                  | 45    |
| 2190.....Extension Bar 1".....                  | 46    |
| 2193 U-3.....Reversible Ratchet.....            | 45    |
| 2194.....Square Coupler.....                    | 46    |
| 2195.....Universal Joint.....                   | 46    |
| 220.....Steel Pipe Cutter.....                  | 81    |
| 220.....Spare Wheel.....                        | 81    |
| 2200.....Number Set.....                        | 127   |
| 2201.....Letter Set.....                        | 127   |
| 225.....Pipe Wrench - Stillson Type.....        | 78    |
| 227.....Pipe Wrench - American Pattern.....     | 78    |
| 26 R.....Double Ended Box Spanners.....         | 84    |
| 26 RS.....Stepped Tommy Bar.....                | 84    |
| 248ST.....Recoil-free Hammer + Spares.....      | 124   |
| 27.....Wheel Socket Wrench - Trucks.....        | 84    |
| 28 PU.....4-Way Wheel Wrench.....               | 84    |

## ARTICLE INDEX

| Article No.                                          | Page  |
|------------------------------------------------------|-------|
| 28 CV.....4-Way Wheel Wrench.....                    | 84    |
| 29 I.....Construction Ratchet.....                   | 17    |
| 299.....Drain Plug Spanner.....                      | 90    |
| 3019.....Converter 3/8" to 1/2".....                 | 28    |
| 3020.....Reducer 3/8" to 1/4".....                   | 28    |
| 304.....Half-Moon Ring Spanner Sets.....             | 10    |
| 304.....Half-Moon Ring Spanners (MM) (AF).....       | 10    |
| 306.....Ring Slogging Spanners.....                  | 16    |
| 3081.....L-handle 3/8".....                          | 27    |
| 3087.....Sliding T-bar 3/8".....                     | 27    |
| 3090.....Extension 3/8".....                         | 27    |
| 3093-U3.....Reversible Ratchet 3/8".....             | 24    |
| 3093-Z/94.....Reversible Ratchet & Coupler 3/8"..... | 25    |
| 3094.....Coupler 3/8".....                           | 28    |
| 3095.....Universal Joint 3/8".....                   | 28    |
| 3096.....Power Bar 3/8".....                         | 27    |
| 3114.....Crowfoot Spanner.....                       | 15    |
| 3219.....Reducer 3/4" to 1/2".....                   | 44    |
| 3221.....Converter 3/4" to 1".....                   | 44    |
| 3287.....Sliding T-bar 3/4".....                     | 43    |
| 3290.....Extension Bar 3/4".....                     | 44    |
| 3293 DJ.....Repair Kit 3/4".....                     | 45    |
| 3293 U-1.....Reversible Ratchet 3/4".....            | 41    |
| 3293 U-1.....Repair Kit 3/4".....                    | 44    |
| 3293 U-2.....Reversible Ratchet 3/4".....            | 41    |
| 3293 U-2.....Repair Kit 3/4".....                    | 44    |
| 3293 Z/94.....Repair Kit 3/4".....                   | 44    |
| 3293 Z/94.....Reversible Ratchet 3/4".....           | 41    |
| 3293/500.....Double Johnny Ratchet 3/4".....         | 41    |
| 3293/500-24x30.....Double Johnny Ratchet 3/4".....   | 41    |
| 3294.....Square Coupler 3/4".....                    | 44    |
| 3295.....Universal Joint 3/4".....                   | 44    |
| 3296.....Power Bar 3/4".....                         | 43    |
| 3296.....Repair Kit 3/4".....                        | 44    |
| 3550 UK-LS4.....Torque Wrench.....                   | 147   |
| 36.....Oil Filter Strap Wrench.....                  | 84    |
| 38.....Tyre Lever.....                               | 85    |
| 39.....Tyre Lever.....                               | 85    |
| 40.....Hook Spanner.....                             | 17    |
| 400.....Flare Nut Spanners.....                      | 11    |
| 400.....Flare Nut Spanner Set.....                   | 11    |
| 403.....Hacksaw.....                                 | 89    |
| 40Z.....Pin Spanner.....                             | 17    |
| 407.....Hacksaw.....                                 | 89    |
| 4101.....Torcofix SE - Torque Wrench.....            | 147   |
| 4150 / 4151.....Torcofix FS - Torque Wrench.....     | 147   |
| 42.....Allen Key Sets.....                           | 60    |
| 42.....Allen Keys (MM) (AF).....                     | 59-60 |



## ARTICLE INDEX

| Article No. | Page |
|-------------|------|
|-------------|------|

|         |                                   |     |
|---------|-----------------------------------|-----|
| 42KL    | Ball Head Allen Key Set           | 61  |
| 42L     | Allen Keys                        | 60  |
| 42L     | Allen Key Sets                    | 61  |
| 42SCL   | Allen Key Set                     | 62  |
| 42T     | Allen Key (MM) (AF)               | 61  |
| 43KTX   | Ball Head TX Key Set              | 62  |
| 43TV    | TX Gauge Tester                   | 63  |
| 43TX    | TX Allen Key                      | 62  |
| 43TX    | TX Allen Key Set                  | 62  |
| 43TXL   | Long TX Allen Key                 | 63  |
| 43TXL   | Long TX Allen Key Sets            | 63  |
| 44      | Caliper Face Spanner              | 16  |
| 4549    | Torcofix K - Torque Wrench        | 146 |
| 4550    | Torcofix K - Torque Wrench        | 146 |
| 507     | Leisure Motorist Toolkit          | 91  |
| 534     | Swivel Wrench                     | 11  |
| 534     | Swivel Wrench Sets                | 11  |
| 6       | Double Open Ended Spanners + Sets | 12  |
| 62      | Adjustable Wrench                 | 13  |
| 620C    | Club Hammers                      | 125 |
| 622C    | Copper Sledge Hammers             | 125 |
| 640S    | Sledge Hammers                    | 125 |
| 640     | Magnetic Lifter                   | 86  |
| 642 SP  | Magnetic Lifter                   | 86  |
| 647     | Spark Plug Brush                  | 85  |
| 650C    | Club Hammers                      | 125 |
| 666-042 | Torsion Bit Set                   | 65  |
| 666-045 | Torsion Bit Set                   | 65  |
| 687     | Screwdriver Bits - TX             | 63  |
| 690     | Screwdriver Bits - PH             | 63  |
| 690     | Screwdriver Bits - PZD            | 63  |
| 7       | Combination Spanners              | 7   |
| 7       | Combination Spanner Sets          | 7   |
| 702     | Feeler Gauge Set - Fan Pattern    | 88  |
| 7112    | Open End Fitting                  | 163 |
| 7118    | Open End Fitting                  | 164 |
| 7212    | Ring End Fitting                  | 164 |
| 7218    | Ring End Fitting                  | 164 |
| 7412    | Ratchet Head                      | 165 |
| 7418    | Ratchet Head                      | 165 |
| 754     | Ratchet Head                      | 165 |
| 756     | Torque Screwdriver                | 160 |
| 759     | TSN Slipper Torque Wrench         | 155 |
| 760     | Breaking Torque Wrench            | 158 |
| 761     | TSP Slipper Torque Wrench         | 156 |
| 762     | Slipping Torque Wrench            | 156 |
| 7R      | Ratchet Spanner Sets              | 8   |
| 7R      | Ratchet Spanners                  | 8   |

## ARTICLE INDEX

| Article No. | Page |
|-------------|------|
|-------------|------|

|                |                                    |     |
|----------------|------------------------------------|-----|
| 8000 - A0-A4   | Circlip Pliers - External Straight | 74  |
| 8000 - A01-A41 | Circlip Pliers - External Bent     | 74  |
| 8000 - A5      | Circlip Pliers - External Straight | 75  |
| 8000 - A51     | Circlip Pliers - External Bent     | 75  |
| 8000 - J0-J4   | Circlip Pliers - Internal Straight | 75  |
| 8000 - J01-J41 | Circlip Pliers - Internal Bent     | 75  |
| 8000 - J5      | Circlip Pliers - Internal Straight | 76  |
| 8000 - J51     | Circlip Pliers - Internal Bent     | 76  |
| 8120           | Flat Nose Pliers                   | 69  |
| 8132           | Telephone Pliers - Straight        | 70  |
| 8132AB         | Telephone Pliers - Angled          | 70  |
| 8133           | Multiple Pliers                    | 70  |
| 8134           | Installation Pliers                | 87  |
| 8136           | Mechanic's Pliers                  | 71  |
| 8146           | Wire Stripping Pliers              | 72  |
| 8147           | Heavy Duty Cable Stripping Tool    | 72  |
| 8148           | Stripping Tool for Data Cable      | 73  |
| 8178           | Bolt Cutters                       | 81  |
| 8178           | Bolt Cutter Spares                 | 81  |
| 8200           | Torque Angle Indicator             | 154 |
| 8220           | Universal Puller with Twin Grip    | 178 |
| 8250           | Combination Pliers - Heavy Duty    | 68  |
| 8250-225 TL    | Power Combination Pliers           | 68  |
| 8260           | Fencing Pliers                     | 68  |
| 8276           | Balance-Weight Pliers              | 87  |
| 8280 E-200     | VDE Combination Pliers             | 68  |
| 8301 / 8302    | Dial Measuring Torque Wrench       | 158 |
| 8316           | Side Cutters - American Pattern    | 69  |
| 8320 JL        | Wire Rope Cutters                  | 72  |
| 8340 / 8340Z   | Mini Bolt Cutters                  | 80  |
| 8380           | Tower Pincers                      | 69  |
| 8516           | Tin Snips - Scissors Pattern       | 81  |
| 8531           | Tin Snips - Straight Pattern       | 81  |
| 8551           | Bolt Extractor Set                 | 182 |
| 8554           | Dremometer Torque Wrench           | 150 |
| 8560           | Dremometer Torque Wrench           | 151 |
| 8561           | Dremometer Torque Wrench           | 152 |
| 8562           | Dremometer Torque Wrench           | 152 |
| 8562           | Puller - Twin Grip                 | 178 |
| 8563           | Puller - Triple Grip               | 178 |
| 8563 D & DR    | Dremometer Torque Wrench           | 153 |
| 8564           | Puller - Twin Grip                 | 179 |
| 8564           | Dremometer Torque Wrench           | 154 |
| 8565           | Puller - Triple Grip               | 179 |
| 8566           | Puller - Twin Grip                 | 179 |
| 8567           | Puller - Triple Grip               | 179 |
| 8568           | Puller - Twin Grip                 | 180 |
| 8569           | Puller - Triple Grip               | 180 |

## ARTICLE INDEX

| Article No. | Page |
|-------------|------|
|-------------|------|

|           |                               |     |
|-----------|-------------------------------|-----|
| 8570..... | Dremometer Torque Wrench..... | 153 |
| 8571..... | Dremometer Torque Wrench..... | 153 |
| 8572..... | Dremometer Torque Wrench..... | 154 |
| 8573..... | Dremometer Torque Wrench..... | 152 |
| 8600..... | Stud Extractor.....           | 181 |
| 8601..... | Ball Pein Hammer.....         | 125 |
| 8612..... | Electronic Torque Tester..... | 163 |
| 905.....  | Creepers.....                 | 90  |
| 906.....  | Kneeling Board.....           | 90  |
| 907.....  | Fender Protector.....         | 90  |
| 95.....   | Flat Cold Chisel.....         | 126 |
| 96.....   | Cross-Cut Chisel.....         | 126 |
| 99.....   | Drift Punch.....              | 126 |
| 99.....   | Drift Punch.....              | 126 |

### A

|                                               |         |
|-----------------------------------------------|---------|
| Apprentice / Artisan's Toolkits.....          | 188-204 |
| Apprentice Trunk Toolkit.....                 | 193     |
| ATB SE Adjustable Breaking Torque Wrench..... | 157     |
| Automotive Electrician's Toolkit.....         | 191     |

### B

|                         |     |
|-------------------------|-----|
| BV Bench Vice.....      | 114 |
| Brass Pump Oil Can..... | 89  |

### C

|                                     |                             |         |
|-------------------------------------|-----------------------------|---------|
| C19.....                            | Socket (MM) (AF) 1/2" ..... | 30      |
| C19.....                            | Socket Sets .....           | 35-37   |
| C32.....                            | Socket (MM) (AF) 3/4" ..... | 42      |
| C32.....                            | Socket Sets .....           | 43      |
| Caliper Piston Reset Tool.....      |                             | 94      |
| Capture .....                       |                             | 162-163 |
| Club Hammers.....                   |                             | 125     |
| Clutch Kit .....                    |                             | 96      |
| Construction Machinery Toolkit..... |                             | 188-189 |
| Cylinder-Honing Tool / Set .....    |                             | 95      |

### D

|              |                                   |       |
|--------------|-----------------------------------|-------|
| D19.....     | Socket (MM) (AF) 1/2".....        | 30-31 |
| D19.....     | Socket Sets.....                  | 35-37 |
| D19L.....    | Extra Deep Socket Bi-hexagon..... | 31    |
| D21.....     | Sockets 1".....                   | 45    |
| D21 EMU..... | Socket Set 1".....                | 45    |
| D30.....     | Socket (MM) (AF) 3/8".....        | 25    |
| D30FMZ.....  | Socket Set 3/8".....              | 26    |
| D30HMZ.....  | Socket Set 3/8".....              | 26    |
| D30NZZ.....  | Socket Set 3/8".....              | 27    |
| D32.....     | Socket (MM) (AF).....             | 42    |

## ARTICLE INDEX

| Article No. | Page |
|-------------|------|
|-------------|------|

|                         |                                   |         |
|-------------------------|-----------------------------------|---------|
| D32 .....               | Socket Sets .....                 | 43      |
| Dremometer.....         | Torque Wrench.....                | 150-154 |
| DMK.....                | Dremaster Torque Wrench .....     | 149     |
| DMSE.....               | Dremaster Torque Wrench .....     | 149     |
| DSG Clutch Kit .....    |                                   | 96      |
| DVI-20L/Z & 28L/Z ..... | Dremoplus Torque Multiplier ..... | 174     |
| DVV-13Z .....           | Dremoplus Torque Multiplier ..... | 175     |
| DVV-540RS .....         | Dremoplus Torque Multiplier ..... | 173     |
| DVV-40Z & 40ZRS .....   | Dremoplus Torque Multiplier ..... | 172     |
| DVV-60-130ZRS....       | Dremoplus Torque Multiplier ..... | 173     |

### E

|                                                       |     |
|-------------------------------------------------------|-----|
| Eccentric Angle Bender.....                           | 99  |
| Electrician's Light Current Toolkit.....              | 200 |
| Electrician's Medium Current Toolkit.....             | 201 |
| Electrician's & Refrigeration Mechanic's Toolkit..... | 192 |
| Electrician's Toolcase.....                           | 91  |
| Electrician's Toolset.....                            | 140 |
| Engineer's Scriber.....                               | 88  |
| Engineer's Square.....                                | 88  |
| ET2SA Electronic Torque Wrench.....                   | 158 |
| EV Engineers Vice.....                                | 114 |

### F

|                       |     |
|-----------------------|-----|
| Farmer's Toolkit..... | 202 |
|-----------------------|-----|

### G

|                                          |     |
|------------------------------------------|-----|
| G-Clamps.....                            | 89  |
| General Artisan's Toolkit.....           | 203 |
| Glow / Spark Plug Socket Wrench Set..... | 95  |

### H

|                   |                                 |     |
|-------------------|---------------------------------|-----|
| HSP.....          | Hydraulic Pressure Spindle..... | 180 |
| H 42 CKEL-09..... | Allen Key Set.....              | 61  |

### I

|                             |                                        |     |
|-----------------------------|----------------------------------------|-----|
| IKS19 .....                 | Allen Key Socket .....                 | 33  |
| IKS20 .....                 | Screwdriver Bit Socket 1/4" .....      | 22  |
| IKS20 PZD .....             | Screwdriver Bit Socket 1/4" .....      | 22  |
| IN19 .....                  | Allen Key Socket (MM) (AF) 1/2" .....  | 32  |
| IN19 .....                  | Allen Key Socket Sets .....            | 38  |
| IN19L .....                 | Extra Long Allen Key Socket 1/2" ..... | 33  |
| IN20L .....                 | Screwdriver Bit Socket 1/4" .....      | 22  |
| IN30 .....                  | Allen Key Socket 3/8" .....            | 26  |
| IN32 .....                  | Allen Key Sockets 3/4" .....           | 42  |
| Industrial Puller Kit ..... |                                        | 179 |
| Inside Spring Caliper ..... |                                        | 88  |
| INK19 .....                 | Impact Allen Key Socket 1/2" .....     | 48  |

## ARTICLE INDEX

| Article No. | Page |
|-------------|------|
|-------------|------|

|                                                               |                                               |    |
|---------------------------------------------------------------|-----------------------------------------------|----|
| INK21.....                                                    | Impact Allen Key Socket 1".....               | 52 |
| INK32.....                                                    | Impact Allen Key Socket 3/4".....             | 50 |
| INR19L.....                                                   | Allen Key Socket - Long Spline Ribe 1/2"..... | 32 |
| INX19 - INX19L.....                                           | Allen Key Socket - Spline Bit 1/2".....       | 33 |
| IS20.....                                                     | Screwdriver Bit Socket 1/4".....              | 22 |
| ITX19.....                                                    | TX Allen Key Socket - Male 1/2".....          | 39 |
| ITX19.....                                                    | TX Allen Key Socket Set - Male 1/2".....      | 34 |
| ITX19L.....                                                   | Long TX Allen Key Socket - Male 1/2".....     | 34 |
| ITX20.....                                                    | Screwdriver Bit Socket 1/4".....              | 22 |
| ITX30.....                                                    | TX Allen Key Socket - Male 3/8".....          | 26 |
| ITX19/TX19 FMT...TX Allen Key Socket Set - Male & Female..... |                                               | 38 |

**J**

|                     |  |    |
|---------------------|--|----|
| Junior Hacksaw..... |  | 89 |
|---------------------|--|----|

**K**

|                                                          |                                   |       |
|----------------------------------------------------------|-----------------------------------|-------|
| K19.....                                                 | Impact Sockets 1/2".....          | 47    |
| K19.....                                                 | Impact Socket Sets.....           | 46-47 |
| K19L.....                                                | Impact Socket.....                | 47    |
| K21.....                                                 | Impact Socket.....                | 51    |
| K21-21.....                                              | Impact Socket Set 1".....         | 51    |
| K21L.....                                                | Impact Socket - Long Pattern..... | 51    |
| K32.....                                                 | Impact Sockets.....               | 49    |
| K32-18.....                                              | Impact Socket Set 3/4".....       | 49    |
| K32L.....                                                | Impact Sockets.....               | 49    |
| K37.....                                                 | Impact Sockets.....               | 53    |
| KB1932.....                                              | Impact Socket Converter.....      | 48    |
| KB1970/75.....                                           | Safety Rings & Pins.....          | 48    |
| KB1900.....                                              | Impact Driver.....                | 48    |
| KB1990.....                                              | Impact Extension.....             | 48    |
| KB1995.....                                              | Impact Universal Joint.....       | 48    |
| KB2132.....                                              | Impact Socket Reducer.....        | 52    |
| KB2137.....                                              | Impact Socket Converter.....      | 52    |
| KB2170/75.....                                           | Safety Rings & Pins.....          | 52    |
| KB2190.....                                              | Impact Extension.....             | 52    |
| KB2195.....                                              | Impact Universal Joint.....       | 52    |
| KB3219.....                                              | Impact Socket Reducer.....        | 50    |
| KB3221.....                                              | Impact Socket Converter.....      | 50    |
| KB3270/75.....                                           | Safety Rings & Pins.....          | 50    |
| KB3290.....                                              | Impact Extension.....             | 50    |
| KB3295.....                                              | Impact Universal Joint.....       | 50    |
| KB3721.....                                              | Impact Socket Reducer.....        | 53    |
| KB3770/75.....                                           | Safety Rings & Pins.....          | 53    |
| KB3790.....                                              | Impact Extension.....             | 53    |
| KD-26R.....                                              | Tubular Box Spanner Set.....      | 84    |
| KL-5501B.....                                            | Spring Compressor.....            | 93    |
| KL-0104-2.....                                           | Spreading Tool-Adjustable.....    | 94    |
| KL-0199-12 / KL-0199-125 Cylinder-Honing Tool / Set..... |                                   | 95    |

## ARTICLE INDEX

| Article No. | Page |
|-------------|------|
|-------------|------|

|                                                         |                                |     |
|---------------------------------------------------------|--------------------------------|-----|
| KL-0111-1.....                                          | Caliper Piston Reset Tool..... | 94  |
| KL-0369-900 KA Glow / Spark Plug Socket Wrench Set..... |                                | 95  |
| KL-0500-45 KA...Clutch Kit.....                         |                                | 96  |
| KL-0500-61 KA...DSG Clutch Kit.....                     |                                | 96  |
| KL-0173-460 K Re-Threading Kit.....                     |                                | 97  |
| KL-0173-460X.....                                       | Thread Rolling Set.....        | 97  |
| KL-0173-612 A.....                                      | Re-Threading Tool.....         | 97  |
| KL-4600-200 High Voltage VDE Assortment.....            |                                | 141 |

**L**

|                                 |  |     |
|---------------------------------|--|-----|
| LAW Cordless Torque Wrench..... |  | 167 |
| LDA Cordless Torque Wrench..... |  | 166 |

**M**

|                             |  |     |
|-----------------------------|--|-----|
| Manual Bending Toolset..... |  | 99  |
| Mechanic's Toolkit.....     |  | 190 |
| Millwright Toolkit.....     |  | 195 |

**O**

|                                |  |     |
|--------------------------------|--|-----|
| Outside Spring Caliper.....    |  | 88  |
| OX 248 E Axe.....              |  | 129 |
| OX 244 E Hatchet.....          |  | 129 |
| OX 235 E Forestry Hatchet..... |  | 129 |

**P**

|                                  |  |     |
|----------------------------------|--|-----|
| Pegboard Accessories.....        |  | 114 |
| Precision Engineering Tools..... |  | 88  |

**Q**

|                            |  |     |
|----------------------------|--|-----|
| QS Torque Screwdriver..... |  | 161 |
|----------------------------|--|-----|

**R**

|               |                                      |     |
|---------------|--------------------------------------|-----|
| REF 10SD..... | 10 Screwdriver Assortment.....       | 121 |
| REF A.....    | C19/22 Assortment.....               | 119 |
| REF B.....    | C19 Assortment.....                  | 119 |
| REF C.....    | 1B Assortment.....                   | 119 |
| REF D.....    | C19/IN19 Assortment.....             | 119 |
| REF E.....    | 1B/62H Assortment.....               | 119 |
| REF F.....    | D19/ACC/SKT Assortment.....          | 119 |
| REF G.....    | C32/6 Assortment.....                | 119 |
| REF H.....    | D19/22/ACC Assortment.....           | 119 |
| REF I.....    | D19 Assortment.....                  | 120 |
| REF J.....    | D19/IN19 Assortment.....             | 120 |
| REF K.....    | D32/6 Assortment.....                | 120 |
| REF L.....    | PL/137/36 Assortment.....            | 120 |
| REF MF.....   | PL/81/82/83 3 Pliers Assortment..... | 120 |
| REF M.....    | PL/81/82/83 3 Pliers Assortment..... | 120 |
| REF N-10..... | 10 Screwdriver Assortment.....       | 120 |

## ARTICLE INDEX

| Article No. | Page |
|-------------|------|
|-------------|------|

|                            |                                          |     |
|----------------------------|------------------------------------------|-----|
| REF O .....                | 6 Screwdriver Assortment .....           | 120 |
| REF OF .....               | 6 Screwdriver Assortment .....           | 120 |
| REF P .....                | 4 EXT - T/BAR Assortment.....            | 121 |
| REF PF .....               | 4 Extension + T/Bar Assortment.....      | 121 |
| REF Q .....                | 4 ACC - Power Bar Assortment .....       | 121 |
| REF QF.....                | 4 Acc+Power Bar Assortment.....          | 121 |
| REF RF .....               | C19/Z94 Assortment.....                  | 121 |
| REF SF .....               | 1B/145 Assortment .....                  | 121 |
| REF VF .....               | Ph & Stubby Screwdriver Assortment ..... | 121 |
| REF WF .....               | Mec & Elec Screwdriver Assortment .....  | 121 |
| RE-Threading Toolkit ..... |                                          | 97  |
| RE-Threading Tool .....    |                                          | 97  |

### S

|                                       |                                           |     |
|---------------------------------------|-------------------------------------------|-----|
| S2032-05 .....                        | AdapterSet 1/4" - 3/4" .....              | 44  |
| S8000 .....                           | Circlip Pliers Set .....                  | 76  |
| S8003 JC .....                        | Pliers Set.....                           | 71  |
| S8140 A .....                         | Crimping Pliers Set - Automotive.....     | 73  |
| S8140 D .....                         | Crimping Pliers Set - Data Com.....       | 73  |
| S8140 E.....                          | Crimping Pliers Set - Electronics.....    | 73  |
| S8140 J .....                         | Crimping Pliers Set - Industustrial ..... | 73  |
| S8303 JC.....                         | Pliers Set .....                          | 71  |
| S8393 .....                           | Pliers Set.....                           | 71  |
| Safety Glasses & Bag.....             |                                           | 89  |
| Spreading Tool - Adjustable .....     |                                           | 94  |
| Spring Compressor .....               |                                           | 93  |
| Spring Divider .....                  |                                           | 88  |
| SR-C19Z.....                          | Socket Set 1/2" .....                     | 34  |
| SR-D19Z .....                         | Socket Set 1/2" .....                     | 34  |
| Steel Ruler .....                     |                                           | 87  |
| Student Electrician's Toolkit.....    |                                           | 194 |
| Student Boiler Maker Toolkit.....     |                                           | 196 |
| Student Megatronics Toolkit .....     |                                           | 197 |
| Student Diesel Mechanic Toolkit ..... |                                           | 198 |
| Student Fitter Toolkit.....           |                                           | 199 |

### T

|                                                 |                                   |     |
|-------------------------------------------------|-----------------------------------|-----|
| TBI1000 Industrial Breaking Torque Wrench ..... |                                   | 159 |
| Technician's Rucksack Toolkit.....              |                                   | 204 |
| Thread Rolling Set .....                        |                                   | 97  |
| TLS PRO Preset Torque Screwdriver .....         |                                   | 161 |
| TLS Torque Screwdriver.....                     |                                   | 161 |
| Tool Rucksack.....                              |                                   | 91  |
| Tool Jacket .....                               |                                   | 91  |
| TSC Slipper Torque Wrench.....                  |                                   | 156 |
| TX19 .....                                      | TX Socket - Female 1/2" .....     | 34  |
| TX19 .....                                      | TX Socket Set - Female 1/2" ..... | 39  |

## ARTICLE INDEX

| Article No. | Page |
|-------------|------|
|-------------|------|

|            |                               |    |
|------------|-------------------------------|----|
| TX30 ..... | TX Socket - Female 3/8" ..... | 26 |
| TX4.....   | Flat Ring Spanner.....        | 10 |

### V

|                                              |                                       |     |
|----------------------------------------------|---------------------------------------|-----|
| VDE 1001 .....                               | Tool Set.....                         | 141 |
| VDE 1100-1094.....                           | Tool Set.....                         | 140 |
| VDE 1101-003 .....                           | Tool Set.....                         | 138 |
| VDE 2160 PH .....                            | Phillips Screwdriver.....             | 133 |
| VDE 2160-2170.....                           | Screwdriver Set.....                  | 132 |
| VDE 2170 .....                               | Electrician's Screwdriver .....       | 133 |
| VDE 2133 .....                               | Nut Drivers .....                     | 132 |
| VDE 2133 .....                               | Nut Driver Set .....                  | 132 |
| VDE 2E .....                                 | Single Ended Spanner.....             | 132 |
| VDE 4507 .....                               | Torque Wrench.....                    | 133 |
| VDE 4508 .....                               | Torque Wrench.....                    | 134 |
| VDE 4522 .....                               | Cable Knife .....                     | 139 |
| V 180 .....                                  | Cable Shears .....                    | 139 |
| V 4614 PLUS .....                            | Voltage Tester .....                  | 139 |
| VDE S8003 H.....                             | VDE Pliers Set.....                   | 138 |
| VDE 8098 H.....                              | Stripping Pliers.....                 | 137 |
| VDE 8099 H.....                              | Stripping Pliers .....                | 137 |
| VDE 8120 H.....                              | Flat Nose Pliers .....                | 137 |
| VDE 8122 H.....                              | Round Nose Pliers .....               | 138 |
| VDE 8132 H.....                              | Telephone Pliers .....                | 135 |
| VDE 8132AB H.....                            | Telephone Pliers - Angled.....        | 137 |
| VDE 8250 H.....                              | Combination Pliers.....               | 135 |
| VDE 8314 H.....                              | Side Cutters.....                     | 135 |
| VDE 8316 H.....                              | Side Cutters - American Pattern ..... | 136 |
| VDE 894 .....                                | Single Open Ended Spanner.....        | 132 |
| VDE KL-4600-200 High Voltage Assortment..... |                                       | 141 |
| Videoscope .....                             |                                       | 192 |

### W

|                   |  |    |
|-------------------|--|----|
| Waist Pouch ..... |  | 90 |
|-------------------|--|----|





## CERTIFICATE OF ACCREDITATION

*In terms of section 22(2) (b) of the Accreditation for Conformity Assessment, Calibration and Good Laboratory Practice Act, 2006 (Act 19 of 2006), read with sections 23(1), (2) and (3) of the said Act, I hereby certify that:-*

**GEDORE TOOLS SA (PTY) LTD**

**Co. Reg. No.: 1965/000340/07**

**Facility Accreditation Number: 838**

is a South African National Accreditation System accredited Calibration laboratory  
provided that all SANAS conditions and requirements are complied with

This certificate is valid as per the scope as stated in the accompanying scope of accreditation  
Annexure "A", bearing the above accreditation number for

### TORQUE METROLOGY

The facility is accredited in accordance with the recognised International Standard

**ISO/IEC 17025:2017**

The accreditation demonstrates technical competency for a defined scope and the operation of a  
laboratory quality management system

While this certificate remains valid, the Accredited Facility named above is authorised to use the  
relevant SANAS accreditation symbol to issue facility reports and/or certificates

  
Mr R Jobias  
Chief Executive Officer

Effective Date: 16 July 2019  
Certificate Expires: 01 July 2024



This certificate has been independently verified in accordance with the Codes of Good Practice, issued in terms of section 9(1) of the Broad Based Black Economic Empowerment Act 53 of 2003 (Gazetted 11 October 2013).

## MEASURED ENTITY

Company Name **GEDORE TOOLS SA (PTY) LTD**  
Address **103 SHEPSTONE ROAD, NEW GERMANY, 3610**  
Registration Number **1965/000340/07**  
VAT Number **4120104791**

## BBBEE SCORE PER ELEMENT

| POINTS                            | WEIGHTING     | ACTUAL       |
|-----------------------------------|---------------|--------------|
| Ownership                         | 25.00         | 00.00        |
| Management Control                | 19.00         | 13.27        |
| Skills Development                | 20.00         | 10.74        |
| Enterprise & Supplier Development | 42.00         | 32.13        |
| Socio-Economic Development        | 05.00         | 04.40        |
| <b>TOTAL</b>                      | <b>111.00</b> | <b>60.54</b> |

## BBBEE STATUS - LEVEL EIGHT CONTRIBUTOR

|                                    |        |                                       |     |
|------------------------------------|--------|---------------------------------------|-----|
| BEE Procurement Recognition Level  | 10.00% | Empowering Supplier                   | Yes |
| Black Ownership                    | 00.00% | Modified Flow-Through Applied         | No  |
| Black Female Ownership             | 00.00% | Exclusion Principle Applied           | No  |
| Designated Group Suppliers         | 00.00% | Discounting Principal Applied         | Yes |
| Black Youth                        | 00.00% | Y.E.S Initiative Applied              | No  |
| Black Disabled                     | 00.00% | Y.E.S Target and 2.5% Absorption      | No  |
| Black Unemployed                   | 00.00% | 1.5 x Y.E.S Target and 5% Absorption  | No  |
| Black People Living in Rural areas | 00.00% | Double Y.E.S Target and 5% Absorption | No  |
| Black Military Veterans            | 00.00% |                                       |     |

Applicable Scorecard

Generic Amended Codes of Good Practice Scorecard

Applicable BEE Code

Gazetted Codes 42496 and 36928

Financial Period Assessed

Year Ended 31 December 2022

Issued Date

13 December 2023

Expiry Date

12 December 2024

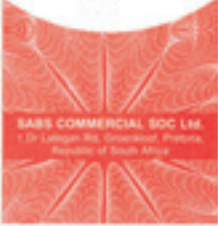
Validity Period

12 Months from date of Issue

Certificate Number

SG-230233-11779-KG

Technical Signatory  
Stephanie Greyling

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| <br><br> | <h1>SABS</h1> <hr style="border: 2px solid red;"/> <h2><i>Permit to Apply Certification Mark</i></h2> <p><small>Subject to the provisions of the Standards Act, 2008 (Act 8 of 2008), the relevant regulations made thereunder and the permit conditions contained in the under mentioned schedules, this permit authorizes</small></p> <p><b>GEDORE TOOLS SA (PTY) LTD</b><br/> <b>Co Reg. 1965/000340/07</b><br/> <b>NEW GERMANY</b></p> <p>to apply the certification mark</p> <div style="text-align: center;">  </div> <p>in respect of the mark specification</p> <p><b>SANS 1028:2021</b><br/> <b>TO: PIPE WRENCHES (METRIC UNITS)</b></p> <p><small>This permit, including schedule 1 to 3 which forms an integral part thereof:</small></p> <ul style="list-style-type: none"> <li>- is issued without alteration;</li> <li>- is identified by the applicable permit number;</li> <li>- is subject to any condition or limitation contained therein;</li> <li>- is valid subject to ongoing compliance with permit conditions;</li> <li>- bears the embossed SABS Commercial seal; in the absence of the seal, the permit and the schedule shall be invalid; and</li> <li>- the permit may be authenticated by referring to the register of "Certified Clients" on the SABS Commercial website (<a href="http://www.sabs.co.za">www.sabs.co.za</a>)</li> <li>- Scheme Type 5 permit applies to products that have been tested.</li> </ul> <table border="0" style="width: 100%;"> <tr> <td style="width: 40%;">Permit Number</td> <td><b>9668/15323</b></td> </tr> <tr> <td>Effective Date</td> <td><b>16 February 2024</b></td> </tr> <tr> <td>Expiry Date</td> <td><b>13 March 2027</b></td> </tr> <tr> <td>Date of Original Registration</td> <td><b>14 March 2012</b></td> </tr> <tr> <td>Chief Executive Officer</td> <td>  </td> </tr> </table> <div style="text-align: right;">  </div> | Permit Number                                                                        | <b>9668/15323</b> | Effective Date | <b>16 February 2024</b> | Expiry Date | <b>13 March 2027</b> | Date of Original Registration | <b>14 March 2012</b> | Chief Executive Officer |  |
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|                                                                                                                                                                                                                                                                  | Chief Executive Officer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                   |                |                         |             |                      |                               |                      |                         |                                                                                      |

## DISCLAIMER

As we are constantly improving our products, we reserve the right to make changes as the need arises.

The actual products delivered may therefore vary from those depicted in the catalogue. We do not provide any warranties in connection with technical and safety information provided in this catalogue. All customers are therefore advised to refer directly to their manufacturer's specifications and the advice and standards of the relevant professional/trade associations.

All products remain the property of GEDORE Tools SA (Pty) Ltd until paid for in full.

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**"Our guarantee covers  
all tools against break-  
age under normal work-  
ing conditions and is  
subject to fair wear  
and tear."**



## GEDORE TOOLS SA WARRANTY POLICY

At GEDORE we take pride in the quality of our products and services and we review all warranty claims with the aim of using the information gained for further product improvement.

Every GEDORE tool is covered by a lifetime guarantee against defective material and workmanship. Provided that the tool has been used correctly for its intended purpose and allowances have been made for wear and tear, this guarantee will allow for the repair or exchange of the tool.

While some deterioration through extensive use might be unavoidable, we will adopt a generous approach when viewing warranty claims. We do, however, set warranty limitations on wear and tear, obvious misuse, missing parts and purposely altered tools to protect ourselves against unreasonable claims.

Should the product fall outside the parameters of the warranty criteria, we will advise the customer on the repair or replacement cost of the article.

## TORQUE WRENCH WARRANTY & CALIBRATION POLICY

### Warranty

In terms of GEDORE'S warranty policy, all torque wrenches are covered by a lifetime guarantee against defective materials and workmanship. Provided that the tool has been correctly used for its intended purpose and allowances have been made for the wear and tear of moving parts, the torque wrench will be repaired free of charge.

The warranty does not cover torque wrenches which have been misused or which have experienced wear and tear through extensive use.

A warranty return will be assessed by our technical staff and if the return falls outside of our warranty policy, the customer will be notified and quoted for the repair.

### Calibration

A standard calibration and the issue of a test certificate will be provided as standard practice on any repair conducted.

A SANAS calibration and the issue of a SANAS calibration certificate will be done on request at a nominal charge.

### Obsolescence

Please note that while GEDORE uses its best endeavours to carry significant stocks of spares to support its torque wrench product range, some spares for older discontinued items are no longer available. In such cases, repair of the torque wrench may not be possible.





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