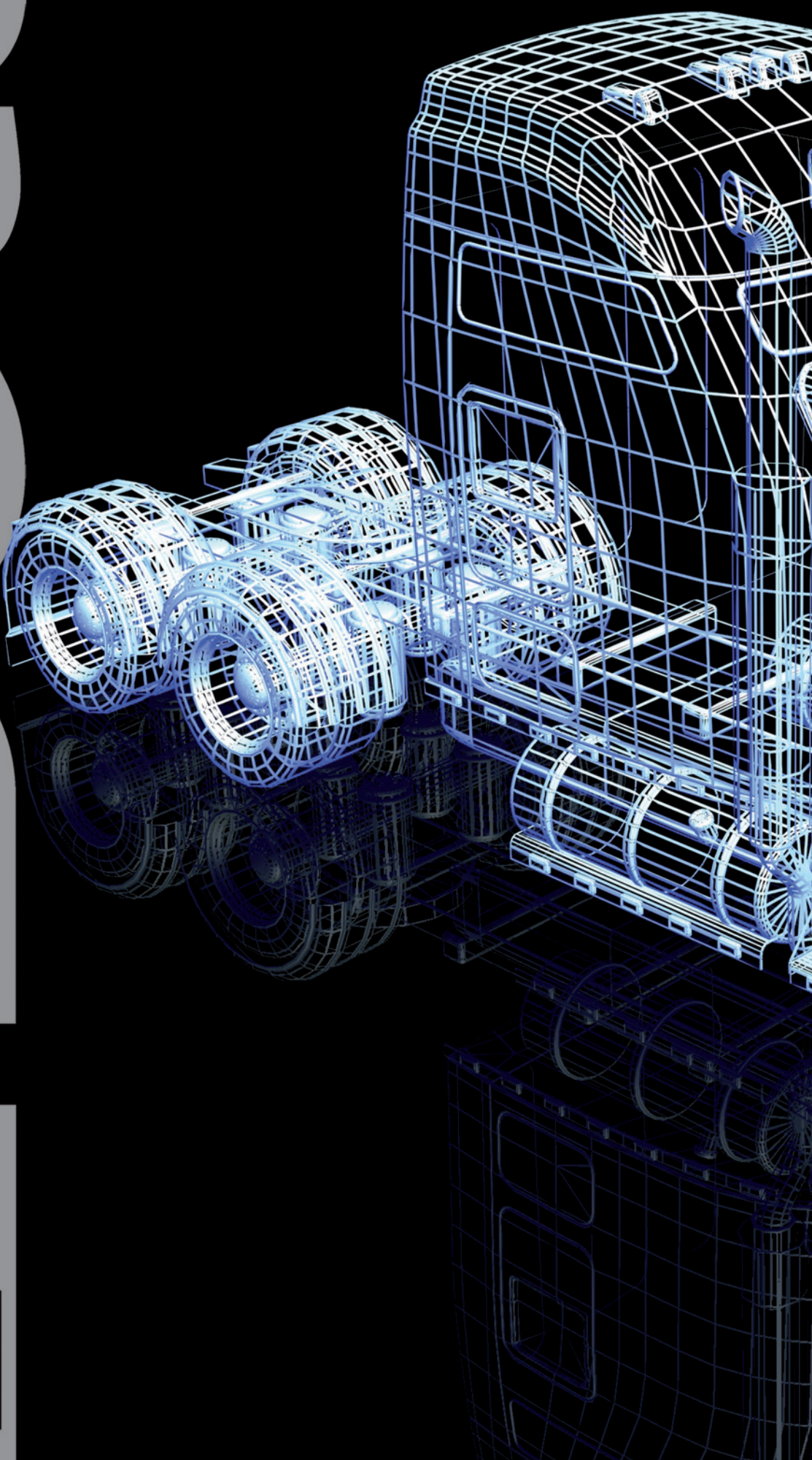
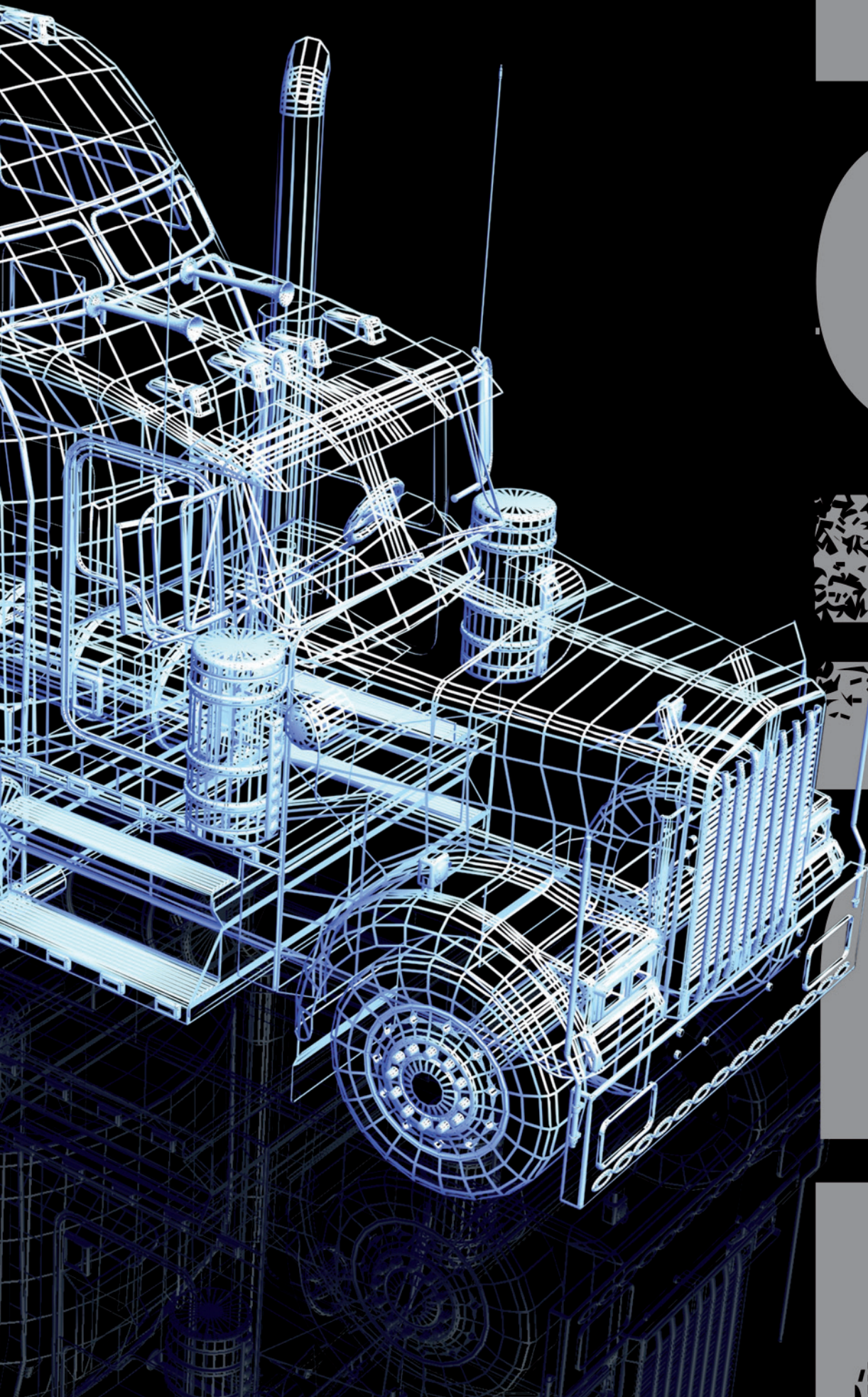




Beta TRUCK

es
te
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Large, stylized, white text on a black background, partially visible on the right side of the image. The text appears to be a large letter 'E' or 'B'.

BetaSTORY

Beta Utensili leads the way in the production of professional hand tools. The quality and reliability of Beta's products are guaranteed by over eighty years' expertise and tradition.

Beta's products are continuously updated and their quality is highly appreciated by the mechanics of the best **Formula 1** and **World Motorcycling Championship** racing teams.

The company's ongoing commitment to excellence has involved all its processes and allowed its Quality System to be certified according to **ISO 9001** as early as 1995.

www.beta-tools.com

TRUCK 2012

The "**Truck 2012**" catalogue contains an accurate selection of products specially designed for the industrial vehicle, people's transportation and special vehicle industries.

General maintenance, diagnostics, torque control, workwear, lifting wire ropes and accessories: all the items – from more traditional to new ones – are supported by useful technical explanations.

A convenient selection from a product range which exceeds **10,000 coded items**, an essential instrument for finding the products that are best suited to satisfy the most demanding professionals' requirements.



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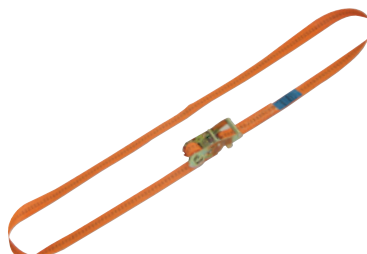
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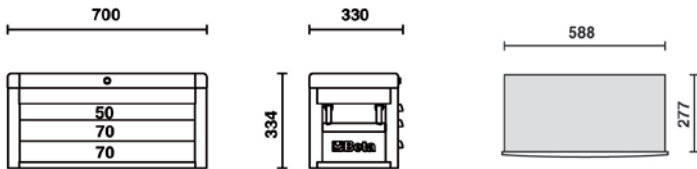
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CONTAINERS &



ASSORTMENTS

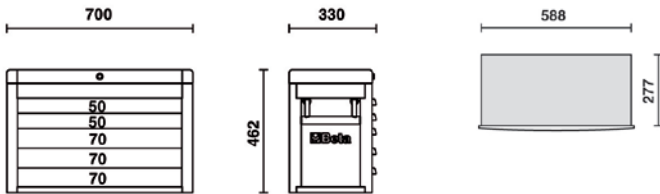


C22S

Portable tool chest with three drawers

- Three drawers (588x277 mm) with ball bearing slides:
 - 1 drawer, 50 mm high
 - 2 drawers, 70 mm high.
- Front centralized safety lock.
- Retractable side handles for ease of handling.

C22S O	21 kg	022000501
C22S G	21 kg	022000502
C22S R	21 kg	022000503

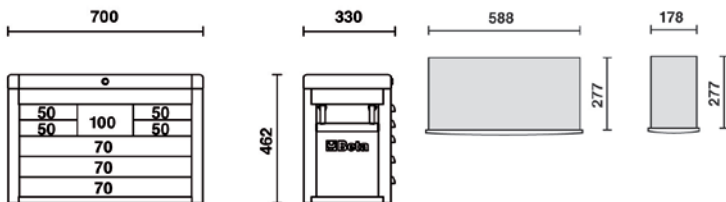


C23S

Portable tool chest with five drawers

- Five drawers (588x277 mm) with ball bearing slides:
 - 2 drawers, 50 mm high
 - 3 drawers, 70 mm high.
- Front centralized safety lock.
- Retractable side handles for ease of handling.

C23S O	26 kg	023000501
C23S G	26 kg	023000502
C23S R	26 kg	023000503



C23SC

Portable tool chest with eight drawers

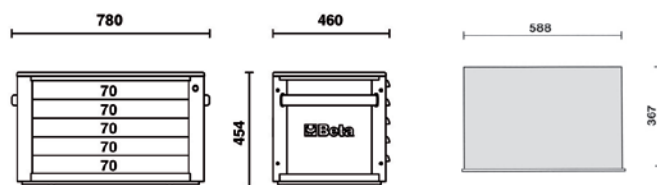
- Eight drawers with ball bearing slides:
 - 4 drawers, 50 mm high
 - 3 drawers, 70 mm high
 - 1 drawer, 100 mm high.
- Front centralized safety lock.
- Retractable side handles for ease of transport.

C23SC O	28 kg	023000511
C23SC G	28 kg	023000512
C23SC R	28 kg	023000513

C23ST

Portable tool chest with five drawers

- Five drawers (588x367 mm) with ball bearing slides: 5 drawers, 70 mm high.
- Front centralized safety lock.
- Load capacity of one drawer: 15 kg
- Can be fitted with kit composed of 4 castors and 1 handle (2300ST/KIT)



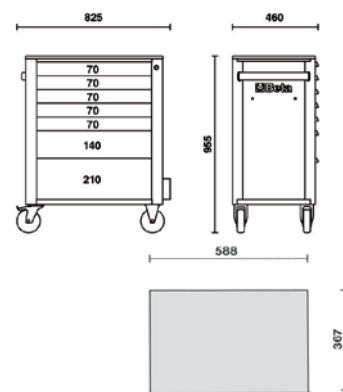
C23ST O	38 kg	023000521
C23ST G	38 kg	023000522
C23ST R	38 kg	023000523

C24S/7

Mobile roller cab with seven drawers

- Seven drawers (588x367 mm) with ball bearing slides: 5 drawers, 70 mm high, 1 drawer, 140 mm high, 1 drawer, 210 mm high
- Drawer bases protected by foamed rubber mats.
- Four castors 125 mm in Ø: 2 fixed and 2 steering (one with brake).
- Front centralized safety lock.
- Static load capacity: 800 kg.
- Thermoplastic worktop designed to match tool chests C22S, C23S, C23SC and C23ST
- Integrated side bottle holder.
- Paper roll holder item 2400S-R/PC can also be included.

C24S/7 O	61 kg	024002071
C24S/7 G	61 kg	024002072
C24S/7 R	61 kg	024002073

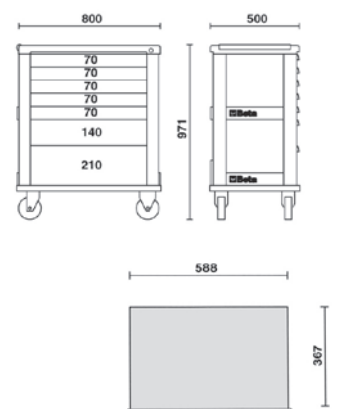


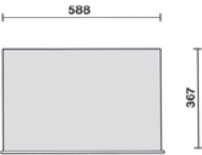
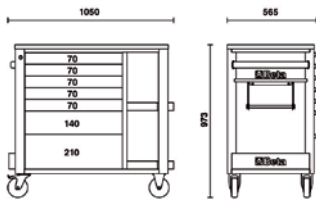
C39

Roller cab with seven drawers

- Seven drawers (588x367 mm) with ball bearing slides: 5 drawers, 70 mm high, 1 drawer, 140 mm high, 1 drawer, 210 mm high.
- Drawer bases protected by foamed rubber mats.
- Four castors 125 mm in Ø: 2 fixed and 2 steering (1 with brake).
- Front centralized safety lock.
- Opening system throughout length of drawer.
- Static load capacity: 1000 kg.
- Thermoplastic worktop.
- Integrated side and rear bottle holders.
- Integrated paper roll holder.
- Uprights and drawer front made of aluminium.

C39 O	59 kg	039000001
C39 G	59 kg	039000002
C39 R	59 kg	039000003



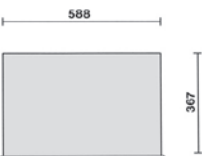
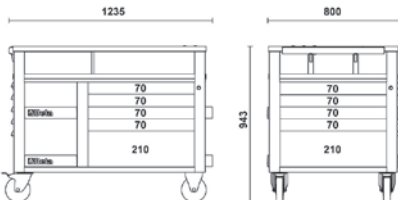


C24SL

Mobile roller cab with seven drawers and side tops

- Seven drawers (588x367 mm) with ball bearing slides: 5 drawers, 70 mm high
1 drawer, 140 mm high
1 drawer, 210 mm high.
- Drawer bases protected by foamed rubber mats.
 - Four castors 125 mm in Ø: 2 fixed and 2 steering (two with brakes).
 - Front centralized safety lock.
- Multi-ply wood worktop with holes for a vice (1599/100, to be ordered separately).
- Side compartment with vertically adjustable top.
 - Integrated paper roll holder.
 - Double rear bottle holder.

C24SL O	94 kg	024002101
C24SL G	94 kg	024002102
C24SL R	94 kg	024002103

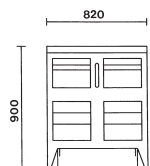
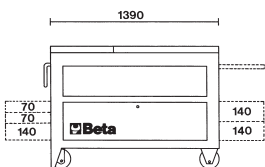


C28

SuperTank trolley with worktop and ten drawers

- Ten drawers (588x367 mm) with ball bearing slides.
- Quick, safe system for opening and closing drawers, with nylon and fibreglass front.
 - Five side drawers: 4 drawers, 70 mm high
1 drawer, 210 mm high
 - Five front drawers: 4 drawers, 70 mm high
1 drawer, 210 mm high
- Four high-capacity castors 150 mm in Ø: 2 fixed and 2 steering (with brakes).
 - 2 centralised safety locks.
- Multiply wood worktop with holes for a vice (1599 125 or 150, to be ordered separately)
- Side compartment with foldaway door with lock.

C28 O	130 kg	028000301
C28 G	130 kg	028000302
C28 R	130 kg	028000303



C30

MaxiTank mobile workbench

- Drawers with ball bearing slides designed to support heavy loads.
- Two rear drawers (670x500x140 mm) with locking system.
 - Six front drawers: 4 drawers 600x250x70 mm
2 drawers 600x250x140 mm
- Double side locking system for both drawers and doors.
 - One hydraulic jack designed to lift the front part easily.
- Adiprene castors on ball bearing slides: 2 swivelling, 150 mm in ø
2 fixed, 170 mm in ø

C30 O	225 kg	030000001

CONTAINERS AND ASSORTMENTS

C31

Mobile workbench with twenty eight drawers

- Twenty eight drawers (588x367 mm) with ball bearing slides:
 - 19 drawers, 70 mm high
 - 7 drawers, 140 mm high
 - 1 drawer, 210 mm high
 - 1 drawer, 280 mm high
- Drawer front made of aluminium
- Drawer bases protected by foamed rubber mats
- Sturdy multiply worktop
- Four centralized safety locks
- Eight castors 125 mm in Ø, 2 fixed and 6 swivelling (2 with brakes)



C31 O	250 kg	031000281
C31 G	250 kg	031000282
C31 R	250 kg	031000283

CP52

Highly resistant trolley

- Welded sheet frame
- Reinforced top
- Ergonomic handle
- Four castors 125 mm in Ø:
 - 2 fixed and 2 swivelling (one with brake)

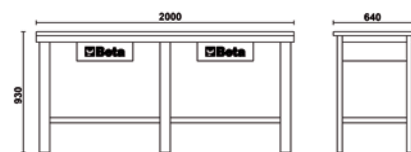


CP52 O	29 kg	052000501
CP52 G	29 kg	052000502
CP52 R	29 kg	052000503

C56

Workbench

- Worktop made of painted sheet metal with external edge
- Steel frame with 6 supporting legs
- Static load capacity: 1200 kg
- Matches panel toolholder C57P; cannot be fixed to worktop
- Two drawers with lock
- Can be fixed to floor



C56 O	82 kg	056000201
C56 G	82 kg	056000203
C56 R	82 kg	056000203



5902MT

Assortment of 106 tools for agricultural, building and earth-moving machinery

N° of pieces/Description

2	drift punches Ø 3 - 4 mm	30
2	pin punches Ø 6 - 8 mm	31
1	centre punch Ø 4 mm	32
2	flat chisels, ribbed type 150 - 200 mm	35
18	combination wrenches 6÷14 - 17 - 19 - 22 - 24 - 27 - 30 - 32 - 36 - 41 mm	42
10	offset ring wrenches 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 18x19 - 20x22 - 24x27 - 30x32 mm	90
10	offset hexagon key wrenches 1,5÷12 mm	96N/B10
17	1/2" square drive hexagon sockets, 10÷22 - 24 - 27 - 30 - 32 mm	920A
1	1/2" drive extension bar, 125 mm	920/21
1	1/2" drive extension bar, 255 mm	920/22
1	1/2" drive universal joint	920/25
1	1/2" drive sliding T-handle	920/42
1	1/2" drive push-through square ratchet	920/50
11	3/4" square drive hexagon socket 22 - 24 - 27 - 30 - 32 - 36 - 41 - 46 - 50 - 55 - 60 mm	928A
1	3/4" drive extension bar, 200 mm	928/21
1	3/4" drive swivel handle	928/36A
1	3/4" drive sliding T-handle	928/42
1	3/4" drive reversible ratchet	928/55
1	pry bar	964
1	slip joint pliers 240 mm	1048
1	adjustable self locking pliers, curved jaws	1055
1	heavy duty diagonal cutting nippers 160 mm	1084BM
1	electrician's scissors, straight blades	1128BMX
1	combination pliers 180 mm	1150BM
1	half-round needle nose pliers 160 mm	1166BM
4	screwdrivers for slotted head screws with hexagon bolsters 5.5x125 - 6.5x150 - 10x175 - 12x200 mm	1260E
3	screwdrivers for cross head Phillips® screws with hexagon bolsters PH2x150 - PH3x175 - PH4x200 mm	1262E
1	ball pein hammer 900 g	1377
1	soft face hammer Ø 35 mm	1390
1	feeler gauge, 20 blades	1708/20
1	three cutting edges scraper 200 mm	1717B
5	second cut files 200 mm	1719BMA/S5
1	hacksaw frame	1725



30 kg 059020043

5902MT/AS

Assortment of 99 tools for earth-moving machinery (CATERPILLAR)

N° of pieces/Description

2	drift punches Ø 3 - 4 mm	30
2	pin punches Ø 6 - 8 mm	31
1	centre punch Ø 4 mm	32
2	flat chisels, ribbed type 150 - 200 mm	35
20	combination wrenches 1/4÷1.1/2"	42AS
6	offset ring wrenches 1/4x5/16 - 3/8x7/16 - 1/2x9/16 5/8x3/4 - 11/16x13/16 - 7/8x15/16"	90AS
11	offset hexagon key wrenches 3/64"-3/8"	96AS/B11
10	1/2" square drive bi-hex sockets 7/16 - 1/2 - 9/16 5/8 - 11/16 - 3/4 - 13/16 - 7/8 - 15/16 - 1"	920AS
1	1/2" drive extension bar, 125 mm	920/21
1	1/2" drive extension bar, 255 mm	920/22
1	1/2" drive universal joint	920/25
1	1/2" drive sliding T-handle	920/42
1	1/2" drive push-through square ratchet	920/50
12	3/4" square drive hexagon sockets 7/8 - 15/16 - 1 - 1.1/16 - 1.1/8 1.1/4 - 1.5/16 - 1.1/2 - 1.5/8 - 1.11/16 - 1.7/8 - 2"	928AS
1	3/4" drive extension bar, 200 mm	928/21
1	3/4" drive swivel handle	928/36A
1	3/4" drive sliding T-handle	928/42
1	3/4" drive reversible ratchet	928/55
1	pry bar	964
1	slip joint pliers 240 mm	1048
1	adjustable self locking pliers, curved jaws	1055
1	heavy duty diagonal cutting nippers 160 mm	1084BM
1	electrician's scissors, straight blades	1128BMX
1	combination pliers 180 mm	1150BM
1	half-round needle nose pliers 160 mm	1166BM
4	screwdrivers for slotted head screws with hexagon bolsters 5.5x125 - 6.5x150 - 10x175 - 12x200 mm	1260E
3	screwdrivers for cross head Phillips® screws with hexagon bolsters PH2x150 - PH3x175 - PH4x200 mm	1262E
1	ball pein hammer 900 g	1377
1	soft face hammer Ø 35 mm	1390
1	feeler gauge, 20 blades	1708AS/20
1	three cutting edges scraper 200 mm	1717B
5	second cut files 200 mm	1719BMA/S5
1	hacksaw frame	1725



29 kg 059020044

5904VG/2T

Assortment of 99 tools



T15 T16 T80



T153 T132 T145 T234



T208 T33 T52 T55

N° of pieces/Description

N° of pieces/Description	Beta N.
2 flat chisels, ribbed type 100 - 200 mm	35
21 combination wrenches 6-22 - 24 - 27 - 30 - 32 mm	42
8 double open end wrenches 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22 mm	55
9 offset hexagon key wrenches 1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10 mm	96/SC9
6 offset hexagon key wrenches with handle 2 - 2,5 - 3 - 4 - 5 - 6 mm	96T
6 offset key wrenches for Torx® head screws T10 - T15 - T20 - T25 - T27 - T30	97/TTX
19 1/2" square drive hexagon sockets, 10+24 - 26 - 27 - 30 - 32 mm	920A
5 1/2" drive socket drivers for hexagon screws 1/2", 5 - 6 - 8 - 10 - 12 mm	920ME
1 1/2" drive extension bar, 125 mm	920/21
1 1/2" drive extension bar, 255 mm	920/22
1 1/2" drive universal joint	920/25

N° of pieces/Description

N° of pieces/Description	Beta N.
1 1/2" drive sliding T-handle	920/42
1 1/2" drive reversible ratchet	920/55
1 circlip pliers straight, internal 180 mm	1032
1 circlip pliers bent, internal 170 mm	1034
1 circlip pliers straight, external 175 mm	1036
1 circlip pliers bent, external 175 mm	1038
1 slip joint pliers 240 mm	1048
1 adjustable self locking pliers 240 mm	1052
1 heavy duty diagonal cutting nippers 160 mm	1084
1 combination pliers 180 mm	1150
1 needle nose pliers 160 mm	1166
4 screwdrivers for slotted head screws 3x75 - 4x100 - 5.5x150 - 6.5x150 mm	1260
3 screwdrivers for cross head Phillips® screws PH0x60 - PH1x80 - PH2x100 mm	1262
1 engineer's hammer 300 g	1370
1 soft face hammer Ø 35 mm	1390

16 kg 059040191

5904VG/5T

Assortment of 160 tools



T80 T15 T16



T63 VP6



T145 T170 T176 T52



T33 T171 T172 T173



T234 T131 T112 T153

N° of pieces/Description

N° of pieces/Description	Beta N.
2 flat chisels, ribbed type 100 - 200 mm	35
21 combination wrenches 6+22 - 24 - 27 - 30 - 32 mm	42
8 double open end wrenches 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22	55
9 double open end wrenches 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22	96/SC9
6 offset hexagon key wrenches with handles 2 - 2,5 - 3 - 4 - 5 - 6 mm	96T
8 bits for Torx® head screws T6+T15	861TX
8 bits for Torx® head screws T20+T55	866TX
1 socket holder 1/4x1/4"	895/1
1 socket holder 5/16x1/2"	895/6
6 1/4" drive sockets for Torx® head screws E4+E10	900FTX
19 1/2" square drive hexagon sockets, 10+24 - 26 - 27 - 30 - 32 mm	920A
7 1/2" drive sockets for Torx® head screws E12+E24	920FTX
5 1/2" drive socket drivers for hexagon screws 5 - 6 - 8 - 10 - 12 mm	920ME
3 1/2" drive socket drivers for Torx® head screws T55L - T60 - T70L	920TX
1 extension bar 125 mm - 1/2"	920/21
1 extension bar 255 mm - 1/2"	920/22
1 1/2" drive universal joint	920/25

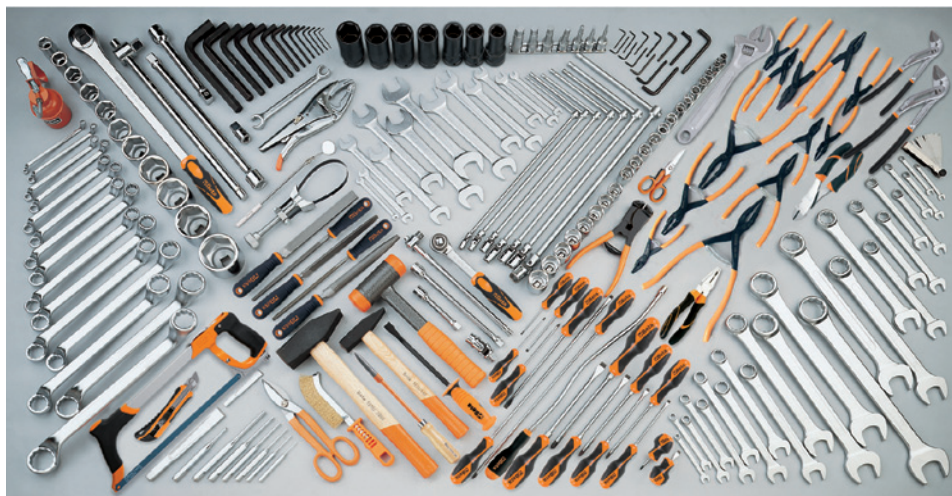
N° of pieces/Description

N° of pieces/Description	Beta N.
1 1/2" drive sliding T handle	920/42
1 1/2" drive reversible ratchet	920/55
8 T-handle wrenches with swivelling hexagon sockets 7 - 8 - 10 - 12 - 13 - 14 - 17 - 19 mm	952
1 internal circlip pliers, straight pattern 180 mm	1032
1 internal circlip pliers, bent pattern 170 mm	1034
1 external circlip pliers, straight pattern 175 mm	1036
1 external circlip pliers, bent pattern 175 mm	1038
1 slip joint pliers 240 mm	1048
1 adjustable self-locking pliers 240 mm	1052
1 heavy duty diagonal cutting nippers 160 mm	1084BM
1 combination pliers 180 mm	1150BM
1 half-round needle nose pliers 160 mm	1166BM
10 screwdrivers for slotted head screws 2.5x50 - 3x75 - 3.5x100 - 4x125 - 5.5x100 - 5.5x150 - 6.5x150 - 8x150 - 8x200 - 10x200 mm	1290
2 screwdrivers for slotted head screws, extra-short 4x30 - 6.5x30 mm	1290N
8 screwdrivers for cross head Phillips® screws PH0x60 - PH0x100 - PH1x80 - PH1x120 - PH2x100 - PH2x150 - PH3x150 - PH4x200 mm	1292
2 screwdrivers for cross head Phillips® screws PH1x30 - PH2x30 mm	1292N
12 driver for Torx® head screws, with handle T25 - T27 - T30 - T40 - T45	1297TX
1 engineer's hammer 300 g	1370S
1 soft face hammer Ø 35 mm	1390
1 thermoformed tray, empty	VP6

23 kg 059040196

5908VG/2

Assortment of 208 tools



N° of pieces/Description	Beta N.
6 pin punches Ø 2 - 3 - 4 - 5 - 6 - 8 mm	31
1 centre punch Ø 5 mm	32
2 flat chisel, ribbed type 100 - 200 mm	35
25 combination wrenches 6-22 - 24 - 27 - 30 - 32 - 35 - 36 - 38 - 41 mm	42
13 double open end wrenches 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17	55
18x19 - 20x22 - 21x23 - 24x26 - 25x28 - 27x29 - 30x32 mm	
15 double ended offset ring wrenches 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17	90
18x19 - 20x22 - 21x23 - 24x26 - 25x28 - 27x29 - 30x32 - 35x38 - 36x41 mm	
1 flare nut open ring wrench 17x19 mm	94
4 offset hexagon key wrenches 13 - 14 - 17 - 19 mm	96N
10 offset hexagon key wrenches 1.5-12 mm	96N/B10
13 offset key wrenches for Torx® head screws T6-T50	97TX/B13
1 adjustable wrench with scale, 300 mm	111
7 3/4" square drive impact sockets long, slim series 22 - 24 - 27 - 30 - 32 - 33 - 36 mm	728LS
13 1/2" square drive hexagon sockets with rail, 10-22 mm	920A/SB13
8 1/2" square drive hexagon sockets with rail, 23-32 mm	920A/SB8
7 1/2" drive, socket drivers with rail, 5-17 mm	920ME/SB7
1 adaptor, 1/2" female to 3/4" male drive	920/16
1 1/2" drive extension bar, 125 mm	920/21
1 1/2" drive extension bar, 255 mm	920/22
1 1/2" drive universal joint	920/25
1 1/2" drive sliding T-handle	920/42
1 1/2" drive push-through square ratchet	920/50
11 3/4" square drive hexagon sockets 22 - 24 - 27 - 30 - 32 - 36 - 41 - 46 - 50 - 55 - 60 mm	928A
1 3/4" drive extension bar 200 mm	928/21
1 3/4" drive extension bar 380 mm	928/22
1 3/4" drive sliding T-handle	928/42
1 3/4" drive reversible ratchet	928/55
7 T-handle wrenches with swivelling sockets 8 - 10 - 12 - 13 - 14 - 17 - 19 mm	952
1 pry bar with handle 600 mm	965
3 circlip pliers straight, internal 180 - 225 - 300 mm	1032
3 circlip pliers bent, internal	1034
170 - 210 - 290 mm	
3 circlip pliers straight, external 175 - 225 - 300 mm	1036
3 circlip pliers bent, external	1038
175 - 220 - 300 mm	
2 slip joint pliers 240 - 300 mm	1048
1 adjustable self locking pliers 255 mm	1051
1 heavy duty diagonal cutting nippers 200 mm	1084BM
1 toggle lever assisted end cutting nippers 200 mm	1092V
1 tin snips 250 mm	1112
1 electrician's scissors, straight blades	1128BMX
1 combination pliers 180 mm	1150BM
3 screwdrivers for slotted head screws 3x75 - 4x100 - 8x200 mm	1260
1 screwdriver for slotted head screws, extra-short series, 6.5x30	1260N
4 screwdrivers for slotted head screws with hexagon bolsters	1260E
5.5x125 - 6.5x150 - 10x175 - 12x200 mm	
2 screwdrivers for cross head Phillips® screws PH0x100 - PH1x120 mm	1262
1 screwdriver for cross head Phillips® screws, extra-short series, PH2x30 mm	1262N
3 screwdrivers for cross head Phillips® screws with hexagon bolsters	1262E
PH2x150 - PH3x175 - PH4x200 mm	
1 screwdriver for cross head Phillips® screws, long series, PH2x400 mm	1262L
1 screwdriver for slotted headless screws, long series, 6.5x400 mm	1264L
2 engineer's hammers 500 - 2000 g	1370
1 dead blow hammer Ø 50 mm	1392
1 adjustable oil filter wrench	1491
1 feeler gauge, 20 blades	1708/20
1 flexible magnetic pick-up tool 1.8 kg	1712E/2
1 articulated inspection mirror	1715
1 three-cutting edges scraper 200 mm	1717B
5 second cut files 200 mm	1719BMA/S5
1 hacksaw frame, aluminium handle	1726BM
1 brake shoe cleaning brush	1737NX
1 metal oil can, flexible spout 200 cc	1751
1 snap-off blade utility knife	1771BM

CONTAINERS AND ASSORTMENTS

Thermoformed Trays

T15



42 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15
16 - 17 - 18 - 19 - 20 - 21 mm

024240015 1,5 kg

T16



42 22 - 24 - 27 - 30 - 32 mm

024240016 2,1 kg

T31



31 Ø 2 - 3 - 4 - 5 - 6 mm
32 Ø 4 mm
55 6x7 - 8x9 - 10x11 - 12x13 - 14x15
16x17 - 18x19 - 20x22 - 21x23 - 24x26
27x29 - 30x32 mm
○ 96N/SC9 1,5÷10 mm

024240031 2,9 kg

T40



90 6x7-8x9-10x11-12x13-14x15
16x17-18x19 mm

024240040 810 g

T41



90 20x22-21x23-24x26
25x28-27x29 mm

024240041 1,5 kg

T50



○ 96T 2 - 2,5 - 3 - 3,5 - 4 - 4,5
5 - 6 - 7 - 8 - 10 mm

024240050 1,3 kg

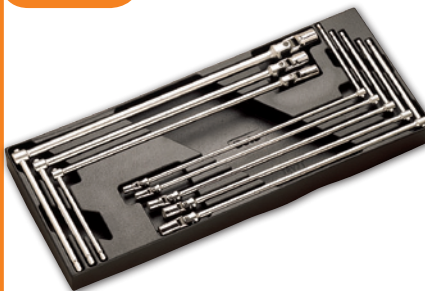
T55



○ 97TTX T10 - T15 - T20 - T25 - T27 - T30 mm

024240055 350 g

T63



○ 952 7 - 8 - 10 - 12 - 13 - 14 - 17 - 19 mm

024240063 3,4 kg

T68



○ 951 2,5-3-4-5-6-8 mm

024240068 590 g

T80



○ 920A 10-11-12-13 920/21 125 mm
14-15-16-17 920/22 255 mm
18-19-20-21 920/25
22-23-24-26 920/42 305 mm
27-30-32 mm 920/55
○ 920ME 5-6-8-10 12 mm

024240080 4,1 kg

T91



○ 900 4-4,5-5-5,5-6-7-8-9
10-11-12-13-14 mm
○ 900ME 2,5 - 3 - 4 - 5 - 6 - 8 mm
900/20 50 mm □ 1/4 - ■ 1/4
900/21 150 mm □ 1/4 - ■ 1/4
900/25 □ 1/4 - ■ 1/4
900/30 ■ 1/4
900/42 ■ 1/4 900/55 ■ 1/4

024240091 560 g

T105



○ 928A 22-24-27-30-32-34-36-38-41
46-50 mm

024240105 4,9 kg

CONTAINERS AND ASSORTMENTS

T106 3/4"

928/21 200 mm
928/22 380 mm
928/42 450 mm
928/55

024240106 4,5 kg

T113 1/2"

○ 920PE 5L-6L-7L-8L-10L
○ 920TX T40L-T45L-T55L
T70L
○ 920XZN M6L-M8L-M12L

024240113 1,5 kg

T131

1084BM 160 mm
1150BM 180 mm
1166BM 160 mm

024240131 750 g

T145

○ 1032 180 mm
○ 1034 170 mm
● 1036 175 mm
● 1038 175 mm

024240145 640 g

T146

○ 1032 140x0,9 mm
○ 1032 225 mm
● 1036 140x1,3 mm
● 1038 225 mm

024240146 700 g

T153

1048 250 mm
1052 240 mm

024240153 1 kg

T167

● 1260 3x75-3x100-4x100-4x150-5,5x100
5,5x150-6,5x150-8x150-10x200 mm
● 1260N 4x30-6,5x30 mm

024240167 880 g

T168

⊕ 1262 PH0x60-PH0x100-PH1x80-PH1x120
PH2x100-PH2x150-PH3x150 mm
⊕ 1262N PH1x30xPH2x30 mm

024240168 710 g

T205

○ 1267TX T6 - T7 - T8 - T9
T10 - T15 - T20

024240205 500 g

T206

○ 126TX T25-T27-T30-T40
T45

024240206 710 g

T234

35 100-200 mm
1370 300 g
1390 ø 35 mm

024240234 1,3 kg

T236

■ 1719BMA/Q 200 mm
▲ 1719BMA/T 200 mm
■ 1719BMA/P 200 mm
● 1719BMA/M 200 mm
● 1719BMA/R 200 mm

024240236 870 g

HAND

TOOLS



45

Combination wrenches,
open and offset ring ends, heavy series

DIN 3113 UNI-ISO 7738

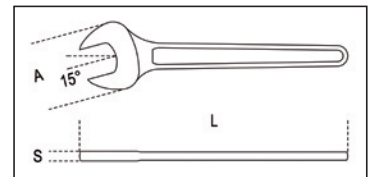


mm	L mm	A mm	Ø mm	S1 mm	S2 mm	kg	Icon
46x46	520	94	67,5	15,5	24,5	1,75	000450046
50x50	560	100	73,0	17,0	26,0	2,10	000450050
55x55	610	110	83,0	19,0	28,5	3,00	000450055
60x60	660	120	87,5	20,0	31,5	3,70	000450060
65x65	710	130	95,0	22,5	33,5	4,65	000450065
70x70	760	140	102,0	24,5	35,5	5,70	000450070
75x75	810	150	108,0	26,5	39,0	6,70	000450075
80x80	860	160	116,5	29,0	42,5	8,40	000450080

52

Single open end wrenches
chrome-plated

UNI 6733 DIN 3114

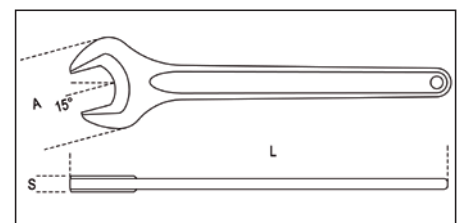


mm	L mm	A mm	S mm	kg	Icon
10	119	26,1	4,6	39	000520010
11	119	26,1	4,6	39	000520011
12	119	26,1	4,6	39	000520012
13	145	32,2	5,4	62	000520013
14	145	32,2	5,4	62	000520014
15	145	32,2	5,4	62	000520015
16	159	38,5	5,8	95	000520016
17	159	38,5	5,8	95	000520017
18	159	38,5	5,8	95	000520018
19	175	44,6	6,2	125	000520019
20	175	44,6	6,2	125	000520020
21	175	44,6	6,2	125	000520021
22	196	50,8	6,8	155	000520022
23	196	50,8	6,8	155	000520023
24	196	50,8	6,8	155	000520024
25	215	56,7	7,4	210	000520025
26	215	56,7	7,4	210	000520026
27	215	56,7	7,4	210	000520027
28	240	62,7	8,0	300	000520028
30	240	62,7	8,0	300	000520030
32	270	68,5	8,5	350	000520032
34	270	68,5	8,5	350	000520034
35	295	80,0	9,0	515	000520035
36	295	80,0	9,0	515	000520036
38	295	80,0	9,0	515	000520038
40	335	90,0	10,0	690	000520040
41	335	90,0	10,0	690	000520041
42	335	90,0	10,0	690	000520042
45	370	98,0	11,0	855	000520045
46	370	98,0	11,0	855	000520046
48	370	98,0	11,0	855	000520048
50	415	106,8	13,5	1240	000520050
52	415	106,8	13,5	1265	000520052
55	415	106,8	13,5	1290	000520055
60	490	137,0	16,5	2300	000520060
65	490	137,0	16,5	2350	000520065
70	490	137,0	16,5	2400	000520070

53

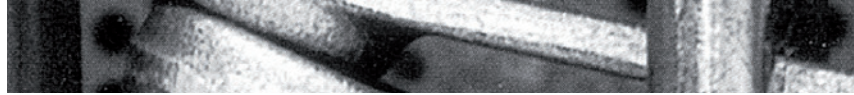
Single open end wrenches
chrome-plated

DIN 894



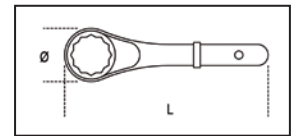
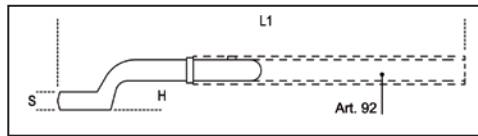
mm	L mm	A mm	S mm	kg	Icon
24	219	53,0	9,5	0,20	000530024
27	241	60,0	10,5	0,30	000530027
30	267	65,0	11,5	0,35	000530030
32	285	70,0	12,5	0,41	000530032
36	317	80,0	13,5	0,57	000530036
38	320	83,5	15,0	0,74	000530038
41	342	90,0	15,0	0,92	000530041
46	396	100	16,0	1,12	000530046
50	412	102	17,0	1,20	000530050
55	457	112	18,0	1,30	000530055
60	492	122	18,0	1,60	000530060
65	528	132	19,0	1,80	000530065
70	572	142	20,0	2,20	000530070
75	608	152	21,0	2,80	000530075
80	645	162	22,0	2,90	000530080
85	690	173	23,0	3,90	000530085
90	690	173	23,0	3,90	000530090
95	847	195	25,0	5,50	000530095
100	847	195	25,0	5,50	000530100
105	1000	217	28,0	7,70	000530105
110	1000	217	28,0	7,70	000530110
115	1000	225	28,0	7,00	000530115
120	1000	225	28,0	7,30	000530120
125	1000	225	28,0	7,30	000530125
130	1000	225	28,0	7,60	000530130
135	1000	225	28,0	7,40	000530135

HAND TOOLS



91

Heavy duty offset ring wrenches
To be used with item 92



mm	Ø mm	H mm	L mm	L1 mm	S mm	kg	
24	38	29,5	180	555	17,0	0,38	000910024
27	41	31,5	190	560	17,0	0,42	000910027
30	48	33,5	200	565	18,0	0,49	000910030
32	49	34,0	235	730	18,0	0,72	000910032
36	54	35,5	245	735	20,0	0,80	000910036
41	62	39,5	265	750	22,0	0,95	000910041
46	69	40,0	280	910	23,0	1,20	000910046
50	76	42,5	290	920	25,5	1,40	000910050
55	81	45,5	300	925	28,0	1,40	000910055
60	90	49,0	345	1050	30,5	2,30	000910060
65	98	53,0	355	1060	33,0	2,55	000910065
70	105	55,0	365	1065	35,5	2,78	000910070
75	110	57,5	375	1070	38,0	2,87	000910075
80	125	59,0	385	1075	40,5	3,90	000910080
85	125	59,0	385	1075	40,5	3,60	000910085
90	140	63,0	410	1100	45,0	5,10	000910090
95	140	63,0	410	1100	45,0	4,82	000910095
100	143	63,0	412	1100	45,0	4,80	000910100
105	146	63,0	415	1105	45,0	4,70	000910105

92

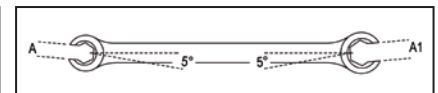
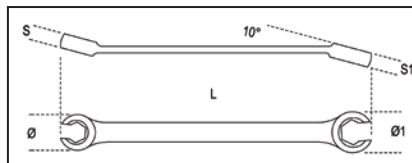
Tubes for item 91



n°	L mm	91 mm	Ø mm	kg	
92/1	460	24÷30	19,0	0,74	000920010
92/2	610	32÷41	22,0	1,05	000920020
92/3	760	46÷55	25,0	1,45	000920030
92/4	860	60÷105	30,0	2,45	000920040

94

Flare nut open ring wrenches



⬡ = hexagon ends



mm	L mm	Ø mm	Ø1 mm	A mm	A1 mm	S mm	S1 mm	kg	
8x10	140	17,8	19,3	6,0	7,0	6,5	7,5	40	000940008
9x11	153	19,4	21,4	7,0	9,0	8,0	8,5	49	000940009
10x11	153	19,4	21,4	7,0	9,0	8,0	8,5	70	000940010
11x13	175	21,4	23,5	9,0	8,5	8,5	10,5	80	000940011
12x14	175	22,8	25,3	9,0	11,0	8,5	10,5	78	000940012
14x15	175	25,5	27,3	11,0	12,0	10,5	11,0	130	000940014
14x17	195	27,4	31,4	11,0	14,0	11,0	12,5	140	000940015
17x19	212	31,2	33,3	14,0	15,0	12,0	13,0	174	000940017
19x22	228	33,5	38,5	15,0	17,0	13,0	14,0	220	000940019
22x24	242	38,5	42,0	17,0	18,0	15,0	16,0	314	000940022
24x27	260	46,6	46,6	18,0	20,0	16,0	17,0	411	000940024
30x32	300	50,6	52,6	22,0	24,0	19,0	20,5	672	000940030
36x41	320	61,0	67,5	25,5	32,5	24,5	25,4	1700	000940036

1/2"

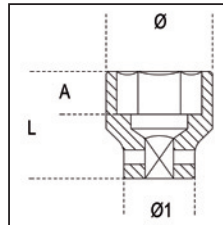


720

Impact sockets,
1/2" hexagon female end, phosphatized,
standard series

UNI/ISO 2725 DIN 3129

mm	Ø mm	L mm	Ø1 mm	A mm	g	
10	17,0	38	25	7,0	85	007200010
11	18,5	38	25	8,0	86	007200011
12	20,0	38	25	9,0	85	007200012
13	21,0	38	25	10,0	85	007200013
14	22,5	38	25	10,0	88	007200014
15	23,0	38	30	11,0	129	007200015
16	25,0	38	30	11,0	131	007200016
17	26,0	38	30	12,0	128	007200017
18	27,5	38	30	13,0	130	007200018
19	28,5	38	30	13,0	128	007200019
21	31,0	38	30	14,0	123	007200021
22	32,5	38	30	14,0	134	007200022
23	34,0	38	30	14,0	135	007200023
24	35,0	38	30	14,0	137	007200024
27	38,5	45	30	16,0	169	007200027
30	42,0	50	30	17,0	194	007200030
32	44,0	50	30	18,0	227	007200032
36	50,0	50	30	18,0	276	007200036



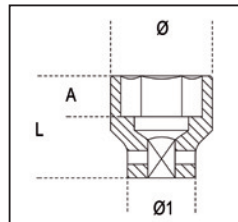
1/2"



720AS

Impact sockets,
1/2" hexagon female end, in inches
phosphatized,
standard series

mm	Ø mm	L mm	Ø1 mm	A mm	g	
3/8	17,0	38	25	7	87	007200210
7/16	18,2	38	25	8	86	007200211
1/2	20,7	38	25	9	85	007200213
9/16	22,0	38	25	10	85	007200214
5/8	24,5	38	30	11	131	007200216
11/16	25,7	38	30	12	128	007200217
3/4	28,2	38	30	13	127	007200219
13/16	30,7	38	30	14	127	007200221
7/8	32,0	38	30	14	129	007200222
15/16	34,5	38	30	14	142	007200224
1	35,7	38	30	14	142	007200225
1.1/16	38,2	40	30	16	163	007200227
1.1/8	40,7	42	30	17	191	007200229
1.1/4	44,5	42	30	18	220	007200232



1/2"

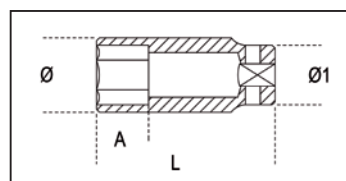


720L

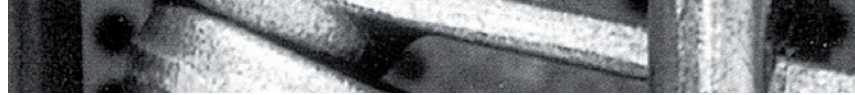
Impact sockets,
1/2" hexagon female end, phosphatized,
long series

UNI/ISO 2725

mm	Ø mm	L mm	Ø1 mm	A mm	g	
10	17,0	80	25	10	152	007200310
11	18,5	80	25	11	156	007200311
12	20,0	80	25	12	164	007200312
13	21,0	80	25	13	160	007200313
14	22,5	80	25	14	176	007200314
15	23,0	80	30	15	228	007200315
16	25,0	80	30	16	234	007200316
17	26,0	80	30	17	247	007200317
18	27,5	80	30	18	258	007200318
19	28,5	80	30	19	242	007200319
21	31,0	80	30	21	261	007200321
22	32,5	80	30	22	305	007200322
24	35,0	80	30	24	338	007200324
27	38,5	80	30	27	398	007200327
30	42,0	80	30	29	421	007200330
32	44,0	80	30	29	457	007200332
36	50,0	80	30	31	627	007200336



HAND TOOLS



720L/S3

12"



Set of 3 impact sockets
with 1/2" hexagon female drive,
long series



17

19

21

mm	g	
17-19-21	801	007200355

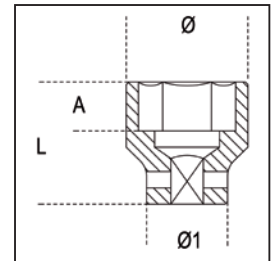
720FTX

12"



Impact sockets, for Torx® head screws with 1/2"
female drive, phosphatized

	Ø mm	L mm	Ø1 mm	A mm	g	
E10	14,0	38	25	6,4	87	007200410
E12	15,9	38	25	8,0	86	007200412
E14	17,7	38	25	8,8	89	007200414
E16	20,0	38	25	9,6	89	007200416
E18	22,0	38	25	11,1	90	007200418
E20	25,0	40	25	12,7	133	007200420

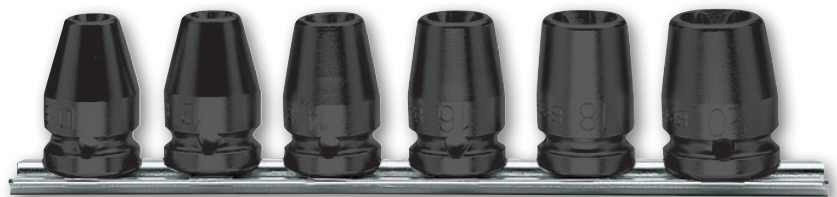


720FTX/SB6

12"



Impact sockets, for Torx® head screws with
1/2" female drive, phosphatized



	g	
E10-E12-E14-E16-E18-E20	631	007200450

720TX

12"



Impact socket drivers for Torx®
head screws with 1/2" female drive,
phosphatized

	Ø mm	L mm	L1 mm	g	
T30	25	60	40	57	007200460
T40	25	60	40	62	007200470
T45	25	68	48	68	007200472
T50	25	68	48	73	007200474
T55	25	68	48	91	007200476
T60	25	68	48	99	007200478



1/2"



275x120x65 mm

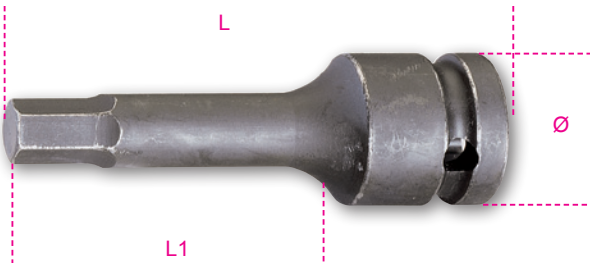
720TX/C6

Set of impact socket drivers for Torx® head screws, 1/2" female square drive, phosphatized, in metal case



T30-T40-T45-T50-T55-T60 5,7 007200483

1/2"



720ME

Impact socket drivers for hexagon screws, 1/2" female square drive, phosphatized

Ø mm	Ø mm	L mm	L1 mm	g	
5	25	60	40	70	007200505
6	25	60	40	73	007200506
8	25	60	40	82	007200508
10	25	68	48	99	007200510
12	25	68	48	114	007200512
14	25	78	58	153	007200514
17	25	78	58	190	007200517
19	25	78	58	217	007200519

1/2"



270x120x45 mm

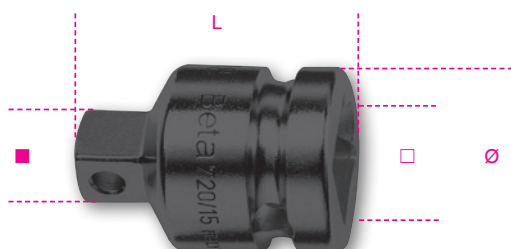
720ME/C8

Set of impact socket drivers for hexagon screws, 1/2" female square drive, phosphatized, in metal case



5-6-8-10-12-14-17-19 1,6 007200525

1/2"



720/15

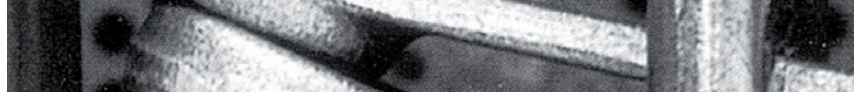
Impact adaptor, 1/2" female and 3/8" male drives

Always apply torque loads evenly and progressively to avoid breakage and any possible injury.



1/2 3/8 37,5 25 72 007200810

HAND TOOLS

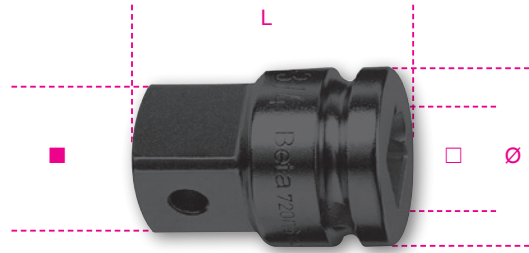


720/16

Impact adaptor, 1/2" female and 3/4" male drives, phosphatized

1/2"

□	■	L	∅	g	📄
mm	mm	mm	mm		
1/2	3/4	44	30	150	007200814



720/20

1/2" drive impact extension bar, phosphatized

1/2"

□	■	L	∅	g	📄
mm	mm	mm	mm		
1/2	1/2	75	30	198	007200818



720/21

1/2" drive impact extension bar, phosphatized

1/2"

□	■	L	∅	g	📄
mm	mm	mm	mm		
1/2	1/2	125	30	198	007200822



720/25

1/2" drive impact universal joint, phosphatized

1/2"

□	■	L	∅	g	📄
mm	mm	mm	mm		
1/2	1/2	125	30	198	007200822



720/C6

Set of impact sockets, 1/2" female drive, phosphatized, in metal case

1/2"



∅	g	📄
mm	mm	
13-14-17-19-22-24	1,1	007200910

195x80x55 mm


1/2" 



195x80x55 mm

720/C12

Set of impact sockets, 1/2" female square drive, phosphatized in metal case

mm	g	
10-11-12-13-14-17-19-22-24-27-30-32	1,0	007200912

1/2" 




720/OR




720/SP

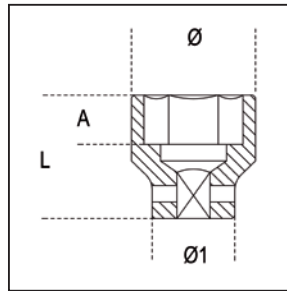
720/OR... - 720/SP...

Rubber O-rings and locking pins for impact sockets

						g	
720/OR1	720/SP1	720 (10÷14 mm) • 720L (10÷14 mm) • 720FTX (10÷18) • 720/15	1/2	720/OR1	1,0	007200923	
720/OR2	720/SP2	720 (16÷32 mm) • 720L (16÷27 mm) • 720FTX (20) • 720/16	1/2	720/OR2	1,4	007200924	
720/OR2	720/SP2	720/20 • 720/21 • 720/25	1/2	720/SP1	2,6	007200913	
				720/SP2	2,8	007200914	

3/4" 

mm	Ø mm	L mm	Ø1 mm	A mm	g	
17	30,0	51	44	12	378	007280017
18	31,0	51	44	13	377	007280018
19	32,5	51	44	13	381	007280019
21	35,0	51	44	15	380	007280021
22	36,0	51	44	15	384	007280022
23	37,5	51	44	16	382	007280023
24	38,5	51	44	16	378	007280024
27	42,5	53	44	16	382	007280027
28	44,0	53	44	16	387	007280028
30	46,0	53	44	18	419	007280030
32	48,5	57	44	19	433	007280032
33	50,0	57	44	20	476	007280033
34	51,0	57	44	20	483	007280034
35	52,5	57	44	20	497	007280035
36	53,5	57	44	20	515	007280036
38	56,0	57	44	20	559	007280038
41	60,0	58	44	22	609	007280041
46	66,0	62	44	23	767	007280046
50	71,0	68	54	30	943	007280050
55	77,5	71	54	30	830	007280055
60	83,0	73	54	32	830	007280060




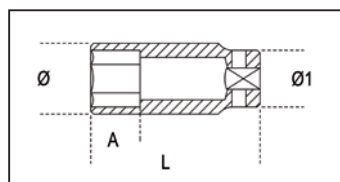
728

Impact sockets, 3/4" hexagon end, phosphatized, standard series

UNI/ISO 2725 DIN 3129

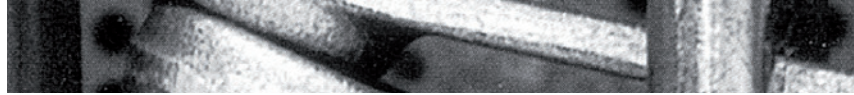
3/4" 

mm	Ø mm	L mm	Ø1 mm	A mm	g	
19	32,5	90	44	26	656	007280319
21	35,0	90	44	26	680	007280321
22	36,0	90	44	26	689	007280322
24	38,5	90	44	26	691	007280324
26	41,0	90	44	28	739	007280326
27	42,5	90	44	28	758	007280327
30	46,0	90	44	28	802	007280330
32	48,5	90	44	28	822	007280332
33	50,0	90	44	30	876	007280333
34	51,0	90	44	30	901	007280334
36	53,5	90	44	30	927	007280336
38	56,0	90	44	34	998	007280338
41	60,0	90	44	34	1085	007280341



728L

Impact sockets, 3/4" hexagon end, phosphatized, long series



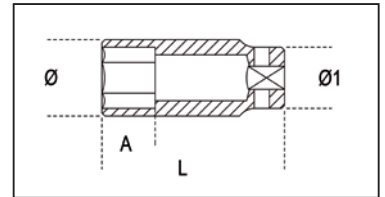
728LS

3/4"



Impact sockets, 3/4" female square drive, hexagon end, phosphatized, long slim series

Ø	Ø	L	Ø1	A	g	
mm	mm	mm	mm	mm		
17	28,0	100	43	17	549	007280517
19	30,5	100	43	19	565	007280519
22	34,3	100	43	22	611	007280522
24	36,8	100	43	24	637	007280524
27	40,5	100	43	27	674	007280527
30	44,3	100	43	30	684	007280530
32	46,8	100	43	32	742	007280532
33	48,0	100	43	33	753	007280533
36	51,8	100	43	36	787	007280536



728LS/S3

3/4"



Set of 3 impact sockets, 3/4" female square drive, hexagon end, long slim series

mm	kg	
22-24-27	1,9	007280550



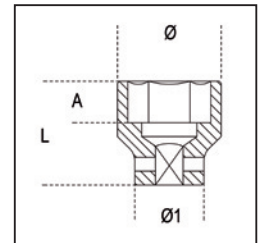
728FTX

3/4"



Impact sockets, for Torx® head screws, 3/4" female square drive, phosphatized

Ø	Ø	L	Ø1	A	g	
	mm	mm	mm	mm		
E20	28,5	50	44	13	372,5	007280420
E22	30,0	50	44	15	371,5	007280422
E24	32,5	50	44	16	378,5	007280424



727/ES16



Impact hexagon bits, 16 mm drive, phosphatized



Ø	Ø	L	g	
mm	mm	mm		
10	16	40	54,4	007270110
12	16	40	58,6	007270112
13	16	40	60,8	007270113
14	16	40	62,6	007270114
16	16	40	67,6	007270116
17	16	40	72,0	007270117
18	16	40	77,2	007270118
19	16	40	81,8	007270119
22	16	40	98,6	007270122

727/ES16TX



Impact bits for Torx® head screws, 16 mm drive, phosphatized



Ø	Ø	L	g	
	mm	mm		
T55	16	50	56,2	007270355
T60	16	50	63,4	007270360
T70	16	50	72,4	007270370

3/4"



727PI/16

Impact bit holder for item 727/ES16 and 727/ES16TX, phosphatized

mm	"	mm	L mm	g	
16	3/4	44	52	376	007270016

3/4"



728/15

Impact adaptor, 3/4" female and 1/2" male drives

Always apply torque loads evenly and progressively to avoid breakage and any possible injury.

"	"	L mm	Ø mm	g	
3/4	1/2	54	44	307	007280810

3/4"



728/16

Impact adaptor, 3/4" female and 1" male drives, phosphatized

"	"	L mm	Ø mm	g	
3/4	1	62	4	435	007280813

3/4"



728/21

3/4" drive impact extension bar, phosphatized

"	"	L mm	Ø mm	g	
3/4	3/4	175	44	883	007280815

3/4"

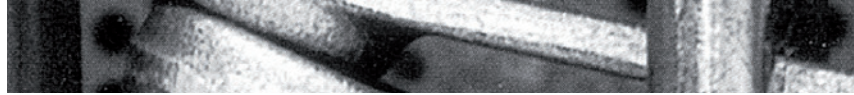


728/22

3/4" drive impact extension bar, phosphatized

"	"	L mm	Ø mm	g	
3/4	3/4	250	44	1147	007280825

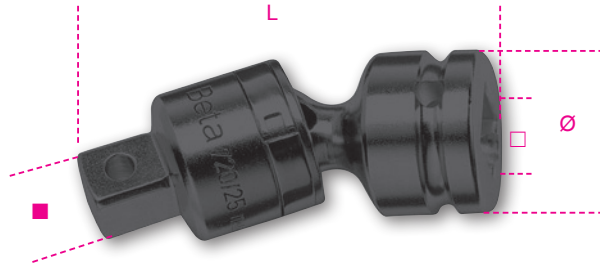
HAND TOOLS



728/25

3/4" drive impact universal joint

3/4"



L	Ø	□	■	g	
mm	mm	3/4"	3/4"	713	007280830

728/C10

10 impact sockets, in metal case

3/4"



○	mm	kg	
17-19-22-24-27-30-32-36-41-46	5,8	007280910	

275x120x65 mm







727/C16


12 impact bits and 4 accessories, in metal case

1" 

3/4" 



727PI/16	
727/ES16	14-17-19 mm 
727/ES16TX	T55-T60-T70 
727PI/22	
727/ES22	22-24-27 mm 
727/ES22TX	T80-T90-T100 

96BPC 3-4 mm 

335x145x60 mm

kg
3,7 007270900

728/OR - 728/SP

Rubber O-rings and locking pins for impact sockets

3/4"



○	■	
728/OR	728/SP	728 (17-46 mm) • 728L • 728LS • 728/15 • 728/16
728/OR	007280926	728/21 • 728/22 • 728/25
728/SP	007280916	

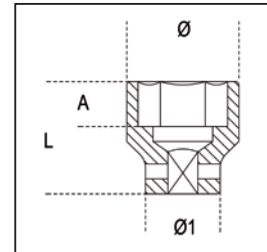


729

1" female square drive, hexagon end, standard series, phosphatized

UNI/ISO 2725 DIN 3129

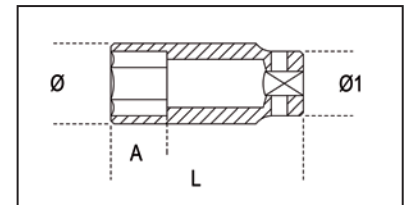
mm	Ø mm	L mm	Ø1 mm	A mm	g	
24	41,5	58	54	17	629	007290024
27	45,0	60	54	19	640	007290027
30	49,0	62	54	22	685	007290030
32	51,5	63	54	22	687	007290032
33	52,5	63	54	22	691	007290033
34	54,0	63	54	22	687	007290034
36	56,5	66	54	22	705	007290036
38	59,0	66	54	22	803	007290038
41	62,5	68	54	24	853	007290041
46	69,0	72	54	26	1023	007290046
50	74,0	76	54	28	1039	007290050
55	80,0	84	54	36	1293	007290055
60	86,5	88	54	38	1429	007290060
65	92,5	92	54	38	2039	007290065
70	99,0	96	54	40	1702	007290070
75	105,0	102	63	45	2722	007290075
80	111,5	102	63	45	3015	007290080



729L

Impact sockets, 1" female square drive, hexagon end, standard series, phosphatized

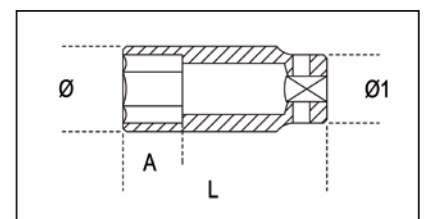
mm	Ø mm	L mm	Ø1 mm	A mm	kg	
24	41,5	108	54	30	1,06	007290324
27	45,0	108	54	30	1,10	007290327
30	49,0	108	54	30	1,12	007290330
32	51,5	108	54	30	1,17	007290332
33	52,2	108	54	35	1,21	007290333
34	54,0	108	54	35	1,23	007290334
36	56,5	108	54	35	1,28	007290336
41	62,5	108	54	38	1,44	007290341
46	69,0	108	54	42	1,67	007290346
50	74,0	108	54	42	1,55	007290350
55	80,0	108	54	45	1,87	007290355
60	86,5	108	54	48	2,06	007290360
65	92,5	108	54	55	2,38	007290365
70	99,0	108	54	55	2,55	007290370
75	105,0	108	63	55	3,70	007290375
80	111,5	108	63	55	4,02	007290380



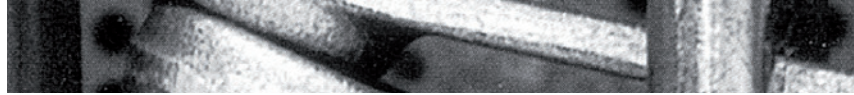
729LS

Impact sockets, 1" female square drive, hexagon end, standard series, phosphatized

mm	Ø mm	L mm	Ø1 mm	A mm	g	
22	36,0	108	53	22	956	007290522
24	38,5	108	53	24	969	007290524
27	42,3	108	53	27	1023	007290527
30	46,0	108	53	30	1063	007290530
32	48,5	108	53	32	1083	007290532
33	49,8	108	53	33	1097	007290533
36	53,5	108	53	36	1123	007290536

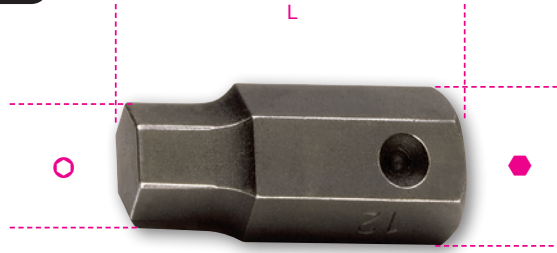


HAND TOOLS



727/ES22

Impact hexagon bits,
22 mm drive

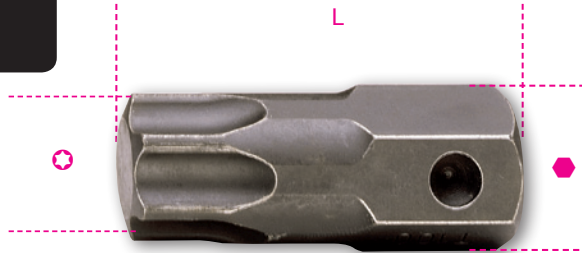


mm	mm	L mm	g	
19	22	50	142	007270219
22	22	50	161	007270222
24	22	50	175	007270224
27	22	50	199	007270227
30	22	50	230	007270230
32	22	50	266	007270232



727/ES22TX

Impact bits for Torx®
head screws, 22 mm drive



	mm	L mm	g	
T80	22	60	141	007270480
T90	22	60	154	007270490
T100	22	60	170	007270500



727PI/22

Impact bit holder for
item 727/ES22 and
727/ES22TX,
phosphatized



"	mm	L mm	mm	g	
1	54	70	22	787	007270022

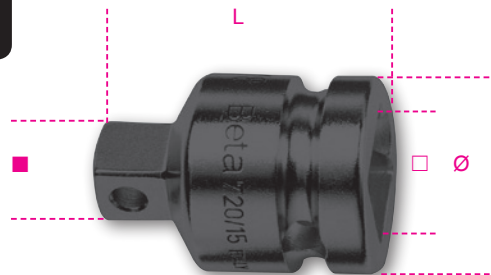
1"



729/15

Impact adaptor, 1" female
and 3/4" male drives

Always apply torque loads evenly
and progressively to avoid breakage
and any possible injury.

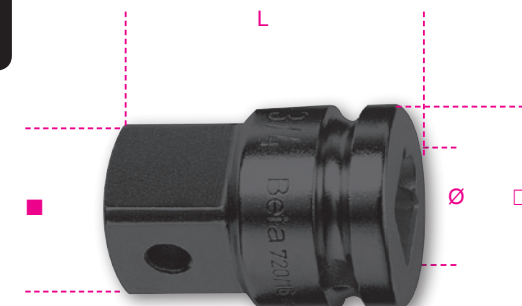


"	"	L mm	mm	g	
1	3/4	66,5	54	558	007290810

1"

729/16

Impact adaptor,
1" female and
1.1/2" male drives



"	"	L mm	mm	kg	
1	1.1/2	88	54,0	1,06	007290813

1"



1"



729/21

1" drive impact extension bar, phosphatized

□	■	L	Ø	kg	
"	"	mm	mm		
1	1	175	54	1,4	007290815

1"

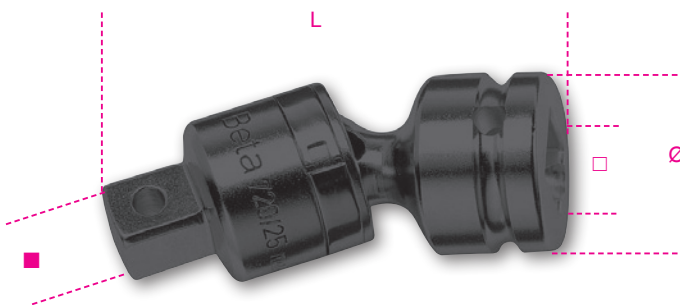


729/22

1" drive impact extension bar, phosphatized

□	■	L	Ø	kg	
"	"	mm	mm		
1	1	330	54	2,4	007290825

1"



729/25

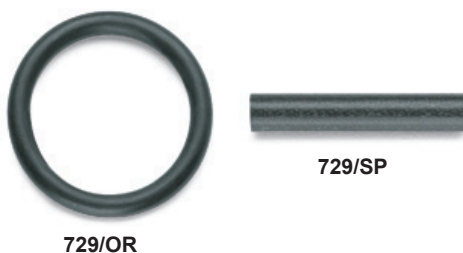
1" drive impact universal joint, phosphatized

□	■	L	Ø	kg	
"	"	mm	mm		
1	1	130	54	1,34	007290830

3/4"

1"

1 1/2"

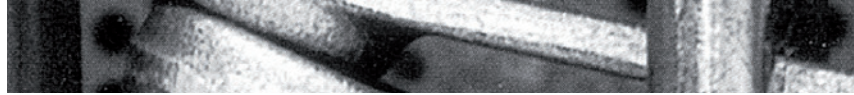


729/OR... - 729/SP...

Rubber O-rings and locking pins for impact sockets

○	■				
729/OR1	729/SP1	728 (50 mm) • 729 (24÷70 mm) • 729L • 729LS • 729/15		3/4-1	
		729/16 • 729/21 • 729/22 • 729/25			
729/OR2	729/SP2	729 (75÷80 mm) • 730/15		1-1.1/2	

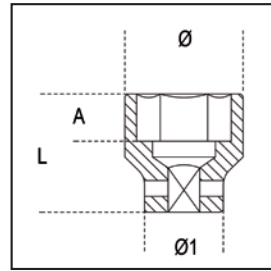
n°	g	
729/OR1	4,8	007290927
729/OR2	8,6	007290928
729/SP1	5,6	007290917
729/SP2	17	007290918



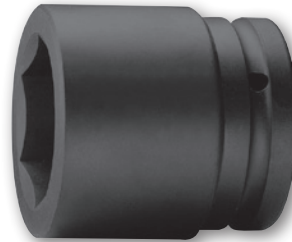
730

Impact sockets, 1.1/2" female square drive, hexagon end, standard series, phosphatized
UNI/ISO 2725 DIN 3129

1 1/2"



mm	Ø mm	L mm	Ø1 mm	A mm	kg	
50	81	87	84	33	2,32	007300050
55	88	90	86	36	2,61	007300055
60	94	95	86	39	3,02	007300060
65	100	100	86	39	3,51	007300065
70	106	105	86	40	3,86	007300070
75	113	110	86	40	4,67	007300075
80	119	115	86	42	5,23	007300080
85	125	120	86	45	5,91	007300085
90	132	125	86	48	6,83	007300090
95	138	125	96	51	7,35	007300095
100	144	130	96	54	8,09	007300100
105	150	135	96	58	8,54	007300105
110	157	140	96	61	9,57	007300110
115	163	140	96	64	10,48	007300115
120	169	145	96	68	10,36	007300120
125	175	145	96	70	11,80	007300125

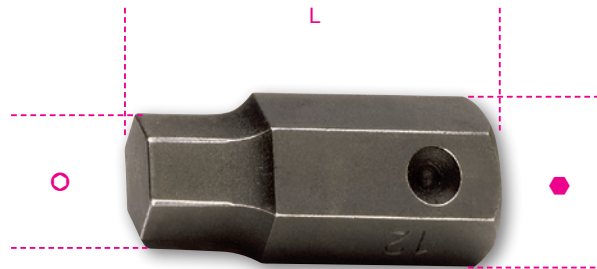


727/ES32

Impact hexagon bit, 32 mm drive



mm	mm	L mm	g	
19	32	44	210	007270519
22	32	44	228	007270522
24	32	44	235	007270524
27	32	44	255	007270527
30	32	44	278	007270530
32	32	44	298	007270532
36	32	44	338	007270536



727PI/32

Impact bit holder for item 727/ES32, phosphatized

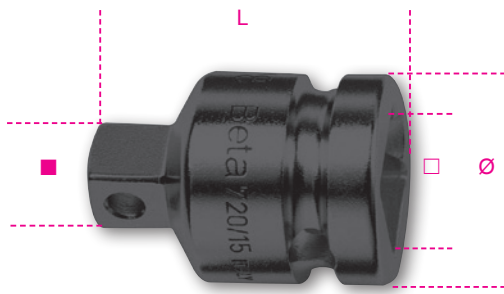
1 1/2"



mm	"	Ø mm	L mm	kg	
32	1.1/2	86	66	1.75	007270032



1 1/2"

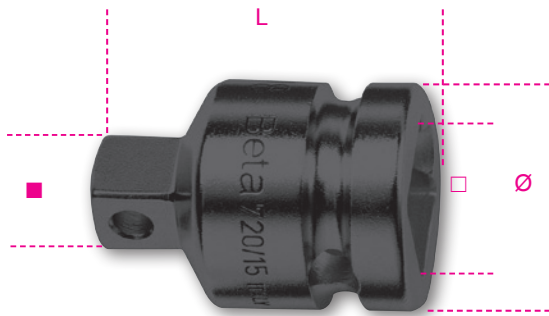


730/15

Impact adaptor 1.1/2" female and 1" male drives, phospatized

Female Drive	Male Drive	L mm	Ø mm	Weight (kg)	Part No.
1.1/2"	1"	105	84,0	2,03	007300810

2 1/2"



733/15

Impact adaptor 2.1/2" female and 1/2" male drives, phospatized

Female Drive	Male Drive	L mm	Ø mm	Weight (kg)	Part No.
2.1/2"	1/2"	105	84,0	2,03	007300810



902A/C22

Assortment of 22 hexagon sockets and 6 accessories in metal case

1/4"



1/2"



kg 009020807

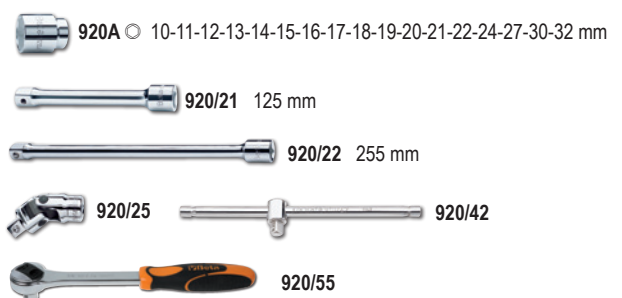
420x185x60 mm

1/2"



920A/C17M

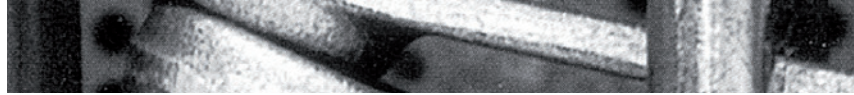
Assortment of 17 hexagon sockets and 5 accessories in foam tray, in metal case



kg 009200924


420x185x60 mm

HAND TOOLS



928A/C12

Assortment of 12 hexagon hand sockets and 5 accessories in sheet metal case

 928A ○ 22-24-27-30-32-34-36-38-41-46-50-55 mm

 928/21 200 mm  928/22 380 mm

 928/25  928/42  928/55

≡ 530x220x80 mm


 kg
16,7  009280955



3/4"

928AS/C12

Assortment of 12 hexagon hand sockets and 5 accessories in sheet metal case

 928AS ○ 7/8-15/16-1.1/16-1.1/8-1.1/4-1.5/16-1.13/16-1.1/2-1.11/16-1.13/16-1.7/8-2.1/16

 928/21 200 mm  928/22 380 mm

 928/25  928/42  928/55

≡ 530x220x80 mm


 kg
13,5  009280955




3/4"

929/C8

8 hexagon sockets and 5 accessories

 929/15 □ 1" ■ 3/4

 929 ○ 46 - 50 - 55 - 60 - 65 - 70 - 75 - 80 mm

 929/21 200 mm  929/22 400 mm

 929/42  929/55

≡ 560x290x12 mm

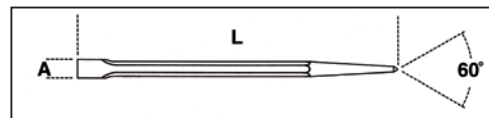
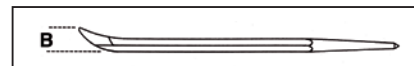
 kg
29  009290925



1"

963

Pry bar with pointed and flat bent ends

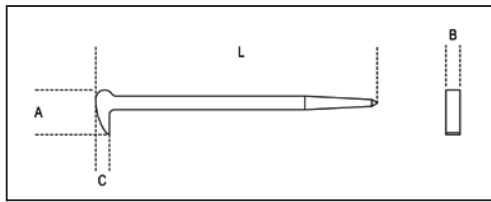


L	A	B	 g	
mm	mm	mm		
400	23	30	607	009630001

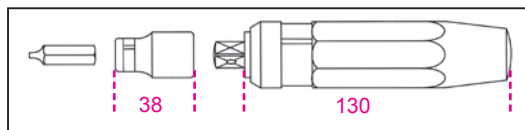


964

Pry bar with pointed and leverage ends



L mm	A mm	B mm	C mm	g	
400	46	14	14	484	009640001



1295/C14

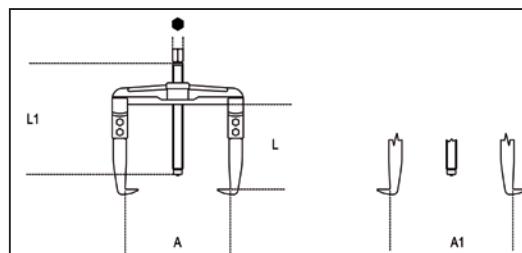
Impact screwdriver with 14 insets and 1 socket holder, in metal case



- 866LP ● 1,2x6,5 - 1,6x10 mm
- 866PH ⊕ PH2 - PH3
- 866PZ ⊕ PZ2 - PZ3
- 866PE ○ 5 - 6 mm
- 866TX ○ T27 - T30 - T40 - T45 - T50 - T55
- 895/6 □ 1/2 - ○ 5/16
- 1295 ■ 1/2"

170x100x35 mm

kg	
1,3	012950108



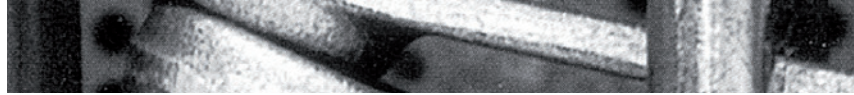
1500/...

Two-leg universal pullers

• For external and internal use



n°	A mm	A1 mm	L mm	L1 mm	● mm	kg	
1500/1	25÷80	70÷130	100	135	17	0,90	015000301
1500/2	25÷130	80÷180	100	135	17	1,10	015000302
1500/3	50÷160	105÷220	150	210	22	2,80	015000303
1500/4	60÷200	120÷270	150	210	22	3,10	015000304
1500/5	80÷250	160÷330	205	280	27	6,80	015000305
1500/6	80÷350	160÷420	205	280	27	8,10	015000306
1500/7	110÷520	195÷600	205	280	27	12,5	015000307
1500/8	170÷640	260÷715	230	310	36	23,3	015000308



1517

Three-leg self-locking pullers

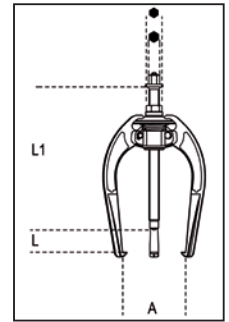
- Simultaneous leg opening.
- Self-locking effect
- Double nut
- Patent pending

C=Capacity

n°	A mm	L mm	L1 mm	● mm	● mm	C Kg	kg	
1517/150	25÷150	115	242	22	19	6000	2,20	015170010
1517/200	40÷200	150	307	22	19	6000	2,80	015170020
1517/260	50÷260	180	395	30	27	8000	5,30	015170030



3/4"

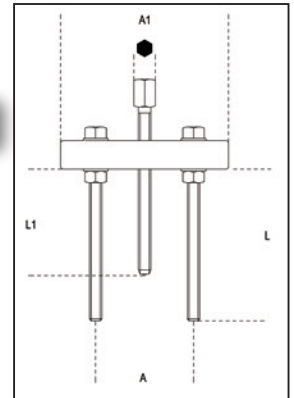
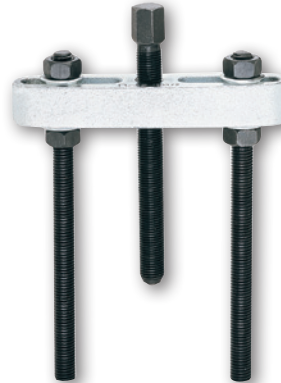
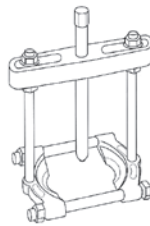


1533

Pullers for separators 1534

C=Capacity

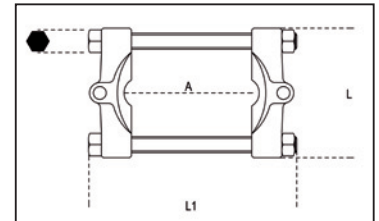
n°	A mm	L mm	L1 mm	● mm	A1 mm	C Kg	kg	
1533/2	45÷130	150	110	17	150	6000	1,00	015330002
1533/3	85÷225	210	175	22	260	6000	2,70	015330003
1533/4	80÷310	315	175	22	350	8000	5,10	015330004
1533/5	145÷370	305	235	27	450	6000	9,80	015330005



1534

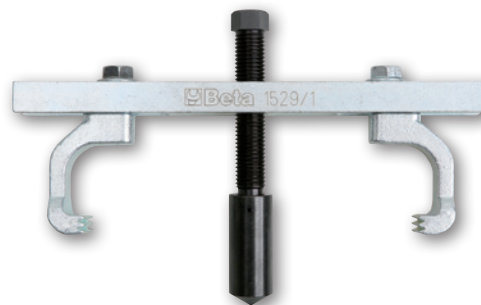
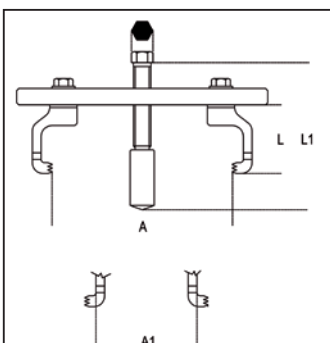
Separators

n°	A mm	L mm	L1 mm	● mm	kg	
1534/1	5÷60	88	125	17	0,40	015340001
1534/2	12÷75	118	150	19	0,74	015340002
1534/3	22÷115	160	195	24	1,77	015340003
1534/4	25÷155	205	275	30	3,98	015340004
1534/5	30÷220	290	410	36	11,40	015340005



1529

Multi-step cone pulley puller, in plastic case



260x210x60 mm

A mm	L mm	L1 mm	A1 mm	● mm	kg	
24÷240	60÷95	90÷135	140÷230	17	2,70	015290000

1547/C6

Dummy ball bearing extractors

- Quick, safe extraction

Bearings:
1547/1

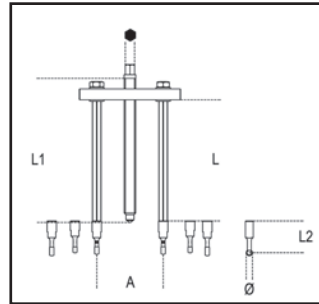
6004-6010, 6200-6205, 6300-6304

1547/2

6011-6014, 6206-6211, 6303-6308,
6403-6405



420x185x60 mm



A mm	L mm	L1 mm	L2 mm	mm	Ø mm	kg	
25-135	60-165	147-200	41	12-13	5-6-8-9-11-12,5	3	015470006

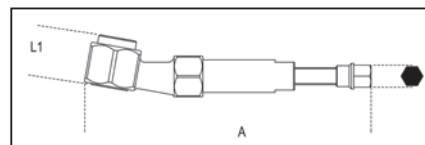
1570/3

Hydraulic presses for pullers

Designed to develop high torque forces without making much effort in small areas and not to damage the thread of the puller when working in dusty environments.



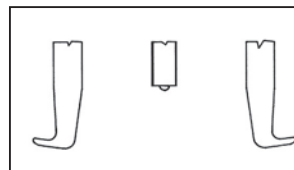
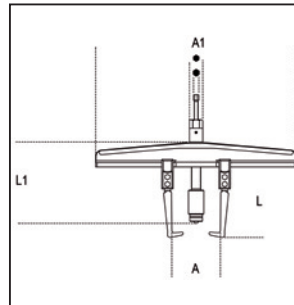
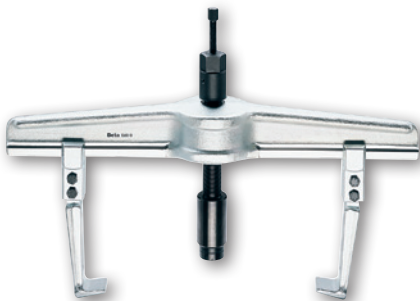
A mm	L1 mm	mm	P t	kg	
243	36	19	30	1,1	015700003



1580/8I

Two-leg hydraulic puller

The hydraulic screw provides enhanced pulling capacity without making much effort and enhanced durability of the thread.

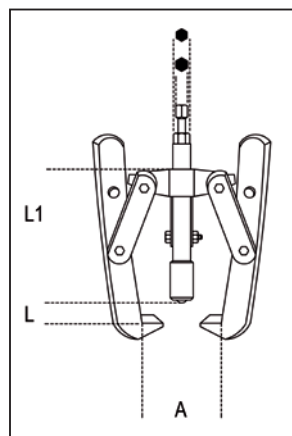


A mm	L mm	L1 mm	mm	A1 mm	kg	
170+640	210	280	17-41	715	25,5	015800008

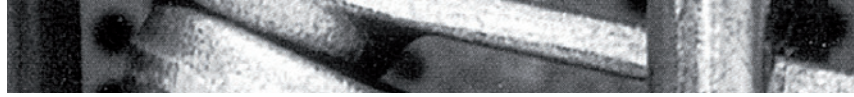
1585/5I-6I-7I

Three-leg pullers for hydraulic use

The hydraulic screw provides enhanced pulling capacity without making much effort and enhanced durability of the thread.



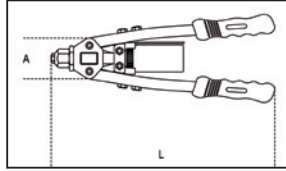
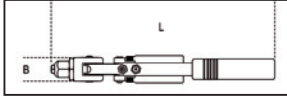
n°	A mm	L mm	L1 mm	mm	kg	
1585/5L	50+350	135	280	17-41	12,7	015850005
1585/6L	50+350	235	280	17-41	14,0	015850006
1585/7L	50+450	335	280	17-41	14,9	015850007



1740B

Compact heavy-duty riveting pliers

- Optimized lever ratio
 - For increased compactness and handiness.
 - 3 jaws lock rivet for a perfect grip.
 - Adjustable head for pulling rivet by 2 to 5 leg movements.
 - For aluminium and stainless steel rivets
- 280 mm:** \varnothing 2.4÷4.8 mm
330 mm: \varnothing 3.2÷6.4 mm



n°	L mm	B mm	A mm	kg	
1740 B280	280	35	55	0.65	017400280
1740 B330	330	40	65	1.05	017400330

1837

Magnetic, articulated lamp with high-illuminated LEDs, matt aluminium body

- Specially suitable for lighting areas which are difficult to reach with conventional lamps.
- Can be hooked by means of hose or magnet to bottom.
- Intense, uniform lighting.
- Splashproof.
- Operates with 3 AA batteries, not included.



L mm	kg	
450	300	018370001

1838/10LED

Rechargeable inspection lamp with ultra-high brightness LEDs Lithium polymer battery

- Compact body made of antislip rubber
- Easy-to-replace front glass
- Swinging hook



L mm	kg	
230	350	018380000

1840BM

230V inspection lamp, base type: E27

- Bulb not included
- 10-m-long power cable
- 2 hooks



CE IP20



V	W	L mm	kg	
230	60	420	840	018400101



IP42
IP20



1843BM

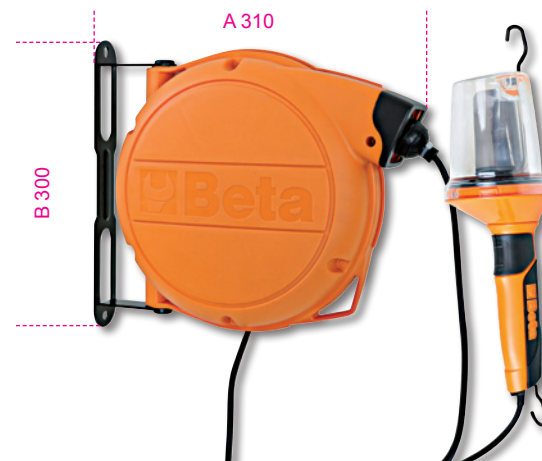
Automatic cable reel
with 230 Vac inspection lamp,
base type E27 and steel protector

- Bulb not included

kg	A	B	Icon
4,5	310	300	018430101



IP42
IP65



1843WBM

Automatic cable reel
with 230 Vac inspection lamp,
base type E27

- Bulb not included

kg	A	B	Icon
4,2	310	300	018430120

1844ABM

Automatic cable reel
with 24 Vac fluorescent
inspection lamp

- Bulb included



kg	Icon
6	018440102



1844BM

Automatic cable reel
with 230 Vac fluorescent
inspection lamp

- With 230/24V safety transformer
- Bulb included



kg	A	B	Icon
4,2	310	300	018440104



L=15 m

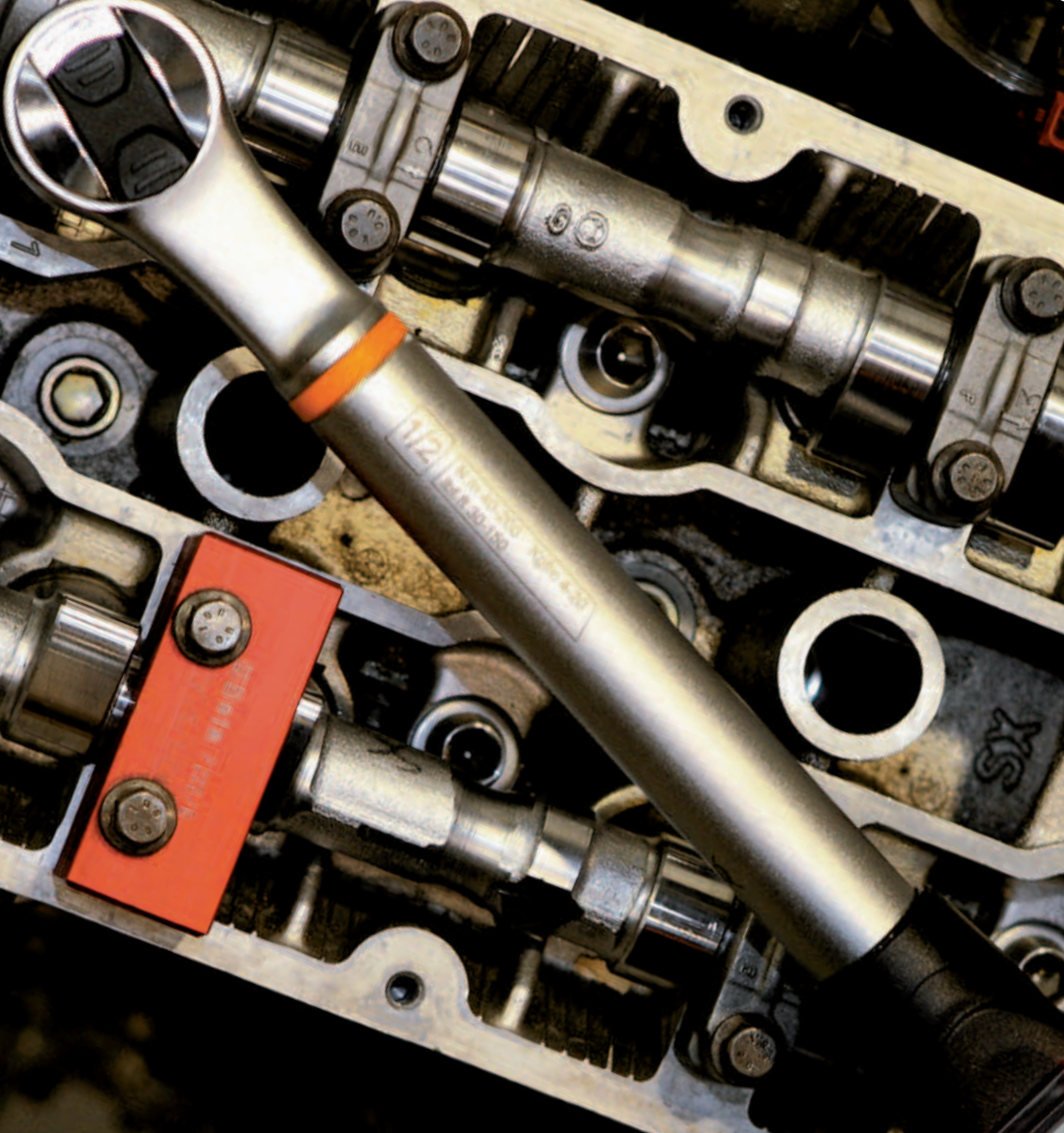


1901/10

Automatic hose reel,
shock-proof plastic body, for
compressed air or cold water

- Max. working pressure: 12 bars

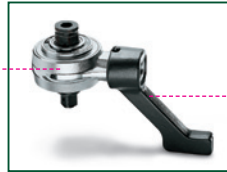
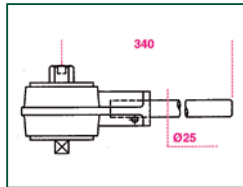
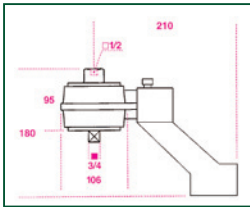
Bar max	A mm	B mm	kg	Icon
12	470	330	6	019010010



TORQUE CONTROL

560/C2

Torque multiplier, ratio 5:1, and accessories in plastic case



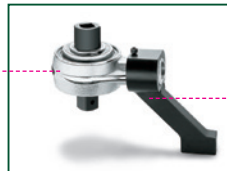
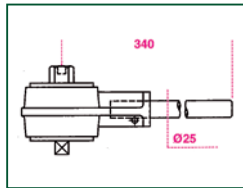
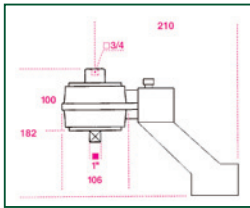
560/2

560/22

n°	Icon
560/C2	005600020
560/2	005600002
560/18	005600018
560/19	005600019
560/22	005600022

□	■	Nm	kgfm	lbf.ft	kg	Icon
1/2"	3/4"	1300	130	960	3,8	005600020

320x285x115 mm



560/4

560/22

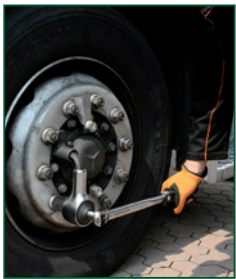
n°	Icon
560/C4+	005600042
560/4	005600004
560/18	005600018
560/22	005600022

□	■	Nm	kgfm	lbf.ft	kg	Icon
3/4"	1"	2700	270	2000	5	005600042

320x285x115 mm

560/C4+

Torque multiplier ratio 5:1 with reaction foot



400x260x110 mm

560/C6

Torque multipliers for right-hand and left-hand tightening in plastic case ratio: 6.5:1

- Complete with straight reaction lever and reaction foot

Nm	kgfm	lbf.ft	□	■	kg	Icon
1500	150	1106	1/2"	3/4"	6	005600160



400x260x110 mm

560/C12

Torque multipliers for right-hand and left-hand tightening in plastic case ratio: 12:1

- Complete with straight reaction lever and reaction foot

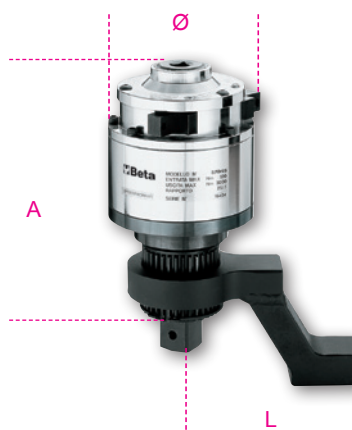
Nm	kgfm	lbf.ft	□	■	kg	Icon
2500	250	1844	1/2"	1"	7	005600210

TORQUE CONTROL



564/3R

Torque multipliers, ratio 25:1, with anti-wind up system



Nm	kgfm	lbf.ft	□ "	■ "	Ø mm	A mm	L mm	kg	📦
3000	300	2200	1/2	1"	108	188	155	9,2	005640003

599DGT

Electronic direct reading torque wrench, for right-hand and left-hand tightening, torque accuracy: $\pm 2\%/\pm 3\%$

buzzer and LED indicator for pre-settable target torque
• Power supply: 2 1.5V batteries (included)

Measuring range: 12÷60 Nm

Male square drive: 1/2"

Accuracy: +/- 2% clockwise, +/- 3% anticlockwise

Reversible ratchet

For right-hand and left-hand tightening

LCD display

User-friendly symbols and easy-to-read measuring data

Unit of measurement: Nm, ft.lb, in.lb, kgcm

Operation mode: Peak hold / Track

Dual approaching/stopping signal

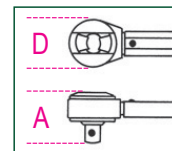
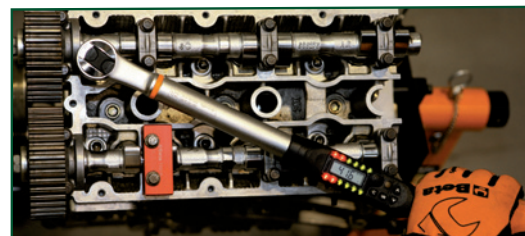
Green LEDs and, later, red LEDs matched with a buzzer inform user that set torque has been reached.

Green LEDs are on when 90% of torque has been reached (warning signal).

Red LEDs are on when preset torque is reached (stop signal).

Buzzer: easy to set

UNI EN 26789
ISO 6789

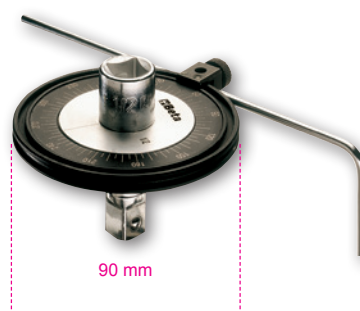


n°	Nm	kgfm	lbf.ft	■ "	D mm	A mm	L mm	kg	📦
599DGT/6	12÷60	1,2÷6	8÷44	3/8	30	33	413	0,8	005990003
599DGT/10X	20÷100	2÷10	15÷80	1/2	30	37	413	1,0	005990010
599DGT	40÷100	4÷20	30÷150	1/2	40	43	520	1,5	005990020
599DGT	68÷340	6,8÷34	5÷280	1/2	40	43	639	2,3	005990030



600

Torque angle indicators



n°	□ "	■ "	g	📦
600/1	1/2	1/2	550	006000001
600/2	3/4	3/4	880	006000002

601

Electronic torque angle indicator in plastic case

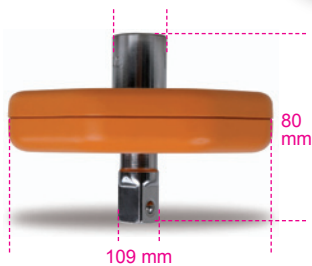
- For tightening screws to values set by measuring torsion angle
- Does not need any fixed reference point to anchor to
- Complete with buzzer and LED indicators informing user that preset angle has almost or finally been reached.

Features:

- Direct angle reading (ANGLE)
- Target angle setting (SET)
- Maximum value (MAX)



225x210x100 mm



TECHNICAL DATA:

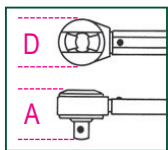
- Female square drive: 1/2"
- Male square drive: 1/2"
- Measuring range: 999° ÷ +999°
- Accuracy: +/- 1%
- Reading: clockwise/anticlockwise
- Power supply: 3 1.5V batteries
- Resolution: 0.1°
- Display: 32 digits - LCD - backlit

n°	□	■	g	g
601 1/2	1/2"	1/2"	765	006010001
601 3/4	3/4"	3/4"	950	006010002

606/2 - 606/2X

Click-type torque wrenches with reversible ratchets for right-hand tightening torque accuracy: ±4%

UNI EN 26789
ISO 6789

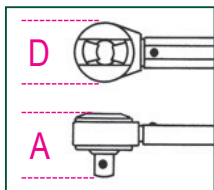


n°	Nm	kgfm	lbf.in	■	D mm	A mm	L mm	g	g
606/2	4÷20	0,4÷2	40÷180	1/4	28	25	220	400	006060102
606/2X	4÷20	0,4÷2	40÷180	3/8	28	31	220	400	006060103

606/6 ÷ 606/30

Click-type torque wrenches with reversible ratchets for right-hand tightening torque accuracy: ±4%

UNI EN 26789
ISO 6789



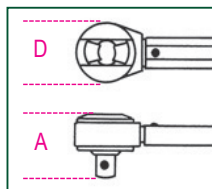
n°	Nm	kgfm	lbf.ft	■	D mm	A mm	L mm	g	g
606/6	8÷60	0,8÷6	6÷44	3/8	30	33	305	595	006060105
606/10	20÷100	2÷10	15÷80	3/8	30	33	345	660	006060110
606/10X	20÷100	2÷10	15÷80	1/2	30	37	345	680	006060111
606/20	40÷200	4÷20	30÷150	1/2	40	43	440	920	006060120
606/30	60÷330	6÷33	40÷250	1/2	40	43	560	1180	006060130



667/C3

UNI EN 26789
ISO 6789

Assortment of one click-type torque wrench with push-through ratchet item 667/40 and three hexagon sockets



667/40 kgfm 8÷40 lbf.ft 60÷320



928A 24-27-30 mm

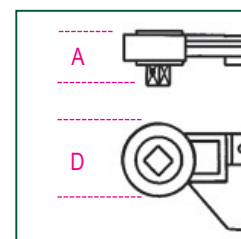
Nm	"	D mm	A mm	L mm	kg	
80÷400	3/4	50	50	690	4,6	006670240

677

Break-back torque wrenches with push-through ratchets for right-hand and left-hand tightening torque accuracy: $\pm 4\%$

UNI EN 26789
ISO 6789

3/4"



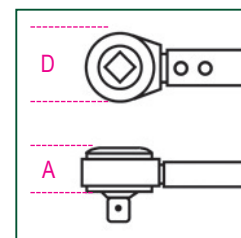
n°	Nm	kgfm	lbf.ft	D mm	A mm	L mm	kg	
677/50	100÷500	10÷50	70÷350	70	55	915	5,2	006770050
677/70	150÷700	15÷70	100÷500	70	55	1140	6,2	006770070
677/100	300÷1000	30÷100	200÷750	70	55	1470	7,5	006770100

678

Click-type torque wrenches with push-through ratchets for right-hand and left-hand tightening torque accuracy: $\pm 4\%$

UNI EN 26789
ISO 6789

3/4"



n°	Nm	kgfm	lbf.ft	D mm	A mm	L mm	kg	
678/55	110÷550	11÷55	80÷405	61	55	845	3,7	006780055
678/100	300÷1000	30÷100	220÷750	75	60	1250	6,0	006780100
678/150	500÷1500	50÷150	370÷1100	75	60	1570	6,7	006780150

DIAGNOSTIC





961/P6

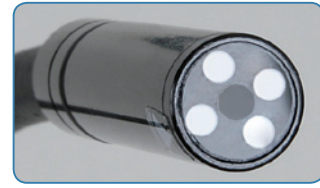
Electronic videoscope with flexible probe

Allows videos or individual images to be directly recorded on instrument

- Supports SD cards (8 GB)
- Supports flash memories (8 GB)
- Internal memory: 128M
- TV-OUT feature
- Supports video formats (MP4, AVI, 3GP)
- 4 LEDs
- Power supplied by USB port (built-in battery)

SPECIFICATIONS

- Sensor pixels: 640x480
- Maximum resolution: 320x240
- Probe length: 1 m
- Camera diameter: 6 mm
- Video formats: MPEG4, 3GP, AVI, ASF.
- Photo formats: JPEG
- Shooting angle: 0÷180°
- Data output: USB cable and SD card
- Power supply: 3.7V 2000 mAh battery



kg
2 009610000

1760/IR800

Digital infrared thermometer with dual laser aiming system

TECHNICAL DATA

Range: -50 °C to +800 °C /
-58 °F to +1472 °F

Scale selection: °C/°F

Accuracy: ±1.0% or ±1.0 °C to 20 °C

Laser power: <1mW

Response: 150ms

Emissivity: 0.10-1.0 adjustable

Distance ratio: (D:S) 20:1

Operating temperature:
0 °C ÷ 50 °C / 32 °F ÷ 122 °F

Operating humidity: 10% to 90% RH

Backlit LCD display

Data storage function

Auto power off

Power supply: 1 9V battery (included)

Soft cloth case (included)

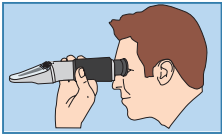
Operating manual



CE

g
350 017600380





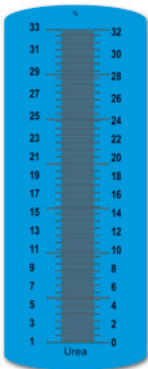
1759M

Optical analyzer for coolant and battery fluids

- Instant measurements: battery and freezing point from -3 to -48 °C.
- Liquid battery charge: 1100 g/l to 1400 g/l.
- Supplied with accessories for collecting battery and coolant fluids.
- Measurements are automatically compensated according to temperature.



9
480 017590201



1759ADB

Optical analyzer for AdBlue® fluid

- Instantaneous measurement of uric acid concentrations in solution
- Supplied complete with dropper, zero adjustment screwdriver and case.

9
400 017590301

CE

SPECIFICATIONS

DC voltage: 0.1mV ÷ 600V
 AC voltage: 0.1mV ÷ 600V
 AC current: 0.01A ÷ 1000A
 DC current: 0.01A ÷ 1000A
 Resistance: 0.1Ω ÷ 40MΩ
 Capacity: 0.001nF ÷ 40 μF
 Frequency: 0.001kHz ÷ 4kHz
 Temperature: -40°C ÷ 1000 °C
 -40°F ÷ 1832°F



1760PA/AC-DC

Amperometric clamp and digital multimeter

- Allows DC and AC measurements up to 1000 A
- Integrated multimeter function

A: AC/DC
 V: AC/DC



9
660 017600000

CE



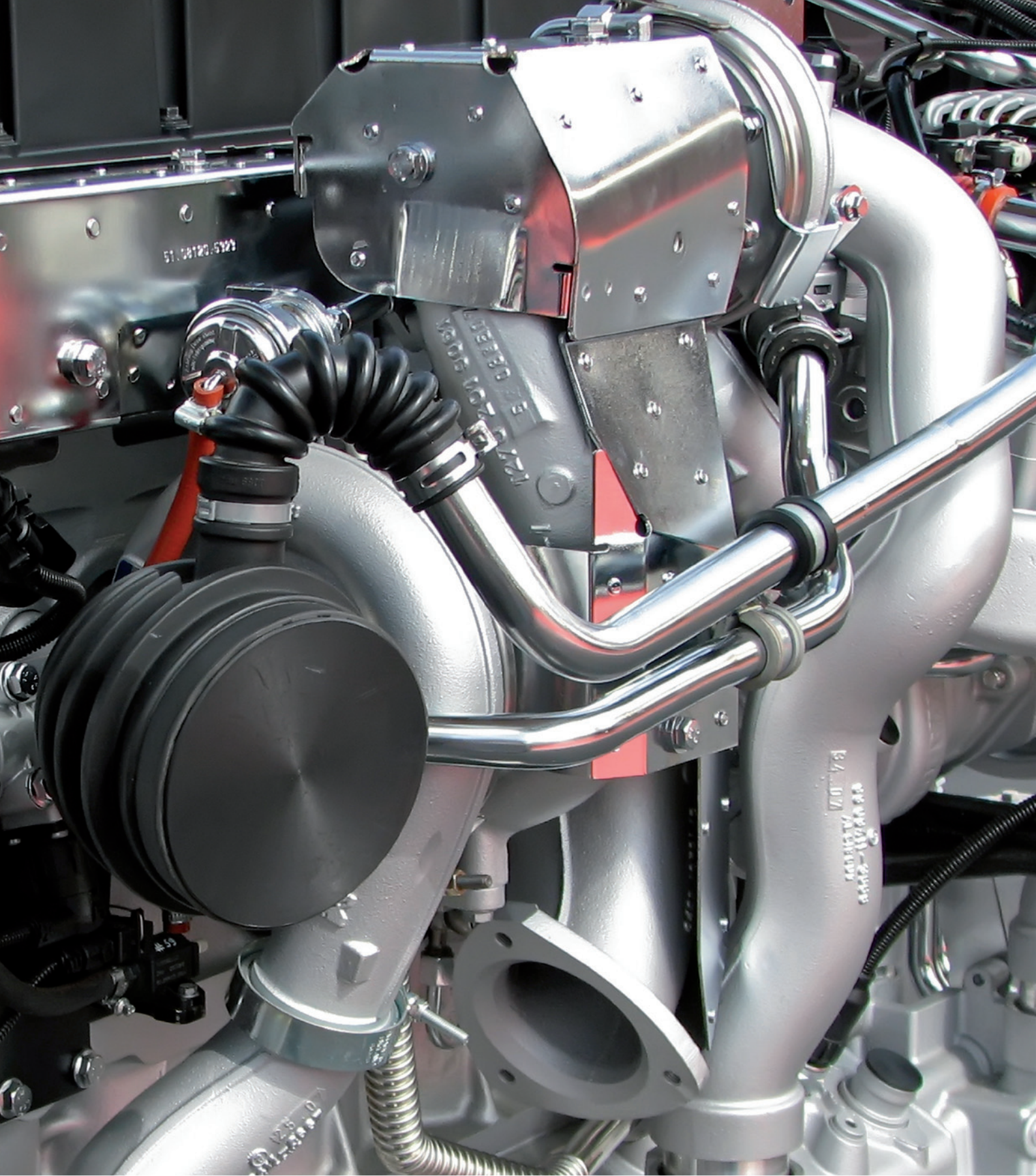
1760B

Digital multimeter

SPECIFICATIONS

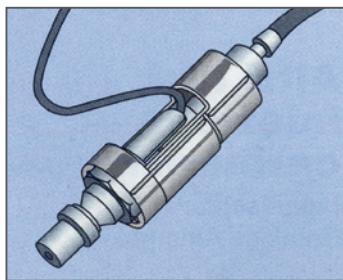
DC voltage: 200 mV-2/20/200/1000V
 AC voltage: 2-20/200/700V
 DC current: 2/20/200 mA-20 A
 AC current: 2/200 mA- 20 A
 Resistance: 200Ω - 2/20/200 kΩ - 2/20 MΩ
 Capacity: 2/20/200 nF - 2/200 μF
 Temperature: -20° + 1000°C/ -4 °F ~ +2000°F
 Frequency: 20kHz
 Power supply: 1 9V battery (included)

9
670 017600012



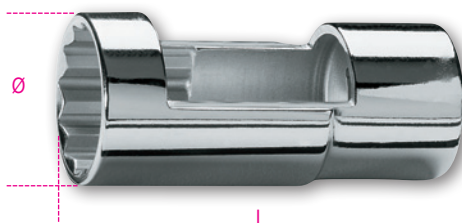
ENGINE

1/2" 



960A

1/2" square drive socket for Diesel engine injectors



mm	Ø mm	L mm	g	
27	36,5	77	200	009600017

1/2" 

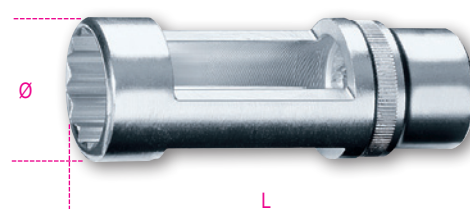


960

1/2" square drive socket for Diesel engine injectors

mm	Ø mm	L mm	g	
27	36,5	77	260	009600027

1/2" 



960S

1/2" square drive socket for Diesel engine injectors

mm	Ø mm	L mm	g	
22	31	84	120	009600080

1/2"



960G

Socket for Diesel engine injectors of Mercedes-Benz trucks

Ø mm	Ø1 mm	L mm	g	
27	22	111	260	009600150



960H/C4

Set of sockets for setscrews on injector supports

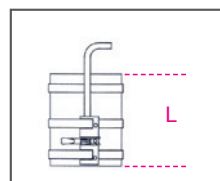
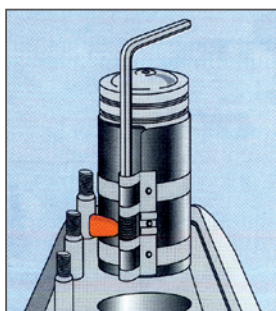
- Allows setscrews to be screwed and unscrewed on injector supports
- Includes tooth sockets for setscrews type 1-2-3-4
- Ideal for Mercedes Benz and Man vehicles



kg
1,5 009600152

1440/...

Piston ring compressors

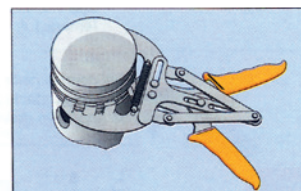
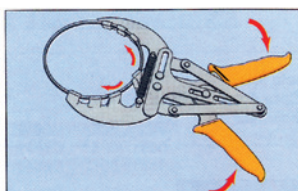


n°	Ø mm	L mm	g	
1440/0	40÷75	50	163	014400000
1440/1	57÷125	80	279	014400010
1440/1A	57÷125	100	301	014400011
1440/2	90÷175	80	311	014400020
1440/2A	90÷175	100	341	014400021
1440/3	90÷175	165	544	014400030



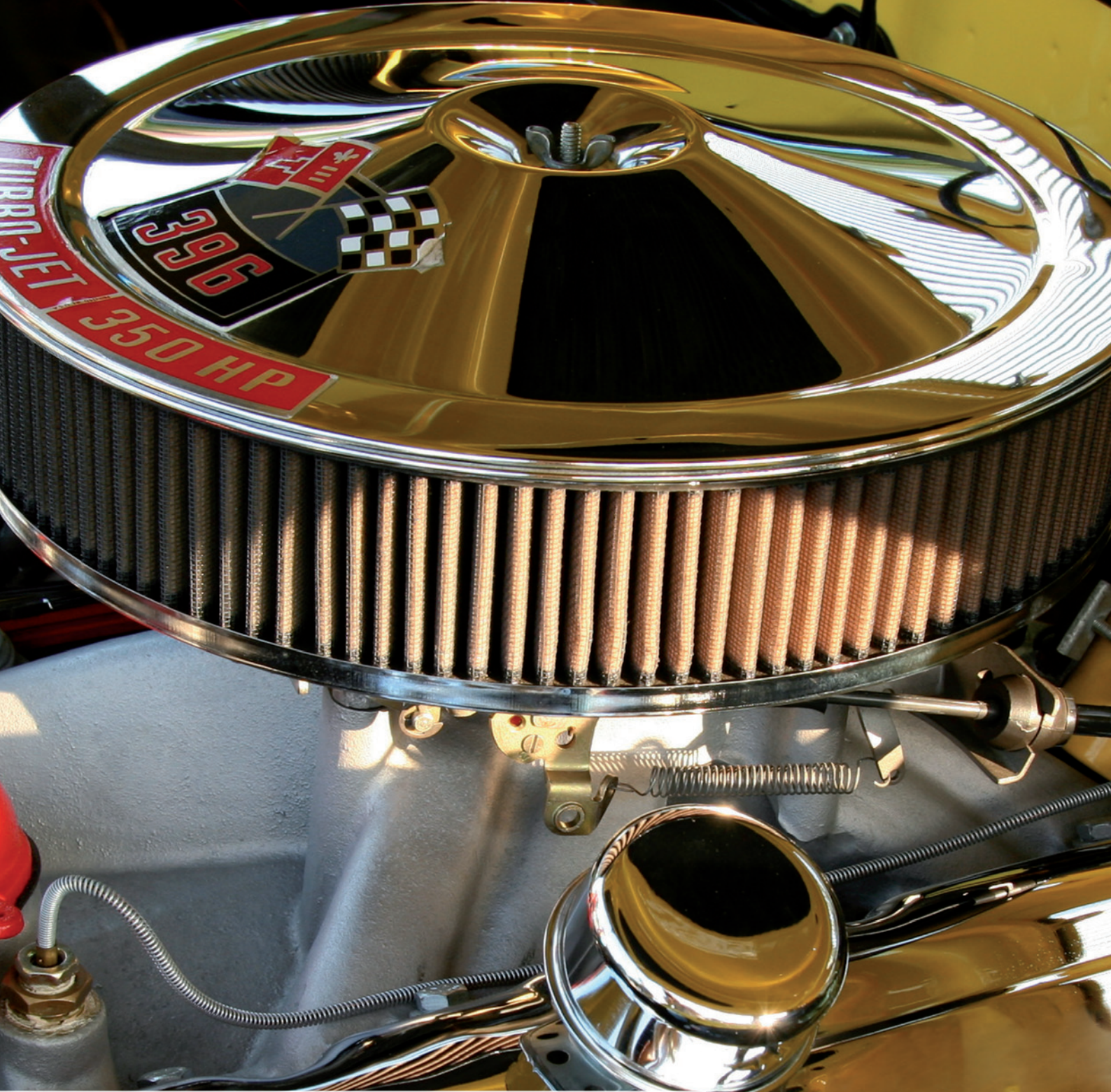
1445

Piston ring expanders



n°	Ø mm	g	
1445/1	50÷100	248	014450001
1445/2	90÷150	424	014450002





OIL & FILTERS

1488L

Oil-filter wrench with double chain



Ø mm	g	
60÷160	890	014880050

1493/S-U

Self-adjusting oil filter wrench with 3 arms, for right and left hand tightening



n°	"	Ø mm	g	
1493/S	3/8-1/2	80-115	685	014930074
1493/U	1/2	105-165	1400	014930076

1493/C30

Set of 28 oil filter wrenches

- For tightening and loosening oil filters
- 1/2" female drive
- In plastic case

Sizes included in kit:

Ø mm / n° of sides

- 66/6 - 65/14 - 67/14 - 68/14 - 73/14 - 74/15
 76/15 - 75.77/15 - 76/12 - 76/14 - 76/30
 76/8 - 78/15 - 80/15 - 82/15 - 86/16 - 86/18
 90/15 - 92/10 - 93/15 - 93/36 - 93/45 - 95/15
 96/18 - 100/15 - 106/15 - 108/15 - 108/18
 - Includes 1 adjustable oil filter wrench
 Ø 65-120 mm



530x410x110 mm

kg	
4	014930000

12"

1493

Oil filter wrench

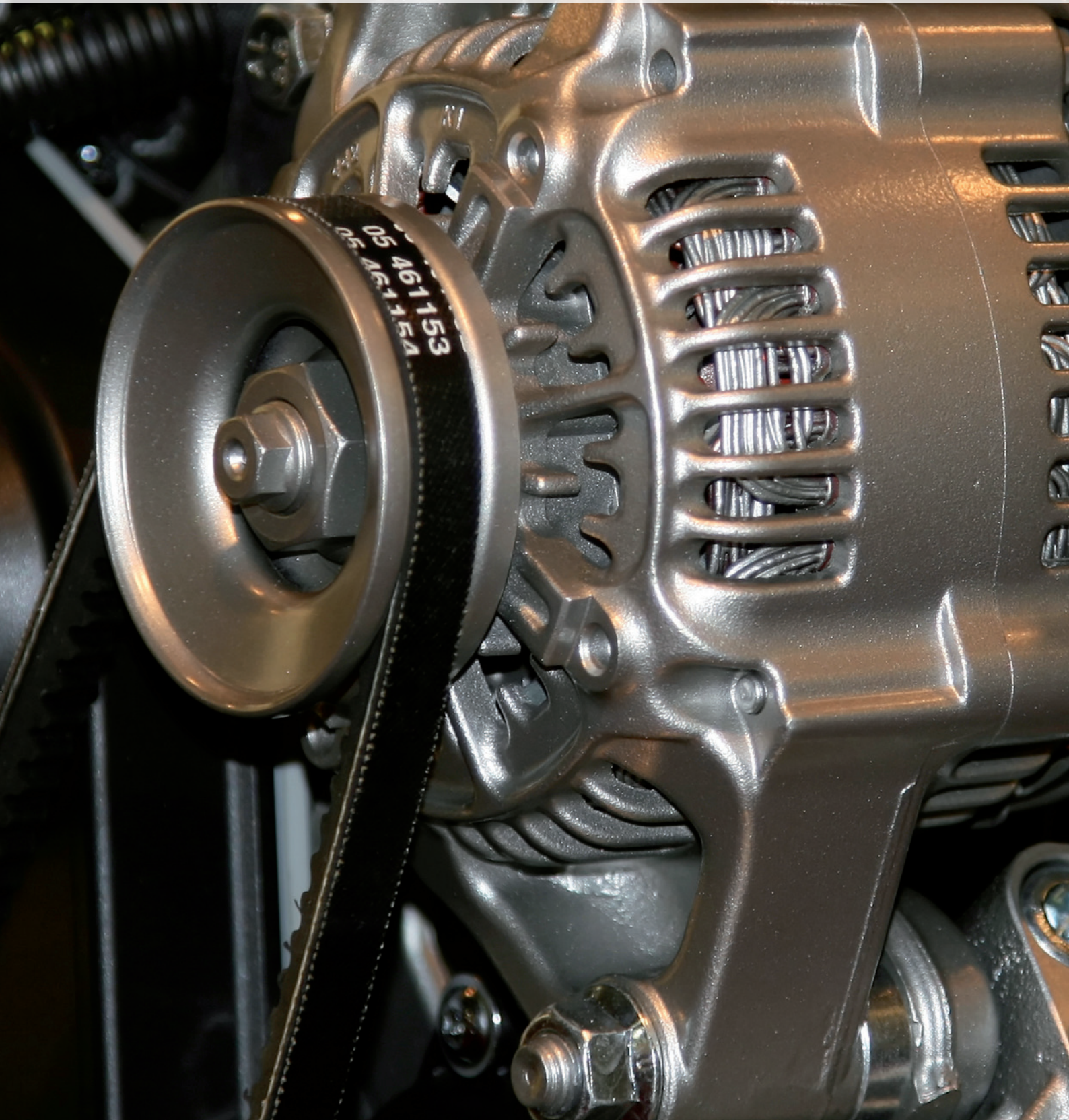
Recommended for MAN vehicles
 Ø 135 mm - 18 sides



n°	g	
135	400	014930256

12"

ELECTRIC SYSTEM



1498TB/ST

Digital tester with printer for testing battery and starter in plastic case

Allows the following batteries to be tested:

- WET, flat AGM, spiral AGM, VRLA/GEL

Includes a CD with codes decoding software



kg



2 014980471



410x380x80 mm

Measures state of charge, capacity and efficiency of battery

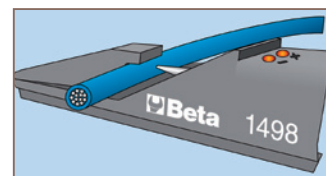
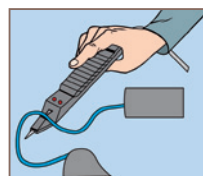
- Tests alternator for efficiency
- Tests starter

SPECIFICATIONS

- Battery tests: 6 and 12 Volts
- System test: 12 and 24 V
- Operating range: 40-2000CA (SAE)
- Reference standards: SAE, DIN, EN, IEC, JIS
- Voltmeter: 1.5-30V
- Screen: backlit 4-line LCD display
- Thermal printer
- Software languages: EN-F-E-D-I-P-NL
- Supplied with: 1 printing paper roll, 6 AA size 1.5V batteries
- Issue of control code

1498

Voltage tester



V



g



3÷48 100 014980100

1498A/24

Car and commercial vehicle starter, 12-24 V

TECHNICAL DATA

- Pickup current 3400 A (12 V), 1700 A (24 V)
- Useful recharging cycles 400
- Sealed lead acid battery, solid electrolyte (AGM) type



kg



17 014980210

1498CB/300

Electronic battery charger, 12-24V

Charges and maintains battery, preserving electronic components in any vehicle

SPECIFICATIONS

- Automatic 8-stage microprocessor control of charge and 3-stage diagnosis
- Charging process specific to type of battery to recharge
- Ideal for Gel-Agm-Wet batteries
- 12 and 24 Volts
- Digital display
- Vehicle memory power supplier
- **Recovery function for thoroughly exhausted batteries**



TECHNICAL DATA

Power supply: 230V
 Power: 350W
 Voltage: 12-24V
 Charging current: 15-10A
 Nominal reference capacity: 30-500Ah

ACCESSORIES SUPPLIED WITH BATTERY CHARGER

- Connecting clamps
- Connector with eyelet terminals

30-500 Ah 12-24 Volt



kg

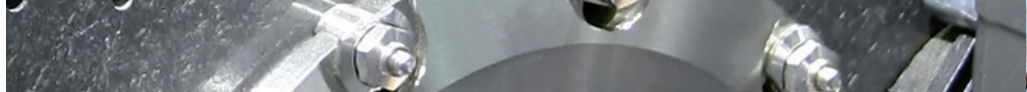


2 014980330

BRAKES



BRAKES



1470

Drum brake spring pliers



L mm	g	
330	412	014700002
540	1200	014700010

1471

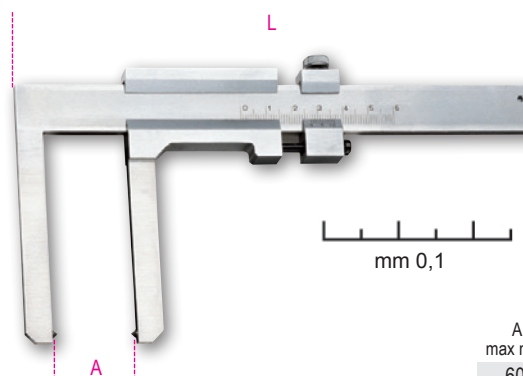
Drum brake spring pliers



L mm	g	
330	440	014710001

1650FD

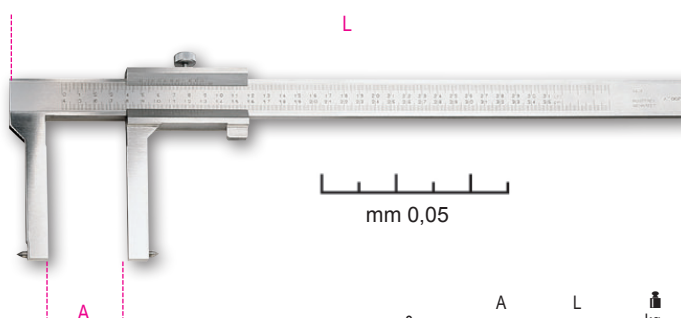
Sliding gauge for brake discs
reading to 0.1 mm



A max mm	L mm	g	
60	205	250	016500050

1650FT

Sliding gauge for brake drums
made from stainless steel
reading to 0.05 mm



n°	A max mm	L mm	kg	
1650FT/1	350	438	1,4	016500060
1650FT/2	500	550	2,2	016500070

1737NX

Brake shoe cleaning brush
plastic handle steel wires



L mm	g	
270	120	017370010



WHEELS AND TRANSMISSION



WHEELS AND TRANSMISSION

720PL

Impact sockets for wheel nuts, with polymeric material insets



12"



mm	Ø mm	L mm	g	kg
17	29,5	87	210	007200617
19	29,5	87	215	007200619
21	31,0	87	220	007200621
22	33,0	87	280	007200622
24	35,0	87	300	007200624

720PL/C5

Impact sockets for wheel nuts, with polymeric material insets

Sizes: 17-19-21-22-24 mm



12"



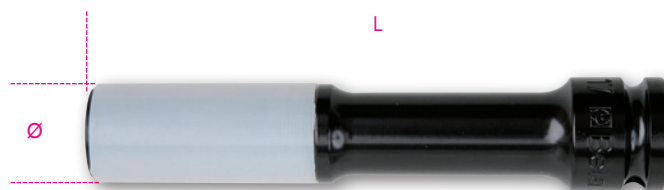
17-19-21-22-24 mm 1,6 kg 007200650

240x165x50 mm

720LPL

Impact sockets for wheel nuts, with polymeric material insets, long series

mm	Ø mm	L mm	g	kg
17	24,3	150	390	007200717
19	26,2	150	400	007200719
21	28,5	150	415	007200721



12"



720LPL/C3

Set of 3 impact sockets for wheel nuts, long series, with polymeric material insets, in plastic case

- Do not damage new models of alloy rims
- Sizes: 17 - 19 - 21 mm
- Long version, 150 mm
- Supplied with 3 spare insets



12"



270x185x60 mm

17-19-21 mm 1,8 kg 007200750

728LQ

Impact sockets, long series

mm	L mm	Ø mm	Ø1 mm	g	kg
19	90	35	43,5	210	007280619
21	90	42	43,5	220	007280621



3/4"

1/2"

720T



Impact torsion bars for motor vehicle wheel nuts, with 1/2" female and male square drive

Nm	■	g	kg
90	1/2"	190	007200760
100	1/2"	200	007200762
110	1/2"	210	007200764
120	1/2"	230	007200766

1/2"

720T/B4



Set of 4 impact torsion bars for wheel nuts, in wallet

- Can be used with several impact socket sizes, 1/2" square
- Maximum torque values:
 - 90 Nm
 - 100 Nm
 - 110 Nm
 - 120 Nm

g	kg
880	007200780

965

Pry bars with flat curved ends



L mm	A mm	L1 mm	g	kg
300	16	185	333	009650013
450	20	312	621	009650014
600	20	462	776	009650016

1/2"

969/C5

Set of 5 hub nut locking sockets in plastic case



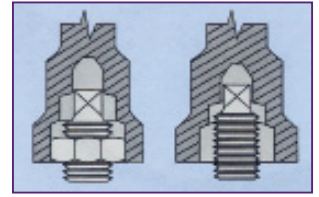
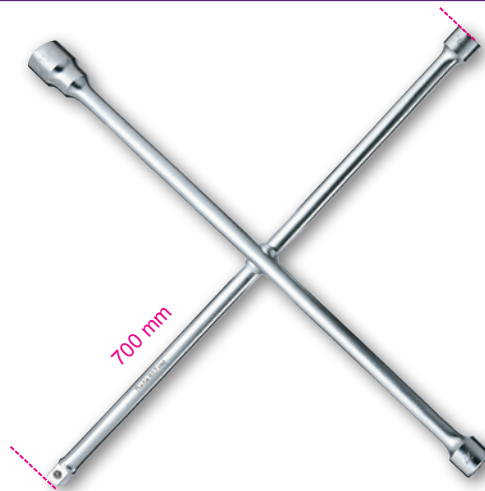
- Contents:
- 1 hexagon socket item 969A, 35 mm - 4
 - bi-hex sockets item 969B, 30-32-34-36 mm

kg	kg
1,5	009690200

982

Four-way hexagon wheel nut wrench

UNI/ISO 6788 DIN 3119



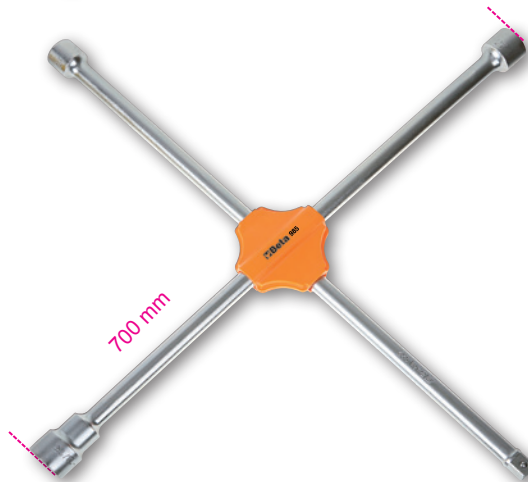
24x27x32x3/4 mm	4	009820001

985

Four-wheel hexagon wheel nut wrench for trucks

- Central shell made of plastic material

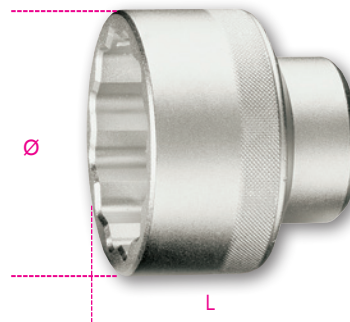
UNI/ISO 6788 DIN 3119



24x27x32x3/4 mm	4,5	009850001

970B

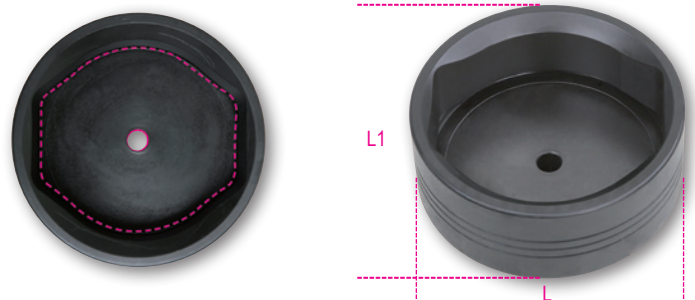
Socket for locking Fiat Daily hub nuts



65	88	75	1,5	009700010

9700T

Impact sockets for locking BPW hub nuts



L mm	L1 mm	□ - ∅		
65	61	3/4	750	009700165
80	73	3/4	1300	009700180
96	90	3/4	2000	009700196
111	104	41 mm	2700	009700211



970C

Octagonal impact sockets for locking hub nuts



mm	□ - ○	kg	
80	41 mm	1,9	009700808
95	3/4	2,4	009700815
100	3/4	2,7	009700820
109	41 mm	2,5	009700829
115	3/4	2,7	009700835
120	41 mm	2,9	009700840

3/4"

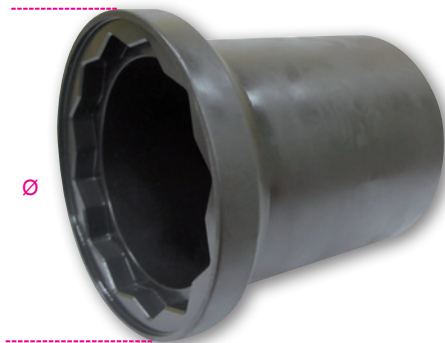


970EA/98

Impact sockets for axle nuts

- Allows axle nuts to be safely removed
- Recommended for applications on Iveco Euro cargo etc.

mm	mm	Ø mm	kg	
98	36	122	1	009700398



970EB/110

Impact sockets for axle nuts

- Allows axle nuts to be safely removed
- Recommended for applications on Iveco Eurotech-Cursor etc.

mm	mm	Ø mm	kg	
110	36	133	1	009700410



970EB/95

Impact sockets for axle nuts

- Allows axle nuts to be safely removed with guide collar
- Recommended for applications on Mercedes Benz trailers.

mm	mm	Ø mm	kg	
95	36	126	1	009700595

970Q

Impact sockets for rectangular nuts

- Allows self-locking rectangular nuts to be screwed and unscrewed on axle opening

L mm	"	g	
56	3/4	600	009700756
60	3/4	600	009700760



3/4"



1557

Impact sockets for leaf springs

L mm	L1 mm	"	g	
37	28	3/4	440	015570137
46	34	3/4	700	015570146
56	34	3/4	840	015570156



3/4"

1557V

Impact sockets for Volvo leaf springs

mm	g	
27	200	015570299

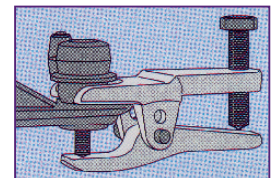
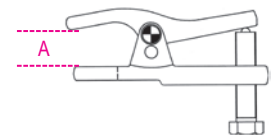
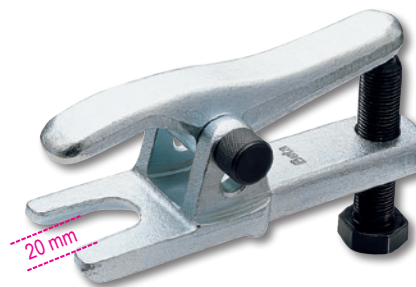
VOLVO



1560

Ball joint pullers, professional type

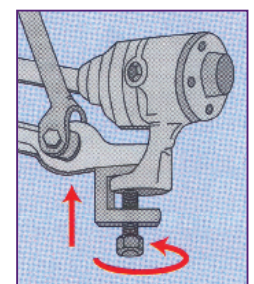
n°	A mm	kg	
1560/1	12÷50	1,2	015600001
1560/2	60÷85	1,5	015600002



1560A

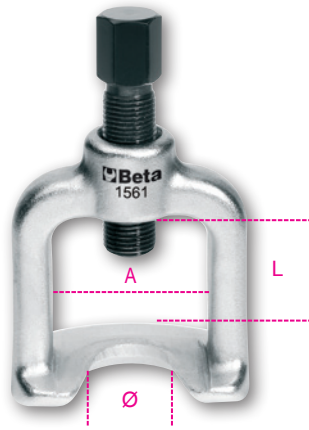
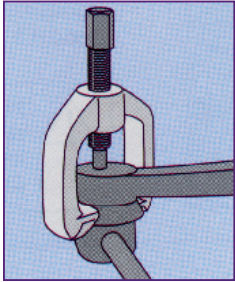
Ball joint puller

g	
790	015600601



1561

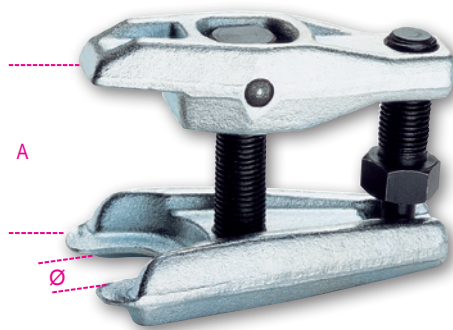
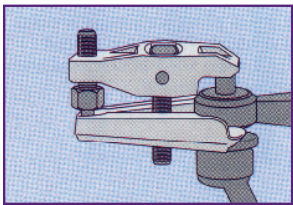
Ball joint pullers



n°	L mm	A mm	Ø mm	kg	
1561/1	39	36,6	18	390	015610001
1561/2	47	45,7	25	650	015610002
1561/3	63	62	30	900	015610003
1561/4	75	63	40	1500	015610004

1559

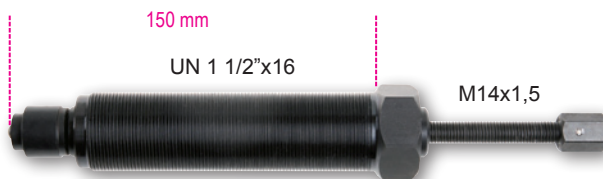
Ball joint puller, light series



n°	Ø mm	A max mm	kg	
1559/22	18÷22	50	0,80	015590001
1559/36	36	90	4,6	015590036
1559/45	45	115	6,6	015590045

1559V/8T

Hydraulic screw for ball joint pullers 1559/36 and 1559/45, for heavy vehicles



C=Charge

C N	kg	
80000	1,5	015590145

1562D

Ball joint puller for heavy vehicles

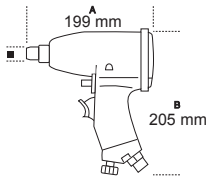


Ø mm	mm	kg	
39	26	2,4	015620039

PNEUMATIC TOOLS



1/2" CE



Free speed 7.000 rpm
Max. torque 610 Nm
Working pressure 6,2 Bar
Mean air consumption 160 l/min
Ø internal hose size 10 mm
Bolt capacity CI 8.8 M22●34 mm
Bolt capacity CI 12.9 M18●27 mm

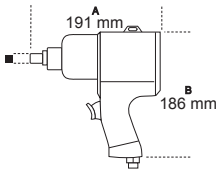
1927A

Reversible impact wrench

- Extremely powerful in its category
 - Reversible lever
- Three power adjustable screwing positions
 - Exhaust through handle
 - Balancing hook

1/2 2,7 019270002

1/2" CE



Free speed 7.000 rpm
Max. torque 1020 Nm
Working pressure 6,2 Bar
Mean air consumption 130 l/min
Internal hose size (Ø) 10 mm
Bolt capacity CI 8.8 M22●34 mm
Bolt capacity CI 12.9 M18●27 mm

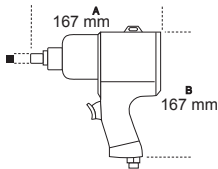
1927CD

Reversible impact wrench, made from composite material

- Lightweight and well-balanced for enhanced ease of use
 - High torque
 - Reversible lever
- Three power adjustable screwing positions
 - Exhaust through handle
 - Silenced

1/2 1,9 019270007

1/2" CE



Free speed 12.000 rpm
Max. torque 434 Nm
Working pressure 6,2 Bar
Mean air consumption 79 l/min
Internal hose size (Ø) 10 mm
Bolt capacity CI 8.8 M20●30 mm
Bolt capacity CI 12.9 M16●24 mm

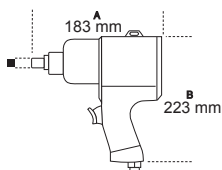
1927MCD

Reversible impact wrench, made from composite material

- Extremely lightweight and compact
 - Powerful and handy
 - Reversible lever
- Three power adjustable screwing positions
 - Exhaust through handle
 - Silenced

1/2 1,2 019270027

1/2" CE



Free speed 7.000 rpm
Max. torque 650 Nm
Working pressure 6,2 Bar
Mean air consumption 155 l/min
Internal hose size (Ø) 10 mm
Bolt capacity CI 8.8 M22●34 mm
Bolt capacity CI 12.9 M18●27 mm

1927DA

Reversible impact wrench

- Sturdy and powerful
 - Reversible lever
- Three power adjustable screwing positions
 - Exhaust through handle
 - Balancing hook

1/2 2,7 019270033



1927K4

Assortment of one reversible impact wrench and four impact sockets, long series

- Extremely powerful in its category
- Reversible lever
- Three power adjustable screwing positions
- Exhaust through handle
- Balancing hook

1/2 4,7 019270104

12" **CE**

720L 17-19-21-22 mm
360x320x85 mm

Free speed 7.000 giri/min
Max. torque 610 Nm
Working pressure 6,2 Bar
Mean air consumption 175 l/min
Internal hose size (Ø) 10 mm
Bolt capacity Cl 8.8 M22●34 mm
Bolt capacity Cl 12.9 M18●27 mm
Weight 2,7 Kg

1928CD

Reversible impact wrench, made from composite material

- High weight/power ratio
- Reversible lever
- Three power adjustable screwing positions
- Exhaust through handle
- Silenced

3/4 3,5 019280007

3/4" **CE**

Free speed 4.500 rpm
Max. torque 1800 Nm
Working pressure 6,2 Bar
Mean air consumption 215 l/min
Internal hose Ø 10 mm
Bolt capacity Cl 8.8 M27●41 mm
Bolt capacity Cl 12.9 M24●36 mm

1928DA

Reversible impact wrench

- Sturdy and compact; high torque
- Reversible lever
- Three power adjustable positions
- Exhaust through handle
- Slip-proof ergonomic handle

3/4 4,3 019280022

3/4" **CE**

Free speed 5.000 rpm
Max. torque 1695 Nm
Working pressure 6,2 Bar
Mean air consumption 240 l/min
Internal hose size (Ø) 10 mm
Bolt capacity Cl 8.8 M27●41 mm
Bolt capacity Cl 12.9 M24●36 mm

1928K4

Assortment of one reversible impact wrench and four impact sockets, long series

- Reversible lever
- Three power adjustable positions
- Exhaust through handle
- Slip-proof handle

3/4 9,3 019280104

728L 27-30-32-36 mm

3/4" **CE**

410x330x106 mm

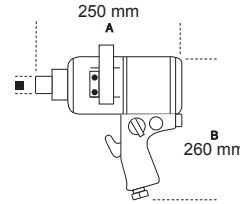
Free speed 4.000 rpm
Max. torque 1493 Nm
Working pressure 6,2 Bar
Mean air consumption 260 l/min
Internal hose size (Ø) 10 mm
Bolt capacity Cl 8.8 M27●41 mm
Bolt capacity Cl 12.9 M24●36 mm
Weight 5,2 Kg

1" CE



Free speed 4.000 rpm
Max. torque 2445 Nm
Working pressure 6,2 Bar
Mean air consumption 320 l/min
Internal hose Ø 13 mm
Bolt capacity CI 8.8 M36●55 mm
Bolt capacity CI 12.9 M30●46 mm

■ kg 1 7,1 019300022



1930CD

Reversible impact wrench, made from composite material

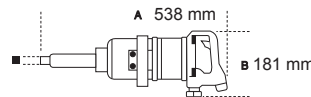
- Extremely lightweight and compact
 - Auxiliary handle
 - Reversible lever
- Three power adjustable screwing positions
- Exhaust through handle

1" CE



Free speed 4.000 rpm
Max. torque 2445 Nm
Working pressure 6,2 Bar
Mean air consumption 320 l/min
Internal hose Ø 13 mm
Bolt capacity CI 8.8 M36●55 mm
Bolt capacity CI 12.9 M30●46 mm

■ kg 1 8,7 019300027



1930NCD

Reversible impact wrench, made from composite material

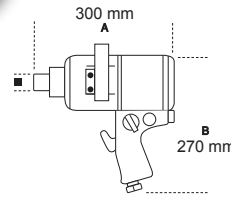
- One of the most lightweight in its category
 - 7" long anvil
 - Auxiliary handle
 - Reversible lever
- Three power adjustable screwing positions
- Lower exhaust

1" CE



Free speed 3500 rpm
Max. torque 2445 Nm
Working pressure 6,2 Bar
Mean air consumption 350 l/min
Ø internal hose size 13 mm
Bolt capacity CI 8.8 M36●55 mm
Bolt capacity CI 12.9 M30●46 mm

■ kg 1 9,6 019300032



1930PA

Reversible impact wrench

- Extremely lightweight and compact
 - Auxiliary handle
 - Reversible lever
- Three power adjustable positions
- Exhaust through handle

1" CE



Free speed 4.000 rpm
Max. torque 2445 Nm
Working pressure 6,2 Bar
Mean air consumption 460 l/min
Ø internal hose size 13 mm
Bolt capacity CI 8.8 M36●55 mm
Bolt capacity CI 12.9 M30●46 mm

■ kg 1 10,6 019300037



1930LA

Reversible impact wrench

- 8" long anvil
- Auxiliary handle
- Reversible lever
- Three power adjustable screwing positions
- Lower exhaust



LIFTING SLINGS AND RATCHET TIE DOWNS

LIFTING SLINGS AND RATCHET TIE DOWNS

CE



Ø mm	WLL mm	WLL kg	WLL g	Part No.
M6	1	75	20	080400406
M8	1,25	140	60	080400408
M10	1,5	230	110	080400410
M12	1,75	340	180	080400412
M14	2	480	190	080400414
M16	2	700	280	080400416
M18	2,5	930	290	080400418
M20	2,5	1200	450	080400420
M22	2,5	1450	465	080400422
M24	3	1800	848	080400424
M27	3	2400	1000	080400427
M30	3,5	3200	1600	080400430
M36	4	4600	2600	080400436
M36F	3	4600	2600	080400437
M42	4,5	6300	4000	080400442
M42F	3	6300	4000	080400443
M48	5	8600	6300	080400448
M48F	3	8600	6300	080400449
M56	5,5	11500	8800	080400456
M56F	4	11500	8800	080400457
M64	6	16000	12400	080400464
M64F	4	16000	12400	080400465

8040EZ

Lifting eye bolts,
DIN 580:1972
galvanized

CE

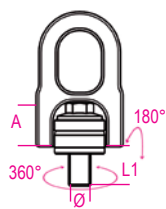


Ø mm	WLL mm	WLL kg	WLL g	Part No.
M6	1	75	17	080420406
M8	1,25	140	50	080420408
M10	1,5	230	90	080420410
M12	1,75	340	160	080420412
M14	2	480	155	080420414
M16	2	700	240	080420416
M18	2,5	930	235	080420418
M20	2,5	1200	360	080420420
M22	2,5	1450	355	080420422
M24	3	1800	720	080420424
M27	3	2400	845	080420427
M30	3,5	3200	1300	080420430
M36	4	4600	2000	080420436
M36F	3	4600	2000	080420437
M42	4,5	6300	3100	080420442
M42F	3	6300	3100	080400443
M48	5	8600	5000	080400448
M48F	3	8600	5000	080400449

8042EZ

Lifting eye nuts,
DIN 582:1971
galvanized

CE



Working load limit WLL (t)		Thred						
Type of connection	Angle A°	M8	M10	M12	M16	M20	M24	M30
[Diagram]	0°	0,3	0,6	1	1,6	2,5	4	6,3
	90°	0,3	0,6	1	1,6	2,5	4	6,3
[Diagram]	0°	0,6	1,2	2	3,2	5	8	12,6
	90°	0,6	1,2	2	3,2	5	8	12,6
[Diagram]	0°	0,4	0,8	1,4	2,2	3,5	5,6	8,8
	45°	0,3	0,6	1	1,6	2,5	4	6,3
	60°	0,3	0,6	1	1,6	2,5	4	6,3
	90°	0,3	0,6	1	1,6	2,5	4	6,3
[Diagram]	0°	0,6	1,3	2,1	3,4	5,3	8,4	13,2
	45°	0,3	0,6	1	1,6	2,3	4	6,3
	60°	0,3	0,6	1	1,6	2,3	4	6,3
	90°	0,3	0,6	1	1,6	2,3	4	6,3

8049

Adjustable lifting eyebolts,
double swivel ring,
high-tensile alloy steel

Ø mm	A mm	L1 mm	WLL kg	WLL g	Part No.
M8	31,5	14	300	310	080490008
M10	31,5	17	600	320	080490010
M12	31,5	21	1000	330	080490012
M16	45	27	1600	1000	080490016
M20	45	30	2500	1000	080490020
M24	60,5	36	4000	3000	080490024
M30	60,5	45	6300	3100	080490030

WLL kg	C mm	L mm	WLL g	Part No.
1000	21	105	750	080690010
2000	25	130	1200	080690020
3000	25	133	1200	080690030
4000	38	177	2700	080690040
5000	40	185	3000	080690050
6000	40	198	3500	080690060
8000	45	250	7100	080690080



8069

Alloy steel weld-on
"C" hooks

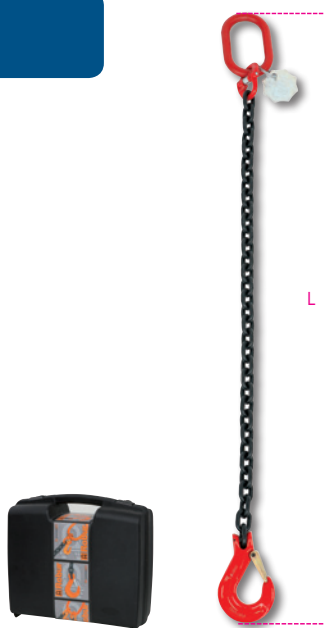
LIFTING SLINGS AND RATCHET TIE DOWNS

8091

Sling chains,
1 leg in plastic case

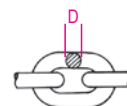
UNI EN 818-4

* Wooden packing suited to weight



D mm	L m	WLL t	kg	
6	1	1,12	1,3	080910061
6	2	1,12	2,1	080910062
6	3	1,12	2,9	080910063
6	4	1,12	3,7	080910064
7	1	1,5	2,0	080910071
7	2	1,5	3,1	080910072
7	3	1,5	4,2	080910073
7	4	1,5	5,3	080910074
8	1	2	2,5	080910081
8	2	2	4,0	080910082
8	3	2	5,5	080910083
8	4	2	7,0	080910084
10	1	3,15	3,9	080910101
10	2	3,15	6,2	080910102
10	3	3,15	8,5	080910103
10	4	3,15	10,8	080910104
13	1	5,3	7,2	080910131
13	2	5,3	11,0	080910132
13	3	5,3	14,8	080910133
13	4	5,3	18,6	080910134
16	1	8	11,0	080910161
16	2	8	16,8	080910162
16	3	8	27,6	080910163
16*	4	8	24,8	080910164

CE

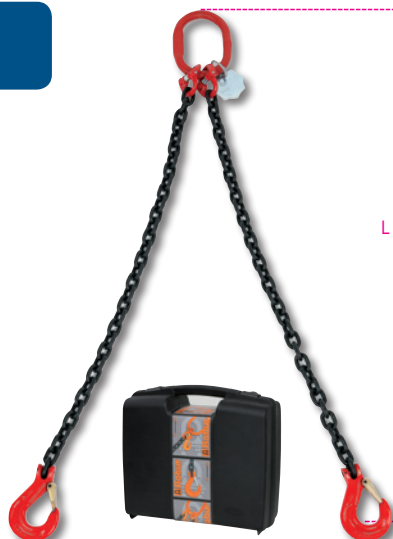


8092

Sling chains,
2 legs in plastic case

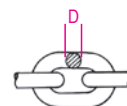
UNI EN 818-4

D mm	L m	WLL t	kg	
6	1	1,6	2,4	080920061
6	2	1,6	4,0	080920062
6	3	1,6	5,6	080920063
6	4	1,6	7,2	080920064
7	1	2,12	4,1	080920071
7	2	2,12	6,3	080920072
7	3	2,12	8,5	080920073
7	4	2,12	10,7	080920074



D mm	L m	WLL t	kg	
8	1	2,8	4,8	080920081
8	2	2,8	7,8	080920082
8	3	2,8	10,8	080920083
8	4	2,8	13,8	080920084
10	1	4,25	7,7	080920101
10	2	4,25	12,4	080920102
10	3	4,25	17,0	080920103
10	4	4,25	21,6	080920104
13	1	7,5	13,5	080920131
13	2	7,5	21,0	080920132
13*	3	7,5	28,7	080920133
13*	4	7,5	36,3	080920134
16	1	11,2	21,5	080920161
16*	2	11,2	33,1	080920162
16*	3	11,2	44,7	080920163
16*	4	11,2	56,3	080920164

CE



* Wooden packing suited to weight

8094

Sling chains,
4 legs in plastic case

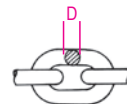
UNI EN 818-4

* Wooden packing suited to weight




D mm	L m	WLL t	kg	
6	1	2,36	5,3	080940061
6	2	2,36	8,6	080940062
6	3	2,36	11,9	080940063
6	4	2,36	15,2	080940064
7	1	3,15	7,8	080940071
7	2	3,15	12,2	080940072
7	3	3,15	16,6	080940073
7	4	3,15	21,0	080940074
8	1	4,25	10,0	080940081
8	2	4,25	16,0	080940082
8*	3	4,25	22,0	080940083
8*	4	4,25	28,0	080940084
10	1	6,7	15,8	080940101
10*	2	6,7	25,0	080940102
10*	3	6,7	34,3	080940103
10*	4	6,7	42,8	080940104
13*	1	11,2	28,0	080940131
13*	2	11,2	43,6	080940132
13*	3	11,2	60,0	080940133
13*	4	11,2	75,0	080940134
16*	1	17	45,0	080940161
16*	2	17	68,1	080940162
16*	3	17	91,2	080940163
16*	4	17	119,3	080940164

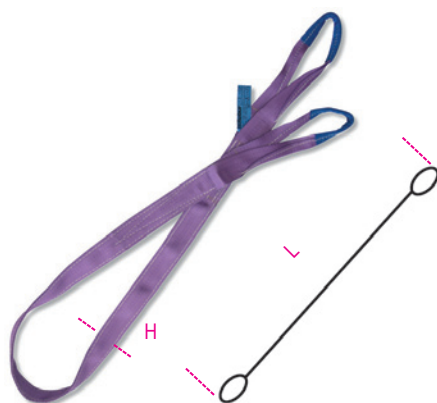
CE



LIFTING SLINGS AND RATCHET TIE DOWNS

CE

L m	H mm	WLL t	W g	
1	30	1	200	081500010
2	30	1	500	081500020
3	30	1	600	081500030
4	30	1	841	081500040
5	30	1	1100	081500050
6	30	1	1200	081500060




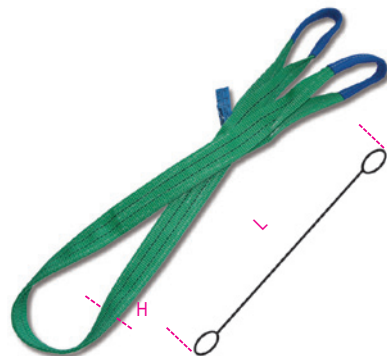
8150

Web slings, purple 1t high-tenacity polyester (PES) belt

UNI EN 1492-1

CE

L m	H mm	WLL t	W g	
1	60	2	450	081530010
2	60	2	813	081530020
3	60	2	1100	081530030
4	60	2	1500	081530040
5	60	2	1800	081530050
6	60	2	2200	081530060




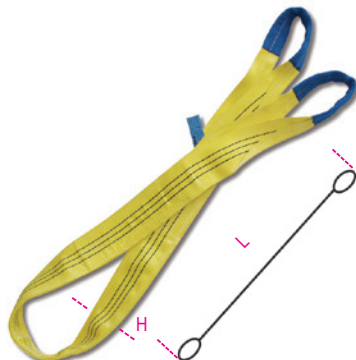
8153

Web slings, green 2t high-tenacity polyester (PES) belt

UNI EN 1492-1

CE

L m	H mm	WLL t	W kg	
2	90	3	1,2	081560020
3	90	3	1,7	081560030
4	90	3	2,2	081560040
5	90	3	2,7	081560050
6	90	3	3,3	081560060




8156

Web slings, yellow 3t high-tenacity polyester (PES) belt

UNI EN 1492-1

CE

L m	H mm	WLL t	W kg	
2	120	4	1,6	081570020
3	120	4	2,3	081570030
4	120	4	3,0	081570040
5	120	4	3,8	081570050
6	120	4	4,4	081570060
8	120	4	5,9	081570080




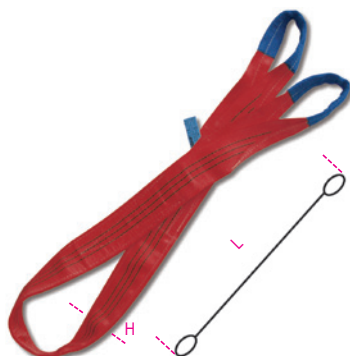
8157

Web slings, grey 4t high-tenacity polyester (PES) belt

UNI EN 1492-1

CE

L m	H mm	WLL t	W kg	
2	150	5	2,3	081580020
3	150	5	3,2	081580030
4	150	5	4,2	081580040
5	150	5	5,2	081580050
6	150	5	6,0	081580060
8	150	5	7,8	081580080



8158

Web slings, red 5t high-tenacity polyester (PES) belt

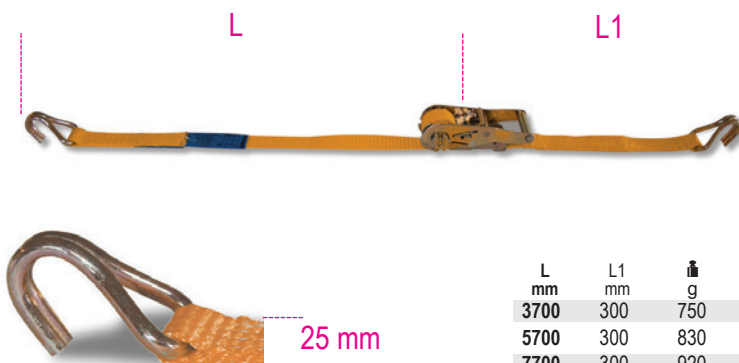
UNI EN 1492-1

LIFTING SLINGS AND RATCHET TIE DOWNS

8180

Ratchet tie down with
single hook, LC 750kg
high-tenacity polyester (PES) belt

EN 12195-2
LC = 750 kg

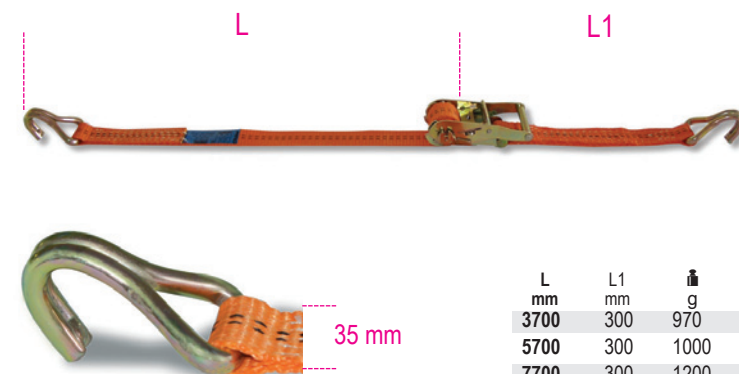


L mm	L1 mm	g	kg
3700	300	750	081800004
5700	300	830	081800006
7700	300	920	081800008

8181

Ratchet tie down with
single hook, LC 1000kg
high-tenacity polyester (PES) belt

EN 12195-2
LC = 1000 kg

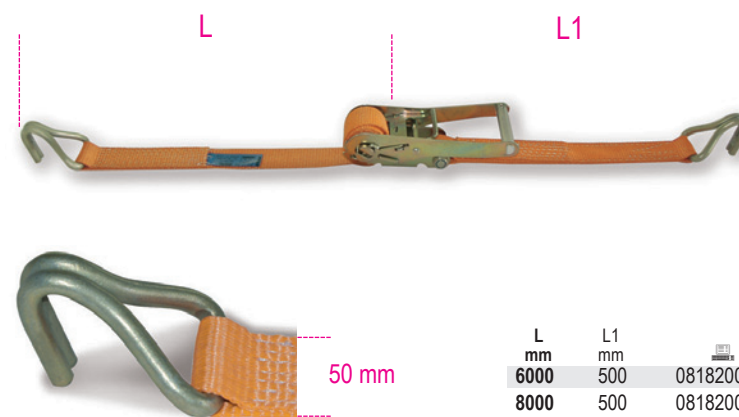


L mm	L1 mm	g	kg
3700	300	970	081810004
5700	300	1000	081810006
7700	300	1200	081810008

8182

Ratchet tie down with
single hook, LC 2000kg
high-tenacity polyester (PES) belt

EN 12195-2
LC = 2000 kg

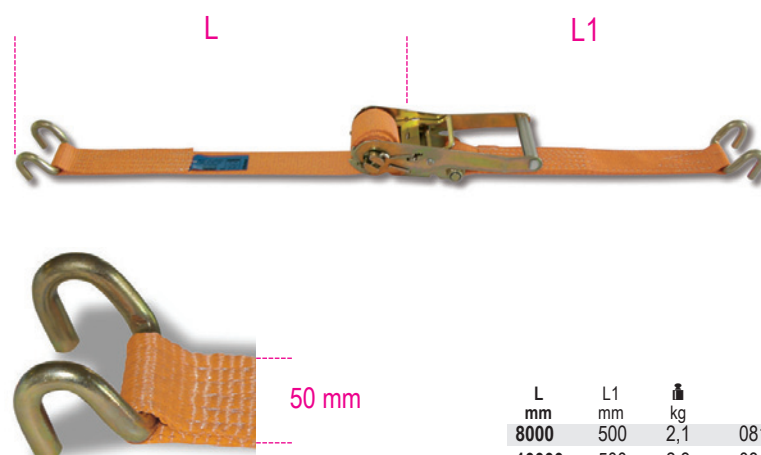


L mm	L1 mm	kg	kg
6000	500	081820065	2,2
8000	500	081820085	2,3
10000	500	081820105	2,5

8182S

Ratchet tie down with
double hook, LC 2000kg
high-tenacity polyester (PES) belt

EN 12195-2
LC = 2000 kg



L mm	L1 mm	kg	kg
8000	500	2,1	081820285
10000	500	2,3	081820305

LIFTING SLINGS AND RATCHET TIE DOWNS

← → LC = 1500 kg

← → LC = 750 kg



8185

Ring ratchet tie down,
LC 1500kg
high-tenacity polyester
(PES) belt

EN 12195-2

L mm	g	
5000	560	081850005
8000	680	081850008

← → LC = 2000 kg

← → LC = 1000 kg



8186

Ring ratchet tie down,
LC 2000kg
high-tenacity polyester
(PES) belt

EN 12195-2

L mm	g	
5000	740	081860005
8000	904	081860008

← → LC = 4000 kg

← → LC = 2000 kg



8187

Ring ratchet tie down,
LC 4000kg
high-tenacity polyester
(PES) belt

EN 12195-2

L mm	kg	
5000	1,5	081870005
8000	1,8	081870008

SAFETY FOOTWEAR



AND WORKWEAR

CE EN 20345 S3 SRC



7200BKK

Full-grain leather shoe, waterproof

- Composite toe cap
- Composite fibre penetration proof insole

EU	UK	US
35	2,5	072000235
36	3,5	072000236
37	4,5	072000237
38	5	072000238
39	6	072000239
40	6,5	072000240
41	7	072000241
42	8	072000242
43	9	072000243
44	10	072000244
45	10,5	072000245
46	11	072000246
47	12	072000247
48	13	072000248

CE EN 20345 S3 SRC



7201BKK

Full-grain leather ankle shoe, waterproof

- Composite toe cap
- Composite fibre penetration proof insole

EU	UK	US
35	2,5	072010435
36	3,5	072010436
37	4,5	072010437
38	5	072010438
39	6	072010439
40	6,5	072010440
41	7	072010441
42	8	072010442
43	9	072010443
44	10	072010444
45	10,5	072010445
46	11	072010446
47	12	072010447
48	13	072010448

CE EN 20345 S1P SRC



7210BKK

Soft suede shoe, perforated

- Composite toe cap
- Composite fibre penetration proof insole

EU	UK	US
35	2,5	072100335
36	3,5	072100336
37	4,5	072100337
38	5	072100338
39	6	072100339
40	6,5	072100340
41	7	072100341
42	8	072100342
43	9	072100343
44	10	072100344
45	10,5	072100345
46	11	072100346
47	12	072100347
48	13	072100348



7241B

CE EN 20345 S1P SRC

Leather shoe, with penetration proof insole

- Steel toe cap
- Elastic steel penetration proof insole



EU	UK	
35	2,5	072410235
36	3,5	072410236
37	4,5	072410237
38	5	072410238
39	6	072410239
40	6,5	072410240
41	7	072410241
42	8	072410242
43	9	072410243
44	10	072410244
45	10,5	072410245
46	11	072410246
47	12	072410247
48	13	072410248



7243B

CE EN 20345 S1P SRC

Leather ankle shoe, with penetration proof insole

- Steel toe cap
- Elastic steel penetration proof insole



EU	UK	
35	2,5	072430235
36	3,5	072430236
37	4,5	072430237
38	5	072430238
39	6	072430239
40	6,5	072430240
41	7	072430241
42	8	072430242
43	9	072430243
44	10	072430244
45	10,5	072430245
46	11	072430246
47	12	072430247
48	13	072430248



7246B

CE EN 20345 S1P SRC

Suede shoe, perforated

- Steel toe cap
- Elastic steel penetration proof insole



EU	UK	
35	2,5	072460235
36	3,5	072460236
37	4,5	072460237
38	5	072460238
39	6	072460239
40	6,5	072460240
41	7	072460241
42	8	072460242
43	9	072460243
44	10	072460244
45	10,5	072460245
46	11	072460246
47	12	072460247
48	13	072460248



7825



Work overalls, multipocket style

- Made of twisted T/C canvas, 65% polyester, 35% cotton, 280 g/m2
- Cordura® knee and elbow reinforcements
 - Reflex 3M Scotchlite™ insets
- Front closure with YKK® double tab zip, covered with a strap flap
 - Elastic waistband
 - Cuffs with PVC strap adjusters
- Two large chest pockets with strap closure
- Two deep front pockets with small pockets
- Left-hand pocket with snap button, phone pocket with strap closure and pocket with zip closure
 - Ruler pocket and hammer loop
- Knee pad pockets with pullers and strap closure

3M Scotchlite
Reflective Material

CORDURA
FABRIC

YKK
Little Parts. Big Difference.



Size	Code
XS	078250000
S	078250001
M	078250002
L	078250003
XL	078250004
XXL	078250005
XXXL	078250006
XXXXL	078250007

Beta EASY

7905E



Work overalls in T/C canvas, 260 g/m2, Oxford insets, grey

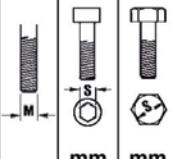


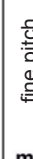
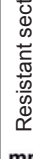
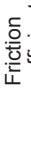
- Made of T/C canvas, 65% polyester, 35% cotton, 260 g/m2
 - Abrasion-proof knee pad and shoulder insets made of "Oxford" polyester/PU, 220 g/m2
 - Adjustable strap cuffs
- Front zip closure, double tab and two-coloured ribbon puller, with strap closure flap
 - Elastic waistband
 - Back shoulder panel lined with polyester mesh
- Expanding right-side chest pocket with two-coloured ribbon puller and strap flap closure
 - Pen pocket
- Expanding left-side chest pocket with flap and strap closure, "Oxford" inset for small tools and two-coloured ribbon puller; vertical pocket with zip closure and two-coloured ribbon puller
 - Two deep expanding front pockets, small tool pocket with strap closure
 - Large, expanding left-side pocket with strap closure and two-coloured ribbon puller
- Large, expanding rear pockets with "Oxford" reinforcement, strap flap closure and two-coloured ribbon puller
 - Hammer loop and ruler pocket

Size	Code
XS	079050900
S	079050901
M	079050902
L	079050903
XL	079050904
XXL	079050905
XXXL	079050906
XXXXL	079050907

TENSILE LOAD AND

Bolt	mm	mm	Coarse pitch mm	Resistant section mm ²	Friction coefficient	Bolt class, coarse pitch											
						4.8		5.8		6.8		8.8		10.9		12.9	
						Tensile load N	Tightening torque Nm	Tensile load N	Tightening torque Nm	Tensile load N	Tightening torque Nm	Tensile load N	Tightening torque Nm	Tensile load N	Tightening torque Nm	Tensile load N	Tightening torque Nm
M2	1,5	4	0,40	2,07	0,10 0,14	488,0 449,5	0,15 0,19	610,6 561,9	0,19 0,23	732,7 674,3	0,23 0,28	976,9 899,0	0,31 0,37	1373,8 1264,3	0,43 0,52	1648,6 1517,1	0,52 0,63
M2,5	2	5	0,45	3,39	0,10 0,14	813,5 749,9	0,31 0,38	1016,9 937,4	0,39 0,48	1220,2 1124,9	0,47 0,58	1627,0 1499,8	0,63 0,77	2288,0 2109,1	0,88 1,08	2745,6 2531,0	1,06 1,30
M3	2,5	5,5	0,50	5,03	0,10 0,14	1219,9 1125,9	0,54 0,60	1524,9 1407,4	0,68 0,83	1829,9 1688,9	0,82 1,00	2439,9 2251,9	1,09 1,34	3431,0 3166,7	1,53 1,88	4117,2 3800,0	1,84 2,26
M3,5	-	6	0,60	6,78	0,10 0,14	1638,2 1511,3	0,84 1,03	2047,8 1889,2	1,05 1,28	2457,3 2267,0	1,26 1,54	3276,4 3022,6	1,68 2,05	4607,5 4250,6	2,36 2,89	5528,9 5100,7	2,84 3,47
M4	3	7	0,70	8,78	0,10 0,14	2115,4 1950,9	1,25 1,53	2644,3 2438,7	1,56 1,91	3173,1 2926,4	1,88 2,29	4230,8 3901,9	2,50 3,06	5949,6 5487,0	3,52 4,30	7139,5 6584,4	4,22 5,16
M5	4	8	0,80	14,2	0,10 0,14	3461,6 3196,8	2,46 3,02	4327,0 3967,0	3,08 3,78	5192,3 4795,2	3,70 4,53	6923,1 6393,7	4,93 6,04	9735,7 8991,1	6,93 8,50	11682,8 10789,3	8,32 10,20
M6	5	10	1	20,1	0,10 0,14	4874,7 4499,1	4,24 5,19	6093,4 5623,9	5,30 6,48	7312,1 6748,6	6,35 7,78	9749,4 8998,2	8,47 10,37	13710,1 12653,7	11,92 14,59	16452,2 15184,4	14,30 17,51
M7	-	11	1	28,9	0,10 0,14	7134,5 6599,6	6,97 8,60	8918,2 8249,5	8,71 10,76	10701,8 9899,4	10,45 12,90	14269,1 13199,2	13,94 17,21	20065,9 18561,4	19,60 24,20	24079,1 22273,6	23,52 29,04
M8	6	13	1,25	36,6	0,10 0,14	8947,1 8265,6	10,20 12,54	11183,9 10332,0	12,75 15,67	13420,7 12398,4	15,30 18,80	17894,2 16531,2	20,41 25,07	25163,7 23247,0	28,70 35,26	30196,5 27896,5	34,44 42,31
M10	8	16	1,50	58	0,10 0,14	14244,5 13167,4	20,11 24,76	17805,6 16459,2	25,14 30,95	21366,8 19751,1	30,16 37,14	28489,0 26334,8	40,22 49,52	40062,7 37033,3	56,56 69,64	48075,3 44439,9	67,87 83,56
M12	10	18	1,75	84,3	0,10 0,14	20766,6 19204,0	34,43 42,42	25958,3 24005,0	43,03 53,03	31149,9 28806,0	51,64 63,63	41533,2 38408,0	68,86 84,84	58406,1 54011,2	96,83 119,31	70087,3 64813,5	116,20 143,17
M14	12	21	2	115	0,10 0,14	28389,9 26261,2	54,77 67,56	35487,4 32826,5	68,46 84,45	42584,9 39391,8	82,15 101,34	56779,8 52522,4	109,53 135,13	79846,6 73859,6	154,03 190,02	95816,0 88631,5	184,84 228,03
M16	14	24	2	157	0,10 0,14	39242,1 36364,2	85,14 105,80	49052,7 45455,3	106,43 132,26	58863,2 54546,3	127,72 158,71	78484,3 72728,5	170,29 211,61	110368,5 102274,4	239,47 297,58	132442,2 122729,3	287,36 357,09
M18	14	27	2,50	192	0,10 0,14	47533,0 43986,1	117,48 145,16	59416,3 54982,7	146,85 181,45	71299,6 65979,2	176,22 217,74	95066,1 87972,3	234,96 290,32	133686,7 123711,0	330,41 402,26	160424,1 148453,2	396,49 489,92
M20	17	30	2,50	245	0,10 0,14	61238,0 56747,1	166,08 206,39	76547,5 70373,9	207,61 257,98	91857,0 85120,6	249,13 309,58	122476,0 113494,2	332,17 412,78	172231,9 156601,2	467,11 580,47	206678,2 191521,5	560,54 696,56
M22	17	34	2,50	303	0,10 0,14	76305,2 70791,9	227,22 283,79	95381,5 88489,8	284,02 354,74	114457,8 106187,8	340,82 425,69	152610,4 141583,7	454,43 567,58	214608,3 199102,1	639,05 798,16	257530,0 238922,5	766,85 957,80
M24	19	36	3	353	0,10 0,14	88232,4 81761,8	287,16 356,84	110290,5 102202,2	358,94 446,05	132348,6 122642,7	430,73 535,26	176464,9 16,523,6	574,31 713,68	248153,7 229955,1	807,63 1003,61	297784,4 275946,1	969,15 1204,33
M27	19	41	3	459	0,10 0,14	115778,8 107441,5	420,04 525,08	144723,5 134301,9	525,05 656,35	173668,2 161162,2	630,06 787,62	231557,6 214883,0	840,08 1050,16	325627,9 302179,2	1181,36 1476,79	390753,4 362615,0	1417,63 1772,15
M30	22	46	3,50	561	0,10 0,14	140999,5 130770,6	572,83 714,49	176249,4 163463,3	716,03 893,11	211499,3 196155,9	859,24 1071,73	281999,0 261541,2	1145,65 1428,97	396561,1 367792,3	1611,08 2009,49	475873,4 441350,8	1933,29 2411,39
M33	24	50	3,50	694	0,10 0,14	175618,1 163058,0	774,65 970,43	219522,6 203822,5	968,32 1213,03	263427,1 244587,0	1161,98 1455,64	351236,2 326115,9	1549,31 1940,86	493925,8 458600,5	2178,72 2729,33	592711,0 550320,6	2614,46 3275,19
M36	27	55	4	817	0,10 0,14	206081,7 191241,8	998,60 1248,41	257602,2 239052,3	1248,25 1560,51	309122,6 286862,7	1497,89 1872,61	412163,5 382483,6	1997,19 2496,81	579604,8 537867,6	2808,55 3511,14	695525,8 645441,1	3370,26 4213,37
M39	-	60	4	976	0,10 0,14	247520,0 229902,6	1291,81 1620,96	309400,0 287378,3	1614,77 2026,20	371279,9 344853,9	1937,72 2431,44	495039,9 459805,2	2583,63 3241,92	696149,8 646601,0	3633,23 4558,96	835379,8 775921,3	4359,88 5470,75
M42	32	65	4,50	1120	0,10 0,14	283225,0 262939,0	1601,25 2005,46	354031,2 328673,8	2001,57 2506,83	424837,4 394408,5	2401,88 3008,20	566449,9 525878,0	3202,51 4010,93	796570,1 739516,0	4503,53 5640,37	955884,2 887419,2	5404,23 6768,44
M45	-	70	4,50	1310	0,10 0,14	332751,5 309151,8	2005,51 2519,55	415939,4 386439,7	2506,89 3149,43	499127,3 463727,7	3008,26 3779,32	665503,0 618303,6	4011,02 5039,09	935863,6 869489,3	5640,50 7086,23	1123036,0 1043387,0	6768,60 8503,47
M48	36	75	5	1470	0,10 0,14	372429,3 345862,9	2406,51 3018,11	465536,6 432328,7	3008,14 3772,64	558644,0 518794,4	3609,77 4527,17	744858,6 691725,8	4813,03 6036,23	1047457,0 972739,4	6768,32 8488,45	1256949,0 1167287,0	8121,98 10186,14
M52	-	80	5	1760	0,10 0,14	448108,9 416499,0	3099,96 3900,52	560136,1 520623,8	3874,95 4875,65	672163,4 624748,5	4649,93 5850,78	896217,8 832998,0	6199,91 7801,04	1260306,0 1171404,0	8718,63 10970,21	1512368,0 1405684,0	10462,36 13164,25
M56	41	85	5,50	2030	0,10 0,14	516202,9 479683,4	3838,14 4824,40	645253,6 599604,2	4797,68 6030,50	774304,4 719525,1	5757,21 7236,60	1032406,0 959366,8	7676,29 9648,80	1451821,0 1349110,0	10794,78 13568,63	1742185,0 1618931,0	12953,73 16282,36
M60	-	90	5,50	2360	0,10 0,14	602498,5 560267,5	4754,64 5992,71	753123,1 700334,4	5943,30 7490,88	903747,8 840401,2	7131,96 8989,06	1204997,0 1120535,0	9509,28 11985,42	1694527,0 1575752,0	13372,43 16854,49	2033432,0 1890903,0	16046,91 16282,36
M64	46	95	6	2680	0,10 0,14	683339,5 635299,9	5746,71 7235,13	854174,4 794124,9	7182,71 9043,92	1025009,0 952949,8	8619,25 10852,70	1366679,0 1270600,0	11492,34 14470,27	1921892,0 1786781,0	16161,10 20348,82	2306271,0 2144137,0	19393,32 24418,58
M68	-	100	6	3060	0,10 0,14	782799,9 728201,8	6939,64 8758,24	978499,8 910252,2	8674,55 10947,80	1174200,0 1092303,0	10409,46 13137,36	1565600,0 1456404,0	13879,28 17516,48	2201625,0 2048068,0	19517,74 24632,55	2641950,0 2457681,0	23421,29 29559,06

TIGHTENING TORQUE

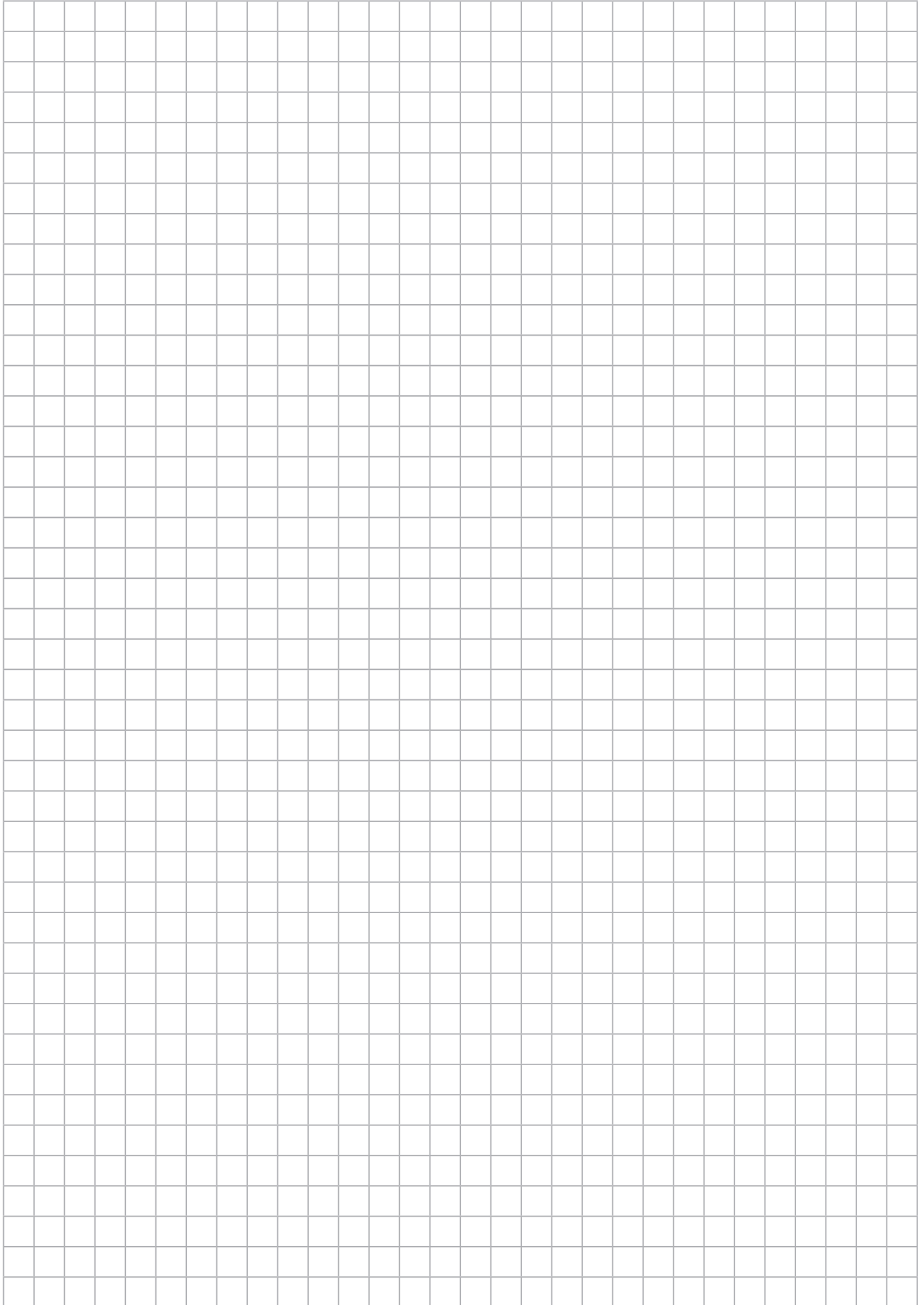
						Bolt class, fine pitch											
						4.8		5.8		6.8		8.8		10.9		12.9	
						Tensile load N	Tightening torque Nm	Tensile load N	Tightening torque Nm	Tensile load N	Tightening torque Nm	Tensile load N	Tightening torque Nm	Tensile load N	Tightening torque Nm	Tensile load N	Tightening torque Nm
M8	6	13	1	39,2	0,10 0,14	9798,1 9079,5	10,87 13,53	12247,6 11349,4	13,59 16,91	14697,1 13619,3	16,31 20,29	19596,1 18159,1	21,75 27,05	27557,1 25536,2	30,58 38,04	33068,5 30643,4	36,70 45,65
M10	8	16	1,25	61,2	0,10 0,14	15296,9 14175,0	21,13 26,27	19121,1 17718,8	26,41 32,84	22945,3 21262,6	31,69 39,41	30593,8 28350,1	42,25 52,55	43022,5 39867,3	59,42 73,89	51627,0 47840,8	71,30 88,67
M10	8	16	1	64,5	0,10 0,14	16383,6 15221,6	22,12 27,80	20479,5 19027,0	27,66 34,75	24575,4 22832,5	33,19 41,70	32767,2 30443,3	44,25 55,61	46078,8 42810,8	62,23 78,20	55294,6 51373,0	74,67 93,84
M12	10	18	1,50	88,1	0,10 0,14	22020,7 20405,8	35,83 44,53	27525,9 25507,2	44,79 55,66	33031,0 30608,7	53,75 66,79	44041,4 40811,6	71,67 89,06	61933,2 57391,3	100,78 125,24	74319,8 68869,5	120,94 150,29
M12	10	18	1,25	92,1	0,10 0,14	23333,7 21669,2	37,26 46,70	29167,1 27086,5	46,57 58,38	35000,6 32503,8	55,88 70,06	46667,4 43338,4	74,51 93,41	65626,1 60944,6	104,78 131,36	78751,3 73133,5	125,74 157,63
M14	12	21	1,50	125	0,10 0,14	31610,0 29345,9	59,04 73,92	39512,5 36682,4	73,80 92,40	47415,0 44018,9	88,57 110,89	63220,0 58691,9	118,09 147,85	88903,1 82535,4	166,06 207,91	106683,7 99042,5	199,27 249,49
M16	14	24	1,50	167	0,10 0,14	42581,3 39587,8	89,78 113,06	53226,6 49484,7	112,33 141,32	63871,9 59381,6	134,67 169,59	85162,5 79175,5	179,56 226,12	119759,8 111340,6	252,51 317,98	143711,8 133608,7	303,02 381,57
M18	14	27	2	204	0,10 0,14	51457,2 47751,7	124,03 155,02	64321,5 59689,6	155,03 193,78	77185,8 71627,5	186,04 232,53	102914,4 95503,3	248,06 310,05	144723,3 134301,6	348,83 436,00	173668,0 161161,9	418,59 523,20
M18	14	27	1,50	216	0,10 0,14	55415,1 51577,6	130,17 164,67	69268,9 64472,0	162,72 205,84	83122,7 77366,4	195,26 247,01	110830,3 103155,2	260,35 329,35	155855,1 145062,1	366,12 463,15	187026,1 174074,5	439,34 555,77
M20	17	30	2	258	0,10 0,14	65534,1 60886,2	173,72 218,17	81917,7 76107,8	217,16 272,71	98301,2 91329,3	260,59 327,26	131068,3 121772,4	347,45 436,34	184314,8 171242,5	488,60 613,61	221177,8 205491,0	586,32 736,33
M20	17	30	1,50	272	0,10 0,14	70114,7 65319,1	181,58 230,55	87643,3 81648,4	226,97 288,19	105172,0 97978,6	272,36 345,82	140229,3 130638,1	363,15 461,10	197197,5 183709,9	510,68 648,42	236637,0 220451,9	612,82 778,10
M22	17	34	2	318	0,10 0,14	81220,8 75533,9	236,88 298,75	101526,0 94417,4	296,10 373,43	121831,2 113300,9	355,32 448,12	162441,5 151067,8	473,76 597,49	228433,4 212439,1	666,23 840,22	274120,1 254927,0	799,48 1008,27
M22	17	34	1,50	333	0,10 0,14	86164,2 80331,8	246,02 313,41	107705,3 100414,7	307,53 391,76	129246,4 120497,7	369,04 470,11	172328,5 160663,6	492,05 626,82	242337,0 225933,2	691,94 881,46	290804,3 271119,8	830,33 1057,75
M24	19	36	2	384	0,10 0,14	98515,6 91693,3	308,56 390,33	123144,5 114616,6	385,70 487,92	147773,4 137539,9	462,84 585,50	197031,1 183386,5	617,12 780,67	277075,0 257887,3	867,83 1097,82	332490,0 309464,8	1041,40 1371,38
M24	-	36	1,50	401	0,10 0,14	104079,4 97096,0	319,62 408,12	130099,2 121370,1	399,52 510,15	156119,0 145644,0	479,43 612,18	208158,7 194192,1	639,23 816,24	292723,2 273082,6	898,92 1147,84	351267,9 327699,1	1078,71 1377,41
M27	19	41	2	496	0,10 0,14	127922,3 119185,0	448,43 569,67	159902,9 148981,3	560,54 712,09	191883,5 178777,5	672,65 854,51	255844,7 238370,1	896,87 1139,34	359781,6 335207,9	1261,22 1602,20	431737,9 402249,5	1513,46 1922,64
M30	22	46	2	621	0,10 0,14	160817,5 149957,0	623,80 795,14	201021,8 187446,3	779,75 993,93	241226,2 224935,5	935,70 1192,72	321635,0 299914,0	1247,60 1590,29	452299,2 421754,2	1754,43 2236,34	542759,0 506105,0	2105,32 2683,61
M33	24	50	2	761	0,10 0,14	197716,9 184490,1	835,81 1068,24	247146,1 230612,6	1044,76 1335,30	296575,4 276735,1	1253,72 1602,36	395433,8 368980,2	1671,62 2136,49	556078,8 518878,4	2350,72 3004,43	667294,5 622654,0	2820,87 3605,32
M36	27	55	3	865	0,10 0,14	221916,8 206548,9	1048,15 1326,13	277396,0 258186,2	1310,18 1657,66	332875,1 309823,4	1572,22 1989,19	443833,5 413097,9	2096,29 2652,26	624140,9 580918,9	2947,91 3729,74	748969,0 697102,7	3537,49 4475,68
M39	-	60	3	1030	0,10 0,14	265219,6 247027,0	1351,70 1715,15	331524,5 308783,8	1689,63 2143,94	397829,5 370540,5	2027,56 2572,72	530439,3 494054,1	2703,41 3430,30	745930,2 694763,5	3801,67 4823,86	895116,2 833716,1	4562,00 5788,63
M42	32	65	3	1210	0,10 0,14	312529,3 291268,7	1709,52 2174,59	390661,6 364085,9	2136,90 2718,24	468793,9 436903,1	2564,28 3261,89	625058,5 582537,4	3419,04 4349,18	878988,6 819193,3	4808,02 6116,04	1054786,0 983031,9	5769,62 7339,24
M45	-	70	3	1400	0,10 0,14	362551,7 338067,8	2118,52 2700,72	453189,7 422584,7	2648,14 3375,90	543827,6 507101,7	3177,77 4051,08	725103,5 676135,5	4237,03 5401,43	1019677,0 950815,6	5958,33 7595,77	1223612,0 1140979,0	7149,99 9114,92
M48	36	75	3	1600	0,10 0,14	415279,0 387415,3	2581,68 3297,46	519098,7 484269,2	3227,11 4121,83	622918,5 581123,0	3872,53 4946,20	830558,0 774830,6	5163,37 6594,93	1167972,0 1089606,0	7260,99 9274,12	1401567,0 1307527,0	8713,18 11128,94
M52	-	80	3	1900	0,10 0,14	494405,2 461482,7	3299,14 4222,62	618006,5 576853,3	4123,92 5278,28	741607,8 692224,0	4948,71 6333,94	988810,4 922965,3	6598,28 8445,25	1390515,5 1297920,0	9278,83 11876,13	1668618,0 1557504,0	11134,60 14251,36
M56	41	85	4	2140	0,10 0,14	552738,4 515137,2	4008,26 5097,95	690923,0 643921,5	5010,32 6372,43	829107,5 772058,7	6012,39 7646,92	1105477,0 1030274,0	8016,51 10195,89	1554577,0 1448823,0	11273,22 14337,98	1865492,0 1738588,0	13527,87 17205,57
M60	-	90	4	2480	0,10 0,14	642235,1 598863,8	4950,24 6309,01	802793,9 748579,8	6187,80 7886,27	963352,7 898295,7	7425,36 9463,52	1284470,0 1197728,0	9900,49 12618,02	1806286,0 1684304,0	13922,56 17744,10	2167544,0 2021165,0	16707,07 21292,92
M64	46	95	4	2850	0,10 0,14	739716,3 690084,3	6039,07 7710,76	924645,4 862605,3	7548,84 9638,45	1109574,0 1035126,0	9058,60 11566,14	1479433,0 1380169,0	12078,14 15421,52	2080452,0 1940862,0	16984,88 21686,51	2496543,0 2329034,0	20381,86 26023,81
M68	-	100	4	3240	0,10 0,14	842588,5 786380,1	7263,31 9288,98	1053236,0 982975,1	9079,14 11611,23	1263883,0 1179570,0	10894,97 13933,47	1685177,0 1572760,0	14526,62 18577,96	2369780,0 2211694,0	20428,06 26125,26	2843736,0 2654033,0	24513,68 31350,31

Inches = Millimetres

0"		1"		2"		3"		4"		5"		6"		7"		8"		Inches											
+	=	mm	+	=	mm	+	=	mm	+	=	mm	+	=	mm	+	=	mm	+	=	mm									
1/64		0,397	0		25,400	0		50,800	0		76,200	0		101,600	0		127,000	0		152,400	0		177,800	0		203,200	9		228,6
1/32		0,794	1/64		25,797	1/64		51,197	1/64		76,597	1/64		101,997	1/64		127,397	1/64		152,797	1/64		178,197	1/64		203,597	10		254,0
3/64		1,191	1/32		26,194	1/32		51,594	1/32		76,994	1/32		102,394	1/32		127,794	1/32		153,194	1/32		178,594	1/32		203,994	11		279,4
1/20		1,270	3/64		26,591	3/64		51,991	3/64		77,391	3/64		102,791	3/64		128,191	3/64		153,591	3/64		178,991	3/64		204,391	12		304,8
1/16		1,588	1/16		26,988	1/16		52,388	1/16		77,788	1/16		103,188	1/16		128,588	1/16		153,988	1/16		179,388	1/16		204,788	13		330,2
5/64		1,984	5/64		27,384	5/64		52,784	5/64		78,184	5/64		103,584	5/64		128,984	5/64		154,384	5/64		179,784	5/64		205,184	14		355,6
3/32		2,381	3/32		27,781	3/32		53,181	3/32		78,581	3/32		103,981	3/32		129,381	3/32		154,781	3/32		180,181	3/32		205,581	15		381,0
7/64		2,778	7/64		28,178	7/64		53,578	7/64		78,978	7/64		104,378	7/64		129,778	7/64		155,178	7/64		180,578	7/64		205,978	16		406,4
9/8		3,175	1/8		28,575	1/8		53,975	1/8		79,375	1/8		104,775	1/8		130,175	1/8		155,575	1/8		180,975	1/8		206,375	17		431,8
9/64		3,572	9/64		28,972	9/64		54,372	9/64		79,772	9/64		105,172	9/64		130,572	9/64		155,972	9/64		181,372	9/64		206,772	18		457,2
5/32		3,969	5/32		29,369	5/32		54,769	5/32		80,169	5/32		105,569	5/32		130,969	5/32		156,369	5/32		181,769	5/32		207,169	19		482,6
11/64		4,366	11/64		29,766	11/64		55,166	11/64		80,566	11/64		105,966	11/64		131,366	11/64		156,766	11/64		182,166	11/64		207,566	20		508,0
3/16		4,762	3/16		30,162	3/16		55,562	3/16		80,962	3/16		106,362	3/16		131,762	3/16		157,162	3/16		182,562	3/16		207,962	21		533,4
13/64		5,159	13/64		30,559	13/64		55,959	13/64		81,359	13/64		106,759	13/64		132,159	13/64		157,559	13/64		182,959	13/64		208,359	22		558,8
7/32		5,556	7/32		30,956	7/32		56,356	7/32		81,756	7/32		107,156	7/32		132,556	7/32		157,956	7/32		183,356	7/32		208,756	23		584,2
15/64		5,953	15/64		31,353	15/64		56,753	15/64		82,153	15/64		107,553	15/64		132,953	15/64		158,353	15/64		183,753	15/64		209,153	24		609,6
1/4		6,350	1/4		31,750	1/4		57,150	1/4		82,550	1/4		107,950	1/4		133,350	1/4		158,750	1/4		184,150	1/4		209,550	25		635,0
17/64		6,747	17/64		32,147	17/64		57,547	17/64		82,947	17/64		108,347	17/64		133,747	17/64		159,147	17/64		184,547	17/64		209,947	26		660,4
9/32		7,144	9/32		32,544	9/32		57,944	9/32		83,344	9/32		108,744	9/32		134,144	9/32		159,544	9/32		184,944	9/32		210,344	27		685,8
19/64		7,541	19/64		32,941	19/64		58,341	19/64		83,741	19/64		109,141	19/64		134,541	19/64		159,941	19/64		185,341	19/64		210,741	28		711,2
5/16		7,938	5/16		33,338	5/16		58,738	5/16		84,138	5/16		109,538	5/16		134,938	5/16		160,338	5/16		185,738	5/16		211,138	29		736,6
21/64		8,334	21/64		33,734	21/64		59,134	21/64		84,534	21/64		109,934	21/64		135,334	21/64		160,734	21/64		186,134	21/64		211,534	30		762,0
11/32		8,731	11/32		34,131	11/32		59,531	11/32		84,931	11/32		110,331	11/32		135,731	11/32		161,131	11/32		186,531	11/32		211,931	31		787,4
23/64		9,128	23/64		34,528	23/64		59,928	23/64		85,328	23/64		110,728	23/64		136,128	23/64		161,528	23/64		186,928	23/64		212,328	32		812,8
3/8		9,525	3/8		34,925	3/8		60,325	3/8		85,725	3/8		111,125	3/8		136,525	3/8		161,925	3/8		187,325	3/8		212,725	33		838,2
25/64		9,922	25/64		35,322	25/64		60,722	25/64		86,122	25/64		111,522	25/64		136,922	25/64		162,322	25/64		187,722	25/64		213,122	34		863,6
13/32		10,319	13/32		35,719	13/32		61,119	13/32		86,519	13/32		111,919	13/32		137,319	13/32		162,719	13/32		188,119	13/32		213,519	35		889,0
27/64		10,716	27/64		36,116	27/64		61,516	27/64		86,916	27/64		112,316	27/64		137,716	27/64		163,116	27/64		188,516	27/64		213,916	36		914,4
7/16		11,112	7/16		36,512	7/16		61,912	7/16		87,312	7/16		112,712	7/16		138,112	7/16		163,512	7/16		188,912	7/16		214,312	37		939,8
29/64		11,509	29/64		36,909	29/64		62,309	29/64		87,709	29/64		113,109	29/64		138,509	29/64		163,909	29/64		189,309	29/64		214,709	38		965,2
15/32		11,906	15/32		37,306	15/32		62,706	15/32		88,106	15/32		113,506	15/32		138,906	15/32		164,306	15/32		189,706	15/32		215,106	39		990,6
31/64		12,303	31/64		37,703	31/64		63,103	31/64		88,503	31/64		113,903	31/64		139,303	31/64		164,703	31/64		190,103	31/64		215,503	40		1016,0
1/2		12,700	1/2		38,100	1/2		63,500	1/2		88,900	1/2		114,300	1/2		139,700	1/2		165,100	1/2		190,500	1/2		215,900	41		1041,4
33/64		13,097	33/64		38,497	33/64		63,897	33/64		89,297	33/64		114,697	33/64		140,097	33/64		165,497	33/64		190,897	33/64		216,297	42		1066,8
17/32		13,494	17/32		38,894	17/32		64,294	17/32		89,694	17/32		115,094	17/32		140,494	17/32		165,894	17/32		191,294	17/32		216,694	43		1092,2
35/64		13,891	35/64		39,291	35/64		64,691	35/64		90,091	35/64		115,491	35/64		140,891	35/64		166,291	35/64		191,691	35/64		217,091	44		1117,6
9/16		14,288	9/16		39,688	9/16		65,088	9/16		90,488	9/16		115,888	9/16		141,288	9/16		166,688	9/16		192,088	9/16		217,488	45		1143,0
37/64		14,684	37/64		40,084	37/64		65,484	37/64		90,884	37/64		116,284	37/64		141,684	37/64		167,084	37/64		192,484	37/64		217,884	46		1168,4
19/32		15,081	19/32		40,481	19/32		65,881	19/32		91,281	19/32		116,681	19/32		142,081	19/32		167,481	19/32		192,881	19/32		218,281	47		1193,8
39/64		15,478	39/64		40,878	39/64		66,278	39/64		91,678	39/64		117,078	39/64		142,478	39/64		167,878	39/64		193,278	39/64		218,678	48		1219,2
5/8		15,875	5/8		41,275	5/8		66,675	5/8		92,075	5/8		117,475	5/8		142,875	5/8		168,275	5/8		193,675	5/8		219,075	49		1244,6
41/64		16,272	41/64		41,672	41/64		67,072	41/64		92,472	41/64		117,872	41/64		143,272	41/64		168,672	41/64		194,072	41/64		219,472	50		1270,0
21/32		16,669	21/32		42,069	21/32		67,469	21/32		92,869	21/32		118,269	21/32		143,669	21/32		169,069	21/32		194,469	21/32		219,869	51		1295,4
43/64		17,066	43/64		42,466	43/64		67,866	43/64		93,266	43/64		118,666	43/64		144,066	43/64		169,466	43/64		194,866	43/64		220,266	52		1320,8
11/16		17,462	11/16		42,862	11/16		68,262	11/16		93,662	11/16		119,062	11/16		144,462	11/16		169,862	11/16		195,262	11/16		220,662	53		1346,2
45/64		17,859	45/64		43,259	45/64		68,659	45/64		94,059	45/64		119,459	45/64		144,859	45/64		170,259	45/64		195,659	45/64		221,059	54		137

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