













TORQUE WRENCHES & MULTIPLIERS

| Type | Brand | Series | Description / Specification | Image | Page no. |
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| Torque Wrenches & Multipliers | | | | | |
| Manual | Durapac | TQ | sq. Drive: 3/8-1" Max Torque 2,500 Nm |  | 4-5 |
| Manual | Alkitronic | ML / XCE | sq. Drive: 1/2-3/4" Max Torque 4,890 Nm |  | 6-7 |
| Manual | Alkitronic | M-SD / PC-SD | sq. Drive: 1-1-1/2" Max Torque 4,000 Nm |  | 8-9 |
| Manual | Alkitronic | M-HG | sq. Drive: 1/2-2-1/2" Max Torque 50,000 Nm |  | 10 |
| Battery | Voltork | NT | sq. Drive: 3/4-1-1/2" Max Torque 3,525 Nm |  | 11-19 |
| Battery | Alkitronic | EB | sq. Drive: 3/4-1-1/2" Max Torque 6,000 Nm All EB tools are now Defence-ready and NATO NSN Certified! Read more on pages 62-63 |  | 20-21 |
| Electric | Alkitronic | EC | EC-S (Straight) sq. Drive: 3/4-2-1/2" Max Torque 6,530 Nm |  | 22-23 |
| Electric | Alkitronic | EC | EC-A (Angle) sq. Drive: 3/4-2-1/2" Max Torque 6,530 Nm |  | 22-23 |
| Electric | Alkitronic | EF | EF-S (Straight) sq. Drive: 1-2-1/2" Max Torque 42,000 Nm |  | 24-25 |
| Electric | Alkitronic | EF | EF-A (Angle) sq. Drive: 1-2-1/2" Max Torque 42,000 Nm |  | 24-25 |
| Pneumatic | Alkitronic | PC | PC-F (formerly CLS) sq. Drive: 3/4-2-1/2" Max Torque 48,610 Nm |  | 26-27 |
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| Pneumatic | Alkitronic | PC-SD | PC-SD (formerly CLSD) c/w torque sensor sq. Drive: 1-1-1/2" Max Torque 4,000 Nm |  | 8 |
| Hydraulic | Durapac | TW | sq. Drive: 3/4-2-1/2" Max Torque 72,000 Nm |  | 33 |
| Hydraulic | Durapac | LPC | Cassette: 3/4"-6-7/8" Max Torque 44,593 Nm |  | 33-37 |
| Manual (Back-Up Wrench) | Durapac | DBW | Cassette 5/8"-5-3/4" |  | 38-39 |
| Torque Wrench Power Units | | | | | |
| Electric Power Unit | Durapac | DET | TBA |  | 40-41 |
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BOLT TENSIONER & FLANGE MAINTENANCE TOOLS

| Type | Brand | Series | Description / Specification | Image | Page no. |
|--|------------|------------|---|---|----------|
| Bolt Tensioners | | | | | |
| Hydraulic | Durapac | DBS | Max Force 4,100 kN |  | 42-48 |
| Hydraulic | Durapac | DMS | Max Force 2,880 kN |  | 49 |
| Bolt Tensioner Power Units | | | | | |
| Power Unit Pneumatic | Durapac | PAMH | High Pressure |  | 50 |
| Power Unit Electric | Durapac | PEMH | High Pressure |  | 51 |
| Power Unit Manual Pump | Durapac | DBTP-1500K | Ultra High Pressure |  | 52 |
| Spreaders & Wedges | | | | | |
| Spreader Hydraulic | Durapac | DHS | TBA |  | 54-55 |
| Lifting Wedge Hydraulic | Durapac | DLW | TBA |  | 56-57 |
| Nut Splitters | | | | | |
| Nut Splitter Hydraulic | Durapac | DNS | TBA |  | 58-59 |
| 700 Bar Hydraulic Pumps | | | | | |
| Pump Hydraulic | Durapac | P | 700 Bar Hand-Operated Steel-Bodied Pump |  | 60 |
| Pump Hydraulic | Durapac | P | 700 Bar Hand-Operated Aluminium-Bodied Pump |  | 61 |
| Accessories | | | | | |
| Flange Boy | Alkitronic | N/A | N/A |  | 29 |
| Battery Kit | Alkitronic | N/A | N/A |  | 30 |
| Maintenance unit | Alkitronic | N/A | N/A |  | 28 |
| Reaction Devices (Alkitronic DMA) | Alkitronic | N/A | N/A |  | 31 |
| Torque Wrench Hoses | Durapac | N/A | N/A |  | 41 |
| Torque Wrench Couplings | Durapac | N/A | N/A |  | 41 |
| DBTP-1500K Accessories | Durapac | N/A | N/A |  | 53 |
| Extension, Reaction Arms & Accessories | Voltork | N/A | N/A |  | 16-17 |

BOLTING & TORQUE SOLUTIONS

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TQ-SERIES MANUAL TORQUE WRENCHES



OVERVIEW

The TQ-Series manual torque wrenches are precision tools used across various industries, including automotive, manufacturing, and construction. Durapac offers a range of manual torque wrenches with different drive sizes and torque capacities to meet your specific requirements. Each tool is supplied with a factory calibration certificate and a robust carry case.

BOLTING & TORQUE SOLUTIONS



TQ-1000

TQ-600

TQ-200

SPECIFICATIONS

| Model No. | Square Drive | Teeth | Torque Range (Nm) | Graduation (Nm) | Length (mm) | Weight (kg) |
|-----------|--------------|-------|-------------------|-----------------|-------------|-------------|
| TQ-20 | 3/8" | 24 | 4 – 20 | 0.1 | 329 | 0.65 |
| TQ-60 | 3/8" | 32 | 10 – 60 | 0.5 | 344 | 0.76 |
| TQ-100 | 1/2" | 32 | 20 – 100 | 0.5 | 436 | 1.31 |
| TQ-200 | 1/2" | 32 | 40 – 200 | 1.0 | 512 | 1.58 |
| TQ-340 | 1/2" | 32 | 60 – 340 | 2.0 | 614 | 1.80 |
| TQ-400 | 3/4" | 32 | 80 – 400 | 2.0 | 614 | 1.80 |
| TQ-600 | 3/4" | 24 | 100 – 600 | 5.0 | 1,050 | 5.03 |
| TQ-800 | 3/4" | 24 | 150 – 800 | 5.0 | 1,240 | 6.11 |
| TQ-1000 | 3/4" | 24 | 200 – 1,000 | 5.0 | 1,240 | 6.11 |
| TQ-1500 | 1" | 24 | 300 – 1,500 | 10.0 | 1,850 | 10.60 |
| TQ-2500 | 1" | 36 | 500 – 2,500 | 20.0 | 2,920 | 19.60 |

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TQ-SERIES MANUAL TORQUE WRENCHES

DURAPAC

RATCHET HEAD

for clockwise and counterclockwise applications. Ratchet head repair kits available separately

QUICK-RELEASE DESIGN

allows fast socket changes

POSITIVE FEEDBACK

an audible signal indicates when desired torque is achieved

CHROME STEEL TUBE

is robust and reliable, making it ideal for industrial use

SERIAL NUMBER

engraved for traceability

CERTIFIED QUALITY

meets DIN ISO 6789, ASME B107.300-2010 & supplied with Certificate of Calibration

MICROMETER LASER SCALES

on the handle, enable precise adjustment

LOCK RING

automatically locks the set torque value but allows 'press-down' easy adjustment

TPR HANDLE

TPR (thermoplastic rubber) handle provides non-slip comfort & comes with a REACH - SVHC Declaration of Conformity



TORQUE RANGE
4 - 2,500 Nm
 SQUARE DRIVE RANGE
3/8" - 1"
 TORQUE TOLERANCE
±3%

ROBUST CARRY CASE

supplied



BOLTING & TORQUE SOLUTIONS

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XCE & X-ML SERIES

NORWOLF SPECIALTY PRODUCTS

The Alkitronic Norwolf Missing Link™ - the most revolutionary manual torque multiplier for applications where standard tools don't fit. The Alkitronic Norwolf XCE Link™ is essentially a Missing Link™ with the ability to turn continuously.

MISSING LINK

The Missing Link™ torque multiplier fits into tightly confined areas where sockets will not fit. The Missing Link™ has become standard in the wind industry for generator feet and yaw pucks. Available in 4:1 or 6:1 ratios. The newly re-designed 6:1 Missing Link™ fits in the narrowest of confines while maintaining a high power to weight ratio.

ADVANTAGES

- Accurate - operates using levers, not gears.
- No overload pins to break - creates safer working environment.
- Uses ratchet or non-ratchet wrenches.
- Optional reaction arm permits operator to react on the same plane.
- Input force is same direction as reaction force for maximum operator convenience.
- Totally enclosed aluminum housing.
- Available in two styles: pin or hub reaction.
- Continuous rotation for use with any Alkitronic pneumatic or electric multiplier.
- Available in special configurations.
- Gearless internal design offers long service life..

XCE LINK

The Alkitronic Norwolf XCE Link™ is the ultimate answer for gaining access where standard pneumatic multipliers are too tall or bulky to fit application. Available in 3:1 or 4:1 ratios. There are two available styles. The standard style has a sliding pin with which to react with any standard torque multiplier. The hub style has a specific splined hub to match the input tool of choice.

alkitronic®



XCE Link™ with hub style to match the input of all Alkitronic torque tools. Continuous rotation for use with any electric or pneumatic driven torque multiplier.



Application Example: The Missing Link™ when fitting a coupling in plant construction. The Missing Link™ fits more applications than any other wrench.

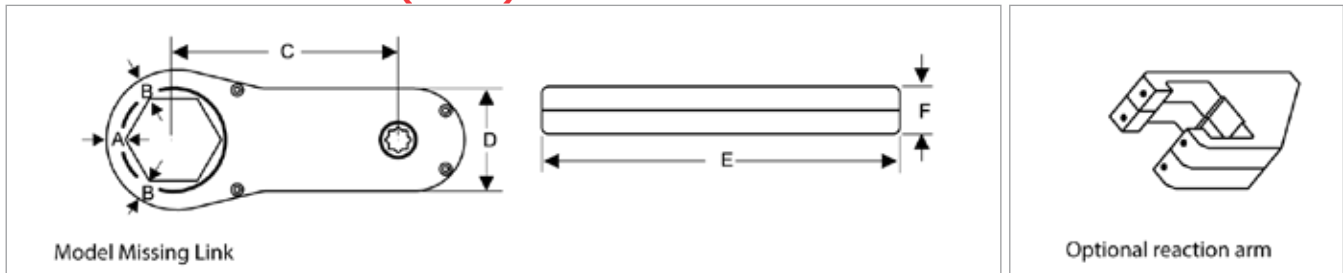


Missing Link™ - the manual torque multipliers are available with spanner sizes from 22 mm to max. 80 mm and ratios of 4:1, 6:1. The Missing Link™, the most suitable multiplier for every bolting connection.

SPECIFICATIONS



MODELS MISSING LINK (M-ML)

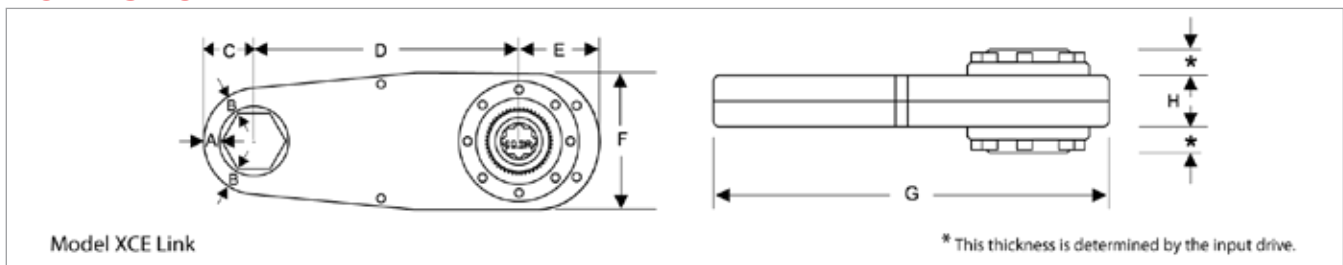


| Models Missing Link M-ML - 1/2", 4:1 Ratio - max. 340 Nm input / 1360 Nm output | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|-----------------------------|
| SW | 22 | 24 | 27 | 30 | 32 | 36 | 41 | 46 | 50 | 55 | 60 | |
| A mm | 13,5 | 12 | 11.1 | 12 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | 11.1 | C 151mm D 70mm F 32mm |
| B mm | 15.1 | 13.5 | 12.7 | 13,5 | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 | 12.7 | |
| E mm | 222 | 222 | 222 | 226 | 226 | 228 | 231 | 234 | 236 | 239 | 242 | |

| Models Missing Link M-ML - 3/4", 4:1 Ratio - max. 815 Nm input / 3260 Nm output | | | | | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------------------|
| SW | 22 | 24 | 27 | 30 | 32 | 36 | 41 | 46 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | |
| A mm | 21.3 | 20.3 | 18.8 | 17.3 | 16.3 | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 | 14.3 | C 212mm D 95mm F 45mm |
| B mm | 23.6 | 22.6 | 21.1 | 19.6 | 18.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | |
| E mm | 309 | 309 | 309 | 309 | 309 | 309 | 312 | 315 | 317 | 320 | 323 | 325 | 328 | 331 | 334 | |

| Models Missing Link M-ML - 3/4", 6:1 Ratio - max. 815 Nm input / 4890 Nm output | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------------------------------|
| SW | 32 | 36 | 41 | 46 | 50 | 55 | 60 | 65 | 70 | |
| A mm | 23.3 | 21.3 | 18.8 | 14.3 | 16.3 | 14.3 | 14.3 | 14.3 | 14.3 | C 355mm D 102mm F 45mm |
| B mm | 25.6 | 23.6 | 21.1 | 18.6 | 16.6 | 16.6 | 16.6 | 16.6 | 16.6 | |
| E mm | 476 | 476 | 476 | 476 | 476 | 479 | 481 | 484 | 487 | |

MODELS XCE LINK



| Models XCE Link - 3/4", 3:1 Ratio - max. 1150 Nm input / 3450 Nm output | | | | | | | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|
| SW | 24 | 27 | 32 | 36 | 41 | 46 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | |
| A mm | 10 | 11 | 11 | 12 | 12 | 13 | 13 | 14 | 14 | 15 | 15 | 16 | 16 | D 156 mm E 60 mm F 102 mm H 38mm |
| B mm | 11 | 11 | 12 | 12 | 13 | 13 | 14 | 14 | 15 | 15 | 16 | 16 | 17 | |
| C mm | 25 | 27 | 30 | 33 | 36 | 40 | 42 | 46 | 49 | 53 | 56 | 59 | 63 | |
| G mm | 241 | 243 | 246 | 249 | 252 | 256 | 258 | 262 | 265 | 269 | 272 | 275 | 279 | |

| Models XCE Link - 1", 3:1 Ratio - max. 2440 Nm input / 7320 Nm output | | | | | | | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| SW | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 90 | 100 | 105 | 110 | 115 | 120 | |
| A mm | 13 | 14 | 14 | 15 | 15 | 16 | 16 | 17 | 18 | 19 | 20 | 20 | 21 | D 208 mm E 80 mm F 137 mm H 51 mm |
| B mm | 14 | 14 | 15 | 15 | 16 | 16 | 17 | 18 | 19 | 19 | 20 | 20 | 21 | |
| C mm | 42 | 46 | 49 | 53 | 56 | 59 | 63 | 70 | 76 | 80 | 83 | 87 | 90 | |
| G mm | 330 | 334 | 337 | 341 | 344 | 347 | 351 | 358 | 364 | 368 | 371 | 375 | 378 | |

| Models XCE Link - 3/4", 4:1 Ratio - max. 1150 Nm input / 4600 Nm output | | | | | | | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| SW | 24 | 27 | 32 | 36 | 41 | 46 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | |
| A mm | 10 | 11 | 11 | 12 | 12 | 13 | 13 | 14 | 14 | 15 | 15 | 16 | 16 | D 196 mm E 60 mm F 102 mm H 38 mm |
| B mm | 11 | 11 | 12 | 12 | 13 | 13 | 14 | 14 | 15 | 15 | 16 | 16 | 17 | |
| C mm | 25 | 27 | 30 | 33 | 36 | 40 | 42 | 46 | 49 | 53 | 56 | 59 | 63 | |
| G mm | 281 | 283 | 286 | 289 | 292 | 296 | 298 | 302 | 305 | 309 | 312 | 315 | 319 | |

| Models XCE Link - 1", 4:1 Ratio - max. 2440 Nm input / 9760 Nm output | | | | | | | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| SW | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 90 | 100 | 105 | 110 | 115 | 120 | |
| A mm | 13 | 14 | 14 | 15 | 15 | 16 | 16 | 17 | 18 | 19 | 20 | 20 | 21 | D 262 mm E 80 mm F 137 mm H 51 mm |
| B mm | 14 | 14 | 15 | 15 | 16 | 16 | 17 | 18 | 19 | 19 | 20 | 20 | 21 | |
| C mm | 42 | 46 | 49 | 53 | 56 | 59 | 63 | 70 | 76 | 80 | 83 | 87 | 90 | |
| G mm | 384 | 388 | 391 | 395 | 398 | 401 | 405 | 412 | 418 | 422 | 425 | 429 | 432 | |

M-SD/PC-SD SERIES

APPLICATIONS

High quality bolt-connections place the highest demands on bolting technology. The powerful mounting documentation system Alkitronic MDS provides a fast, complete and flawless collection of torque data. Alkitronic MDS helps to fulfill legal regulations and to comply with international quality standards (documentation to the end user, traceable bolting parameters).

- The product range includes:
The manually operated Alkitronic M-SD and the pneumatically operated Alkitronic PC-SD. The torque multipliers are used for torque controlled bolting and reliable measurement data recording on the spot.

ADVANTAGES

General

- Optimized process safety and work safety.
- Guaranteed traceability and documented bolted joints.
- Torque can be set and record on site.
- Control panel with OLED display, display of torque in Nm or ft.lbs.

Alkitronic M-SD

- Repeatability in tightening – independent of disturbances.
- Torque/torque angle procedure, manual setting and documentation on site.
- High mobility: independent of external power supply.

Alkitronic PC-SD

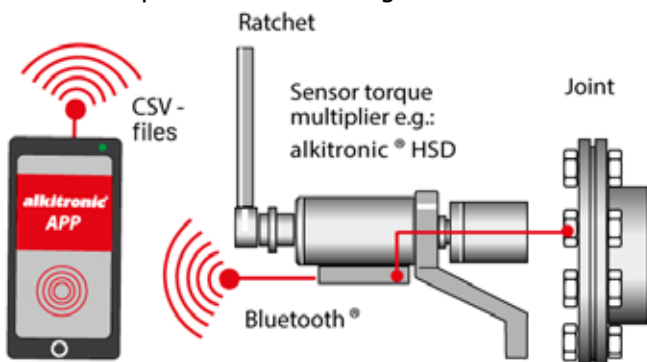
- Robust motor housing of cast aluminum with proven pneumatic drive.
- Proven high-performance gears, produced in a chip-free, high-precision process produce high loads with low wear.
- Simple 1-finger operation for right/left rotation.

ALKITRONIC SPECIALS

- Torque recording and sensors directly on the square drive.
- Select individual bolting- and measurement method, several preset programs can be chosen.
- Menu-guided multilingual operation, using visual and acoustic control- or warning signals.
- Data transmission via the Bluetooth interface for communication with mobile phones and other devices, such as tablets.
- Alkitronic APP developed for measurement data recording and fast data transmission.

ALKITRONIC APP APPLICATION SCHEME

Alkitronic APP app for iOS® and android® mobiles and platform independent data exchange via CSV file transfer.



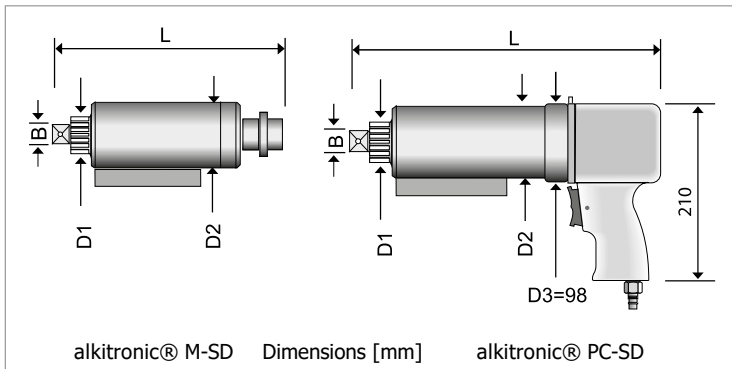
alkitronic®



M-SD/PC-SD SERIES INTEGRATED TORQUE SENSOR



SPECIFICATIONS



| Type (formerly) | Pneumatic drive | | | | | |
|-------------------------------|-----------------|----------|----------|-----------|-----------|-----------|
| | M-SD 100 | M-SD 200 | M-SD 400 | PC-SD 100 | PC-SD 200 | PC-SD 400 |
| Measuring range approx. Nm | 100-1000 | 200-2000 | 400-4000 | 100-1000 | 200-2000 | 400-4000 |
| Power (max) Nm | 1000 | 2000 | 4000 | 1000 | 2000 | 4000 |
| Square drive B | 1" | 1" | 1 1/2" | 1" | 1" | 1 1/2" |
| Diameter (approx.) D1 mm | 54 | 54 | 72 | 54 | 54 | 72 |
| Diameter (approx.) D2 mm | 88 | 88 | 98 | 88 | 88 | 98 |
| Length (approx.) L mm | 220 | 295 | 320 | 360 | 390 | 410 |
| Weight without DMA approx. kg | 6.4 | 7.6 | 11.35 | 10 | 11.25 | 15 |
| Idle speed r/min | - | - | - | 11 | 5 | 3.5 |

Operation panel/sensoric: Measurement accuracy: +/- 1% / Temperature range: 0 to + 50 degree C

OVERVIEW OF THE PROGRAMS 1 TO 5 (PROGRAMS FOR M-SD: 1-4, FOR PC-SD: 1 AND 5, ONLY)

- Tightening with specified torque
 - Torque controlled bolting, bolt connections with target values and tolerance levels.
- Tightening with torque/angle procedure
 - Pre-torque and angle can be preset.
 - Tolerance specification for the final torque (control of bolting quality).
 - Storage of actual torque and angle.
- Checking of torque
 - Monitoring of already tightened bolt connections.

- Determination of already loosened torque values.
- Repeatable testing method with specified angle.
- CCW: Determination of the starting torque.
- Determination of required angle
 - For testing and development purposes. Pre-torque and target resp. final torque are specified.
 - Measurement and storage of the reached angle.
- Display actual torque only with models PC-SD
 - Display and recording of the actual torque.

Operating range M-SD / PC-SD with OLED graphic display

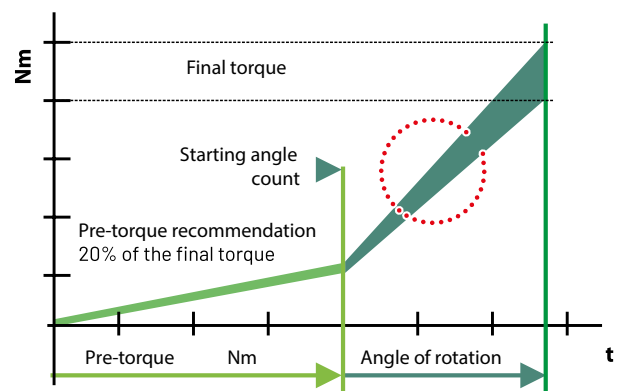
Diagram for program 2 and 4

Example for menu-guided operation (M-SD)



Examples Display image in mode "Program 1"

Select units (Nm/ft.lbs) and language (German, English) during setting (image 2). Image 3 shows setting of bolting parameters. Image 4 shows the amount of boltings. Alarms and other notifications made by visual and acoustic signals.



Information on rotational angle setting for torque/angle procedure

- pre-torque and angle of rotation are specified constructively for the bolting connection.
- The angle of rotation can be determined individually and easily with the alkitronic® M-SD.

BOLTING & TORQUE SOLUTIONS

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M-HG SERIES (WITH RATCHET)



APPLICATIONS

- Alkitronic M-HG manual torque multiplier - for energy independent precise tightening and loosening of heavy-duty bolt connections.
- Torques from 200 Nm up to 50,000 Nm.
- The ideal torque tool in high explosion-risk areas
- Alkitronic M-HG provide safe, economic, problem-free operation. They replace impact wrenches, pipe extensions and other inadequate methods.

ADVANTAGES

- Maintenance-free, compact and robust design. They improve on-the-job safety and have short assembly times.
- Low energy input - high torque transfer.
- Integrated anti wind-up ratchet allows jobs to be performed easily, efficiently and safely.

ALKITRONIC SPECIALS

- The components of the Alkitronic power gears are manufactured using a high-precision chipless process - in order to ensure the highest possible operational demands with lowest wear.
- The shearing pin built into the drive shaft protects against input overload.

TECHNICAL DATA

- Torque Multiplier input via: 3/4" internal square socket torque wrench or conventional ratchets external hexagonal socket SW 36 mm.
- Handwheel - for rough turning loose bolts/nuts.
- Alkitronic manual torque multipliers are supplied with a support foot (DMA) as standard version. For support rings, back stops, ratchets, torque wrenches and other components, please see our Alkitronic catalog of accessories.

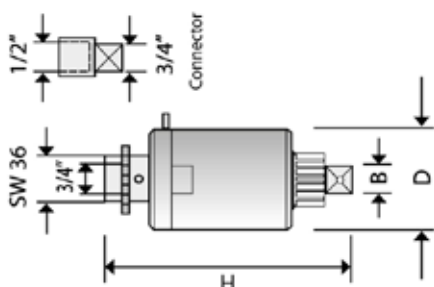


SPECIFICATIONS

| Type | M-HG10 | M-HG15 | M-HG20 | M-HG30 | M-HG40 | M-HG50 | M-HG60 | M-HG80 |
|-----------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|
| Torque up to (approx.) * Nm | 1400 | 1400 | 3500 | 5000 | 6000 | 8000 | 11500 | 50000 |
| lbf.ft | 1035 | 1035 | 2580 | 3690 | 4425 | 5900 | 8480 | 36880 |
| Square drive B | 1/2" / 3/4" | 1" | 1" | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" | 2 1/2" |
| Reduction ratio | 4 | 4 | 16 | 18 | 20 | 24 | 28 | 180 |
| Diameter D mm | 85 | 85 | 85 | 98 | 109 | 133 | 173 | 275 |
| Height H mm | 180 | 200 | 235 | 250 | 280 | 280 | 290 | 360 |
| Weight (approx.) kg | 3.5 | 4 | 5 | 6.5 | 7 | 11 | 19 | 58 |

*) When loosening a bolted connection, up to 20% higher torque may be required (loosening torque). We will gladly advise you in detail.

DIMENSIONS



Connector:
1/2" internal square socket -
3/4" external square socket



Alkitronic - power gear components



Alkitronic M operating on electricity pylons. Accurate tightening via torque wrench.

INTRODUCING THE NEW VOLTORK

The NT Series of battery-operated torque wrenches was designed to address several critical needs of the heavy bolting industry. Everyone enjoys the freedom of a powerful cordless torque wrench, but this often comes with compromises, such as handling a heavier tool, a low number of cycles per battery charge, reduced accuracy, unclear torque output, limited torque settings, and fragile components that break easily—the list goes on. When the VoltORK team was developing the product line, they worked to eliminate these inconveniences. VoltORK tools, as shown in the table on page 5, are among the lightest on the market relative to their maximum torque output. VoltORK also takes pride in leading the industry in battery efficiency, delivering the highest number of cycles per charge. We challenge you to compare VoltORK tools side by side with any competitor’s to see the difference for yourself. VoltORK wrenches offer a ±3% torque accuracy, and it’s easy to verify—thanks to the large display screen on the back, which leaves no doubt about the set torque. The moment you hold one of VoltORK’s tools, you’ll feel the quality, from the robust anodized aluminum motor housing to the ergonomic aluminum grip. Just like our other product lines, the NT Series features a modular design, allowing users to quickly switch between available output drives, reaction arms, extensions, and custom accessories as needed—making it the most versatile torque delivery system on the market.

FEATURES

- Operates in torque control or turn-of-nut modes
- 100% remotely operated using optionalequipment
- Cycle completion is indicated by 5 flashing LEDs and automatic reverse move to aid in reaction arm removal
- Turn-of-nut cycle completion also includes display of total achieved torque as an extra check
- Square drives can be easily replaced if damaged or a different size is needed
- Advanced thermal management for motor and circuits
- Motor temperature and tool voltage displayed with a single push of a button
- Gearbox rotates independently of tool housing for operator safety

ADVANTAGES

- Modular design allows sharing of accessories
- Customer-replaceable square drives
- Supports Torque and Turn-of-the-Nut modes
- Optional 100% remote operation – contact your SF representative for details.
- Compatible with Makita 18V Lithium-Ion batteries
- Advanced heat management

VOLTORK™



Makita®
 Battery Compatible

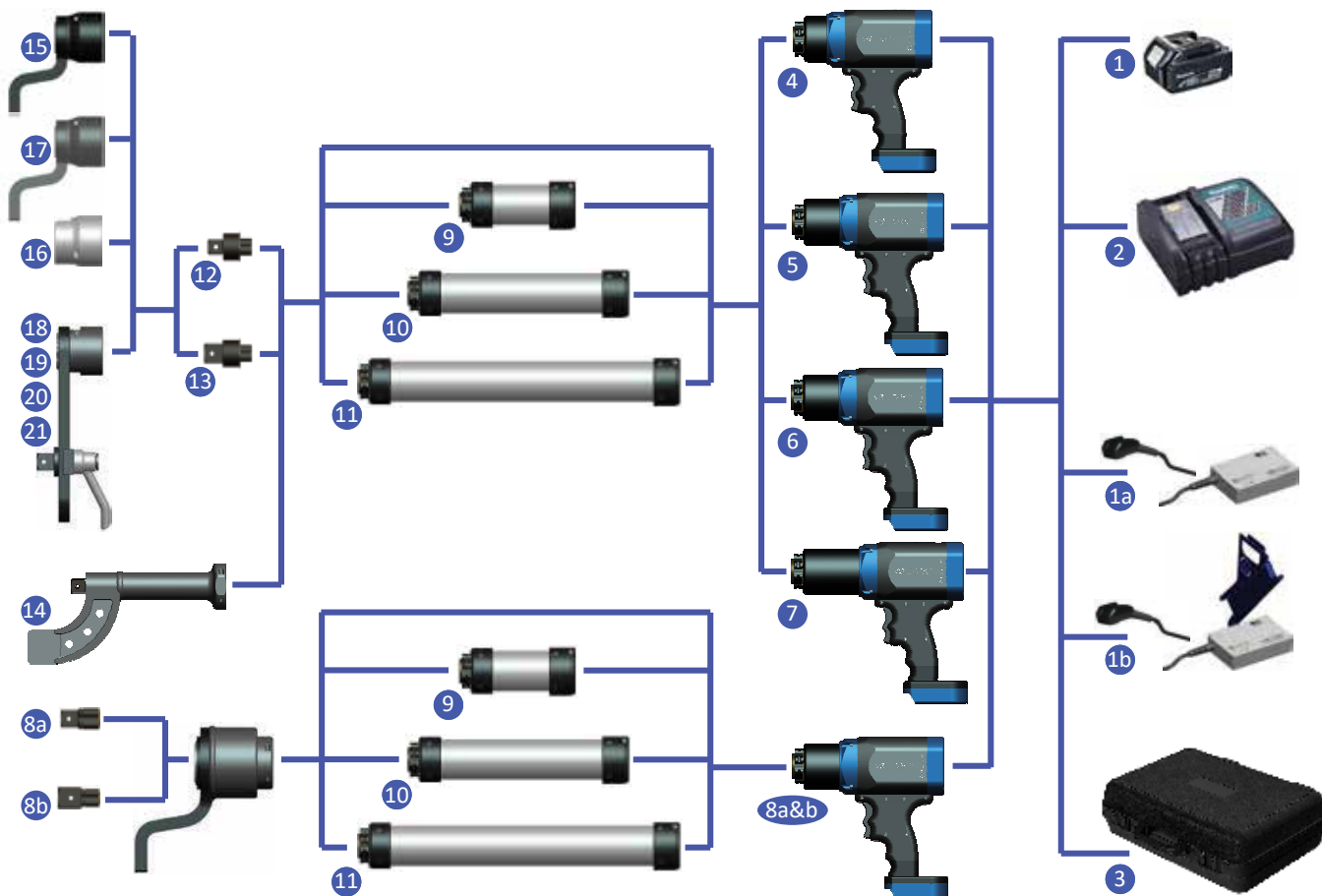


BOLTING & TORQUE SOLUTIONS

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BATTERY POWERED MODULAR TORQUE SYSTEM

BOLTING & TORQUE SOLUTIONS



SPECIFICATIONS

| Model No. | NT200B | | NT500B | | NT800B | | NT1300B | | NT2600B | |
|------------------------|---|---------|---------------|---------|---------------|----------|-------------|----------|-----------------|----------|
| Parameter | IMPERIAL | METRIC | IMPERIAL | METRIC | IMPERIAL | METRIC | IMPERIAL | METRIC | IMPERIAL | METRIC |
| Output Drive | 3/4" SQ | n/a | 3/4" or 1" SQ | n/a | 3/4" or 1" SQ | n/a | 1" SQ | n/a | 1" or 1-1/2" SQ | n/a |
| Max Torque | 200 ft-lbs | 271 N-m | 500 ft-lbs | 678 N-m | 800 ft-lbs | 1085 N-m | 1300 ft-lbs | 1763 N-m | 2600 ft-lbs | 3525 N-m |
| Min Torque | 20 ft-lbs | 27 N-m | 50 ft-lbs | 68 N-m | 80 ft-lbs | 108 N-m | 130 ft-lbs | 176 N-m | 260 ft-lbs | 353 N-m |
| Max Speed | 60.1 | | 17.4 | | 12.2 | | 6.6 | | 3 | |
| System Accuracy | <3% | | | | | | | | | |
| Tool Weight | 9.4 lbs | 4.3 Kg | 10.4 lbs | 4.7 Kg | 10.4 lbs | 4.7 Kg | 12.6 lbs | 5.7 Kg | 20.7 lbs | 9.4 Kg |
| Total Weight | 12.7 lbs | 5.8 Kg | 13.7 lbs | 6.2 Kg | 13.7 lbs | 6.2 Kg | 15.9 lbs | 7.2 Kg | 20.7 lbs | 9.4 Kg |
| Battery | Makita® compatible 18V Li-Ion 5.0 Ah standard | | | | | | | | | |
| Warranty | 1 year limited | | | | | | | | | |

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BATTERY TOOL - INDIVIDUAL COMPONENTS

| Item | Part Number | Description | Weight (kg) |
|------|-------------------------|---|-------------|
| 1 | BL1850B | 18V Li-Ion BATTERY, 5.0 Ah | 0.64 |
| 1a | NTA-000077 | AC POWER SUPPLY - LOW PROFILE | TBA |
| 1b | NTA-000078 | AC POWER SUPPLY - CARRY HANDLE & CABLE STORAGE | TBA |
| 2 | DC18RC | 18V BATTERY CHARGER | 0.73 |
| 3 | NTC-000003 | CASE, BATTERY TOOL | 0.95 |
| 4 | NT200B * | NT200B BATTERY TORQUE WRENCH, BARE TOOL | 3.63 |
| 5 | NT500B * | NT500B BATTERY TORQUE WRENCH, BARE TOOL | 4.08 |
| 6 | NT800B * | NT800B BATTERY TORQUE WRENCH, BARE TOOL | 4.08 |
| 7 | NT1300B * | NT1300B BATTERY TORQUE WRENCH, BARE TOOL | 5.08 |
| 8a | NT2600B1" ** | NT2600B BATTERY TORQUE WRENCH, BARE TOOL, 1" SQ | 8.76 |
| 8b | NT2600B1-1/2" ** | NT2600B BATTERY TORQUE WRENCH, BARE TOOL, 1-1/2" SQ | 8.76 |
| 9 | NTA-000041 | 6" TOOL EXTENSION | 2.09 |
| 10 | NTA-000042 | 12" TOOL EXTENSION | 3.13 |
| 11 | NTA-000043 | 18" TOOL EXTENSION | 4.13 |
| 12 | NTA-000044 | 3/4" STANDARD SQUARE DRIVE | 0.18 |
| 13 | NTA-000045 | 1" STANDARD SQUARE DRIVE | 0.18 |
| 14 | NTA-000046 | WHEEL BOLTING ATTACHMENT | 2.31 |
| 15 | NTA-000031 | STANDARD STEEL REACTION ARM, 1300 FT-LB MAX | 1.32 |
| 16 | NTF-000039 | REACTION ARM WELD BLANK FOR CUSTOM APPLICATIONS | 0.82 |
| 17 | NTA-000028 | STANDARD ALUMINUM REACTION ARM, 500 FT-LB MAX | TBA |
| 18 | NTA-000084 | SLIDING REACTION ARM 3/4" SQUARE DRIVE 3" to 8.5" RANGE | TBA |
| 19 | NTA-000083 | SLIDING REACTION ARM 1" SQUARE DRIVE 3" to 8.5" RANGE | TBA |
| 20 | NTA-000082 | SLIDING REACTION ARM 3/4" SQUARE DRIVE 4" to 12" RANGE | TBA |
| 21 | NTA-000081 | SLIDING REACTION ARM 1" SQUARE DRIVE 4" to 12" RANGE | TBA |

* This is a bare tool; it does not include the battery, charger, case, square drive, or reaction arm.

** This is a bare tool; it does not include the battery, charger, or case; it includes square drive and reaction arm for 2600 ft-lb mode but not for 800 ft-lb mode.

BATTERY TOOL - PACKAGES

| Includes Items | Kit Model No | Battery | Charger | Case | Extension | Square Drive | Reaction Arm | Notes |
|------------------------|-----------------------------|---------|---------|------|-----------|--------------|--------------|--------------|
| 1, 1, 2, 3, 4, 12, 15 | NT200BPKG(BB) | 2X | YES | YES | NO | 3/4" | STANDARD | - |
| 3, 4, 12, 15 | NT200BPKG | NO | NO | YES | NO | 3/4" | STANDARD | - |
| 1, 1, 2, 3, 5, 12, 15 | NT500BPKG(BB) | 2X | YES | YES | NO | 3/4" | STANDARD | - |
| 3, 5, 12, 15 | NT500BPKG | NO | NO | YES | NO | 3/4" | STANDARD | - |
| 1, 1, 2, 3, 6, 12, 15 | NT800BPKG(BB) | 2X | YES | YES | NO | 3/4" | STANDARD | - |
| 3, 6, 12, 15 | NT800BPKG | NO | NO | YES | NO | 3/4" | STANDARD | - |
| 1, 1, 2, 3, 7, 13, 15 | NT1300BPKG(BB) | 2X | YES | YES | NO | 1" | STANDARD | - |
| 3, 7, 13, 15 | NT1300BPKG | NO | NO | YES | NO | 1" | STANDARD | - |
| 1, 1, 2, 3, 8a, 12, 15 | NT2600B1"PKG(BB) | 2X | YES | YES | NO | 3/4" | STANDARD | 1" SQ DR |
| 3, 8a, 12, 15 | NT2600B1"PKG | NO | NO | YES | NO | 3/4" | STANDARD | 1" SQ DR |
| 1, 1, 2, 3, 8b, 12, 15 | NT2600B1-1/2"PKG(BB) | 2X | YES | YES | NO | 3/4" | STANDARD | 1-1/2" SQ DR |
| 3, 8b, 12, 15 | NT2600B1-1/2"PKG | NO | NO | YES | NO | 3/4" | STANDARD | 1-1/2" SQ DR |

FEATURES

VOLTORK™



NT200B | NT500B | NT800B | NT130B | NT2600B



5 yellow LEDs indicate percent of set torque achieved. All LEDs turn green when set torque is reached and red if the set torque is not achieved.

2 line display shows set torque when operating in torque mode and set torque and angle when operating in turn-of-the-nut mode.

Multi-function button allows set torque to be adjusted when pressed once, toggles between torque mode and turn-of-the-nut mode when held for 3 seconds and changes the units when held for 5 seconds.

This button displays motor temperature and tool voltage

Large buttons allow easy operation even when wearing work gloves. Pressing any buttons or the trigger powers on the tool. Tool automatically powers off after 10 minutes of inactivity.

Tool motor automatically stops after achieving the set torque within 5%, then turns backwards several degrees to enable easy removal of tool from reaction point and also provides visual indication that the work is complete.

NT2600B (MADE IN USA)

VOLTORK™



Two dedicated LEDs indicate whether the tool is working as an 800 ft-lb tool or a 2600 ft-lb tool at all times.

The tool automatically switches calibration parameters when its personality is changed. To use the NT2600B as an 800 ft-lb tool, the 2600 reducer must also be removed – this is accomplished in seconds by taking out 2 screws.

Changing the tool personality is done by pressing these 2 buttons together.

Multiple personality tools such as the NT2600B can also work as a NT800B tool – users get two completely different tools in one. They also have all the features of the other tools described above.



Removal of 2600 reducer requires the removal of two screws, then the reducer slides out.



Adding a standard square drive and reaction arm prepares the tool for operation as a NT800B.

This versatile tool allows torque ranges between 100 and 2600 ft-lbs. The conversion process takes under a minute.

BOLTING & TORQUE SOLUTIONS

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STANDARD REACTION ARMS



**Standard Steel
Reaction Arm**



**Standard Aluminum
Reaction Arm**



**Wheel Bolting
Attachment**



**Blank
Reaction Arm**

STANDARD SLIDING REACTION ARMS



P/N NTA-000084



P/N NTA-000083



P/N NTA-000082



P/N NTA-000081

CUSTOM DESIGNED REACTION ARMS



SPECIFICATIONS

| Model No. | type | material | Center to Center | Sq. Drive | For use up to (Nm) | weight (kg) |
|-----------------------|--|-----------|------------------|-----------|--------------------|-------------|
| P/N NTA-000031 | Standard | Steel | N/A | N/A | 1761 | 1.27 |
| P/N NTA-000028 | Standard | Aluminium | N/A | N/A | 678 | 0.45 |
| P/N NTA-000046 | Wheel Bolting | steel | N/A | N/A | 1761 | 2.54 |
| P/N NTF-000039 | Blank | steel | N/A | N/A | N/A | 0.77 |
| P/N NTA-000084 | Sliding | steel | 3" to 8.5" | ¾" | N/A | 3.04 |
| P/N NTA-000083 | Sliding | steel | 3" to 8.5" | 1" | N/A | 3.13 |
| P/N NTA-000082 | Sliding | steel | 4" to 12" | ¾" | N/A | 3.63 |
| P/N NTA-000081 | Sliding | steel | 4" to 12" | 1" | N/A | 3.77 |
| Custom | Please contact your nearest Specialised Force branch for more information. | | | | | |

ACCESSORIES & POSSIBILITIES

VOLTORK™



NT800B with 12" extension,
3/4" square drive and standard
reaction arm



NT2600B with 18" extension



NT500B with
wheel attachment



NT1300B with 6" extension
and wheel attachment



NT1300B with 1"
square drive and
custom reaction arm

FLEXIBLE POWER SOURCE – BATTERY OR AC POWER

- VOLTORK™ tools can operate with either 18V Li-Ion Makita® compatible batteries or AC power using our available VOLTORK™ AC power supply
- Recommended 18V Li-Ion Makita® batteries include the 4Ah, 5Ah and 6Ah capacities
- Tools purchased and calibrated with the battery option can also be used with the VOLTORK™ AC power supply with no additional modifications and vice versa
- The VOLTORK™ AC power supply automatically self-adjusts so it can be used with virtually any available AC voltage between 100 and 240 with 50 or 60 Hz
- The VOLTORK™ AC power supply has a flexible 24ft (7.3m) cable connecting it to the tool for minimal movement during tool operation
- The power supply is sealed and thermally protected for use in the harshest environments; power LED indicates a equate AC power
- The low-profile version (P/N NTA-000077) measures 8.76 x 5.77 x 2.17 inches (22.25 x 14.66 x 5.51cm and weighs 4.5 lbs (2.0 Kg) (weight and dimensions do not include cable)

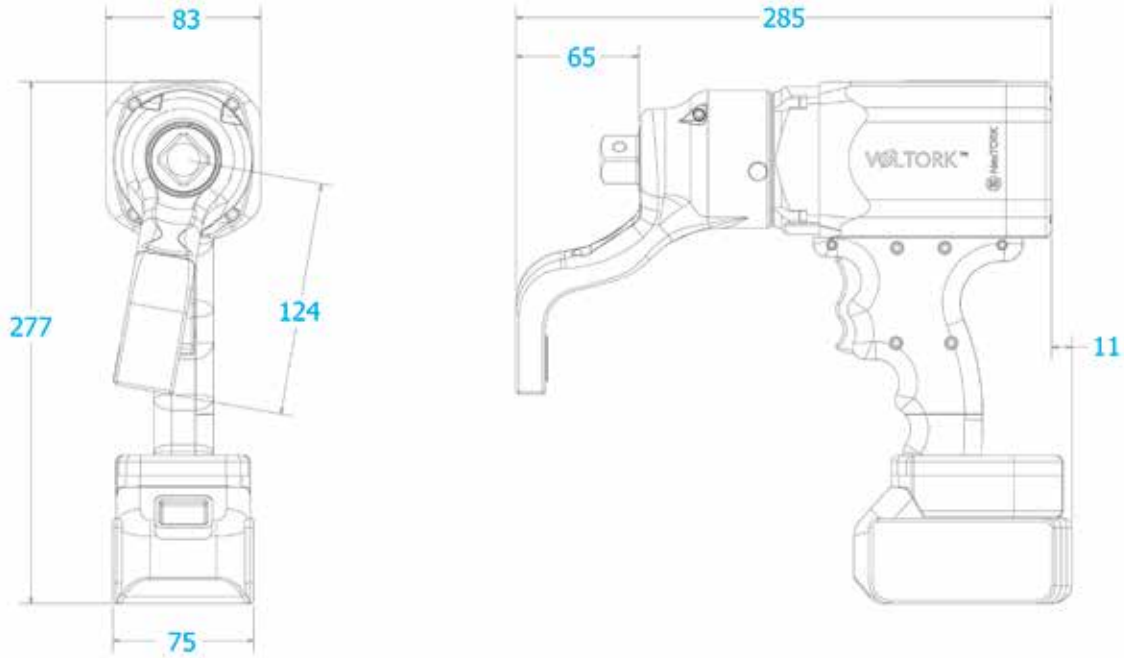
An ergonomic version featuring a detachable light-weight carry handle with integrated cable storage is also available as P/N NTA-000078 with a total weight of 6.5 lbs (2.9 Kg) (not including cable) This feature can also be added onto the low-profile version after purchase. Note the Power is delivered via a locally available computer power cable with an IEC 320-C13 connector (not included)



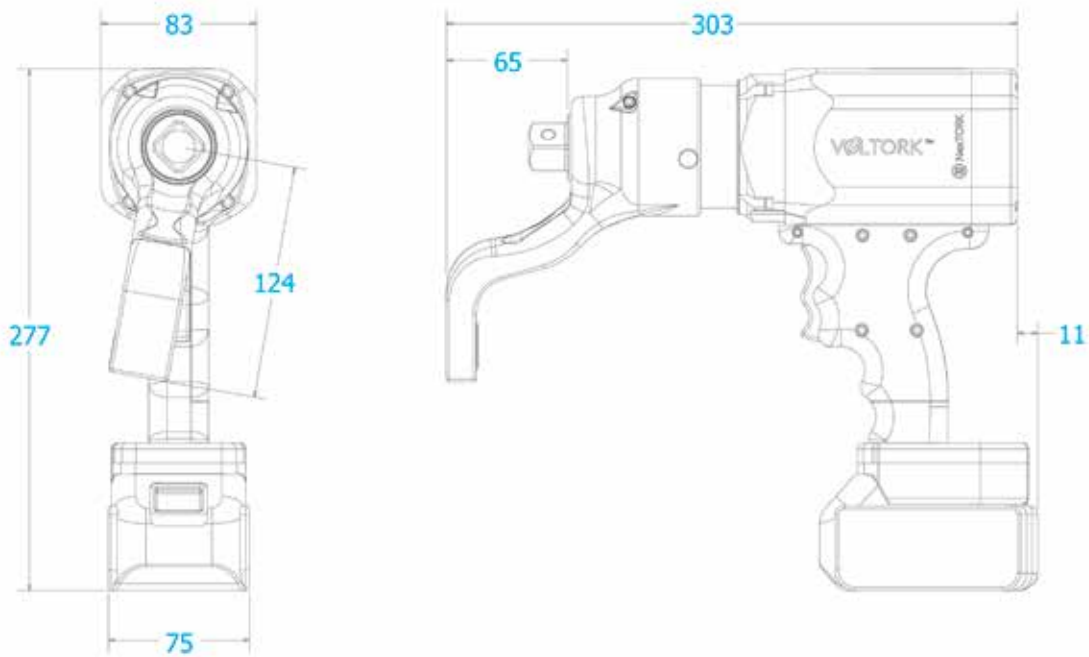
BOLTING & TORQUE SOLUTIONS

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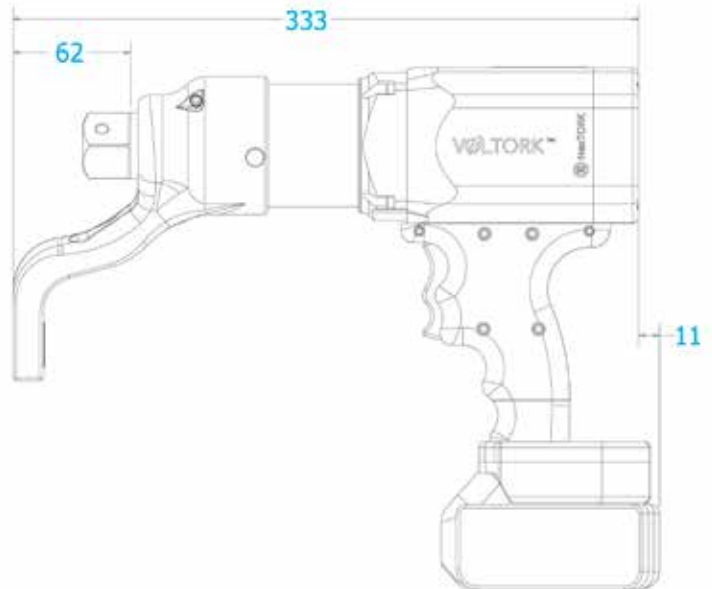
NT200B DIMENSIONS (MM)



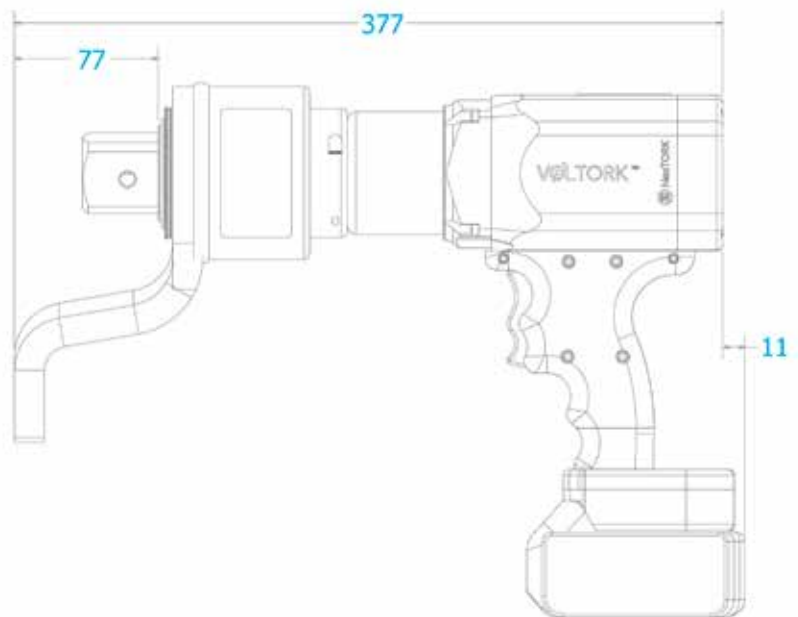
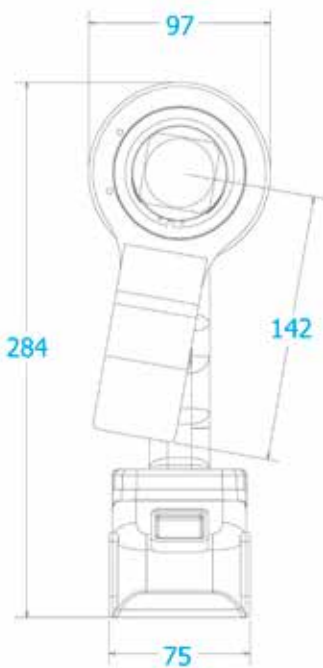
NT500B & NT800B DIMENSIONS (MM)



NT1300B DIMENSIONS (MM)



NT2600B DIMENSIONS (MM)



BOLTING & TORQUE SOLUTIONS

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EB SERIES

APPLICATIONS

- Alkitronic EB: Battery-driven torque multiplier from 170 Nm to 6,000 Nm /125 ft.lbs to 4,425 ft.lbs.
- Extremely mobile and always ready for use: Innovative product design for comfortable working - independent of external power supply.
- Permanent higher joint quality by continuous rotation of the square drive.

ADVANTAGES

- Ergonomic design: Ultra grippy housing for your safety and a secure bolting procedure.
- OLED-display: Anti-glare and high contrast – for perfect reading under all weather conditions.
- High quality bolting: The brushless synchronous motor with excellent efficiency and the smart processor-controlled automatic shutdown ensures amazing increased productivity and low running costs.
- Low noise emissions, no noise protection necessary.
- Alkitronic smart service: Enabling wireless documentation and information.
- Unique 1-finger trigger: Unbeatable efficiency through fast, simple change of direction of rotation.
- Maximum flexibility: Thanks to the application-specific, modular software packages from Alkitronic - e.g. bolting according to the torque/rotation angle method with adjustable min./max. torque limitation. Can also be retrofitted later if the bolting application changes.
- Repeat shut-off accuracy $\pm 3\%$ for the same bolting application. Alkitronic Specials
- Simple navigation: Intuitive interface drastically reduces operating errors and misadjustments.
- Health and safety first: Due to a new technology patented by Alkitronic the reaction torques are decoupled. This leads to an extreme reduction of radial forces on the wrist to 1 Nm and thus actively contributes to the occupational health and safety of the worker.
- Outstanding battery concept: Vast increase in operating time thanks to innovative switching from 4 to 6 Ah.

TECHNICAL DATA

Bolting programs:

The software suite 1 is pre-installed in the basic equipment. For user-specific applications, the manufacturer can activate optional modular software:

Software suite 1: Torque controlled bolting (standard)

Software suite 2: Torque/angle procedure for high-quality bolting connections

Premium: Torque/angle procedure with adjustable min./max. torque limitation

Software suite 3: Bolting with preset rotations and torque limit

Software suite 4: Bolting parameters according to individual customer requirements

Software suite 5: Bluetooth transmission via Alkitronic APP

Documentation of the bolted joints (target-actual status, recording for each joint)

alkitronic®



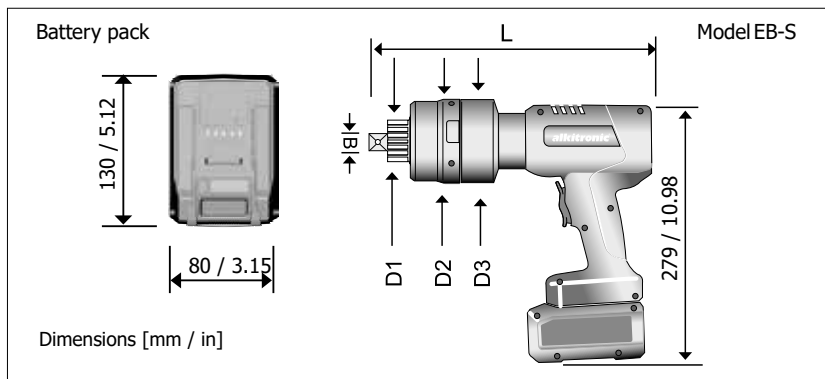
EB-S

NEW EB-S 2HO

The two-hand control design (requiring both hands on the tool to start) enhances operator safety and helps prevent accidental starts or operator injury, particularly in high-torque applications. Contact your Specialised Force representative for more information.



SPECIFICATIONS



Alkitronic DMA
Topology-optimised construction: very light and yet stable



MODELS EB-S

| Type | EB-S 80 | EB-S 150 | EB-S 180 | EB-S 250 | EB-S 350 | EB-S 400 | EB-S 480 | EB-S 600 |
|-----------------------------------|---------|----------|----------|----------|----------|----------|----------|----------|
| Torque ranges (approx.)* Nm | 110-850 | 150-1400 | 250-1800 | 350-2500 | 480-3500 | 560-4000 | 650-4800 | 800-6000 |
| ft.lbs | 90-620 | 110-1030 | 190-1330 | 260-1840 | 360-2580 | 410-2950 | 480-3540 | 590-4420 |
| Square drive B | 3/4" | 3/4" | 1" | 1" | 1" | 1" | 1 1/2" | 1 1/2" |
| Diameter (approx.) D1 mm | 41 | 41 | 54 | 54 | 54 | 54 | 72 | 72 |
| Diameter (approx.) D2 mm | 88 | 88 | 88 | 88 | 88 | 88 | 98 | 109 |
| Diameter (approx.) D3 mm | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 |
| Length (approx.) L mm | 330 | 330 | 375 | 382 | 382 | 382 | 400 | 407 |
| Weight without DMA** (approx.) kg | 5.3 | 5.3 | 6.7 | 7.3 | 7.3 | 7.3 | 9. | 10.5 |

*) When loosening bolts, a higher torque (up to 50 %) may be necessary (release torque). **) Torque reaction arm. We will be pleased to help you with your choice.

Scope of delivery in the machine case



Display views

Software suite 1 (mode 1) and software suite 2 (mode 2)

Mode 1 / M1 (Standard)



Bolting via torque. Automatic release according to pre-set angle degrees.

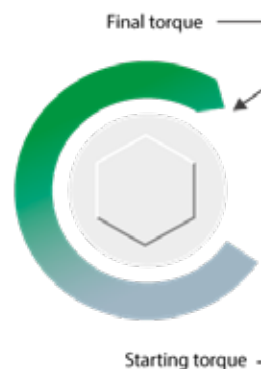
Mode 2 / M2 (Option)



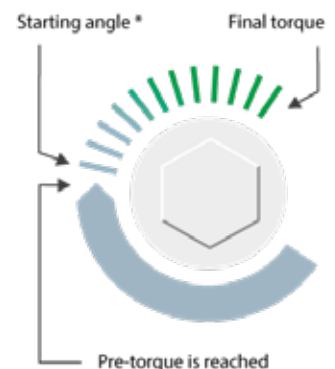
Torque/angle procedure for high-quality bolting connections. Display example of pre-torque, angle and release angle.

Scheme bolting programs Mode 1 und Mode 2

Torque controlled bolting mode 1



Torque/angle procedure mode 2



During the bolting process, the current torque value is shown in the display. Reaching the set value is indicated by an "OK". If the selected value cannot be achieved, the bolting operation is evaluated as "nOK".

* Information on rotational angle setting for torque/angle method.
• The angle of rotation is specified by the design for the bolting connection.
• The angle of rotation can be determined individually and easily with alkitronic[®] HSD. We will gladly provide you with detailed product information.

EC SERIES

alkitronic®

APPLICATIONS

- Alkitronic EC-S / EC-A electric torque multipliers from 75 to 6,530 Nm (55 to 4,815 ft.lbs).
- Consistent torque accuracy on all international power supplies 100 - 253 V / 45 - 66 Hz.
- Precise shut-off with on-site voltage-controlled portable generators.
- Models Alkitronic EC-A angled tools, low height for difficult access applications.

ADVANTAGES

- Safe interruption-free work in any weather (moisture, rain) - thanks to protection class IP54.
- Low running costs:
- Low-wear, maintenance-free, brushless synchronous motor.
- Permanent higher joint quality by continuous rotation of the square drive.
- Simple 1-finger trigger operation for forward and reverse.
- OLED-Display anti-glare and high contrast - for perfect reading under all weather conditions.
- Menu-guided intuitive operation, with control and warning signals.
- Ergonomic and comfortable operation:
- The 360 degree rotating handle prevents reaction forces being transferred to the operator.

ALKITRONIC SPECIALS

- High-quality bolting, according to torque/angle procedure.
- Highly innovative generation of electric torque multipliers with new sensorless control motor technology. Lower power consumption increases the service life of the electronic components.
- Repeat shut-off accuracy $\pm 2\%$ for the same bolting application.
- Precise reproduction of preselected torque through intelligent, processor-controlled motor with automatic shut-off.
- Longer service life: Low heat generation - thus highest reliability and almost no downtime.
- Robust and long lasting: Motor housing of cast aluminum.

TECHNICAL DATA

Bolting programs:

For user-specific applications, the manufacturer can activate optional modular software (Alkitronic EC-S / EC-A from serial number 712700).

- Software suite 1:** Torque controlled bolting (pre-installed)
- Software suite 2:** Torque/angle procedure for high-quality bolting connections
- Premium:** Torque/angle procedure with adjustable max. torque limit
- Software suite 3:** Bolting with preset rotations and torque limit
- Software suite 4:** Bolting parameters according to individual customer requirements
- Software suite 5:** Bluetooth transmission via Alkitronic APP
Documentation of the bolted joints
(target-actual status, recording for each joint)

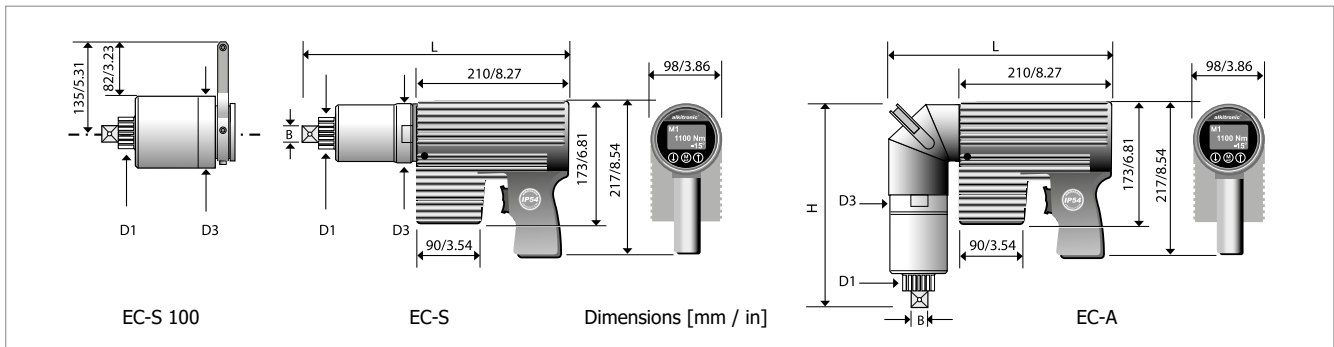
Special solution: Preset torque increment according to customer's requirement (10 Nm / 10 ft.lbs min). All Alkitronic torque multipliers with CE-certification.

Electrical data:

Universal AC input 100 V – 253 V, frequency 45 Hz – 66 Hz, power max. 1100 W, protection category I, protection class IP 54 (standard).



SPECIFICATIONS



MODELS EC-S

| Type | ECS 10 | ECS 20 | ECS 30 | ECS 35 | ECS 40 | ECS 50 | ECS 60 | ECS 65 | ECS 70 | ECS 80 | ECS 90 | ECS 100 |
|-----------------------------------|--------|--------|---------|----------|----------|----------|----------|----------|------------|----------|----------|----------|
| Torque range (approx.) * Nm | 75-420 | 80-680 | 100-940 | 150-1300 | 150-1590 | 190-1870 | 250-2340 | 290-2930 | 350-3470 | 440-4400 | 500-5300 | 650-6530 |
| ft.lbs | 55-305 | 60-500 | 75-690 | 110-960 | 110-1170 | 140-1380 | 185-1725 | 215-2160 | 260-2560 | 325-3245 | 370-3910 | 480-4815 |
| Square drive B | 3/4" | 3/4" | 3/4" | 3/4" | 1" | 1" | 1" | 1" | 1 / 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" |
| Diameter (approx.) D1 mm | 41 | 41 | 41 | 41 | 54 | 54 | 54 | 54 | 72 | 72 | 72 | 72 |
| Diameter (approx.) D3 mm | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 88 | 98 | 98 | 109 | 109 |
| Length (approx.) L mm | 330 | 330 | 330 | 352 | 382 | 382 | 388 | 388 | 406 | 406 | 405 | 430 |
| Weight without DMA** (approx.) kg | 9 | 9 | 9 | 9 | 10 | 10 | 11 | 11 | 13 | 13 | 14.5 | 15.5 |
| Idle speed rpm | 70 | 40 | 30 | 22 | 15 | 14 | 11 | 8 | 7 | 5 | 4 | 3 |

MODELS EC-A

| Type | ECA 50 | ECA 60 | ECA 65 | ECA 70 | ECA 80 | ECA 90 | ECA 100 |
|-----------------------------------|----------|----------|----------|------------|----------|----------|----------|
| Torque range (approx.) * Nm | 190-1870 | 250-2340 | 290-2930 | 350-3470 | 440-4400 | 500-5300 | 650-6530 |
| ft.lbs | 140-1340 | 185-1725 | 215-2135 | 260-2540 | 325-3205 | 370-3730 | 480-4800 |
| Square drive B | 1" | 1" | 1" | 1 / 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" |
| Diameter (approx.) D1 mm | 54 | 54 | 54 | 72 | 72 | 72 | 72 |
| Diameter (approx.) D3 mm | 88 | 88 | 88 | 98 | 98 | 109 | 109 |
| Length (approx.) L mm | 310 | 310 | 310 | 318 | 318 | 326 | 315 |
| Height (approx.) H mm | 300 | 305 | 305 | 315 | 315 | 345 | 350 |
| Weight without DMA** (approx.) kg | 14 | 14 | 14 | 16 | 16 | 17 | 18 |
| Idle speed rpm | 14 | 11 | 8 | 7 | 5 | 4 | 3 |

* When loosening bolts, a higher torque (up to 20 %) may be necessary (release torque). We will be pleased to help you with your choice. **) Torque reaction arm

Display views

Software suite 1 (mode 1) and software suite 2 (mode 2)

Mode 1 / M1 (Standard)



Bolting via torque. Automatic relief according to pre-set angle degrees.

Mode 2 / M2 (Option)



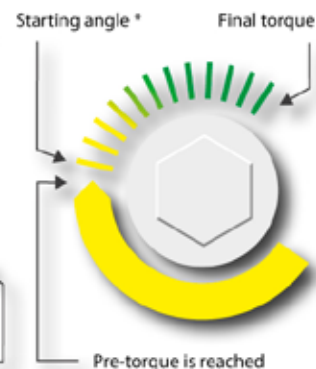
Torque/angle procedure for high-quality bolting connections. Display example of pre-torque, angle and loosening angle.

Scheme bolting programs

Torque controlled bolting mode 1



Torque/angle procedure mode 2



During the bolting process, the current torque value is shown in the display. Reaching the set value is indicated by an "OK". If the selected value cannot be achieved, the bolting operation is evaluated as "nOK".

* Information on rotational angle setting for torque/angle method:

- The angle of rotation is specified specifically for the bolting connection.
- The angle of rotation can be determined individually and easily with alkitronic * HSD. We will gladly provide you with detailed product information.

EF SERIES

alkitronic®

APPLICATIONS

- Alkitronic EF-S electrical torque multipliers for torques of 430 to 42,000 Nm (315 to 30,980 ft.lbs).
- Consistent torque accuracy on all international power supplies.
- Precise shut-off torque also operates with voltage-controlled portable generators.
- Models Alkitronic EF-A in angled design with high operating comfort in confined spaces for torques of 900 to 9,800 Nm (665 to 7,230 ft.lbs).

ADVANTAGES

- Low running costs due to maintenance-free, low-wear, brushless synchronous motor with excellent efficiency.
- High motor speed: Up to three times faster than conventional electrical torque multipliers.
- Permanent higher joint quality compared to ratchet torque tools by continuous rotation of the square drive.
- Menu-guided intuitive operation, with control and warning signals.
- OLED-Display anti-glare and high contrast - for perfect reading under all weather conditions.
- Comfortable working due to the 360° rotatable motor unit, hardly any reaction forces are transmitted to the user.

ALKITRONIC SPECIALS

- Quality bolting with torque/angle method.
- Innovative motor protection with automatic shutdown to ensure bolting quality.
- Intelligent processor-controlled shut-off electronics for constant exact reproduction of the preselected torque.
- Repeat shut-off accuracy $\pm 2\%$ for the same bolting application.
- Exceptionally robust motor housing (aluminum alloy).
- For safe, comfortable tool guidance, model-specific operating and holding handles are included in the scope of delivery. These can be mounted as required at several fastening points provided.

TECHNICAL DATA

All Alkitronic electric torque multipliers have CE-certification. Universal AC input 100 V - 253 V, frequency 45 Hz - 66 Hz, power max. 1400 W. Protection category I.

Bolting programs:

For user-specific applications, modular software packages can be optionally purchased.

- Software suite 1:** Torque controlled bolting (standard)
- Software suite 2:** Torque/angle procedure for high-quality bolting connections
- Premium:** Torque/angle procedure with adjustable min./max. torque limitation
- Software suite 3:** Bolting with preset rotations and torque limit
- Software suite 4:** Bolting parameters according to individual customer requirements
- Software suite 5:** Bluetooth transmission via Alkitronic APP
Documentation of the bolted joints (target-actual status, recording for each joint)

Software suite 1 is pre-installed in the basic equipment. The setting steps of the torque values are in increments of 10 Nm or 10 ft.lbs.



Display views

Software suite 1 (mode 1) and software suite 2 (mode 2)

Mode 1 / M1 (Standard)



Bolting via torque. Automatic release according to pre-set angle degrees.

Mode 2 / M2 (Option)

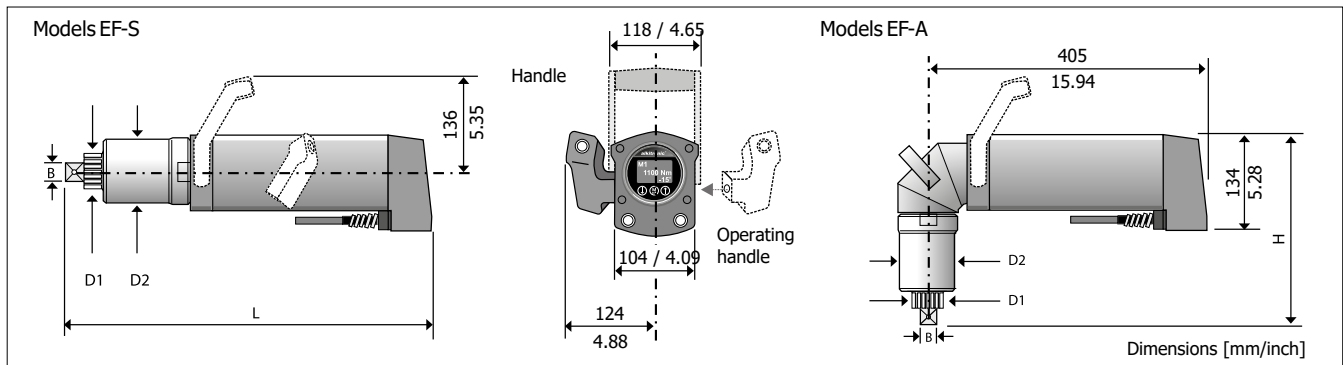


Torque/angle procedure for high-quality bolting connections. Display example of pre-torque, angle and release angle.

During the bolting process, the current torque value is shown in the display. Reaching the set value is indicated by an "OK". If the selected value cannot be achieved, the bolting operation is evaluated as "nOK".

SPECIFICATIONS

alkitronic®



MODELS EF-S

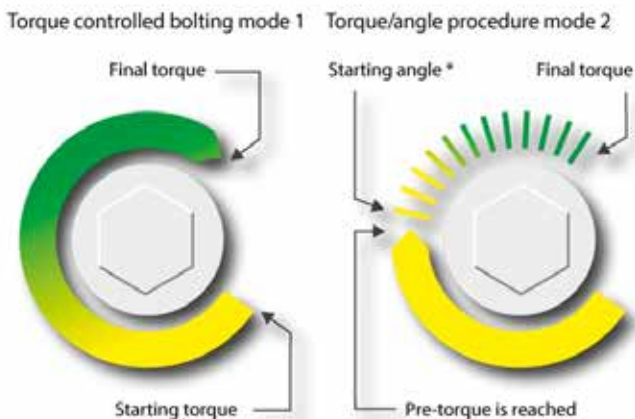
| Type | EFS 250 | EFS 300 | EFS 400 | EFS 600 | EFS 800 | EFS 1000 | EFS 2000 | EFS 4000 |
|-----------------------------------|----------|----------|----------|-----------|-----------|-----------|------------|------------|
| Torque range (approx.)* Nm | 430-2700 | 500-3100 | 900-4300 | 1150-6200 | 2000-7800 | 2050-9500 | 3500-20600 | 6200-42000 |
| ft.lbs | 315-1990 | 370-2285 | 665-3170 | 850-4575 | 1475-5755 | 1510-7010 | 2580-15195 | 4575-30980 |
| Square drive B | 1" | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" | 2 1/2" | 2 1/2" |
| Diameter (approx.) D1 mm | 54 | 72 | 72 | 72 | 72 | 91 | SW 120 | SW 120 |
| Diameter (approx.) D2 mm | 85 | 98 | 98 | 109 | 133 | 173 | 275 | 275 |
| Length (approx.) L mm | 515 | 535 | 535 | 5506 | 550 | 565 | 760 | 760 |
| Weight without DMA** (approx.) kg | 13 | 14 | 14.5 | 16 | 19.5 | 27 | 60 | 62 |
| Idle speed rpm | 10 | 8 | 6 | 5 | 4 | 3 | 1 | 0.7 |

MODELS EF-A

| Type | EFA 400 | EFA 600 | EFA 800 | EFA 1000 |
|---------------------------------|----------|-----------|-----------|-----------|
| Torque range (approx.)* Nm | 900-4300 | 1150-6200 | 1060-8000 | 2050-9800 |
| ft.lbs | 665-3170 | 850-4575 | 780-5900 | 1510-7230 |
| Square drive B | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" |
| Diameter (approx.) D1 mm | 72 | 72 | 72 | 91 |
| Diameter (approx.) D2 mm | 98 | 109 | 133 | 173 |
| Height (approx.) H mm | 320 | 350 | 350 | 380 |
| Weight without DMA (approx.) kg | 15.5 | 17.5 | 20 | 29 |
| Idle speed rpm | 5 | 4 | 3 | 2 |

*) When loosening bolts, a higher torque (up to 20 %) may be necessary (release torque). We will be pleased to help you with your choice. **) Torque reaction arm

Scheme bolting programs



- * Information on rotational angle setting for torque/angle method.
- The angle of rotation is specified by the design for the bolting connection.
- The angle of rotation can be determined individually and easily with alkitronic® HSD. We will gladly provide you with detailed product information.

Accessories: Remote control with operating handles



The alkitronic® EF bolting system. Extremely flexible with the alkitronic® remote control as an accessory: alkitronic® FB - EF - cable length 5 m or 10 m

BOLTING & TORQUE SOLUTIONS

specialisedforce.com.au

PC SERIES

APPLICATIONS

- Continuous rotation, tightening, or loosening for all heavy duty fastening connections.
- Perfect for bolted applications in hazardous, explosive environments.
- Alkitronic PC-F quick, compact torque multiplier for torques of 55 to 2,555 ft.lbs (75 to 3,460 Nm).
- Alkitronic PC-S comfortable torque multiplier with rotating handle for torques of 225 to 7,225 ft.lbs (305 to 9,795 Nm).
- Alkitronic PC-F2 high-performance 2-gear machine for torques of 90 to 35,855 ft.lbs (120 to 48,610 Nm).

ADVANTAGES

- Permanently higher joint quality (compared to impact and hydraulic wrenches) by continuous rotation of the square drive.
- Alkitronic PC-S - the 360 degree rotating handle ensures comfortable operation. Barely any reaction forces are transferred to the user.
- Alkitronic PC-F2 with fast gear for turning in and simple, quick switching to power gear (is used for applying the final torque).

ALKITRONIC SPECIALS

- Simple 1-finger operation for right/left rotation, option to enable the reaction to be locked in one position.
- Robust cast aluminum housing with proven pneumatic drive.
- Proven high-performance gears, produced in a chip-free, highprecision process produce high loads with low wear.
- Alkitronic PC-F2 with uniquely high torque - 35,855 ft.lbs. (48,610 Nm).
- Optional silencer levels to reduce the noise from the motor exhaust on request.

TECHNICAL DATA

On request, you will receive our pneumatic multipliers with ATEX Certification. Prerequisites for best work with the indicated torques are an operating pressure of 29-101 psi (2-7 bar) at a volumeflow of approx. 21.2-31.8 cfm (10-15 l/sec). The torque accuracy depends on the stability of the supply system.

alkitronic®



PC-F

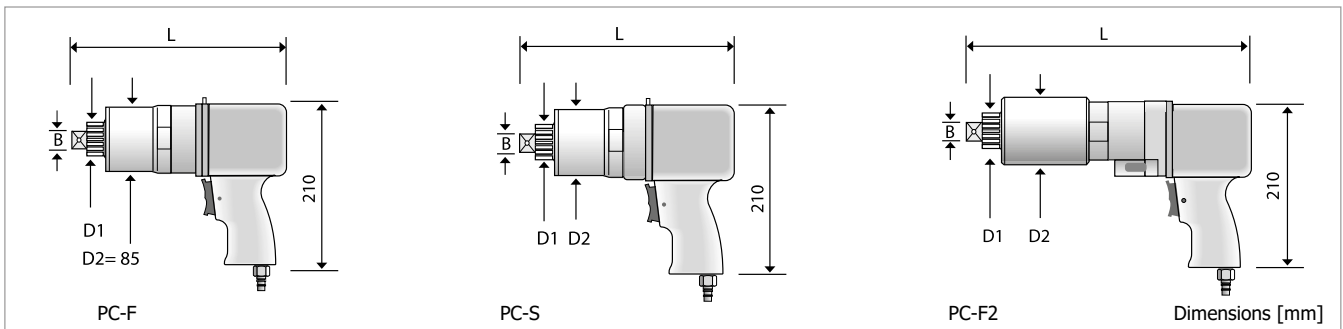


Alkitronic PC-F2, 2-gear pneumatic torque multiplier. Mechanically switchable from fast gear to power gear.

Alkitronic PC-S torque multipliers in use (figures on the right). Screw connections at a bolt circle and a diesel unit for large construction machines



SPECIFICATIONS



MODELS PC-F

| Type | PC-F 15 | PC-F 25 | PC-F 35 | PC-F 45 | PC-F 75 | PC-F 95 | PC-F 135 | PC-F 175 | PC-F 255 | PC-F 315 |
|--------------------------------|-------------|-------------|---------|---------|---------|----------|----------|----------|----------|-----------|
| (formerly) | CLS 15 | CLS 25 | CLS 35 | CLS 45 | CLS 75 | CLS 95 | CLS 135 | CLS 175 | CLS 255 | CLS 315 |
| Torque range (approx.)* Nm | 75-225 | 95-280 | 135-390 | 165-485 | 305-895 | 365-1080 | 495-1450 | 645-1900 | 910-2670 | 1180-3460 |
| Square drive B | 1/2" / 3/4" | 1/2" / 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 1" | 1" | 1" | 1" |
| Diameter (approx.) D1 mm | 41 | 41 | 41 | 41 | 41 | 41 | 54 | 54 | 54 | 54 |
| Length (approx.) L mm | 255 | 255 | 255 | 255 | 277 | 277 | 300 | 300 | 330 | 330 |
| Weight without DMA (approx) kg | 6 | 6 | 6 | 6 | 7 | 7 | 8 | 8 | 8.5 | 8.5 |
| Idle speed rpm | 60 | 38 | 34 | 27 | 19 | 13 | 9 | 7 | 6 | 4 |

MODELS PC-S

| Type | PC-S 85 | PC-S 105 | PC-S 125 | PC-S 175 | PC-S 225 | PC-S 280 | PC-S 380 | PC-S 580 | PC-S 780 | PC-S 980 |
|---------------------------------|---------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|
| (formerly) | CLD 85 | CLD 105 | CLD 125 | CLD 175 | CLD 225 | CLD 280 | CLD 380 | CLD 580 | CLD 780 | CLD 980 |
| Torque range (approx.) *Nm | 305-895 | 365-1080 | 495-1450 | 645-1900 | 910-2670 | 1180-3460 | 1490-4380 | 2080-6115 | 2610-7675 | 3330-9795 |
| Square drive B | 3/4" | 3/4" | 3/4" | 1" | 1" | 1" | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" |
| Diameter (approx.) D1 mm | 41 | 41 | 41 | 54 | 54 | 54 | 72 | 72 | 72 | 91 |
| Diameter (approx.) D2 mm | 85 | 85 | 85 | 85 | 85 | 85 | 98 | 109 | 133 | 173 |
| Length (approx.) L mm | 275 | 275 | 275 | 300 | 300 | 300 | 320 | 350 | 350 | 370 |
| Weight without DMA (approx.) kg | 7 | 7 | 7 | 7 | 8.5 | 8.5 | 10.5 | 13 | 15 | 25 |
| Idle speed rpm | 19 | 13 | 9 | 7 | 5 | 4 | 3 | 2 | 1.5 | 1 |

MODELS PC-F2

| Type | PC-F2/100 | PC-F2/150 | PC-F2/300 | PC-F2/400 | PC-F2/600 | PC-F2/800 | PC-F2/1000 | PC-F2/3400 | PC-F2/4800 |
|-------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|-------------|-------------|
| (formerly) | CLS2100 | CLS2150 | CLS2300 | CLS2400 | CLS2600 | CLS2800 | CLS21000 | CLS23400 | CLS24800 |
| Torque range 2nd gear (approx.) *Nm | 120-355 | 170-505 | 385-1130 | 540-1585 | 840-2470 | 1010-2965 | 1175-3455 | 3310-9720 | 4725-13890 |
| Torque range 1st gear (approx.) *Nm | 380-1125 | 550-1615 | 1225-3595 | 1720-5055 | 2675-7865 | 3210-9435 | 3745-11010 | 11575-34025 | 16540-48610 |
| Square drive B | 3/4" | 1" | 1" | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" | 2 1/2" | 2 1/2" |
| Diameter (approx.) D1 mm | 41 | 54 | 54 | 72 | 72 | 72 | 91 | TBA | TBA |
| Diameter (approx.) D2 mm | 85 | 85 | 85 | 98 | 109 | 133 | 173 | TBA | TBA |
| Length (approx.) L mm | 330 | 330 | 360 | 380 | 410 | 410 | 430 | TBA | TBA |
| Weight without DMA (approx.) kg | 7 | 7.5 | 9 | 11 | 12 | 16 | 24 | 58 | 58 |
| Idle speed 2nd gear rpm | 36 | 21 | 15 | 9 | 6 | 5 | 4 | TBA | TBA |
| Idle speed 1st gear rpm | 12 | 7 | 5 | 3 | 2 | 1.5 | 1 | | TBA |

*) When loosening a bolted connection, up to 20% higher torque may be required (loosening torque). We will gladly advise you with details.

ACCESSORIES

Maintenance Unit, complete with filter, regulator, oiler and 5 m hose, incl. couplings.

Prerequisites for best work with the indicated torques are an operating pressure of 2-7 bar at a volume flow of approx. 10-15 l/s. The torque accuracy depends on the stability of the supply system. The torque control of the pneumatic Alkitronic torque multiplier takes place via the air supply or pressure regulator of the Maintenance Unit.



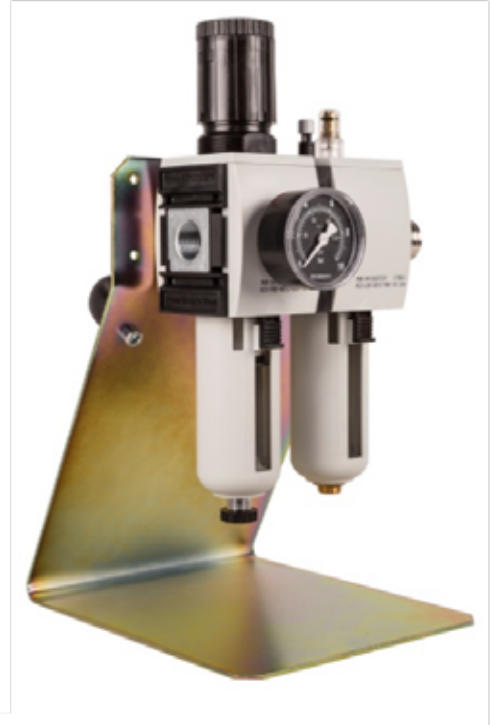
ALKITRONIC 20350F MAINTENANCE UNIT



APPLICATION AND ADVANTAGES

Alkitronic pneumatic torque wrenches have adjustable torque which can be controlled by varying the input air pressure to the tool. The more accurately the air pressure is controlled the more accurate the tool output torque.

20350F Maintenance Unit is supplied with a metal stand, high quality Rexroth Filter Regulator-lubricator, 5 metre long air hose for connection between maintenance unit and tool via Cejn quick disconnect airline couplings. Filled with special oil and gauge shows PSI and bar.



Pressure control valve Button for filling the oiler by suction on the lower part of the container



Connection for oil extraction and filling

Art. No. 20350 - Maintenance unit complete including 5 m hose, bracket and special oil



FLANGE BOY

APPLICATION AND ADVANTAGES

- Easy and safe mechanical separation of piping flanges.
- All parts manufactured with highest quality materials.
- FLANGE BOY is proven in international tests.

OPERATION INSTRUCTIONS

Insert the FLANGE BOY in one of the bolt holes of a flange. Slip the bolt support plate, which is held by a chain, between the flange facings underneath the setscrew. Once the FLANGE BOY is jammed tight, continue turning with a wrench until a position is reached where a gasket can be replaced or a spade set. Then, slacken back the setscrew to the point where the support plate can be removed and tap the setscrew with a hammer to free the FLANGE BOY from the bolt hole. Recommend the use of two FLANGE BOYS in cases where the transfer of very great force is required. Insert the second FLANGE BOY in the corresponding hole of the companion flange. The force, applied will act on the same support plate. You will, thus, be able to apply heavy loads without risking damage to the support plate. Due to the flange proportions, it is not possible to increase the thickness of the support plate.

Do not load a plate on side while using great force!

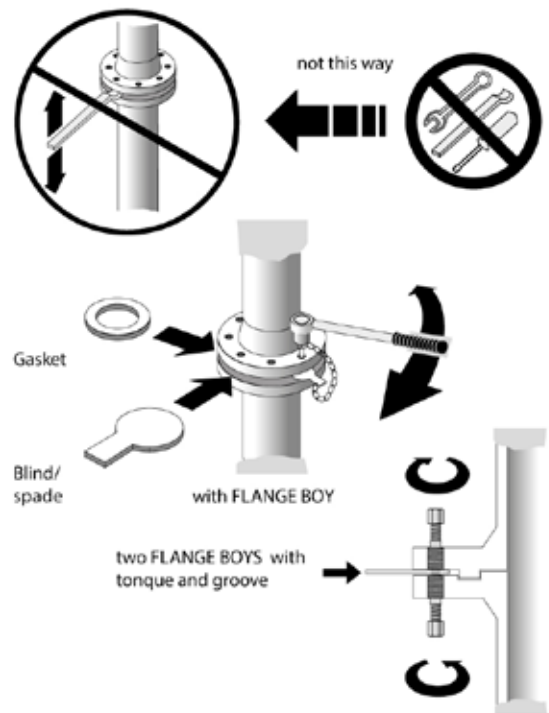
Grease the threads well before using!

Warning: To avoid serious injuries, never put your fingers between the separated flanges!

SPECIFICATIONS

| DIN Flange Dimensions (further sizes - upon request) | | | | | | | | |
|--|------------------|----------|----------|----------|----------|----------|-----------|-----------|
| Type | Bolt hole (Ø mm) | PN 10 DN | PN 16 DN | PN 25 DN | PN 40 DN | PN 64 DN | PN 100 DN | PN 160 DN |
| D 18 | 18 | 32-125 | 32-125 | 32-80 | 32-80 | 20-25 | 20-25 | 20-25 |
| D 22 | 22 | 150-350 | 150-200 | 100 | 100 | 32-80 | 32-40 | 32-40 |
| D 26 | 26 | 400-500 | 250-300 | 125-200 | 125-150 | 100 | 50-80 | 50-80 |
| D 30 | 30 | | 400 | 250-350 | 200 | 125 | 100 | 100 |
| D 33 | 33 | | | 350 | 250-300 | 150 | 150-175 | 125-150 |
| D 36 | 36 | | | 400 | 350 | 200-300 | 200 | 200 |
| D 39 | 39 | | | | 400 | 350 | 250 | |
| D 42 | 42 | | | | | 400 | 300 | 250-300 |

| ANSI (ASA) Flange and British Standard Flange Dimensions (further sizes - upon request) | | | | | | |
|---|------------------|-----------------|--------------------|-----------------|-----------------|------------------|
| Type | Bolt hole (Ø mm) | 150 lbs DN/Inch | 300 lbs DN/Inch | 600 lbs DN/Inch | 900 lbs DN/Inch | 1500 lbs DN/Inch |
| A 3/4 | 19 | 2, 2½, 3, 4 | ¾, 1, 2 | ¾, 1, 1¼, 2 | | |
| A 7/8 | 22 | 5, 6, 8 | 1, 1½, 2½, 3, 4, 6 | 1½, 2½, 3 | ½, ¾ | ½, ¾ |
| A 1 | 25 | 10, 12 | 8 | 4 | 1, 2, 3 | 1, 2 |
| A 1 1/8 | 28 | 14, 16 | 10 | 6 | 1½, 2½ | 1½, 2½ |
| A 1 1/4 | 32 | 18, 20 | 12, 14 | 8 | 4, 6 | 3 |
| A 1 3/8 | 35 | 24 | 16, 18, 20 | 10, 12 | | 4 |
| A 1 1/2 | 38 | | 14 | 8, 10, 12 | 6 | |
| A 1 5/8 | 41 | | 24 | 16 | 14 | |



Indispensable for separation of piping for DIN, ANSI (ASA) and B. Std. Flanges



DBP Nr. 2522817 • US Patent No. 4015324

BOLTING & TORQUE SOLUTIONS

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OZITO BATTERY KIT TO SUIT ALKITRONIC EB SERIES



| Model No. | 13176 | 131175 |
|-------------|-------------------------|--------------------|
| Description | Ozito 18V Battery 5.2Ah | Ozito 230V Charger |



METABO BATTERY KIT TO SUIT ALKITRONIC EAF SERIES

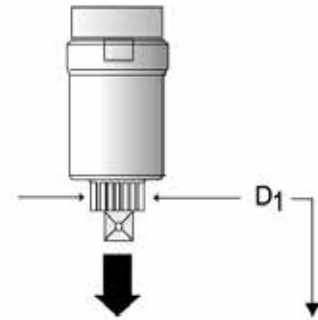
| Model No. | 13102 | 13103 |
|-------------|--------------------------|---------------------|
| Description | Metabo 18V Battery 5.2Ah | Metabo 230V Charger |



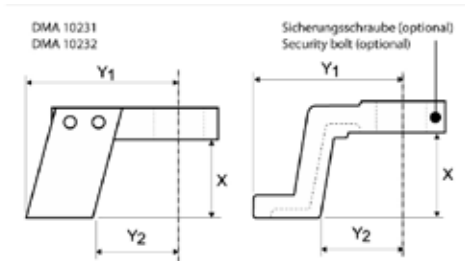
**ALKITRONIC DMA
REACTION DEVICES**



DMA 10241

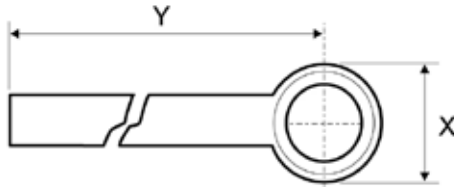


REACTION FOOT



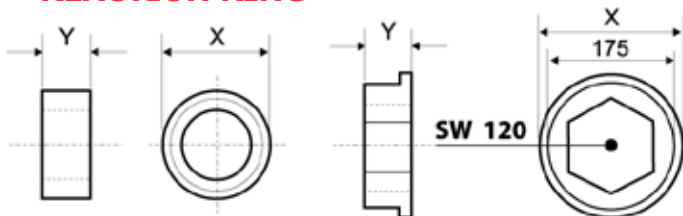
| Square drive | mm D1 | mm X | mm Y ₁ | mm Y ₂ | Nm max. MD | DMA No. |
|--------------|-------|------|-------------------|-------------------|------------|---------|
| 3/4" | 41 | 61 | 120 | 69 | 1500 | 10231 |
| 3/4" | 41 | 98 | 130 | 79 | 1500 | 10232 |
| 3/4" | 41 | 65 | 130 | 50 | 1500 | 10241 |
| 1" | 54 | 83 | 150 | 55 | 4000 | 10243 |
| 1", 1 1/2" | 72 | 85 | 194 | 110 | 5000 | 10234 |
| 1 1/2" | 72 | 120 | 212 | 116 | 8500 | 10256 |
| 1 1/2" | 91 | 123 | 215 | 120 | 11500 | 10257 |

TOWARD SUPPORT



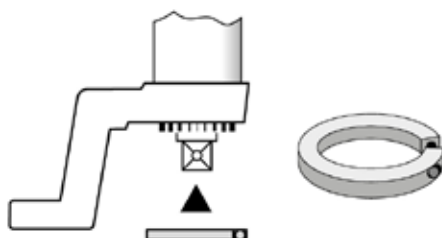
| | D ₁ | X | Y | DMA No. |
|--------|----------------|-----|-----|---------|
| 3/4" | 41 | 65 | 240 | 10261 |
| 1" | 54 | 80 | 240 | 10262 |
| 1 1/2" | 72 | 105 | 240 | 10265 |
| 1 1/2" | 91 | 105 | 240 | 10267 |

REACTION RING



| | D ₁ | X | Y | DMA No. |
|--------|----------------|-----|----|---------|
| 3/4" | 41 | 65 | 28 | 10246 |
| 1" | 54 | 80 | 28 | 10247 |
| 1 1/2" | 72 | 110 | 33 | 10248 |
| 1 1/2" | 72 | 110 | 47 | 10249 |
| 1 1/2" | 91 | 130 | 52 | 10250 |
| 2 1/2" | SW 120 | 180 | 57 | 10416 |

SECURITY RING



| D ₁ | DMAR No. |
|----------------|----------|
| 41 | 10271 |
| 54 | 10272 |
| 72 | 10275 |
| 91 | 10277 |

TW-SERIES SQUARE DRIVE TORQUE WRENCHES



OVERVIEW

The TW-series square drive hydraulic torque wrenches are compact, easy to use and versatile. The titanium-aluminium alloy and super high strength steel alloy construction means increased strength and durability while minimising weight. TW-Series torque wrenches are available in ¾" to 2 ½" square drive models, with a torque range from 112 to 72,000 Newton Metres (82 to 53,280 ft/lbs). All models are fitted with a 360° swivel coupler and screw couplings.



All wrenches supplied with a calibration certificate of accuracy, traceable to international standards. Refer to Calibration & Certification section at the rear of the catalogue.



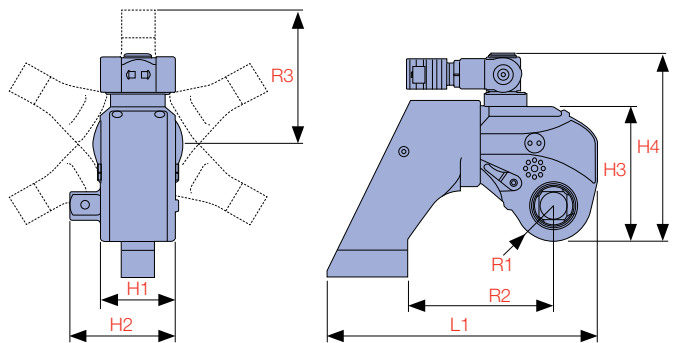
EXTENDED REACTION ARM
available as an optional extra

REVERSIBLE SQUARE DRIVE
for tightening and loosening applications

360° SWIVEL COUPLERS
with screw couplings

ADJUSTABLE CARRY HANDLE
for enhanced efficiency and accuracy

TITANIUM ALUMINIUM ALLOY
and super high strength steel construction



SPECIFICATIONS

| Model No. | Square Drive | Range of Torque @ 700 bar (Nm) | Range of Torque @ 700 bar (ft/lb) | Bolt Size Range (mm) | Dimensions (mm) | | | | | | | | Weight (kg) |
|-----------|--------------|--------------------------------|-----------------------------------|----------------------|-----------------|-----|-------|-------|-------|------|-------|-------|-------------|
| | | | | | L1 | H1 | H2 | H3 | H4 | R1 | R2 | R3 | |
| TW07 | ¾" | 112 - 1,120 | 82 - 829 | 14 - 30 | 139.3 | 42 | 65.8 | 76.2 | 119 | 20.5 | 68.3 | 76 | 1.6 |
| TW1 | ¾" | 183 - 1,837 | 135 - 1,359 | 16 - 36 | 173 | 50 | 71.9 | 95.5 | 138.3 | 26 | 84.5 | 91.5 | 2.6 |
| TW3 | 1" | 451 - 4,512 | 334 - 3,346 | 22 - 48 | 244 | 68 | 95.3 | 127 | 176.5 | 34 | 131.3 | 125.8 | 5.4 |
| TW5 | 1-1/2" | 752 - 7,528 | 557 - 5,571 | 27 - 56 | 285.5 | 80 | 122.9 | 149 | 198.5 | 39 | 158 | 141 | 8.7 |
| TW8 | 1-1/2" | 1,078 - 10,780 | 797 - 7,977 | 30 - 64 | 311 | 90 | 130.5 | 167 | 216.5 | 47 | 171 | 165 | 11.7 |
| TW10 | 1-1/2" | 1,551 - 15,516 | 1,148 - 11,482 | 36 - 72 | 339.7 | 100 | 140.8 | 182 | 231.5 | 51 | 174 | 170.3 | 14.8 |
| TW15 | 2-1/2" | 2,063 - 20,627 | 1,521 - 15,213 | 39 - 80 | 395 | 110 | 178.7 | 200.4 | 249.9 | 55 | 222.5 | 201.5 | 22 |
| TW20 | 2-1/2" | 2,666 - 26,664 | 1,973 - 19,731 | 42 - 90 | 450.8 | 120 | 188.2 | 220 | 269.5 | 59 | 250.5 | 216.5 | 27.8 |
| TW25 | 2-1/2" | 3,472 - 34,725 | 2,569 - 25,697 | 48 - 100 | 459.2 | 137 | 199.8 | 247 | 296.5 | 66 | 250.5 | 224.1 | 35.5 |
| TW35 | 2-1/2" | 4,866 - 48,666 | 3,601 - 36,013 | 64 - 120 | 495.5 | 153 | 215.6 | 282 | 331.5 | 77 | 279 | 237.6 | 49.4 |
| TW50 | 2-1/2" | 7,200 - 72,000 | 5,328 - 53,280 | 72 - 125 | 418.5 | 160 | 222.6 | 290.5 | 340 | 81 | 258.5 | 258 | 90 |

LPC-SERIES LOW PROFILE TORQUE WRENCHES



OVERVIEW

The LPC-Series low profile hydraulic hexagon torque wrenches are an essential tool for limited clearance applications. The versatile LPC-Series torque wrenches support an extensive range of interchangeable hexagon ratchet cassettes that deliver a torque range of 232 to 44,593 Newton Metres (172 to 32,999 ft/lbs).



All wrenches supplied with a calibration certificate of accuracy, traceable to international standards. Refer to Calibration & Certification section at the rear of the catalogue.



TW RANGE
112 - 72,000 Nm

LPC RANGE
232 - 44,593 Nm

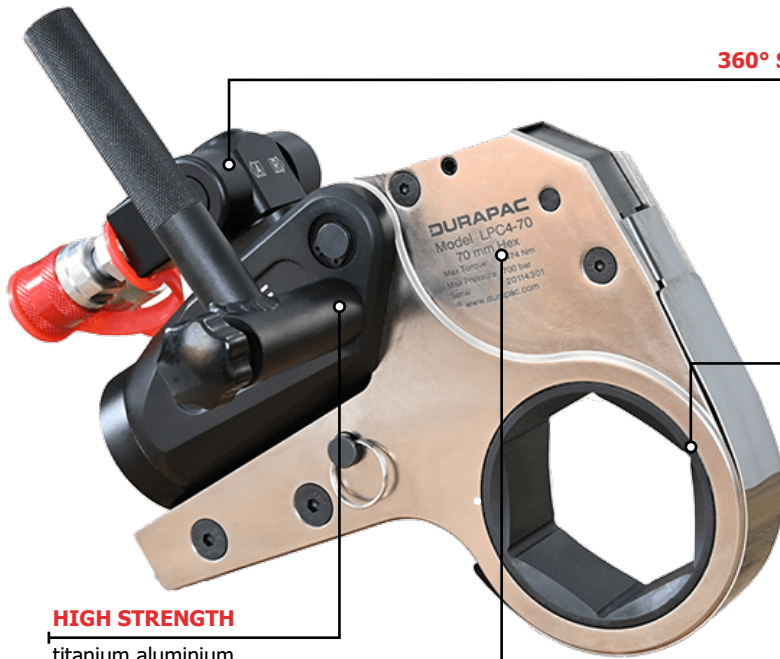
MAXIMUM OPERATING PRESSURE
700 bar

360° SWIVEL COUPLERS
with screw couplings

ACCURACY
within + / - 3%

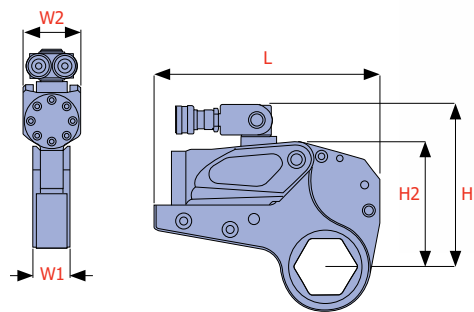
WIDE RANGE
of metric and imperial interchangeable hexagon ratchet cassettes available

REDUCER INSERTS
are available in metric and imperial sizes



HIGH STRENGTH
titanium aluminium alloy body

LASER ENGRAVED
hexagon ratchet cassettes show model number, serial number and maximum capacity

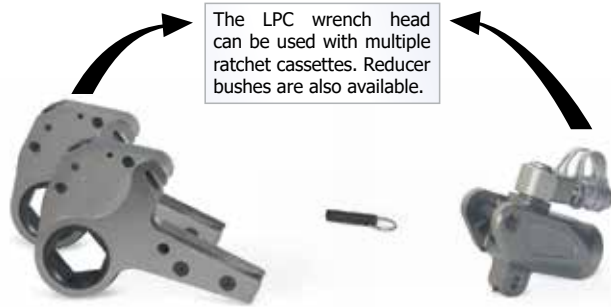
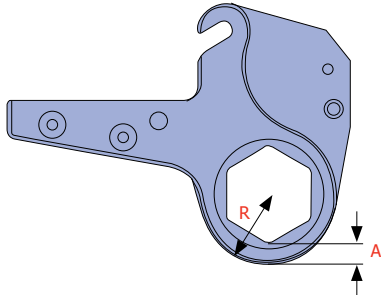


SPECIFICATIONS

| Model No. | Range of Torque (Nm) @ 700 bar | Range of Torque (lbf.ft) @ 700 bar | Hexagon Size Range (mm) | Hexagon A/F Size Range | L (mm) | H1 (mm) | H2 (mm) | W1 (mm) | W2 (mm) | Weight Of Power Head (kg) | * Weight Of Hexagon Cassettes (kg) |
|--------------|--------------------------------|------------------------------------|-------------------------|------------------------|--------|---------|---------|---------|---------|---------------------------|------------------------------------|
| LPC2 | 232-2,328 | 172-1,723 | 19-55 | 3/4" - 2-3/16" | 197 | 126 | 102 | 32 | 51 | 1.0 | 1.6 |
| | 241-2,414 | 178-1,786 | 60 | 2-3/8" | 197 | 129 | 105 | 32 | 51 | 1.0 | 1.7 |
| LPC4 | 585-5,858 | 433-4,335 | 34-65 | 1-7/16" - 2-9/16" | 245 | 177 | 136 | 42 | 66 | 2.0 | 4.4 |
| | 647-6,474 | 479-4,791 | 70-80 | 2-3/4" - 3-1/8" | 246 | 187 | 146 | 42 | 66 | 2.0 | 4.6 |
| LPC8 | 1,094-10,941 | 809-8,096 | 41-95 | 1-5/8" - 3-7/8" | 300 | 207 | 169 | 53 | 83 | 3.3 | 8.0 |
| | 1,177-11,774 | 871-8,713 | 100-105 | 4-1/4" | 301 | 216 | 178 | 53 | 83 | 3.3 | 8.4 |
| LPC14 | 1,852-18,521 | 1,370-13,706 | 50-117 | 2" - 4-5/8" | 361 | 239 | 204 | 64 | 99 | 5.5 | 11.6 |
| LPC30 | 4,188-41,882 | 3,099-30,993 | 85-155 | 3-1/2" - 6-1/8" | 430 | 303 | 272 | 85 | 131 | 11.4 | 29.0 |
| | 4,459-44,593 | 3,299-32,999 | 160-175 | 6-1/2" - 6-7/8" | 441 | 315 | 285 | 85 | 131 | 11.4 | 30.0 |

* Weight of hexagon ratchet cassettes will vary by model ordered

LPC-SERIES LOW PROFILE TORQUE WRENCHES



METRIC HEXAGON CASSETTE TABLE

| Bolt Diameter (mm) | A/F Size (mm) | LPC2 | R (mm) | A (mm) | Max. Torque (Nm) | LPC4 | R (mm) | A (mm) | Max. Torque (Nm) | LPC8 | R (mm) | A (mm) | Max. Torque (Nm) | LPC14 | R (mm) | A (mm) | Max. Torque (Nm) |
|--------------------|---------------|---------|--------|--------|------------------|---------|--------|--------|------------------|----------|--------|--------|------------------|-----------|--------|--------|------------------|
| 12 | 19 | LPC2-19 | 27 | 16 | 1,663 | | | | | | | | | | | | |
| 14 | 22 | LPC2-22 | 27 | 14 | 1,663 | | | | | | | | | | | | |
| 18 | 27 | LPC2-27 | 27 | 11 | 1,929 | | | | | | | | | | | | |
| 20 | 30 | LPC2-30 | 29 | 12 | 2,328 | | | | | | | | | | | | |
| 32 | LPC2-32 | 29 | 11 | 2,328 | | | | | | | | | | | | | |
| 22 | 34 | LPC2-34 | 31 | 11 | 2,328 | LPC4-34 | 36 | 16 | 2,510 | | | | | | | | |
| 24 | 36 | LPC2-36 | 31 | 10 | 2,328 | LPC4-36 | 36 | 15 | 2,510 | | | | | | | | |
| 27 | 41 | LPC2-41 | 34 | 10 | 2,328 | LPC4-41 | 39 | 15 | 5,021 | LPC8-41 | 46 | 22 | 8,128 | | | | |
| 30 | 46 | LPC2-46 | 37 | 10 | 2,328 | LPC4-46 | 42 | 15 | 5,858 | LPC8-46 | 46 | 19 | 10,941 | | | | |
| 33 | 50 | LPC2-50 | 40 | 11 | 2,328 | LPC4-50 | 44 | 15 | 5,858 | LPC8-50 | 46 | 17 | 10,941 | LPC14-50 | 60 | 31 | 14,552 |
| 36 | 55 | LPC2-55 | 43 | 11 | 2,328 | LPC4-55 | 46 | 14 | 5,858 | LPC8-55 | 50 | 18 | 10,941 | LPC14-55 | 60 | 28 | 18,521 |
| 39 | 60 | LPC2-60 | 46 | 11 | 2,414 | LPC4-60 | 50 | 15 | 5,858 | LPC8-60 | 52 | 17 | 10,941 | LPC14-60 | 60 | 25 | 18,521 |
| 42 | 65 | | | | | LPC4-65 | 53 | 15 | 5,858 | LPC8-65 | 55 | 17 | 10,941 | LPC14-65 | 60 | 22 | 18,521 |
| 45 | 70 | | | | | LPC4-70 | 56 | 15 | 6,474 | LPC8-70 | 58 | 17 | 10,941 | LPC14-70 | 60 | 19 | 18,521 |
| 48 | 75 | | | | | LPC4-75 | 59 | 15 | 6,474 | LPC8-75 | 60 | 17 | 10,941 | LPC14-75 | 63 | 19 | 18,521 |
| 52 | 80 | | | | | LPC4-80 | 61 | 15 | 6,474 | LPC8-80 | 63 | 16 | 10,941 | LPC14-80 | 66 | 19 | 18,521 |
| 56 | 85 | | | | | | | | | LPC8-85 | 66 | 16 | 10,941 | LPC14-85 | 69 | 19 | 18,521 |
| 60 | 90 | | | | | | | | | LPC8-90 | 69 | 17 | 10,941 | LPC14-90 | 72 | 20 | 18,521 |
| 64 | 95 | | | | | | | | | LPC8-95 | 71 | 16 | 10,941 | LPC14-95 | 74 | 19 | 18,521 |
| 68 | 100 | | | | | | | | | LPC8-100 | 75 | 17 | 11,774 | LPC14-100 | 77 | 19 | 18,521 |
| 72 | 105 | | | | | | | | | LPC8-105 | 78 | 17 | 11,774 | LPC14-105 | 80 | 19 | 18,521 |
| 76 | 110 | | | | | | | | | | | | | LPC14-110 | 83 | 19 | 18,521 |
| 80 | 115 | | | | | | | | | | | | | LPC14-115 | 87 | 20 | 18,521 |
| | 117 | | | | | | | | | | | | | LPC14-117 | 87 | 19 | 18,521 |
| 85 | 120 | | | | | | | | | | | | | | | | |
| | 125 | | | | | | | | | | | | | | | | |
| 90 | 130 | | | | | | | | | | | | | | | | |
| 95 | 135 | | | | | | | | | | | | | | | | |
| | 140 | | | | | | | | | | | | | | | | |
| 100 | 145 | | | | | | | | | | | | | | | | |
| 105 | 150 | | | | | | | | | | | | | | | | |
| 110 | 155 | | | | | | | | | | | | | | | | |
| | 160 | | | | | | | | | | | | | | | | |
| 115 | 165 | | | | | | | | | | | | | | | | |
| 120 | 170 | | | | | | | | | | | | | | | | |
| | 175 | | | | | | | | | | | | | | | | |

LPC-SERIES LOW PROFILE TORQUE WRENCHES



Did you know...

Durapac offer extension reaction arms and low point reaction paddles to suit the LPC2-LPC14 low profile hydraulic hexagon wrenches.



METRIC HEXAGON CASSETTE TABLE

| LPC30 | R (mm) | A (mm) | Max. Torque (Nm) | Bolt Diameter (mm) | A/F Size (mm) |
|-----------|--------|--------|------------------|--------------------|---------------|
| | | | | 12 | 19 |
| | | | | 14 | 22 |
| | | | | 18 | 27 |
| | | | | 20 | 30 |
| | | | | 32 | |
| | | | | 22 | 34 |
| | | | | 24 | 36 |
| | | | | 27 | 41 |
| | | | | 30 | 46 |
| | | | | 33 | 50 |
| | | | | 36 | 55 |
| | | | | 39 | 60 |
| | | | | 42 | 65 |
| | | | | 45 | 70 |
| | | | | 48 | 75 |
| | | | | 52 | 80 |
| LPC30-85 | 78 | 28 | 41,882 | 56 | 85 |
| LPC30-90 | 78 | 26 | 41,882 | 60 | 90 |
| LPC30-95 | 83 | 28 | 41,882 | 64 | 95 |
| LPC30-100 | 83 | 25 | 41,882 | 68 | 100 |
| LPC30-105 | 89 | 28 | 41,882 | 72 | 105 |
| LPC30-110 | 89 | 25 | 41,882 | 76 | 110 |
| LPC30-115 | 95 | 28 | 41,882 | 80 | 115 |
| LPC30-117 | 95 | 27 | 41,882 | | 117 |
| LPC30-120 | 95 | 25 | 41,882 | 85 | 120 |
| LPC30-125 | 101 | 29 | 41,882 | | 125 |
| LPC30-130 | 101 | 26 | 41,882 | 90 | 130 |
| LPC30-135 | 104 | 26 | 41,882 | 95 | 135 |
| LPC30-140 | 110 | 29 | 41,882 | | 140 |
| LPC30-145 | 110 | 26 | 41,882 | 100 | 145 |
| LPC30-150 | 116 | 29 | 41,882 | 105 | 150 |
| LPC30-155 | 116 | 26 | 41,882 | 110 | 155 |
| LPC30-160 | 128 | 36 | 44,593 | | 160 |
| LPC30-165 | 128 | 33 | 44,593 | 115 | 165 |
| LPC30-170 | 128 | 30 | 44,593 | 120 | 170 |
| LPC30-175 | 128 | 27 | 44,593 | | 175 |

METRIC HEXAGON REDUCER BUSHES TABLE

| Hexagon Cassette | Reducer Insert | | | Holding Ring |
|------------------|----------------|--------------|--------------|--------------|
| | Model No. | Model No. | Model No. | Model No. |
| LPC2-32 | MR2-32-27 | - | - | MHR2-32 |
| LPC2-36 | MR2-36-30 | MR2-36-27 | - | MHR2-36 |
| LPC2-41 | MR2-41-32 | MR2-41-30 | MR2-41-27 | MHR2-41 |
| LPC2-46 | MR2-46-36 | MR2-46-32 | MR2-46-30 | MHR2-46 |
| LPC4-36 | MR4-36-30 | MR4-36-27 | - | MHR4-36 |
| LPC4-41 | MR4-41-32 | MR4-41-30 | MR4-41-27 | MHR4-41 |
| LPC4-46 | MR4-46-36 | MR4-46-32 | MR4-46-30 | MHR4-46 |
| LPC4-50 | MR4-50-41 | MR4-50-36 | MR4-50-32 | MHR4-50 |
| LPC4-55 | MR4-55-46 | MR4-55-41 | MR4-55-36 | MHR4-55 |
| LPC4-60 | MR4-60-50 | MR4-60-46 | MR4-60-41 | MHR4-60 |
| LPC4-65 | MR4-65-55 | MR4-65-50 | MR4-65-46 | MHR4-65 |
| LPC8-55 | MR8-55-46 | MR8-55-41 | - | MHR8-55 |
| LPC8-60 | MR8-60-50 | MR8-60-46 | - | MHR8-60 |
| LPC8-65 | MR8-65-55 | MR8-65-50 | MR8-65-46 | MHR8-65 |
| LPC8-70 | MR8-70-60 | MR8-70-55 | MR8-70-50 | MHR8-70 |
| LPC8-75 | MR8-75-65 | MR8-75-60 | MR8-75-55 | MHR8-75 |
| LPC8-80 | MR8-80-70 | MR8-80-65 | MR8-80-60 | MHR8-80 |
| LPC8-85 | MR8-85-75 | MR8-85-70 | MR8-85-65 | MHR8-85 |
| LPC8-90 | MR8-90-80 | MR8-90-75 | MR8-90-70 | MHR8-90 |
| LPC14-75 | MR14-75-65 | - | - | MHR14-75 |
| LPC14-80 | MR14-80-70 | MR14-80-65 | - | MHR14-80 |
| LPC14-85 | MR14-85-75 | MR14-85-70 | MR14-85-65 | MHR14-85 |
| LPC14-90 | MR14-90-80 | MR14-90-75 | MR14-90-70 | MHR14-90 |
| LPC14-95 | MR14-95-85 | MR14-95-80 | MR14-95-75 | MHR14-95 |
| LPC14-100 | MR14-100-90 | MR14-100-85 | MR14-100-80 | MHR14-100 |
| LPC14-105 | MR14-105-95 | MR14-105-90 | MR14-105-85 | MHR14-105 |
| LPC14-110 | MR14-110-100 | MR14-110-95 | MR14-110-90 | MHR14-110 |
| LPC14-115 | MR14-115-105 | MR14-115-100 | MR14-115-95 | MHR14-115 |
| LPC30-90 | MR30-90-80 | - | - | MHR30-90 |
| LPC30-95 | MR30-95-85 | MR30-95-80 | - | MHR30-95 |
| LPC30-100 | MR30-100-90 | MR30-100-85 | MR30-100-80 | MHR30-100 |
| LPC30-105 | MR30-105-95 | MR30-105-90 | MR30-105-85 | MHR30-105 |
| LPC30-110 | MR30-110-100 | MR30-110-95 | MR30-110-90 | MHR30-110 |
| LPC30-115 | MR30-115-105 | MR30-115-100 | MR30-115-95 | MHR30-115 |
| LPC30-120 | MR30-120-110 | MR30-120-105 | MR30-120-100 | MHR30-120 |
| LPC30-130 | MR30-130-120 | MR30-130-115 | MR30-130-110 | MHR30-130 |
| LPC30-145 | MR30-145-130 | MR30-145-120 | MR30-145-115 | MHR30-145 |
| LPC30-155 | MR30-155-145 | MR30-155-130 | MR30-155-120 | MHR30-155 |

Not all imperial reducer bushes are listed, for other sizes contact Durapac

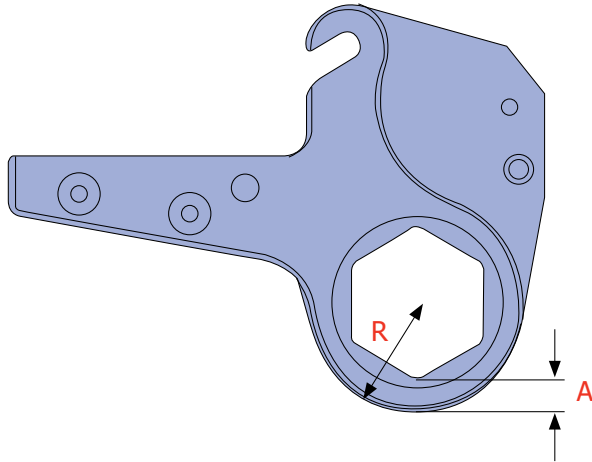
LPC-SERIES LOW PROFILE TORQUE WRENCHES



BOLTING & TORQUE SOLUTIONS

Did you know...

Durapac offer extension reaction arms and low point reaction paddles to suit the LPC2-LPC14 low profile hydraulic hexagon wrenches.



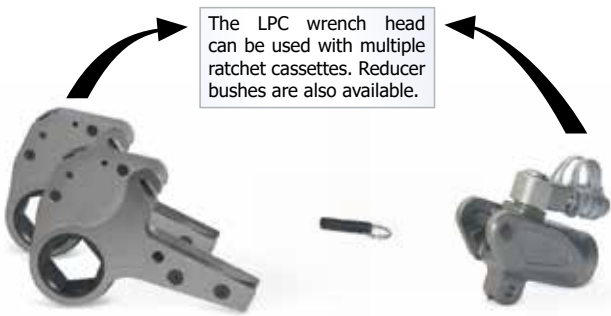
IMPERIAL HEXAGON CASSETTE TABLE

| Bolt Diameter (inch) | A/F Size (inch) | | LPC2 | R (mm) | A (mm) | Max. Torque (Nm) | LPC4 | R (mm) | A (mm) | Max. Torque (Nm) | LPC8 | R (mm) | A (mm) | Max. Torque (Nm) | LPC14 | R (mm) | A (mm) | Max. Torque (Nm) |
|----------------------|-----------------|---|----------|--------|--------|------------------|----------|--------|--------|------------------|----------|--------|--------|------------------|-----------|--------|--------|------------------|
| 1/2 | 3/4 | * | LPC2-012 | 27 | 16 | 1,663 | | | | | | | | | | | | |
| 9/16 | 7/8 | * | LPC2-014 | 27 | 14 | 1,663 | | | | | | | | | | | | |
| 5/8 | 1-1/16 | | LPC2-101 | 27 | 11 | 1,929 | | | | | | | | | | | | |
| 3/4 | 1-1/4 | * | LPC2-104 | 29 | 12 | 2,328 | | | | | | | | | | | | |
| 13/16 | 1-5/16 | * | LPC2-105 | 29 | 11 | 2,328 | | | | | | | | | | | | |
| 7/8 | 1-7/16 | * | LPC2-107 | 31 | 10 | 2,328 | LPC4-107 | 36 | 15 | 2,510 | | | | | | | | |
| 1 | 1-5/8 | * | LPC2-110 | 34 | 10 | 2,328 | LPC4-110 | 39 | 15 | 5,021 | LPC8-110 | 46 | 22 | 8,128 | | | | |
| 1-1/16 | 1-11/16 | * | LPC2-111 | 34 | 10 | 2,328 | LPC4-111 | 39 | 15 | 5,858 | LPC8-111 | 46 | 22 | 10,941 | | | | |
| 1-1/8 | 1-13/16 | * | LPC2-113 | 37 | 10 | 2,328 | LPC4-113 | 42 | 15 | 5,858 | LPC8-113 | 46 | 19 | 10,941 | | | | |
| 1-1/4 | 2 | * | LPC2-200 | 40 | 11 | 2,328 | LPC4-200 | 44 | 15 | 5,858 | LPC8-200 | 46 | 17 | 10,941 | LPC14-200 | 60 | 31 | 14,552 |
| 1-3/8 | 2-3/16 | * | LPC2-203 | 43 | 11 | 2,328 | LPC4-203 | 46 | 14 | 5,858 | LPC8-203 | 50 | 18 | 10,941 | LPC14-203 | 60 | 28 | 18,521 |
| 1-1/2 | 2-3/8 | * | LPC2-206 | 46 | 11 | 2,414 | LPC4-206 | 50 | 15 | 5,858 | LPC8-206 | 52 | 17 | 10,941 | LPC14-206 | 60 | 25 | 18,521 |
| 1-5/8 | 2-9/16 | * | | | | | LPC4-209 | 53 | 15 | 5,858 | LPC8-209 | 55 | 17 | 10,941 | LPC14-209 | 60 | 22 | 18,521 |
| 1-3/4 | 2-3/4 | * | | | | | LPC4-212 | 56 | 15 | 6,474 | LPC8-212 | 58 | 17 | 10,941 | LPC14-212 | 60 | 19 | 18,521 |
| 1-7/8 | 2-15/16 | * | | | | | LPC4-215 | 59 | 15 | 6,474 | LPC8-215 | 60 | 17 | 10,941 | LPC14-215 | 63 | 19 | 18,521 |
| 2 | 3-1/8 | * | | | | | LPC4-302 | 61 | 15 | 6,474 | LPC8-302 | 63 | 16 | 10,941 | LPC14-302 | 66 | 19 | 18,521 |
| 2-1/4 | 3-1/2 | * | | | | | | | | | LPC8-308 | 66 | 16 | 10,941 | LPC14-308 | 69 | 19 | 18,521 |
| 2-1/2 | 3-7/8 | * | | | | | | | | | LPC8-314 | 71 | 16 | 10,941 | LPC14-314 | 74 | 19 | 18,521 |
| 2-3/4 | 4-1/4 | * | | | | | | | | | | | | | LPC14-404 | 80 | 19 | 18,521 |
| 3 | 4-5/8 | * | | | | | | | | | | | | | LPC14-410 | 87 | 20 | 18,521 |
| 3-1/4 | 5 | | | | | | | | | | | | | | | | | |
| 3-1/2 | 5-3/8 | | | | | | | | | | | | | | | | | |
| 3-3/4 | 5-3/4 | | | | | | | | | | | | | | | | | |
| 4 | 6-1/8 | | | | | | | | | | | | | | | | | |
| 4-1/4 | 6-1/2 | | | | | | | | | | | | | | | | | |
| 4-1/2 | 6-7/8 | | | | | | | | | | | | | | | | | |

* Suitable for use on Grade 2H high temperature nuts as used in the Petro-chemical industry

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LPC-SERIES LOW PROFILE TORQUE WRENCHES



The LPC wrench head can be used with multiple ratchet cassettes. Reducer bushes are also available.

IMPERIAL REDUCER BUSH LEGEND

| 1st Character = Whole Inches | | | | | |
|--|----------|----------|------|-----|--|
| 2nd & 3rd Characters = Fractional Inches in 1/16" increments | | | | | |
| 2nd & 3rd Character | Fraction | Imperial | Code | | |
| 00 | = 0/16" | Eg. 1" | = | 100 | |
| 01 | = 1/16" | 1-1/16" | = | 101 | |
| 02 | = 1/8" | 1-1/8" | = | 102 | |
| 03 | = 3/16" | 1-3/16" | = | 103 | |
| 04 | = 1/4" | 1-1/4" | = | 104 | |
| 05 | = 5/16" | 2-5/16" | = | 205 | |
| 06 | = 3/8" | 2-3/8" | = | 206 | |
| 07 | = 7/16" | 2-7/16" | = | 207 | |
| 08 | = 1/2" | 2-1/2" | = | 208 | |
| 09 | = 9/16" | 3-9/16" | = | 309 | |
| 10 | = 5/8" | 3-5/8" | = | 310 | |
| 11 | = 11/16" | 3-11/16" | = | 311 | |
| 12 | = 3/4" | 3-3/4" | = | 312 | |
| 13 | = 13/16" | 4-13/16" | = | 413 | |
| 14 | = 7/8" | 4-7/8" | = | 414 | |
| 15 | = 15/16" | 4-15/16" | = | 415 | |

IMPERIAL HEXAGON CASSETTE TABLE

| LPC30 | R (mm) | A (mm) | Max. Torque (Nm) | Bolt Diameter (inch) | A/F Size (inch) |
|-----------|--------|--------|------------------|----------------------|-----------------|
| | | | | 1/2 | 3/4 |
| | | | | 9/16 | 7/8 |
| | | | | 5/8 | 1-1/16 |
| | | | | 3/4 | 1-1/4 |
| | | | | 13/16 | 1-5/16 |
| | | | | 7/8 | 1-7/16 |
| | | | | 1 | 1-5/8 |
| | | | | 1-1/16 | 1-11/16 |
| | | | | 1-1/8 | 1-13/16 |
| | | | | 1-1/4 | 2 |
| | | | | 1-3/8 | 2-3/16 |
| | | | | 1-1/2 | 2-3/8 |
| | | | | 1-5/8 | 2-9/16 |
| | | | | 1-3/4 | 2-3/4 |
| | | | | 1-7/8 | 2-15/16 |
| | | | | 2 | 3-1/8 |
| LPC30-308 | 78 | 28 | 41,882 | 2-1/4 | 3-1/2 |
| LPC30-314 | 83 | 28 | 41,882 | 2-1/2 | 3-7/8 |
| LPC30-404 | 89 | 28 | 41,882 | 2-3/4 | 4-1/4 |
| LPC30-410 | 95 | 28 | 41,882 | 3 | 4-5/8 |
| LPC30-500 | 101 | 29 | 41,882 | 3-1/4 | 5 |
| LPC30-506 | 104 | 26 | 41,882 | 3-1/2 | 5-3/8 |
| LPC30-512 | 110 | 26 | 41,882 | 3-3/4 | 5-3/4 |
| LPC30-602 | 116 | 26 | 41,882 | 4 | 6-1/8 |
| LPC30-608 | 128 | 33 | 44,593 | 4-1/4 | 6-1/2 |
| LPC30-614 | 128 | 27 | 44,593 | 4-1/2 | 6-7/8 |

IMPERIAL HEXAGON REDUCER BUSHES TABLE

| Hexagon Cassette | Reducer Insert | | | Holding Ring |
|------------------|----------------|--------------|--------------|--------------|
| | Model | Model | Model | Model |
| LPC2-105 | IR2-105-101 | - | - | IHR2-105 |
| LPC2-107 | IR2-107-104 | IR2-107-101 | - | IHR2-107 |
| LPC2-111 | IR2-111-103 | IR2-111-105 | IR2-111-101 | IHR2-111 |
| LPC2-113 | IR2-113-107 | IR2-113-105 | IR2-113-104 | IHR2-113 |
| LPC4-107 | IR4-107-104 | IR4-107-101 | - | IHR4-107 |
| LPC4-110 | IR4-110-105 | IR4-110-104 | IR4-110-101 | IHR4-110 |
| LPC4-113 | IR4-113-107 | IR4-113-105 | IR4-113-104 | IHR4-113 |
| LPC4-200 | IR4-200-110 | IR4-200-107 | IR4-200-105 | IHR4-200 |
| LPC4-203 | IR4-203-113 | IR4-203-110 | IR4-203-107 | IHR4-203 |
| LPC4-206 | IR4-206-200 | IR4-206-113 | IR4-206-110 | IHR4-206 |
| LPC4-209 | IR4-209-203 | IR4-209-200 | IR4-209-113 | IHR4-209 |
| LPC8-203 | IR8-203-113 | IR8-203-110 | - | IHR8-203 |
| LPC8-206 | IR8-206-200 | IR8-206-113 | - | IHR8-206 |
| LPC8-209 | IR8-209-203 | IR8-209-200 | IR8-209-113 | IHR8-209 |
| LPC8-212 | IR8-212-206 | IR8-212-203 | IR8-212-200 | IHR8-212 |
| LPC8-215 | IR8-215-209 | IR8-215-206 | IR8-215-203 | IHR8-215 |
| LPC8-302 | IR8-302-212 | IR8-302-209 | IR8-302-206 | IHR8-302 |
| LPC8-308 | IR8-308-215 | IR8-308-215 | IR8-308-209 | IHR8-308 |
| LPC14-215 | IR14-215-209 | - | - | IHR14-215 |
| LPC14-302 | IR14-302-212 | IR14-302-209 | - | IHR14-302 |
| LPC14-308 | IR14-308-215 | IR14-308-212 | IR14-308-209 | IHR14-308 |
| LPC14-314 | IR14-314-302 | IR14-314-215 | IR14-314-212 | IHR14-314 |
| LPC14-404 | IR14-404-304 | IR14-404-302 | IR14-404-215 | IHR14-404 |
| LPC14-410 | IR14-410-404 | IR14-410-304 | IR14-410-302 | IHR14-410 |
| LPC30-314 | IR30-314-304 | - | - | IHR30-314 |
| LPC30-404 | IR30-404-314 | IR30-404-304 | - | IHR30-404 |
| LPC30-410 | IR30-410-404 | IR30-410-314 | IR30-410-304 | IHR30-410 |
| LPC30-500 | IR30-500-410 | IR30-500-404 | IR30-500-314 | IHR30-500 |
| LPC30-506 | IR30-506-500 | IR30-506-410 | IR30-506-404 | IHR30-506 |
| LPC30-512 | IR30-512-506 | IR30-512-500 | IR30-512-410 | IHR30-512 |
| LPC30-602 | IR30-602-512 | IR30-602-506 | IR30-602-500 | IHR30-602 |

BOLTING & TORQUE SOLUTIONS

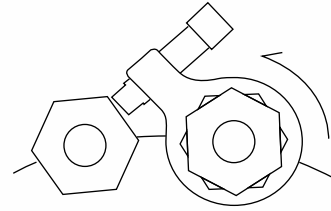
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DBW-SERIES BACK-UP WRENCHES

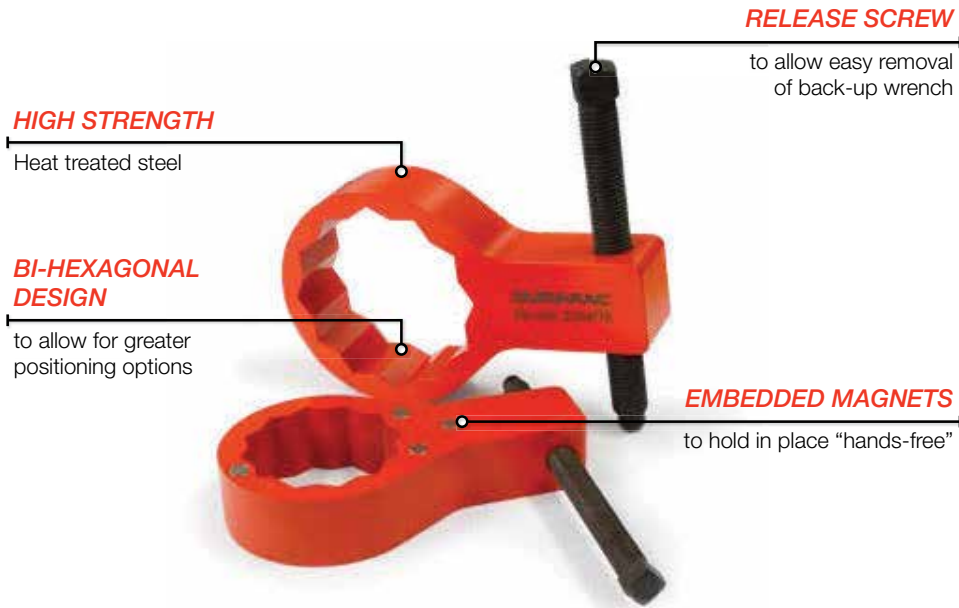


OVERVIEW

The DBW-Series Back-Up Wrenches allow for hands-free operation by preventing rotation of the opposite nut or bolt during high-torque installation or removal of the fastener. The wrenches are held in place with embedded magnets, keeping hands clear of pinch points and high-force areas. Once the fastener is tightened, the back-up wrench can be safely removed without residual load by releasing the release screw. Commonly used with ANSI and API flanges, they are also suitable for any bolting application involving nuts, bolt heads, or studs. Special designs and sizes are available on request.



DBW-SERIES BACK-UP WRENCHES



DBW RANGE METRIC
16 - 145 mm

DBW RANGE IMPERIAL
5/8" - 5-3/4"

MAXIMUM OPERATING RANGE
56 - 67,532 Nm

SPECIFICATIONS

| Metric Model | Metric Nut Size (mm) | Imperial Model | Imperial Nut Size (Inch) | Centre Axis to Tool End Length (mm) | Thickness (mm) | Max. Load (Nm) | Release Screw Size |
|--------------|----------------------|----------------|--------------------------|-------------------------------------|----------------|----------------|--------------------|
| DBW16 | 16 | DBW0-5/8" | 5/8" | 45 | 12 | 56 | M8 |
| DBW20 | 20 | DBW0-13/16" | 13/16" | 60 | 12 | 100 | M8 |
| DBW24 | 24 | DBW0-15/16" | 15/16" | 75 | 14 | 254 | M8 |
| DBW27 | 27 | DBW1-1/16" | 1-1/16" | 75 | 14 | 349 | M8 |
| DBW30 | 30 | DBW1-3/16" | 1-3/16" | 80 | 19 | 490 | M10 |
| DBW32 | 32 | DBW1-1/4" | 1-1/4" | 85 | 19 | 726 | M10 |
| DBW36 | 36 | DBW1-7/16" | 1-7/16" | 85 | 19 | 845 | M10 |
| DBW41 | 41 | DBW1-5/8" | 1-5/8" | 100 | 24 | 1153 | M12 |
| DBW46 | 46 | DBW1-13/16" | 1-13/16" | 100 | 24 | 1696 | M12 |
| DBW50 | 50 | DBW2" | 2" | 105 | 29 | 2128 | M12 |
| DBW55 | 55 | DBW2-3/16" | 2-3/16" | 105 | 29 | 2955 | M12 |
| DBW58 | 58 | DBW2-1/4" | 2-1/4" | 115 | 34 | 2955 | M16 |
| DBW60 | 60 | DBW2-3/8" | 2-3/8" | 115 | 34 | 3541 | M16 |
| DBW65 | 65 | DBW2-9/16" | 2-9/16" | 115 | 34 | 4742 | M16 |
| DBW70 | 70 | DBW2-3/4" | 2-3/4" | 115 | 34 | 5469 | M16 |
| DBW75 | 75 | DBW2-15/16" | 2-15/16" | 120 | 34 | 7158 | M16 |
| DBW80 | 80 | DBW3-1/8" | 3-1/8" | 120 | 38 | 9220 | M20 |
| DBW85 | 85 | DBW3-1/2" | 3-1/2" | 120 | 38 | 11476 | M20 |
| DBW90 | 90 | DBW3-11/16" | 3-11/16" | 120 | 38 | 14295 | M20 |
| DBW95 | 95 | DBW3-7/8" | 3-7/8" | 125 | 40 | 17148 | M20 |
| DBW100 | 100 | DBW4" | 4" | 125 | 40 | 20954 | M20 |
| DBW105 | 105 | DBW4-1/8" | 4-1/8" | 130 | 40 | 24824 | M20 |
| DBW110 | 110 | DBW4-1/4" | 4-1/4" | 130 | 40 | 29813 | M20 |
| DBW115 | 115 | DBW4-1/2" | 4-1/2" | 135 | 45 | 33167 | M24 |
| DBW120 | 120 | DBW4-5/8" | 4-5/8" | 140 | 45 | 39159 | M24 |
| DBW130 | 130 | DBW5" | 5" | 145 | 50 | 42423 | M24 |
| DBW135 | 135 | DBW5-3/8" | 5-3/8" | 150 | 50 | 48306 | M24 |
| DBW145 | 145 | DBW5-3/4" | 5-3/4" | 155 | 55 | 67532 | M24 |

DET & DAT SERIES TORQUE WRENCH POWER UNITS **DURAPAC**

OVERVIEW

The DET & DAT series torque wrench power units are perfectly designed for operating the TW and LPC series hydraulic torque wrenches. They feature a three-stage pump for faster operation under load and incorporate a hydraulic oil cooler, ensuring cool operation during continuous use. A 6 m remote hand pendant is standard. Standard (-1114) models can operate one or two tools simultaneously thanks to the multi-outlet pump block. The DET-1114-4 four-outlet version allows 1-8 tools to be operated at the same time.

OIL COOLER

electric fan operated for continuous duty operation

ROLL CAGE

for portability and protection

ELECTRIC MOTOR

1.5 kW/230 Volt 50Hz induction motor 9.2 amp

LIQUID FILLED PRESSURE GAUGE

has 1% accuracy and can be recalibrated. Scale is MPa/psi

ADJUSTABLE TORQUE CONTROL

for accurate torque settings

MULTIPLE TOOL OUTLETS

for operating one or two tools simultaneously

DET-1114-4

for operating 1 - 4 tools simultaneously

3 STAGE POWER UNIT

for increased speed under load

6 M REMOTE PENDANT

through a 24 Volt transformer for safety. Incorporates motor ON/OFF button and ADV/AUTO RETRACT button



DET-1114

SPECIFICATIONS

| Model No. | Motor | Pressure Rating (bar) | Flow (Lpm) | | | Oil Capacity (L) | Dry Weight (kg) | Dimensions W x L x H (mm) |
|------------|---------------------------|-----------------------|---------------------|-----------------------|-----------------------|------------------|-----------------|---------------------------|
| | | | 1st Stage 0-100 bar | 2nd Stage 100-250 bar | 3rd Stage 250-700 bar | | | |
| DAT-1114 | 2.7 kW Air | 700 | 7.0 | 1.6 | 0.8 | 7.0 | 31.5 | |
| DET-1114 | 230 Volt / 1 Ph. / 50 Hz† | 700 | 8.5 | 2.2 | 1.1 | 5.5 | 28.0 | 340 x 530 x 500 |
| DET-1114-4 | 230 Volt / 1 Ph. / 50 Hz† | 700 | 8.5 | 2.2 | 1.1 | 5.5 | 28.0 | |

† Standard motor supplied is 230V, 50 Hz, should 115V, 60 Hz be required; add "-115V" to the end of the model number, eg. "DET-1114-4-115V"

DET & DAT SERIES TORQUE WRENCH POWER UNITS **DURAPAC**

LIQUID FILLED PRESSURE GAUGE

has 1% accuracy and can be recalibrated. Scale is MPa/psi

AIR MOTOR

2.7 kW Ingersoll Rand®

ADJUSTABLE TORQUE CONTROL

for accurate torque settings

MULTIPLE TOOL OUTLETS

for operating one or two tools simultaneously

ROLL CAGE

for portability and protection

AIR FILTER/LUBRICATOR

for efficient operation

3 STAGE PUMP

for increased speed under load

OIL COOLER

keeps oil cool during heavy duty operation

6 M REMOTE PENDANT

incorporates motor ON/OFF button and ADV/AUTO RETRACT button



DAT-1114



POWER REQUIREMENT
Electric 230 Volt 50 Hz
Air 1,400 Lpm @ 6.2 bar

FLOW
3 stage

MAXIMUM OPERATING PRESSURE
700 bar

TORQUE WRENCH HOSES

| Model No. | Length (m) | Description |
|---------------|------------|--|
| TWH-04 | 4 | Twin hose set to suit torque wrenches complete with male and female screw couplers at both ends. 700 bar working pressure. 2,800 bar min. burst. |
| TWH-06 | 6 | |
| TWH-10 | 10 | |
| TWH-15 | 15 | |



Hose burst sleeve available. Consult Durapac for further information

The DET & DAT hydraulic torque wrench power units are supplied with an oil cooler to allow continuous operation of hydraulic torque wrenches



TORQUE WRENCH COUPLINGS

| Model No. | Thread | Description | Suits Tool Model No. |
|-------------|-----------------|---|-------------------------------------|
| CH-2 | 1/8"-NPT Male | Male half screw coupling complete with metal dust cap* | TW07, TW1, LPC2 |
| CR-2 | 1/8"-NPT Male | Female half screw coupling complete with metal dust cap* | TW07, TW1, LPC2 |
| CS-2 | 1/8"-NPT Male | Coupling set with metal dust caps* includes CH-2 and CR-2 | TW07, TW1, LPC2 |
| CH-4 | 1/4"-NPT Female | Male half screw coupling complete with metal dust cap* | TW3 THROUGH TW50 LPC4 THROUGH LPC30 |
| CR-4 | 1/4"-NPT Male | Female half screw coupling complete with metal dust cap* | TW3 THROUGH TW50 LPC4 THROUGH LPC30 |
| CS-4 | 1/4"-NPT Male | Coupling set with metal dust caps* includes CH-4 and CR-4 | TW3 THROUGH TW50 LPC4 THROUGH LPC30 |

Snap couplings available. Consult SF for further information
* Dust cap/s not shown



BOLTING & TORQUE SOLUTIONS

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DBS SERIES HYDRAULIC BOLT TENSIONERS



OVERVIEW

The DBS series hydraulic bolt tensioners will ensure uniformed gasket compression. Compression is essential for the integrity of critical bolted flange connections. Unlike a torque wrench, the DBS Series Bolt Tensioners are capable of tightening more than one bolt at a time and can apply a consistent torque via direct axial stretching to any given number of bolts simultaneously. These tensioners have been designed to fit all standard ANSI & API flanges with quick release bridge incorporating hexagon socket for a fast change over. There are 9 load cells with a bolt size range from M20 to M115 or 3/4" to 4-1/2" BUN and they are light and easily handled. All load cells are electroless nickel plated for extra protection and are easily maintained.



DBS-7

DBS-4

DBS SERIES HYDRAULIC BOLT TENSIONERS



MULTIPLE SIZE

thread adaptors per load cell

ANTI-SLIP FINISH

provides grip for better handling

DUAL PORTS

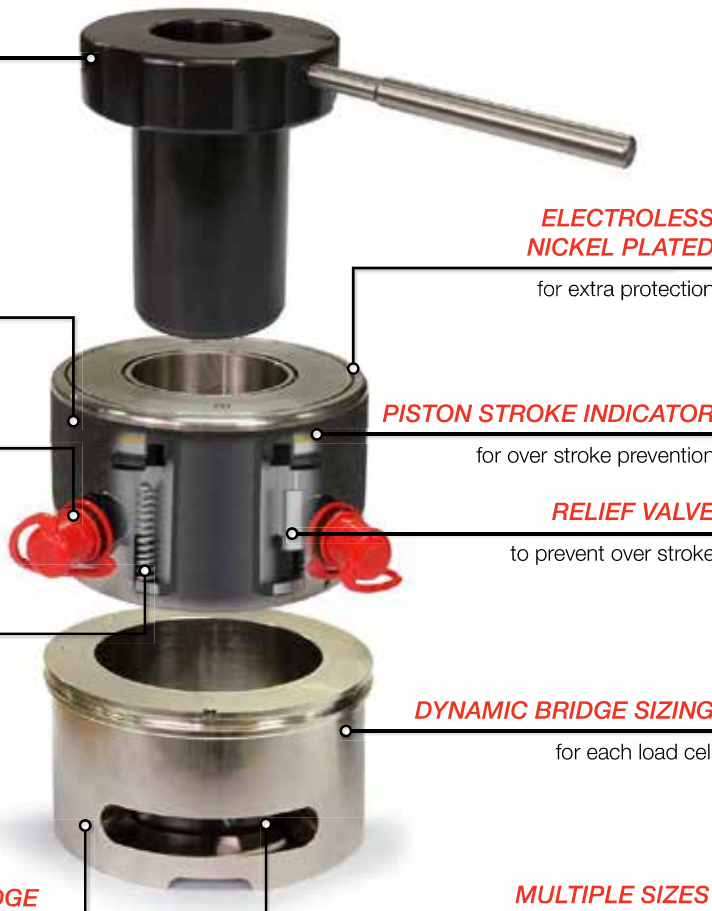
allow quick coupling of multiple tools

RETURN SPRING

for faster retraction

REMOVABLE AND ROTATIONAL BRIDGE

with full bridge window to simplify positioning



ELECTROLESS NICKEL PLATED

for extra protection

PISTON STROKE INDICATOR

for over stroke prevention

RELIEF VALVE

to prevent over stroke

DYNAMIC BRIDGE SIZING

for each load cell

MULTIPLE SIZES

for hex sockets per load cell



CAPACITY

160 - 4,100 kN

STROKE

8 - 10 mm

BOLT RANGE

**3/4" - 4-1/2" or
M20 - M115**

MAXIMUM OPERATING PRESSURE

1,500 bar

SPECIFICATIONS

| Model No. | DBS-0 | DBS-1 | DBS-2 | DBS-3 | DBS-4 | DBS-5 | DBS-6 | DBS-7 | DBS-8 |
|--------------------------------------|-----------------------|---|---|---|---|--|---|-----------------------------------|-----------------------------------|
| Metric Bolt Dimensions (Dia * pitch) | M20x2.5 M22x2.5 | M24x3 M27x3 | M24x3 M30x3.5 M33x3.5 M36x4 | M33x3.5 M39x4 M42x4.5 | M39x4 M45x5 M48x5 | M52x5.5 M56x5.5 M60x5.5 M64x6 M68x6 M70x6 | M72x6 M76x6 M85x6 M90x6 | M90x6 M95x6 M100x6 | M105x6 M110x6 M115x6 |
| Imperial Threads (Dia in-) | 3/4" 10UN 7/8" 9UN | 1"8UN 1 1/8" SUN 1 1/4" SUN 1 3/8" SUN | 1"8UN 1 1/8" SUN 1 1/2" SUN 1 3/8" SUN 1 5/8" SUN | 1 1/4" SUN 1 1/2" SUN 1 3/4"8UN 1 7/8" SUN | 1 1/2" SUN 1 5/8" SUN 1 7/8" SUN 2"8UN | 2"8UN 2 1/4" SUN 2 1/2" SUN 2 3/4" SUN | 2 3/4" SUN 3"8UN 3 1/4" SUN 3 1/2" SUN | 3 1/2" SUN 3 3/4" SUN 4"8UN | 4"8UN 4-1/4" SUN 4-1/2" SUN |
| Maximum Pressure (bar) | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| Effective Area (mm ²) | 1067 | 1867 | 3003 | 4400 | 6669 | 10002 | 16670 | 21336 | 27336 |
| Maximum Force (kN) | 160 | 280 | 450 | 660 | 1000 | 1500 | 2500 | 3200 | 4100 |
| Maximum Piston Stroke (mm) | 8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Retraction Type | Manual | Spring | Spring | Spring | Spring | Spring | Spring | Spring | Spring |
| Load Cell Weight (kg) | 1.5 | 2.1 | 3.3 | 4.1 | 7.2 | 9.3 | 14.4 | 19.2 | 28 |
| Approx. Thread Adaptor Kit (kg) | 1 | 1.6 | 2.2 | 3.4 | 4.3 | 9.2 | 18.6 | 27.8 | 35.5 |
| Approx. Total Weight (kg) | 2.5 | 3.7 | 5.5 | 7.5 | 11.5 | 18.5 | 33 | 47 | 63.5 |

DBS SERIES HYDRAULIC BOLT TENSIONERS



SPECIFICATIONS

| Model | Max. Pressure (bar) | Max. Load Capacity (kN) | Max Stroke (mm) | Effective Area (mm ²) | Thread Specification | Nut Size | A (mm) | B (mm) | C (mm) | D (mm) | G | H (mm) | L (mm) |
|------------|---------------------|-------------------------|-----------------|-----------------------------------|----------------------|----------|--------|--------|--------|--------|----|--------|--------|
| DBS-0 | 1500 | 160 | 8 | 1067 | M20x2.5 | 30 | 63 | 45 | 36 | 113.5 | 70 | 19 | - |
| | | | | | M22x2.5 | 32 | 63 | 45 | 36 | 113.5 | 70 | 21 | - |
| | | | | | 3/4" 10UN | 1-1/4" | 63 | 45 | 36 | 113.5 | 70 | 22 | - |
| | | | | | 7/8" 9UN | 1-7/16" | 63 | 45 | 36 | 113.5 | 70 | 25 | - |
| DBS-1 | 1500 | 280 | 10 | 1867 | M24x3 | 36 | 68 | 50.5 | 38 | 141.5 | 70 | 23 | - |
| | | | | | M27x3 | 41 | 68 | 50.5 | 38 | 141.5 | 70 | 26 | - |
| | | | | | 1" SUN | 1-5/8" | 68 | 50.5 | 38 | 141.5 | 70 | 30 | - |
| | | | | | 1-1/8" SUN | 1-13/16" | 76 | 50.5 | 41 | 144.5 | 70 | 33 | - |
| DBS-2 | 1500 | 450 | 10 | 3003 | M24x3 | 36 | 75 | 50.5 | 38 | 141.5 | 60 | 23 | - |
| | | | | | M27x3 | 41 | 75 | 50.5 | 38 | 141.5 | 60 | 26 | - |
| | | | | | M30x3.5 | 46 | 80 | 50.5 | 41 | 144.5 | 60 | 28 | - |
| | | | | | M33x3.5 | 50 | 84 | 62 | 44 | 147.5 | 70 | 30 | - |
| | | | | | M36x4 | 55 | 88.5 | 67 | 47 | 150.5 | 63 | 33 | - |
| | | | | | 1" SUN | 1-5/8" | 75 | 50.5 | 38 | 141.5 | 60 | 30 | - |
| | | | | | 1-1/8" SUN | 1-13/16" | 80 | 55.5 | 41 | 144.5 | 60 | 33 | - |
| | | | | | 1-1/4" SUN | 2" | 84 | 62 | 44 | 147.5 | 70 | 36 | - |
| DBS-3 | 1500 | 660 | 10 | 4400 | 1-3/8" SUN | 2-3/16" | 88.5 | 67.5 | 47 | 150.5 | 63 | 39 | - |
| | | | | | M33x3.5 | 50 | 92 | 62 | 44 | 149.5 | 65 | 30 | - |
| | | | | | M36x4 | 55 | 96 | 67.5 | 47 | 152.5 | 63 | 33 | - |
| | | | | | M39x4 | 60 | 105 | 73.5 | 50.5 | 156 | 68 | 35.5 | - |
| | | | | | M42x4.5 | 65 | 104.5 | 79 | 53.5 | 159 | 59 | 38 | - |
| | | | | | 1-1/4" SUN | 2" | 92 | 62 | 44 | 149.5 | 65 | 36 | - |
| | | | | | 1-3/8" SUN | 2-3/16" | 96 | 67.5 | 47 | 152.5 | 63 | 39 | - |
| | | | | | 1-1/2" SUN | 2-3/8" | 105 | 73.5 | 50.5 | 156 | 68 | 42.5 | - |
| DBS-4 | 1500 | 1000 | 10 | 6669 | 1-5/8" SUN | 2-9/16" | 104.5 | 79 | 53.5 | 159 | 59 | 45.5 | - |
| | | | | | M39x4 | 60 | 112 | 73 | 50.5 | 163.5 | 64 | 35.5 | - |
| | | | | | M42x4.5 | 65 | 114 | 79 | 53.5 | 166.5 | 67 | 38 | - |
| | | | | | M45x4.5 | 70 | 126 | 84.5 | 57 | 170 | 69 | 40 | - |
| | | | | | M48x5 | 75 | 123 | 89.5 | 60 | 173 | 68 | 42 | - |
| | | | | | 1-1/2" SUN | 2-3/8" | 112 | 73 | 50.5 | 163.5 | 64 | 42.5 | - |
| | | | | | 1-5/8" SUN | 2-9/16" | 114 | 79 | 53.5 | 166.5 | 67 | 45.5 | - |
| | | | | | 1-3/4" SUN | 2-3/4" | 126 | 84.5 | 57 | 170 | 69 | 49 | - |
| | | | | | 1-7/8" SUN | 2-15/16" | 123 | 89.5 | 60 | 173 | 68 | 52 | - |
| | | | | | 2" SUN | 3-1/8" | 128 | 95.5 | 63 | 176 | 61 | 55 | - |
| DBS-5 | 1500 | 1500 | 10 | 10002 | M52x5 | 80 | 134 | 95.5 | 63 | 187 | 61 | 46 | 120 |
| | | | | | M56x5.5 | 85 | 148 | 106.5 | 69.5 | 193.5 | 60 | 49 | 138 |
| | | | | | M60x5.5 | 90 | 148 | 106.5 | 69.5 | 193.5 | 60 | 52 | 138 |
| | | | | | M64x6 | 95 | 153 | 118 | 76 | 200 | 60 | 55 | 138 |
| | | | | | M68x6 | 100 | 153 | 118 | 76 | 200 | 60 | 58 | 138 |
| | | | | | M70x6 | 102 | 153 | 118 | 76 | 200 | 60 | 58 | 138 |
| | | | | | 2" SUN | 3-1/8" | 134 | 95.5 | 63 | 187 | 61 | 55 | 120 |
| | | | | | 2-1/4" SUN | 3-1/2" | 148 | 106.5 | 69.5 | 193.5 | 60 | 61.5 | 138 |
| | | | | | 2-1/2" SUN | 3-7/8" | 153 | 118 | 76 | 200 | 60 | 68 | 138 |
| | | | | | 2-3/4" SUN | 4-1/4" | 165 | 129.5 | 82 | 206 | 60 | 74 | 156 |
| DBS-6 | 1500 | 2500 | 10 | 16670 | M72x6 | 105 | 172 | 129.5 | 82 | 216 | 60 | 62 | 157 |
| | | | | | M76x6 | 110 | 182 | 140 | 89 | 223 | 64 | 65 | 157 |
| | | | | | M80x6 | 115 | 182 | 140 | 89 | 223 | 64 | 68 | 157 |
| | | | | | M85x6 | 121 | 190 | 151 | 95 | 229 | 60 | 72 | 157 |
| | | | | | M90x6 | 130 | 205 | 163 | 101 | 235 | 60 | 76 | 157 |
| | | | | | 2-3/4" SUN | 4-1/4" | 172 | 129.5 | 82 | 216 | 60 | 74 | 157 |
| | | | | | 3" SUN | 4-5/8" | 182 | 140 | 89 | 223 | 64 | 81 | 157 |
| | | | | | 3-1/4" SUN | 5" | 190 | 151 | 95 | 229 | 60 | 87 | 157 |
| DBS-7 | 1500 | 3200 | 10 | 21336 | 3-1/2" SUN | 5-3/8" | 205 | 163 | 101 | 235 | 60 | 93 | 157 |
| | | | | | M90x6 | 130 | 230 | 163 | 101 | 241 | 60 | 76 | 200 |
| | | | | | M95x6 | 135 | 230 | 163 | 101 | 241 | 60 | 80 | 200 |
| | | | | | M100x6 | 146 | 235 | 174 | 107 | 247 | 60 | 84 | 200 |
| | | | | | 3-3/4" SUN | 5-3/4" | 235 | 174 | 107 | 247 | 60 | 99 | 200 |
| | | | | | 4" SUN | 6-1/8" | 242 | 185 | 114 | 254 | 60 | 106 | 210 |
| DBS-8 | 1500 | 4100 | 10 | 27336 | M105x6 | 150 | 255 | 185 | 114 | 264 | 60 | 88 | 210 |
| | | | | | M110x6 | 155 | 255 | 185 | 114 | 264 | 60 | 92 | 210 |
| | | | | | M115x6 | 165 | 260 | 197 | 120 | 270 | 60 | 96 | 224 |
| | | | | | 4" SUN | 6-1/8" | 255 | 185 | 114 | 264 | 60 | 106 | 210 |
| | | | | | 4-1/4" SUN | 6-1/2" | 260 | 197 | 120 | 270 | 60 | 112 | 224 |
| 4-1/2" SUN | 6-7/8" | 270 | 207 | 127 | 277 | 60 | 119 | 232 | | | | | |

BOLTING & TORQUE SOLUTIONS

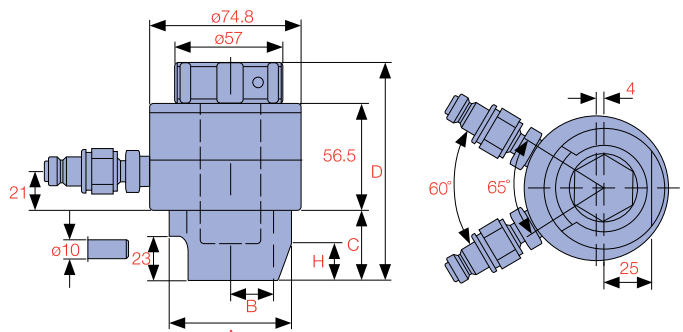
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DBS SERIES HYDRAULIC BOLT TENSIONERS

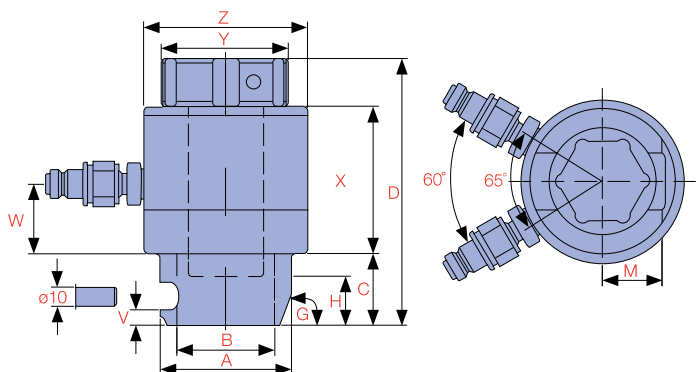


SPECIFICATIONS

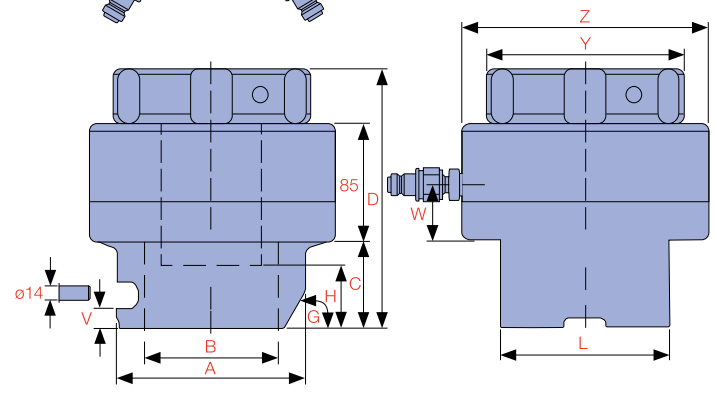
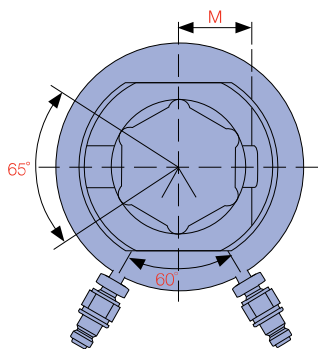
| M (mm) | V (mm) | W (mm) | X (mm) | Y (mm) | Z (mm) | Tommy Bar (mm) |
|--------|--------|--------|--------|--------|--------|----------------|
| 25 | - | - | - | - | - | 10 |
| 25 | - | - | - | - | - | 10 |
| 25 | - | - | - | - | - | 10 |
| 25 | - | - | - | - | - | 10 |
| 31 | 8.8 | 37.5 | 78.5 | 67 | 85 | 10 |
| 31 | 8.8 | 37.5 | 78.5 | 67 | 85 | 10 |
| 31 | 8.8 | 37.5 | 78.5 | 67 | 85 | 10 |
| 31 | 8.8 | 37.5 | 78.5 | 67 | 85 | 10 |
| 30 | 11.8 | 37.5 | 78.5 | 82 | 103 | 10 |
| 30 | 11.8 | 37.5 | 78.5 | 82 | 103 | 10 |
| 30 | 11.8 | 37.5 | 78.5 | 82 | 103 | 10 |
| 35 | 11.8 | 37.5 | 78.5 | 82 | 103 | 10 |
| 35 | 11.8 | 37.5 | 78.5 | 82 | 103 | 10 |
| 30 | 11.8 | 37.5 | 78.5 | 82 | 103 | 10 |
| 30 | 11.8 | 37.5 | 78.5 | 82 | 103 | 10 |
| 35 | 11.8 | 37.5 | 78.5 | 82 | 103 | 10 |
| 35 | 11.8 | 37.5 | 78.5 | 82 | 103 | 10 |
| 38 | 11.8 | 37.5 | 78.5 | 82 | 103 | 10 |
| 35 | 12.75 | 37.5 | 78.5 | 96 | 118 | 10 |
| 38 | 12.75 | 37.5 | 78.5 | 96 | 118 | 10 |
| 42 | 12.75 | 37.5 | 78.5 | 96 | 118 | 10 |
| 41 | 12.75 | 37.5 | 78.5 | 96 | 118 | 10 |
| 35 | 12.75 | 37.5 | 78.5 | 96 | 118 | 10 |
| 38 | 12.75 | 37.5 | 78.5 | 96 | 118 | 10 |
| 42 | 12.75 | 37.5 | 78.5 | 96 | 118 | 10 |
| 41 | 12.75 | 37.5 | 78.5 | 96 | 118 | 10 |
| 42 | 12.75 | 40 | 81 | 110 | 140.5 | 10 |
| 45 | 12.75 | 40 | 81 | 110 | 140.5 | 10 |
| 52 | 12.75 | 40 | 81 | 110 | 140.5 | 10 |
| 51 | 12.75 | 40 | 81 | 110 | 140.5 | 10 |
| 42 | 12.75 | 40 | 81 | 110 | 140.5 | 10 |
| 45 | 12.75 | 40 | 81 | 110 | 140.5 | 10 |
| 52 | 12.75 | 40 | 81 | 110 | 140.5 | 10 |
| 51 | 12.75 | 40 | 81 | 110 | 140.5 | 10 |
| 52 | 12.75 | 40 | 81 | 110 | 140.5 | 10 |
| 52 | 14.5 | 41 | 85 | 140 | 175.5 | 14 |
| 58 | 14.5 | 41 | 85 | 140 | 175.5 | 14 |
| 58 | 14.5 | 41 | 85 | 140 | 175.5 | 14 |
| 63 | 14.5 | 41 | 85 | 140 | 175.5 | 14 |
| 63 | 14.5 | 41 | 85 | 140 | 175.5 | 14 |
| 63 | 14.5 | 41 | 85 | 140 | 175.5 | 14 |
| 52 | 14.5 | 41 | 85 | 140 | 175.5 | 14 |
| 58 | 14.5 | 41 | 85 | 140 | 175.5 | 14 |
| 63 | 14.5 | 41 | 85 | 140 | 175.5 | 14 |
| 70 | 14.5 | 41 | 85 | 140 | 175.5 | 14 |
| 72 | 14.5 | 41 | 85 | 180 | 219 | 14 |
| 80 | 14.5 | 41 | 85 | 180 | 219 | 14 |
| 80 | 14.5 | 41 | 85 | 180 | 219 | 14 |
| 84 | 14.5 | 41 | 85 | 180 | 219 | 14 |
| 88 | 14.5 | 41 | 85 | 180 | 219 | 14 |
| 72 | 14.5 | 41 | 85 | 180 | 219 | 14 |
| 80 | 14.5 | 41 | 85 | 180 | 219 | 14 |
| 84 | 14.5 | 41 | 85 | 180 | 219 | 14 |
| 88 | 14.5 | 41 | 85 | 180 | 219 | 14 |
| 88 | 45 | 41 | 85 | 200 | 252 | 14 |
| 88 | 45 | 41 | 85 | 200 | 252 | 14 |
| 94 | 45 | 41 | 85 | 200 | 252 | 14 |
| 88 | 45 | 41 | 85 | 200 | 252 | 14 |
| 94 | 45 | 41 | 85 | 200 | 252 | 14 |
| 114 | 45 | 41 | 85 | 200 | 252 | 14 |
| 114 | 45 | 41 | 85 | 218 | 283 | 14 |
| 114 | 45 | 41 | 85 | 218 | 283 | 14 |
| 114 | 45 | 41 | 85 | 218 | 283 | 14 |
| 114 | 45 | 41 | 85 | 218 | 283 | 14 |
| 114 | 45 | 41 | 85 | 218 | 283 | 14 |
| 117 | 45 | 41 | 85 | 218 | 283 | 14 |



DBS-0



DBS-1, DBS-2, DBS-3 & DBS-4



DBS-5, DBS-6, DBS-7 & DBS-8

BOLTING & TORQUE SOLUTIONS

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DBS SERIES HYDRAULIC BOLT TENSIONERS



ORDERING INFORMATION



How to order...

For greater flexibility Tension Adaptor Kits are ordered separately.

- 1) Select appropriate Cylinder and Bridge model
- 2) Select appropriate Thread and Socket Kit based on bolt diameter and AF size
- 3) Create order for complete unit e.g.
1 x DBS-4 Load Cell
1 X DBS4-M42x4.5 Tension Adaptor Kit



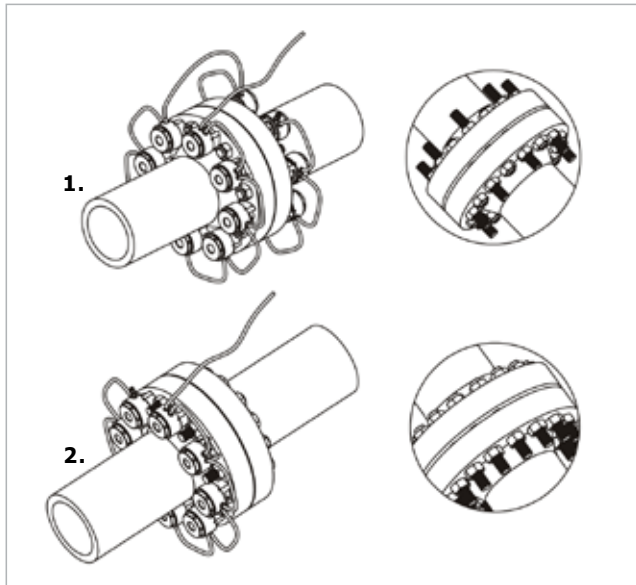
METRIC - TENSION ADAPTOR KIT SIZING

| Bolt Diameter (mm) | AF Size | DBS-0 160 kN | DBS-1 280 kN | DBS-2 450 kN | DBS-3 660 kN | DBS-4 1000kN | DBS-5 1500kN | DBS-6 2500kN | DBS-7 3200kN | DBS-8 4100kN |
|--------------------|---------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| M20 x 2.5 | 30 | M20x2.5 (30) | | | | | | | | |
| M22 x 2.5 | 32 | M22x2.5 (32) | | | | | | | | |
| M24 x 3 | 36 | | M24x3 (36) | M24x3 (36) | | | | | | |
| M27 x 3 | 41 | | M27x3 (41) | M27x3 (41) | | | | | | |
| M30 x 3.5 | 46 | | | M30x3.5 (46) | | | | | | |
| M33 x 3.5 | 50 | | | M33x3.5 (50) | M33x3.5 (50) | | | | | |
| M36 x 4 | 55 | | | M36x4 (55) | M36x4 (55) | | | | | |
| M39 x 4 | 60 | | | | M39x4 (60) | M39x4 (60) | | | | |
| M42 x 4.5 | 65 | | | | M42x4.5 (65) | M42x4.5 (65) | | | | |
| M45 x 4.5 | 70 | | | | | M45x4.5 (70) | | | | |
| M48 x 5 | 75 | | | | | M48x5 (75) | | | | |
| M52 x 5 | 80 | | | | | | M52x5 (80) | | | |
| M56 x 5.5 | 85 | | | | | | M56x5.5 (85) | | | |
| M60 x 5.5 | 90 | | | | | | M60x5.5 (90) | | | |
| M64 x 6 | 95 | | | | | | M64x6 (95) | | | |
| M68 x 6 | 100 | | | | | | M68x6 (100) | | | |
| M70 x 6 | 100 | | | | | | M70x6 (100) | | | |
| M72 x 6 | 105 | | | | | | | M72x6 (105) | | |
| M76 x 6 | 110 | | | | | | | M76x6 (110) | | |
| M80 x 6 | 115 | | | | | | | M80x6 (115) | | |
| M85 x 6 | 120 | | | | | | | M85x6 (120) | | |
| M90 x 6 | 130 | | | | | | | M90x6 (130) | M90x6 (130) | |
| M95 x 6 | 135 | | | | | | | | M95x6 (135) | |
| M100 x 6 | 145 | | | | | | | | | M100x6 (145) |
| M105 x 6 | 150 | | | | | | | | | M105x6 (150) |
| M110 x 6 | 155 | | | | | | | | | M110x6 (155) |
| M115 x 6 | 165 | | | | | | | | | M115x6 (165) |

DBS SERIES HYDRAULIC BOLT TENSIONERS



ORDERING INFORMATION



Tensioning

Not all applications allow for the simultaneous fit of a tensioning device on each bolt, in these cases at least two tensioning pressures are applied.

- 1) Setup using a 100% tensioning procedure
- 2) Setup using a 50% tensioning procedure

Manufacturer's rating of pressure and torque are maximum safe limits. Good practice encourages using only 80% of these ratings



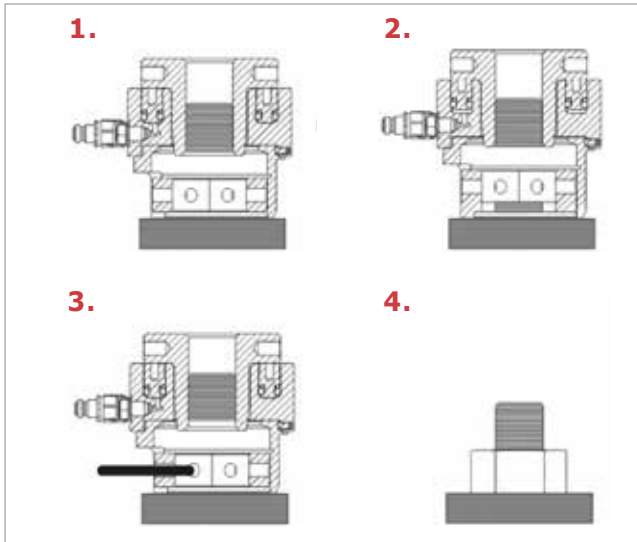
IMPERIAL - TENSION ADAPTOR KIT SIZING

| Bolt Diameter (inch) | AF Size | DBS-0 | DBS-1 | DBS-2 | DBS-3 | DBS-4 | DBS-5 | DBS-6 | DBS-7 | DBS-8 |
|----------------------|----------|--------------------|-----------------------|-----------------------|----------------------|-----------------------|---------------------|---------------------|---------------------|---------------------|
| 3/4"-100UN | 1-1/4" | 160 kN | 280 kN | 450 kN | 660 kN | 1000kN | 1500kN | 2500kN | 3200kN | 4100kN |
| 7/8"-90UN | 1-7/16" | 3/4" 10UN (1-1/4") | 7/8" 9UN (1-7/16") | | | | | | | |
| 1"-80UN | 1-5/8" | | 1"8UN (1-5/8") | 1"8UN (1-5/8") | | | | | | |
| 1-1/8"-80UN | 1-13/16" | | 1 1/8" BUN (1-13/16") | 1 1/8" BUN (1-13/16") | | | | | | |
| 1-1/4"-80UN | 2" | | | 1 1/4" BUN (2") | 1 1/4" BUN (2") | | | | | |
| 1-3/8"-80UN | 2-3/16" | | | 1 3/8" BUN (2-3/16") | 1 3/8" BUN (2-3/16") | | | | | |
| 1-1/2"-80UN | 2-3/8" | | | | 1 1/2" BUN (2-3/8") | 1 1/2" BUN (2-3/8") | | | | |
| 1-5/8"-80UN | 2-9/16" | | | | 1 5/8" BUN (2-9/16") | 1 5/8" BUN (2-9/16") | | | | |
| 1-3/4"-80UN | 2-3/4" | | | | | 1 3/4" BUN (2-3/4") | | | | |
| 1-7/8"-80UN | 2-15/16" | | | | | 1 7/8" BUN (2-15/16") | | | | |
| 2"-80UN | 3-1/8" | | | | | 2" BUN (3-1/8") | 2" BUN (3-1/8") | | | |
| 2-1/4"-80UN | 3-1/2" | | | | | | 2 1/4" BUN (3-1/2") | | | |
| 2-1/2"-80UN | 3-7/8" | | | | | | 2 1/2" BUN (3-7/8") | | | |
| 2-3/4"-80UN | 4-1/4" | | | | | | 2 3/4" BUN (4-1/4") | 2 3/4" BUN (4-1/4") | | |
| 3"-80UN | 4-5/8" | | | | | | | 3" BUN (4-5/8") | | |
| 3-1/4"-80UN | 5" | | | | | | | 3 1/4" BUN (5") | | |
| 3-1/2"-80UN | 5-3/8" | | | | | | | 3 1/2" BUN (5-3/8") | 3 1/2" BUN (5-3/8") | |
| 3-3/4"-80UN | 5-3/4" | | | | | | | | 3 3/4" BUN (5-3/4") | |
| 4"-80UN | 6-1/8" | | | | | | | | 4" BUN (6-1/8") | 4" BUN (6-1/8") |
| 4-1/4"-80UN | 6-1/2" | | | | | | | | | 4-1/4" BUN (6-1/2") |
| 4-1/2"-80UN | 6-7/8" | | | | | | | | | 4-1/2" BUN (6-7/8") |

DBS SERIES HYDRAULIC BOLT TENSIONERS



ORDERING INFORMATION



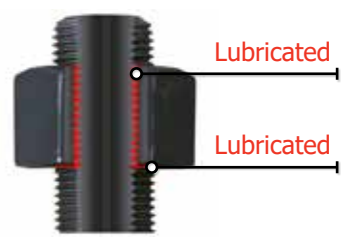
Tensioner Instructions

- 1) The bolt tensioner is fitted over the stud
- 2) Hydraulic pressure is applied to the tensioner which then stretches the stud
- 3) The stud's nut is wound down against the joint face
- 4) Pressure is released and the tool removed

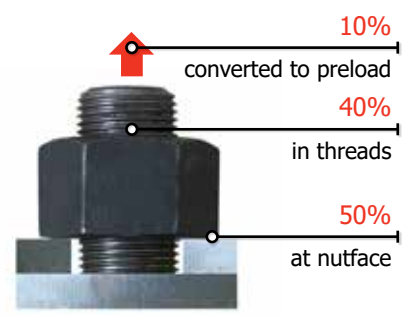
Advantages of Lubrication

- 1) Reduces the friction during tightening
- 2) Increases bolt service life
- 3) Decreases bolt failure during installation
- 4) Higher friction results in less conversion of torque to preload

FRICITION POINT



FRICITIONAL LOSS



SPECIFICATIONS

| Pressure (bar) | DBS-0 kN | DBS-1 kN | DBS-2 kN | DBS-3 kN | DBS-4 kN | DBS-5 kN | DBS-6 kN | DBS-7 kN | DBS-8 kN | Pressure (psi) |
|----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------------|
| 100 | 1067 | 1867 | 3003 | 4400 | 6669 | 10002 | 16670 | 21336 | 27336 | 1450 |
| 200 | 2134 | 3734 | 6006 | 8800 | 13338 | 20004 | 33340 | 42672 | 54672 | 2901 |
| 300 | 3201 | 5601 | 9009 | 13200 | 20007 | 30006 | 50010 | 64008 | 82008 | 4351 |
| 400 | 4268 | 7468 | 12012 | 17600 | 26676 | 40008 | 66680 | 85344 | 109344 | 5801 |
| 500 | 5335 | 9335 | 15015 | 22000 | 33345 | 50010 | 83350 | 106680 | 136680 | 7252 |
| 600 | 6402 | 11202 | 18018 | 26400 | 40014 | 60012 | 100020 | 128016 | 164016 | 8702 |
| 700 | 7469 | 13069 | 21021 | 30800 | 46683 | 70014 | 116690 | 149352 | 191352 | 10152 |
| 800 | 8536 | 14936 | 24024 | 35200 | 53352 | 80016 | 133360 | 170688 | 218688 | 11603 |
| 900 | 9603 | 16803 | 27027 | 39600 | 60021 | 90018 | 150030 | 192024 | 246024 | 13053 |
| 1000 | 10670 | 18670 | 30030 | 44000 | 66690 | 100020 | 166700 | 213360 | 273360 | 14503 |
| 1100 | 11737 | 20537 | 33033 | 48400 | 73359 | 110022 | 183370 | 234696 | 300696 | 15954 |
| 1200 | 12804 | 22404 | 36036 | 52800 | 80028 | 120024 | 200040 | 256032 | 328032 | 17404 |
| 1300 | 13871 | 24271 | 39039 | 57200 | 86697 | 130026 | 216710 | 277368 | 355368 | 18854 |
| 1400 | 14938 | 26138 | 42042 | 61600 | 93366 | 140028 | 233380 | 298704 | 382704 | 20305 |
| 1500 | 16005 | 28005 | 45045 | 66000 | 100035 | 150030 | 250050 | 320040 | 410040 | 21755 |



DMS SERIES HYDRAULIC BOLT TENSIONERS



OVERVIEW

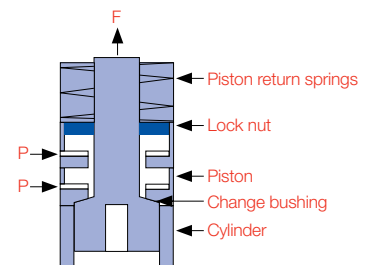
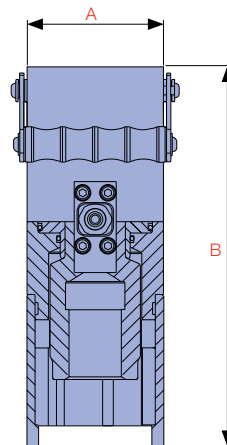
The DMS-Series Hydraulic Bolt Tensioners are multi-stage, spring-return tensioners designed to fit into compact applications on Grade 10.9 bolts. They feature a ratchet wind-down mechanism for the change bushing and nut-turning sleeve, and are nickel-coated for longevity.



CAPACITY
200 - 2,880 kN

BOLT RANGE
M20 - M72

MAXIMUM OPERATING PRESSURE
1,500 bar



SPECIFICATIONS

| Model No. | Pre-load Force | | Thread | | A/F width | | Diameter A | | Height B | |
|-----------|----------------|--------|--------|-------|-----------|---------|------------|------|----------|------|
| | (kN) | (lbs) | (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) | (in) |
| DMS-M20 | 200 | 44962 | M20 | 3/4 | 30 | 1 1/4 | 47 | 1.9 | 169 | 6.7 |
| DMS-M24 | 290 | 65195 | M24 | 7/8 | 36 | 1 7/16 | 60 | 2.4 | 200 | 7.9 |
| DMS-M27 | 380 | 85427 | M27 | 1 | 41 | 1 5/8 | 65 | 2.6 | 210 | 8.3 |
| DMS-M30 | 460 | 103412 | M30 | 1 1/8 | 46 | 1 13/16 | 72 | 2.8 | 204 | 8 |
| DMS-M33 | 570 | 128141 | M33 | 1 1/4 | 50 | 2 13/16 | 79 | 3.1 | 216 | 8.5 |
| DMS-M36 | 670 | 150622 | M36 | 1 3/8 | 55 | 2 3/16 | 83 | 3.3 | 250 | 9.8 |
| DMS-M39 | 800 | 179847 | M39 | 1 1/2 | 60 | 2 3/8 | 91 | 3.6 | 265 | 10.4 |
| DMS-M42 | 920 | 206824 | M42 | 1 5/8 | 65 | 2 9/16 | 98 | 3.9 | 272 | 10.7 |
| DMS-M45 | 1080 | 242794 | M45 | 1 3/4 | 70 | 2 3/4 | 106 | 4.2 | 273 | 10.7 |
| DMS-M48 | 1220 | 274267 | M48 | 1 7/8 | 75 | 2 15/16 | 112 | 4.4 | 290 | 11.4 |
| DMS-M52 | 1450 | 325973 | M52 | 2 | 80 | 3 1/8 | 123 | 4.8 | 336 | 13.2 |
| DMS-M56 | 1680 | 377679 | M56 | 2 1/4 | 85 | 3 1/2 | 131 | 5.2 | 356 | 14 |
| DMS-M64 | 2210 | 496828 | M64 | 2 1/2 | 95 | 3 7/8 | 150 | 5.9 | 357 | 14.1 |
| DMS-M72 | 2880 | 647450 | M72 | 3 | 105 | 4 5/8 | 168 | 6.6 | 406 | 16 |

PAMH SERIES BOLT TENSIONING AIR POWER UNIT



OVERVIEW

Where air is the preferred power source, the PAMH power unit is ideal for bolt tensioning applications. The PAMH1514 is a 1,500 bar, lightweight, single-acting power unit designed to work seamlessly with Durapac's DBS Series Bolt Tensioners.

LIQUID FILLED PRESSURE GAUGE

range is 0-1,600 bar / 0-23,000 psi

SIGHT GLASS

incorporating a temperature gauge

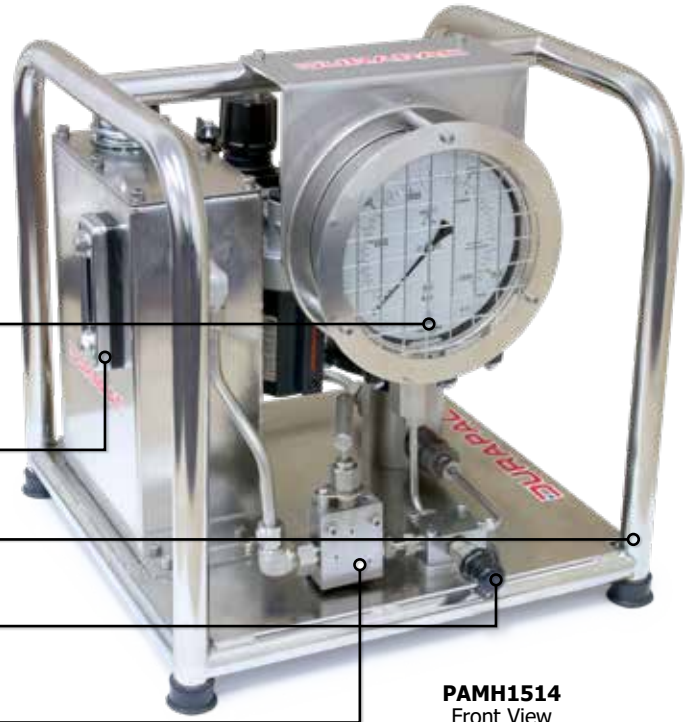
STAINLESS STEEL BASE AND FRAME

resists corrosion and allows for easy handling

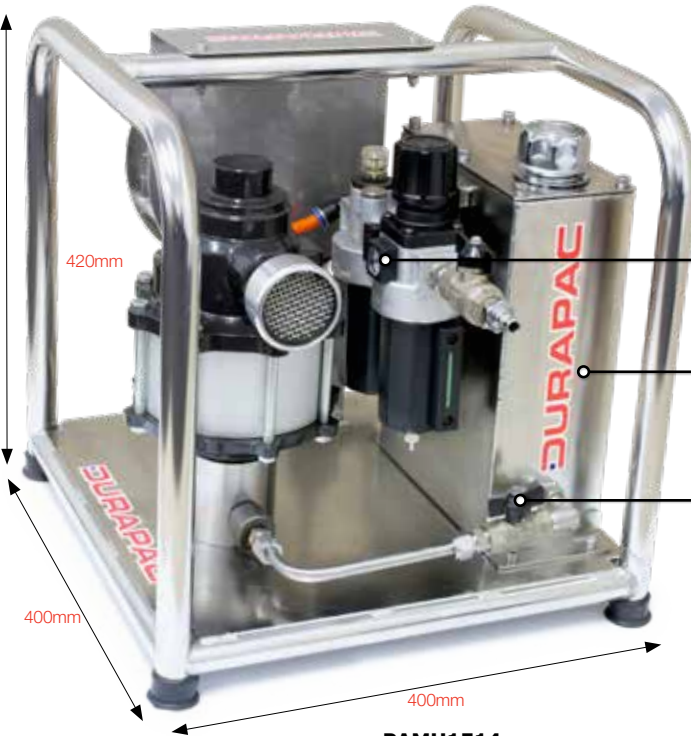
OIL OUTLET

fitted with a 1/4" DBT116M quick release nipple

PRESSURE RELEASE VALVE



PAMH1514
Front View



PAMH1514
Rear View

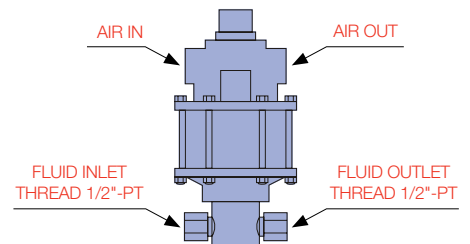
FILTER, REGULATOR & LUBRICATOR WITH GAUGE

are supplied on the air inlet

STAINLESS STEEL RESERVOIR

5.6 L of usable oil

RESERVOIR ON/OFF VALVE



SPECIFICATIONS

| Model Number | Used with Cylinder | Max. Pressure Rating (bar) | Compression Ratio | Oil Flow (cm ³ /stroke) | Air Pressure Range (bar) | Air Consumption (Lpm) | Oil Port Thread | Oil Capacity (L) | Dry Weight (kg) | Dimension W x L x H (mm) |
|-----------------|--------------------|----------------------------|-------------------|------------------------------------|--------------------------|-----------------------|-----------------|------------------|-----------------|--------------------------|
| PAMH1514 | S/A | 1,500 | 1:310 | 1.2 | 5-7 | 793 | G 1/4" | 5.6 | 25 | 400 x 400 x 420 |

PEMH SERIES BOLT TENSIONING ELECTRIC POWER UNIT **DURAPAC**

OVERVIEW

The PEMH series power unit is designed to be compatible with Durapac's DBS series bolt tensioners operating at 1,500 bar. The PEMH0543-2K model operates up to 2,000 bar and is ideal for testing and bolting applications that require higher working pressure.



AIR REQUIREMENT

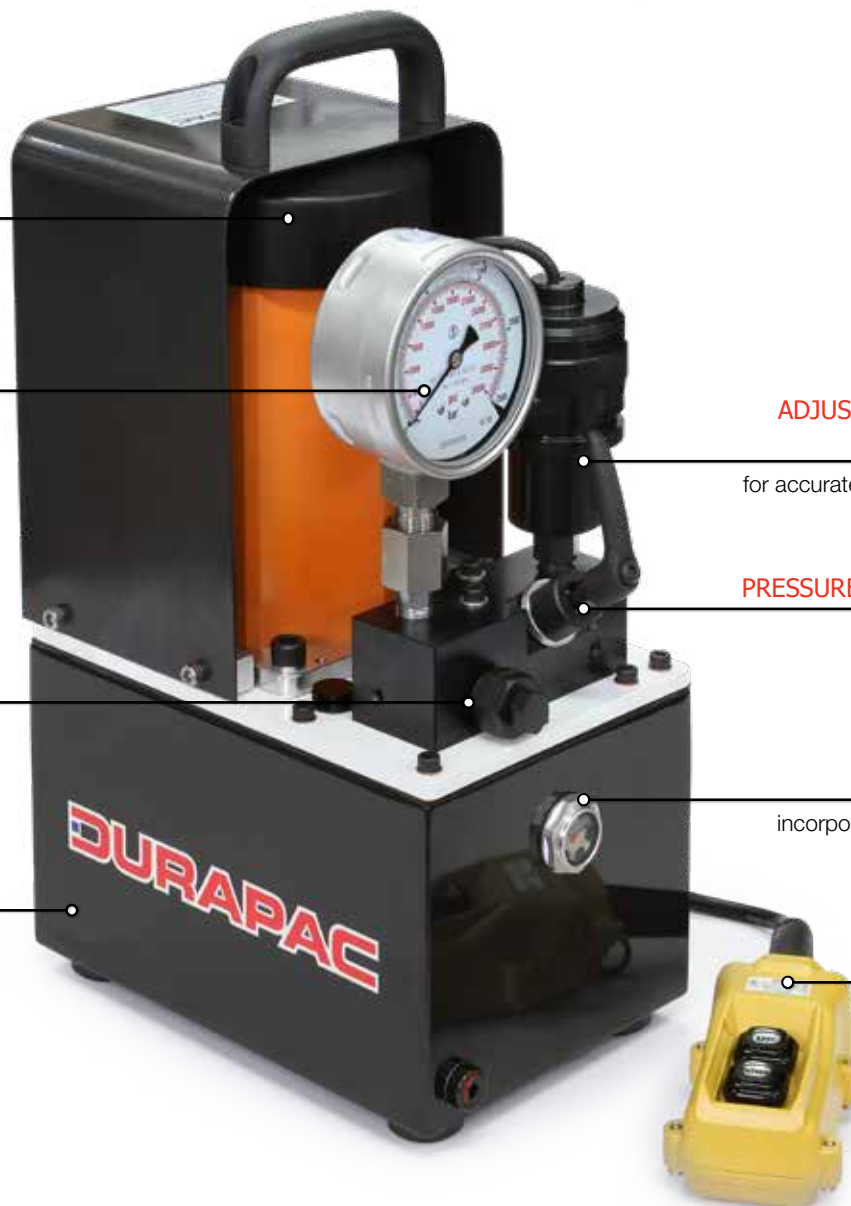
Air 793 Lpm @ 7 bar
(single speed pump)

POWER REQUIREMENT

Elec. 220 Volt 50-60 Hz
(two speed pump)

MAXIMUM OPERATING PRESSURE RANGE

1,500 - 2,000 bar



ELECTRIC MOTOR

0.5 kW/220 volt 50-60 Hz
universal motor 6.0 amps

**LIQUID FILLED
PRESSURE GAUGE**

range is 0-2,500 bar /
0-35,000 psi

**ADJUSTABLE PRESSURE
CONTROL**

for accurate tensioning settings

PRESSURE RELEASE LEVER

OIL OUTLET

fitted with a 1/4" DBT116M
quick release nipple

SIGHT GLASS

incorporating a temperature
gauge

RESERVOIR

capacity 4 L

**2.8 M REMOTE
PENDANT**

through a 24
volt transformer
for safety.
Incorporates
motor ON/OFF
button

SPECIFICATIONS

| Model Number | Motor (kW) | Voltage† (1 Ph.) | Hz | Amps | Usable Oil Capacity (L) | Max. Pressure Rating (MPR) bar | Flow Rate (Lpm) | | Remote Pendant Function | Weight (kg) | Dimension W x L x H (mm) |
|--------------------|------------|------------------|-------|------|-------------------------|--------------------------------|-----------------|---------|-------------------------|-------------|--------------------------|
| | | | | | | | 30 bar | MPR bar | | | |
| PEMH0543 | 0.5 | 220 | 50/60 | 6 | 4 | 1,500 | 2 | 0.13 | ON/OFF | 19 | 180 x 265 x 465 |
| PEMH0543-2K | 0.5 | 220 | 50/60 | 6 | 4 | 2,000 | 2 | 0.13 | ON/OFF | 19 | 180 x 265 x 465 |

† Standard motor supplied is 220V, 6A, should 115V, 13A be required; add "-115V" to the end of the model number, eg. "PEMH0543-2K-115V"

BOLTING & TORQUE SOLUTIONS

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DBTP SERIES BOLT TENSIONING 1500BAR HAND PUMP **DURAPAC**

OVERVIEW

This kit is ideal for single-stud or small- to medium-bolt tensioning applications. The DBTP-1500K Ultra High-Pressure 1500 Bar Kit consists of:

- P-2100H Hand Pump
- FGA-2 Gauge Adaptor
- PG-100-40K Pressure Gauge


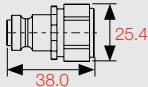
BOLTING & TORQUE SOLUTIONS


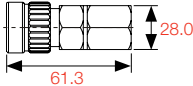


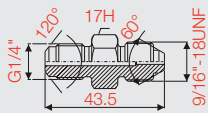
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DBTP SERIES BOLT TENSIONING 1500BAR HAND PUMP **DURAPAC**

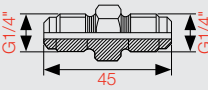
ACCESSORIES

| Model Number | Dimensions (mm) | Description | Dimensions |
|---|---|-------------------------------------|---|
|  Quick Release Nipple |  | Max. W.P. 150 MPa Min. B.P. 300 MPa | Connect: G1/4" Weight: 60 g Rec. Torque: 40 - 50 Nm Hexagon key handle: 22 |


| | | | |
|--|---|-------------------------------------|--|
|  Quick Release Coupler |  | Max. W.P. 150 MPa Min. B.P. 300 MPa | Connect: G1/4" Weight: 165 g Rec. Torque: 40 - 50 Nm Hexagon key handle: 24 |
|--|---|-------------------------------------|--|

| Model Number | Dimensions (mm) | End One | End Two |
|----------------------------|---|---|--|
| DBT14129166I WP 250 MPA |  | G1/4" male thread with 120° external cone | 9/16"-18UNF male thread with 60° external cone |

| | | | |
|----------------------------|--|---|--|
| DBT14129166E WP 300 MPA |  | G1/4" male thread with 120° external cone | 9/16"-18UNF male thread with 60° external cone |
|----------------------------|--|---|--|

| | | | |
|----------------------------|---|---|---|
| DBT14121412E WP 300 MPA |  | G1/4" male thread with 120° external cone | G1/4" male thread with 120° external cone |
|----------------------------|---|---|---|

| | | | |
|-----------|---|---|---|
| DBT1412SP |  | G1/4" male thread with 120° external cone | - |
|-----------|---|---|---|

| Model Number | Description | End One | End Two |
|---|--|------------|------------|
|  | Inner core: Polyoxymethylene (POM) Outer cover: Polyamide (PA) 4 layers of high-tensile steel wire Inside Diameter: 5.0 mm, Outside Diameter: 11.2 mm Working Pressure: 1,800 bar, Burst Pressure: 4,500 bar Minimum Bend Radius: 150 mm Weight: 0.26 kg/M | G1/4" Male | G1/4" Male |

* Confirm hose length in metres when ordering

BOLTING & TORQUE SOLUTIONS

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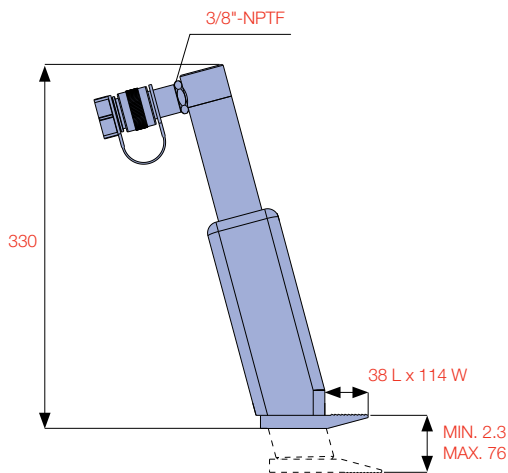
DHS SERIES HYDRAULIC SPREADERS

OVERVIEW

The DHS series of hydraulic spreaders is ideally suited for spreading, lifting, and leveling tasks. The DHS-5 model is designed specifically for flange spreading operations. All models feature high-strength steel construction and a spring-return cylinder.

DHS-5 ADVANTAGES

- 5 ton spreading force
- 2.3 - 76 mm spreading capability
- jaws open parallel
- will not drift away or creep down
- all metal construction



DURAPAC



DHS-5

DHS-05 ADVANTAGES

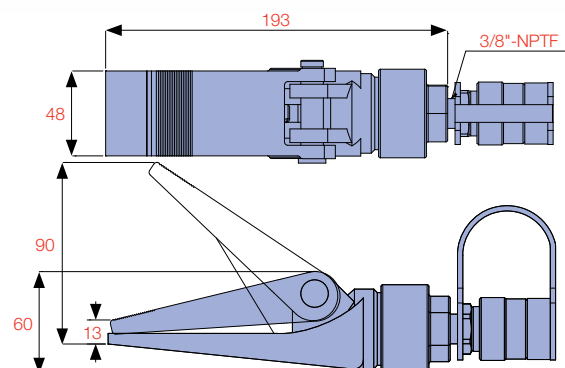
- 1/2 ton spreading force
- 13 - 90 mm spreading capability
- economy model



DHS-05

SPECIFICATIONS

| Model Number | Capacity (ton) | Oil Capacity (cc) | Tip Clearance Min. (mm) | Spread Max. (mm) | Weight (kg) |
|---------------|----------------|-------------------|-------------------------|------------------|-------------|
| DHS-05 | 0.5 | 9.5 | 13 | 90 | 1.9 |
| DHS-1 | 1 | 14 | 12.8 | 96.5 | 2.2 |
| DHS-5 | 5 | 82 | 2.3 | 76 | 6.2 |
| DHS-15 | 15 | 26 | 5 | 15 | 3.5 |



DHS SERIES HYDRAULIC SPREADERS

DURAPAC

DHS-15 ADVANTAGES

- designed for rugged operating applications
- 15 ton spreading force
- 5 - 15 mm spreading capability
- serrated jaws for grip



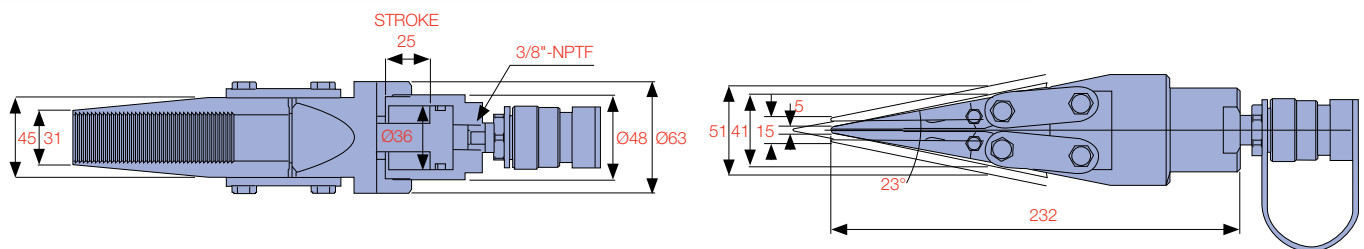
CAPACITY RANGE
0.5 - 15 ton

SPREAD RANGE
2.3 - 96.5 mm

MAXIMUM OPERATING PRESSURE
700 bar



DHS-15

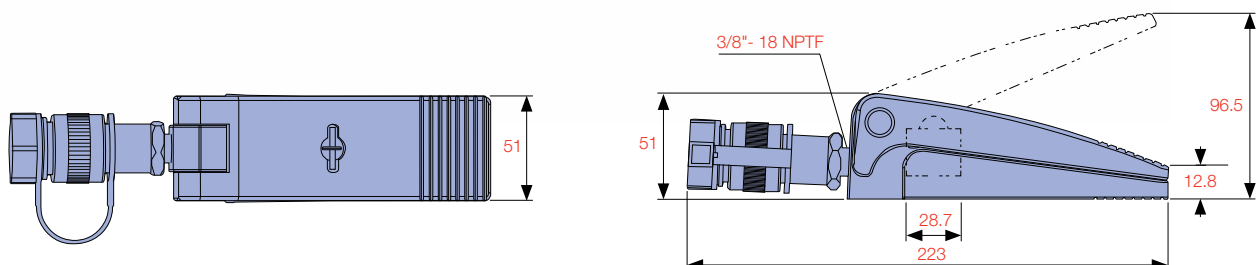


DHS-1 ADVANTAGES

- 1 ton spreading force
- 12.8 - 96.5 mm spreading capability
- general purpose spreader for many industrial applications



DHS-1



BOLTING & TORQUE SOLUTIONS

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DLW SERIES REMOTE HYDRAULIC LIFTING WEDGES **DURAPAC**

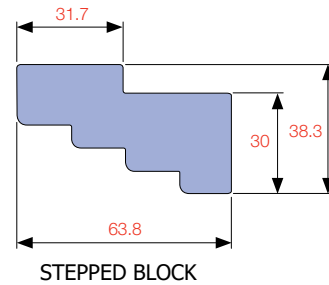
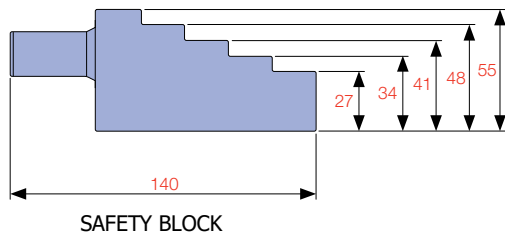
OVERVIEW

The DLW series hydraulic lifting wedge is the ideal choice for heavy equipment lifting with minimal clearance. Its innovative design makes the lifting wedges both practical and a perfect complement to high-tonnage skates. Both models sit flush on a flat surface. The DLW-18S model features a self-contained hydraulic system, eliminating the need for hoses, couplers, or pumps.



DLW-18

Supplied with a stepped & safety block 



SPECIFICATIONS

| Model No. | Operation | Wedgehead (ton) | Safety Block | Stepped Block | Hex Key & Screw | Handle Rod | Carry Case | Weight (kg) |
|----------------|----------------|-----------------|--------------|---------------|-----------------|------------|------------|-------------|
| DLW-18 | Remote | 18 | 1 | 1 | 1 | - | - | 8.5 |
| DLW-18S | Self-contained | 18 | 1 | 1 | 1 | 1 | 1 | 12.0 |

DLW SERIES REMOTE HYDRAULIC LIFTING WEDGES **DURAPAC**

LINEAR ACTION
 for smooth, straight movement

STEPS
 offer 20 mm of vertical lift

ACCESS GAP
 is only 9.5 mm

SINGLE ACTING SPRING RETURN CYLINDER
 for easy retraction

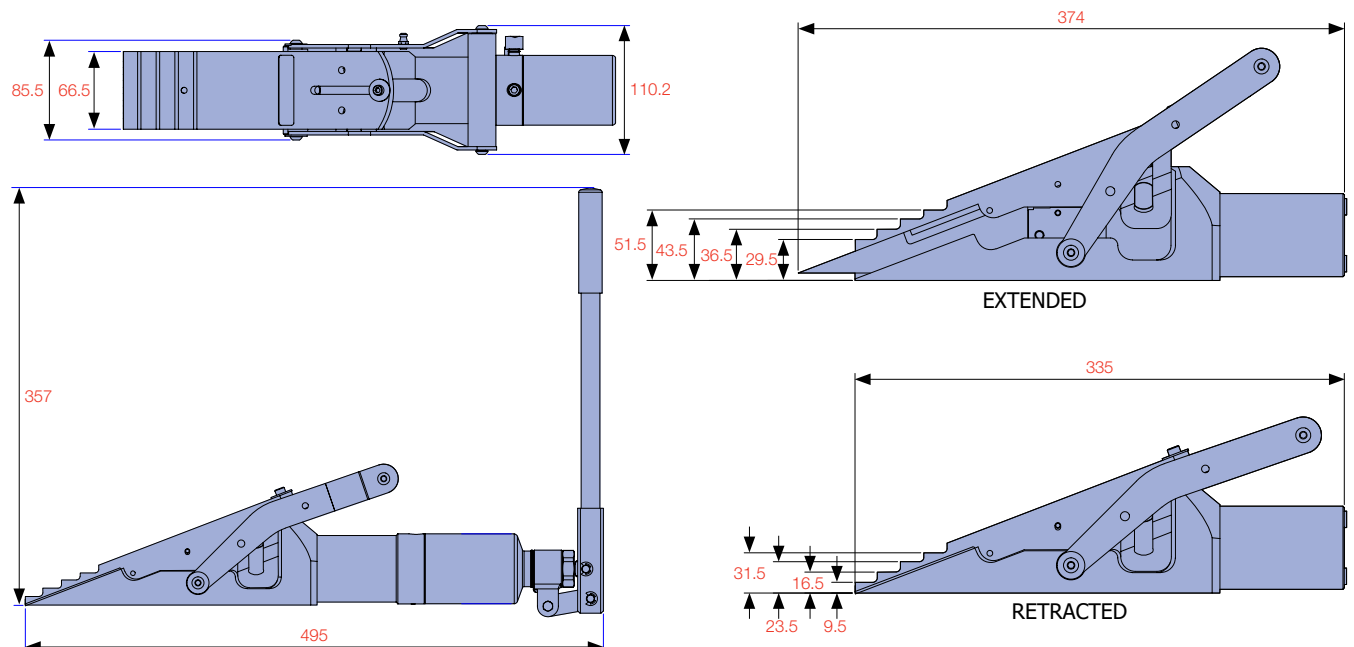
CAPACITY
18 ton

OPERATION
Remote & Self-contained

MAXIMUM OPERATING PRESSURE
700 bar

SUPPLIED WITH A STEPPED AND SAFETY BLOCK

DLW-18 shown above but features apply to both models



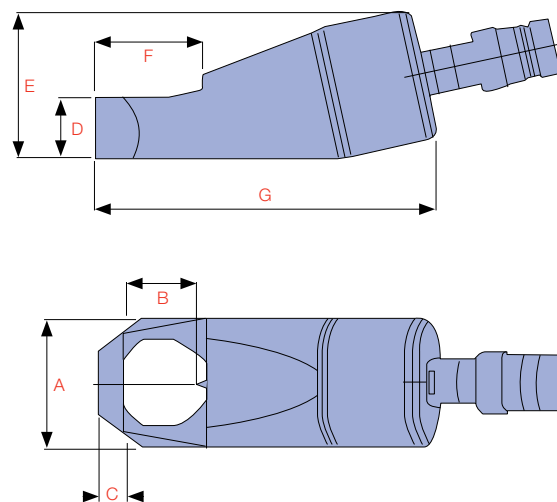
BOLTING & TORQUE SOLUTIONS

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DNS SERIES HYDRAULIC HYDRAULIC NUT SPLITTERS **DURAPAC**

OVERVIEW

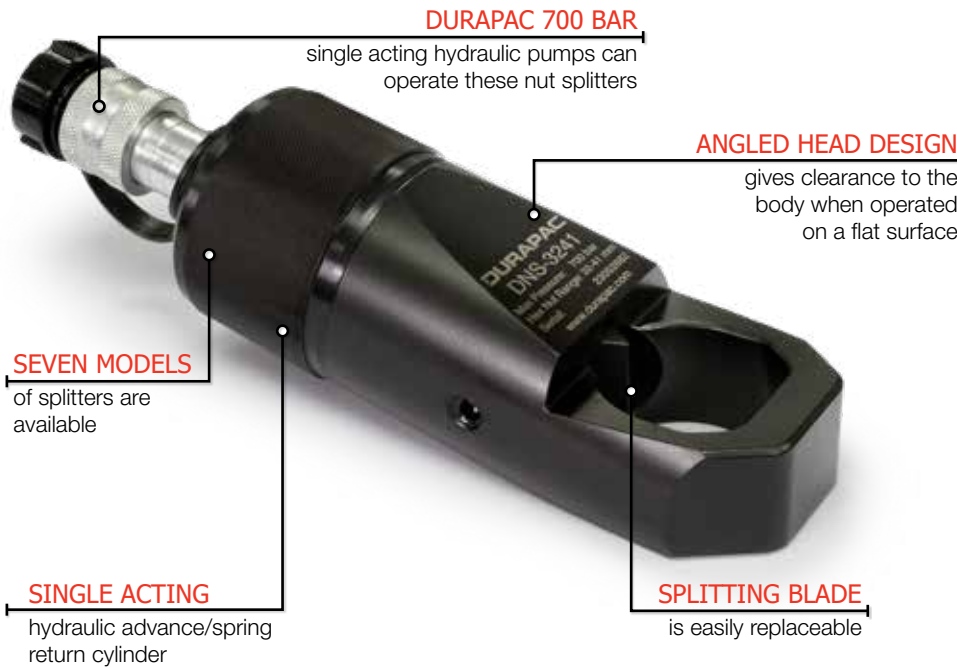
The DNS series of nut splitters consists of seven models, designed to handle difficult-to-remove nuts ranging from 10–75 mm A/F capacity. They are proven performers in railway, pipeline, petrochemical, heavy vehicle, mining, steel, and industrial applications. DNS series nut splitters use a single-acting hydraulic-advance/spring-return cylinder, providing between 5–90 ton of force. All models can be operated by a 700 bar lightweight single-acting hand pump or power unit. The unique angled-head design provides clearance to the body when operating on a flat surface. Compact in design, these tools are capable of splitting nuts up to hardness HRC 44. Each tool is supplied in a heavy-duty molded plastic storage case, except the DNS-6075, which comes with a wooden case.



SPECIFICATIONS

| Model No. | Bolt Range | Hex Nut Range (mm) | Capacity (ton) | Oil Capacity (cm ³) | Dimensions (mm) | | | Weight (kg) | Spare Blade Model Number |
|-----------------|------------|--------------------|----------------|---------------------------------|-----------------|--------|--------|-------------|--------------------------|
| | | | | | Width | Length | Height | | |
| DNS-1319 | M6-M12 | 10-19 | 5 | 13 | 40 | 170 | 48 | 1.2 | DNS-1319-4 |
| DNS-1924 | M12-M16 | 19-24 | 10 | 21 | 54 | 191 | 62 | 2.0 | DNS-1924-4 |
| DNS-2432 | M16-M22 | 24-32 | 15 | 58 | 64 | 222 | 72 | 3.0 | DNS-2432-4 |
| DNS-3241 | M22-M27 | 32-41 | 20 | 88 | 75 | 244 | 88 | 4.4 | DNS-3241-4 |
| DNS-4150 | M27-M33 | 41-50 | 35 | 153 | 94 | 288 | 105 | 8.5 | DNS-4150-4 |
| DNS-5060 | M33-M39 | 50-60 | 50 | 233 | 106 | 318 | 128 | 11.8 | DNS-5060-4 |
| DNS-6075 | M39-M48 | 60-75 | 90 | 492 | 156 | 393 | 181 | 34.1 | DNS-6075-4 |

DNS SERIES HYDRAULIC NUT SPLITTERS DURAPAC



BOLT RANGE
M6 - M48

HEX NUT RANGE
10 - 75mm

MAXIMUM NUT HARDNESS
HRc-44

MAXIMUM OPERATING PRESSURE
700 bar

i Durapac offer a range of lightweight portable hand pump options to suit the DNS-Series nut splitters. Spare chisel and storage case included with each tool



SPECIFICATIONS

| Model No. | Dimensions (mm) | | | | | | |
|-----------------|-----------------|------|------|------|-------|-------|-------|
| | A | B | C | D | E | F | G |
| DNS-1319 | 39.8 | 20.9 | 7.0 | 19.0 | 49.7 | 29.0 | 120.0 |
| DNS-1924 | 53.8 | 25.3 | 10.0 | 25.0 | 62.2 | 40.0 | 146.0 |
| DNS-2432 | 64.0 | 33.6 | 13.0 | 30.0 | 76.5 | 51.8 | 181.0 |
| DNS-3241 | 77.0 | 42.7 | 16.0 | 36.0 | 87.3 | 64.9 | 205.0 |
| DNS-4150 | 94.0 | 53.8 | 21.1 | 44.7 | 108.0 | 76.0 | 244.0 |
| DNS-5060 | 106.0 | 60.8 | 24.3 | 54.3 | 125.3 | 92.0 | 289.0 |
| DNS-6075 | 156.2 | 80.4 | 27.0 | 75.0 | 184.0 | 110.0 | 365.0 |

P-SERIES STEEL BODIED MANUAL HAND PUMPS



OVERVIEW

The P-Series offers a range of steel-bodied models, ideal for portable hydraulic power. They support both single and double-acting cylinders, as well as tools. Each pump includes a factory-set safety pressure relief valve and comes pre-filled with hydraulic oil.

VALVE TYPE



SPECIFICATIONS

| Model Number | P-170 | P-235 | P-235L | P-250 | P-270 | P-290 | P-2200 | P-2200D | P-2260 | P-2800 | P-2800D | |
|--|----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|
| Pump Type | Steel Bodied | | | | | | | | | High Flow | | |
| Operation | Single Speed | Two Speed | Two Speed | Two Speed | Two Speed | Two Speed | Two Speed | Two Speed | Two Speed | Two Speed | Two Speed | |
| Used with Cylinder | S/A | S/A | S/A | S/A | S/A | S/A | S/A | D/A | S/A | S/A | D/A | |
| Valve Type | 2 Way | 2 Way | 2 Way | 2 Way | 2 Way | 2 Way | 2 Way | 4 Way | 2 Way | 2 Way | 4 Way | |
| Pressure Rating (bar) 1st/2nd Stage | 1st 700 | 13.8 / 700 | 13.8 / 240 | 13.8 / 700 | 13.8 / 700 | 14 / 700 | 13.8 / 700 | 13.8 / 700 | 28 / 700 | 27.5 / 700 | 27.5 / 700 | |
| Usable Oil Capacity (cc) | 700 | 350 | 350 | 500 | 700 | 900 | 2,000 | 2,000 | 2,600 | 8,000 | 8,000 | |
| Oil Volumes per Stroke (cc) 1st/2nd Stage | 1st 3.1 | 7 / 1 | 13 / 2.8 | 7 / 1 | 13 / 2.8 | 12.5 / 2.8 | 13 / 2.8 | 13 / 2.8 | 30 / 3 | 113 / 4 | 113 / 4 | |
| Oil Port Thread | 3/8"-NPTF | 3/8"-NPTF | 3/8"-NPTF | 3/8"-NPTF | 3/8"-NPTF | 3/8"-NPTF | 3/8"-NPTF | 3/8"-NPTF | 3/8"-NPTF | 3/8"-NPTF | 3/8"-NPTF | |
| Max. Handle Effort (kg) | 33 | 34 | 25 | 30 | 41 | 33 | 35 | 37 | 36 | 29 | 29 | |
| Approx Dimensions (mm) | L | 596 | 363 | 335 | 447 | 601 | 582 | 765 | 765 | 735 | 728 | 728 |
| | W | 128 | 142 | 128 | 140 | 140 | 136 | 146 | 146 | 146 | 310 | 310 |
| | H | 146 | 146 | 146 | 146 | 146 | 150 | 176 | 176 | 176 | 261 | 261 |
| Weight with Oil (kg) | 6.5 | 5.5 | 5.5 | 6.2 | 7.3 | 7.5 | 11.5 | 14.5 | 13.5 | 29.0 | 30.0 | |
| Cylinder Capacity vs Pump Handle Strokes: mm Movement per Pump Handle Stroke | | | | | | | | | | | | |
| Pressure Stage | 1st | 1st / 2nd | 1st / 2nd | 1st / 2nd | 1st / 2nd | 1st / 2nd | 1st / 2nd | 1st / 2nd | 1st / 2nd | 1st / 2nd | 1st / 2nd | |
| Cylinder Capacity (ton) | 5 | 5 | 11.2 / 1.6 | 20.8 / 4.5 | 11.2 / 1.6 | 20.8 / 4.5 | 20.2 / 4.5 | 20.8 / 4.5 | 20.8 / 4.5 | 48 / 4.8 | 180.8 / 6.4 | 180.8 / 6.4 |
| | 10 | 2.1 | 4.8 / 0.7 | 9 / 1.9 | 4.8 / 0.7 | 9 / 1.9 | 8.8 / 1.9 | 9 / 1.9 | 9 / 1.9 | 20.7 / 2.1 | 78.1 / 2.8 | 78.1 / 2.8 |
| | 15 | 1.5 | 3.4 / 0.5 | 6.4 / 1.4 | 3.4 / 0.5 | 6.4 / 1.4 | 6.2 / 1.4 | 6.4 / 1.4 | 6.4 / 1.4 | 14.8 / 1.5 | 55.7 / 2 | 55.7 / 2 |
| | 20 | 1.1 | 2.5 / 0.4 | 4.6 / 1 | 2.5 / 0.4 | 4.6 / 1 | 4.4 / 1 | 4.6 / 1 | 4.6 / 1 | 10.6 / 1.1 | 40 / 1.4 | 40 / 1.4 |
| | 25 | 0.9 | 2.1 / 0.3 | 3.9 / 0.8 | 2.1 / 0.3 | 3.9 / 0.8 | 3.8 / 0.8 | 3.9 / 0.8 | 3.9 / 0.8 | 9 / 0.9 | 34 / 1.2 | 34 / 1.2 |
| | 30 | 0.7 | 1.7 / 0.2 | 3.1 / 0.7 | 1.7 / 0.2 | 3.1 / 0.7 | 3 / 0.7 | 3.1 / 0.7 | 3.1 / 0.7 | 7.1 / 0.7 | 26.9 / 1 | 26.9 / 1 |
| | 50 | - | 1 / 0.1 | 1.8 / 0.4 | 1 / 0.1 | 1.8 / 0.4 | 1.7 / 0.4 | 1.8 / 0.4 | 1.8 / 0.4 | 4.2 / 0.4 | 15.9 / 0.6 | 15.9 / 0.6 |
| | 75 | - | - | 1.3 / 0.3 | - | 1.3 / 0.3 | 1.2 / 0.3 | 1.3 / 0.3 | 1.3 / 0.3 | 2.9 / 0.3 | 11 / 0.4 | 11 / 0.4 |
| | 100 | - | - | 1 / 0.2 | - | 1 / 0.2 | 0.9 / 0.2 | 1 / 0.2 | 1 / 0.2 | 2.3 / 0.2 | 8.5 / 0.3 | 8.5 / 0.3 |
| | 150 | - | - | 0.6 / 0.1 | - | 0.6 / 0.1 | 0.5 / 0.1 | 0.6 / 0.1 | 0.6 / 0.1 | 1.5 / 0.2 | 5.6 / 0.2 | 5.6 / 0.2 |
| 200 | - | - | - | - | - | - | - | - | 1 / 0.1 | 4 / 0.2 | 4 / 0.2 | |
| 250 | - | - | - | - | - | - | - | - | - | 3.1 / 0.1 | 3.1 / 0.1 | |

BOLTING & TORQUE SOLUTIONS

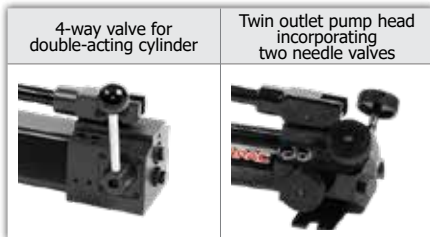
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P-SERIES ALUMINIUM BODIED MANUAL HAND PUMPS **DURAPAC**

OVERVIEW

The P-Series offers a range aluminum-bodied models, ideal for portable hydraulic power. They support both single and double-acting cylinders, as well as tools. Each pump includes a factory-set safety pressure relief valve and comes pre-filled with hydraulic oil.

VALVE TYPES



SPECIFICATIONS

| Model Number | P-235A | *P-235AT | *P-2100A | P-2100H | P-2200A | P-2200AD |
|--|------------------|-------------|-----------|------------|-----------|------------|
| Pump Type | Aluminium Bodied | | | | | |
| Operation | Two Speed | Two Speed | Two Speed | Two Speed | Two Speed | Two Speed |
| Used with Cylinder | S/A | S/A | S/A | S/A | S/A | D/A |
| Valve Type | 2 Way | Twin Outlet | 2 Way | 2 Way | 2 Way | 4 Way |
| Pressure Rating (bar) 1st/2nd Stage | 13.8 / 700 | 13.8 / 700 | 14 / 700 | 28 / 2800 | 14 / 700 | 13.8 / 700 |
| Usable Oil Capacity (cc) | 350 | 350 | 1,000 | 1,000 | 2,000 | 2,000 |
| Oil Volumes per Stroke (cc) 1st/2nd Stage | 3.9 / 0.59 | 3.9 / 0.59 | 13 / 2.3 | 13 / 0.7 | 13 / 2.3 | 13 / 2.3 |
| Oil Port Thread | 3/8"-NPTF | 3/8"-NPTF | 3/8"-NPTF | 3/4"-16UNF | 3/8"-NPTF | 3/8"-NPTF |
| Max. Handle Effort (kg) | 55 | 55 | 40 | 40 | 39 | 38 |
| Approx Dimensions (mm) | L | 387 | 421 | 539 | 624 | 655 |
| | W | 142 | 142 | 110 | 146 | 150 |
| | H | 129 | 129 | 129 | 156 | 135 |
| Weight with Oil (kg) | 3.7 | 3.8 | 3.5 | 6.9 | 6.5 | 7.5 |
| Cylinder Capacity vs Pump Handle Strokes: mm Movement per Pump Handle Stroke | | | | | | |
| Pressure Stage | 1st / 2nd | 1st / 2nd | 1st / 2nd | 1st / 2nd | 1st / 2nd | 1st / 2nd |
| Cylinder Capacity (ton) | 5 | 6.2 / 1 | 6.2 / 1 | 20.8 / 3.7 | 20.8 / 1 | 20.8 / 3.7 |
| | 10 | 2.6 / 0.4 | 2.6 / 0.4 | 9 / 1.6 | 9 / 0.4 | 9 / 1.6 |
| | 15 | 1.9 / 0.3 | 1.9 / 0.3 | 6.4 / 1.1 | 6.4 / 0.3 | 6.4 / 1.1 |
| | 20 | 1.3 / - | 1.3 / - | 4.6 / 0.8 | 4.6 / 0.2 | 4.6 / 0.8 |
| | 25 | 1.1 / - | 1.1 / - | 3.9 / 0.7 | 3.9 / 0.2 | 3.9 / 0.7 |
| | 30 | 0.9 / - | 0.9 / - | 3.1 / 0.5 | 3.1 / 0.2 | 3.1 / 0.5 |
| | 50 | - | - | 1.8 / 0.3 | 1.8 / 0.1 | 1.8 / 0.3 |
| | 75 | - | - | - / 0.2 | - | 1.3 / 0.2 |
| | 100 | - | - | - / 0.2 | - | 1 / 0.2 |
| | 150 | - | - | - / 0.1 | - | 0.6 / 0.1 |
| 200 | - | - | - | - | - | |
| 250 | - | - | - | - | - | |

*Both P-235A & P-235AT come with sealed bladder reservoirs that enable the use of the pump at any operating angle.

BOLTING & TORQUE SOLUTIONS

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| NATO supply number | tool type | torque range | drive square | item number |
|--------------------|-------------------------------------|--------------|--------------|-------------|
| 5130-12-641-3052 | Cordless Torque Multiplier EB-S 80 | 110-850 Nm | 3/4 " | 43051 |
| 5130-12-641-3057 | Cordless Torque Multiplier EB-S 150 | 150-1400 Nm | 3/4 " | 43053 |
| 5130-12-641-3059 | Cordless Torque Multiplier EB-S 180 | 250-1800 Nm | 1 " | 43054 |
| 5130-12-641-3060 | Cordless Torque Multiplier EB-S 250 | 350-2500 Nm | 1 " | 43055 |
| 5130-12-641-3062 | Cordless Torque Multiplier EB-S 350 | 480-3500 Nm | 1 " | 43056 |
| 5130-12-641-3063 | Cordless Torque Multiplier EB-S 400 | 560-4000 Nm | 1 " | 43059 |
| 5130-12-641-3066 | Cordless Torque Multiplier EB-S 480 | 650-4800 Nm | 1 1/2 " | 43057 |
| 5130-12-641-3069 | Cordless Torque Multiplier EB-S 600 | 800-6000 Nm | 1 1/2 " | 43058 |

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