



Atlas Copco



Low Torque Tools



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know more

LOW TORQUE CLUTCH TOOLS

EBL are clutch electric screwdrivers designed for low torque applications, brushless motor combined with proven clutch delivers the best for less complex assembly process. Featuring superior ergonomics and the latest technology, EBL screwdriver is setting new standards for electric low-torque screwdrivers.

A brushless motor provides long working life, extended service intervals and low maintenance requirements. Good ergonomics mean maximum operator comfort: comfortable grip, low tool weight and lower noise level due to the brushless motor. Reporting tool models have a batch count feature that ensures that all screws have been tightened. Soft-stop feature on certain models prevents damage to sensitive electronics and plastic assembly components.

PRODUCT PORTFOLIO - EBL



Straight handheld



Pistol grip



Angle shape

Main technical parameters:

| | |
|-------------------------------|------------------------------------|
| Accuracy: | ±10 % acc. ISO 5393 |
| Torque Range: | 0,05 – 5,5 Nm |
| Speed: | 600 – 1500 RPM (HI/LO speed setup) |
| Connectivity | Only I/O - OK signal |
| Remote start | No |
| Number of tightening programs | 1 |
| Target parameters | Torque only mechanical clutch |
| Control parameters | No |
| Results memory | No |

FEATURES

- OK, Batch OK
- Vacuum pick-up control
- Soft stop to protect sensitive components
- Tightening blocking, tightening allowing
- HI/LO speed setup
- ESD and UL certified
- Push-to-Start or Lever start configurable

BENEFITS

- Brushless motor
- Simple tool, easy to install and operate
- Low cost solution for basic applications
- No need of compressed air compared to pneumatic screwdrivers

WHERE TO USE

Tightening screws on non-critical applications - missing screw or wrong tightening is affordable (for example no impact on safety, or function of final product).

| Model | Screw capacity | Torque range soft joint | | Free speed r/min | Weight | | Length mm | Bit drive | Ordering No. |
|-----------------------------------|----------------|-------------------------|----------|------------------|--------|-----|-----------|----------------|--------------|
| | | Nm | ft lb | | kg | lb | | | |
| Standard models | | | | | | | | | |
| EBL03 | M1-2 | 0.05-0.3 | 0.4-2.7 | 870 | 0.3 | 0.7 | 185 | Wing type 4 mm | 8431 0170 02 |
| EBL03-Q | M1-2 | 0.05-0.3 | 0.4-2.7 | 870 | 0.3 | 0.7 | 185 | 1/4" Hex | 8431 0170 04 |
| EBL12 | M2-3 | 0.2-1.2 | 1.8-10.6 | 910 | 0.5 | 1.1 | 215 | 1/4" Hex | 8431 0170 11 |
| EBL12-1500 | M2-3 | 0.2-1.2 | 1.8-10.6 | 1500 | 0.5 | 1.1 | 215 | 1/4" Hex | 8431 0170 41 |
| EBL20 | M2-3 | 0.5-2.0 | 4.5-18 | 750 | 0.5 | 1.1 | 215 | 1/4" Hex | 8431 0170 16 |
| EBL21-1500 | M2-3 | 0.5-2.1 | 4.5-19 | 1500 | 0.8 | 1.8 | 235 | 1/4" Hex | 8431 0170 43 |
| EBL25 | M2.5-4 | 1.0-2.5 | 8.8-22.1 | 930 | 0.8 | 1.8 | 235 | 1/4" Hex | 8431 0170 23 |
| EBL25-1500 *a | M2.5-4 | 1.0-2.5 | 8.8-22.1 | 1500 | 0.8 | 1.8 | 235 | 1/4" Hex | 8431 0170 25 |
| EBL35 | M2.5-4 | 1.0-3.5 | 8.8-31 | 700 | 0.8 | 1.8 | 235 | 1/4" Hex | 8431 0170 33 |
| EBL45 *c | M2.5-5 | 1.0-4.5 | 8.8-40 | 700 | 0.8 | 1.8 | 235 | 1/4" Hex | 8431 0170 40 |
| EBL55 *c | M2.5-5 | 1.0-5.5 | 8.8-48 | 600 | 0.8 | 1.8 | 235 | 1/4" Hex | 8431 0170 44 |
| Soft-stop models | | | | | | | | | |
| EBL03-SS | M1-2 | 0.05-0.3 | 0.4-2.7 | 870 | 0.3 | 0.7 | 185 | Wing type 4 mm | 8431 0170 07 |
| EBL12-SS | M2-3 | 0.2-1.2 | 1.8-10.6 | 910 | 0.5 | 1.1 | 215 | 1/4" Hex | 8431 0170 15 |
| EBL20-SS | M2-3 | 0.5-2.0 | 4.5-18 | 750 | 0.5 | 1.1 | 215 | 1/4" Hex | 8431 0170 20 |
| EBL25-SS | M2.5-4 | 1.0-2.5 | 8.8-22.1 | 930 | 0.8 | 1.8 | 235 | 1/4" Hex | 8431 0170 28 |
| EBL35-SS | M2.5-4 | 1.0-3.5 | 8.8-31 | 700 | 0.8 | 1.8 | 235 | 1/4" Hex | 8431 0170 38 |
| Reporting models | | | | | | | | | |
| EBL03-RE | M1-2 | 0.05-0.3 | 0.4-2.7 | 870 | 0.3 | 0.7 | 185 | Wing type 4 mm | 8431 0170 55 |
| EBL03-Q-RE | M1-2 | 0.05-0.3 | 0.4-2.7 | 870 | 0.3 | 0.7 | 185 | 1/4" Hex | 8431 0170 06 |
| EBL12-RE | M2-3 | 0.2-1.2 | 1.8-10.6 | 910 | 0.5 | 1.1 | 215 | 1/4" Hex | 8431 0170 13 |
| EBL12-1500-RE | M2-3 | 0.2-1.2 | 1.8-10.6 | 1500 | 0.5 | 1.1 | 215 | 1/4" Hex | 8431 0170 18 |
| EBL20-RE | M2-3 | 0.5-2.0 | 4.5-18 | 750 | 0.5 | 1.1 | 215 | 1/4" Hex | 8431 0170 19 |
| EBL21-1500-RE | M2-3 | 0.5-2.1 | 4.5-19 | 1500 | 0.8 | 1.8 | 235 | 1/4" Hex | 8431 0170 47 |
| EBL25-RE | M2.5-4 | 1.0-2.5 | 8.8-22.1 | 930 | 0.8 | 1.8 | 235 | 1/4" Hex | 8431 0170 26 |
| EBL25-1500-RE*b | M2.5-4 | 1.0-2.5 | 8.8-22.1 | 1500 | 0.8 | 1.8 | 235 | 1/4" Hex | 8431 0170 22 |
| EBL35-RE | M2.5-4 | 1.0-3.5 | 8.8-31 | 700 | 0.8 | 1.8 | 235 | 1/4" Hex | 8431 0170 36 |
| EBL45-RE*d | M2.5-5 | 1.0-4.5 | 8.8-40 | 700 | 0.8 | 1.8 | 235 | 1/4" Hex | 8431 0170 42 |
| EBL55-RE*d | M2.5-5 | 1.0-5.5 | 8.8-48 | 600 | 0.8 | 1.8 | 235 | 1/4" Hex | 8431 0170 45 |
| Soft-stop reporting models | | | | | | | | | |
| EBL03-SS-RE | M1-2 | 0.05-0.3 | 0.4-2.7 | 870 | 0.3 | 0.7 | 185 | Wing type 4 mm | 8431 0170 08 |
| EBL12-SS-RE | M2-3 | 0.2-1.2 | 1.8-10.6 | 910 | 0.5 | 1.1 | 215 | 1/4" Hex | 8431 0170 17 |
| EBL20-SS-RE | M2-3 | 0.5-2.0 | 4.5-18 | 750 | 0.5 | 1.1 | 215 | 1/4" Hex | 8431 0170 21 |
| EBL25-SS-RE | M2.5-4 | 1.0-2.5 | 8.8-22.1 | 930 | 0.8 | 1.8 | 235 | 1/4" Hex | 8431 0170 29 |
| EBL35-SS-RE | M2.5-4 | 1.0-3.5 | 8.8-31 | 700 | 0.8 | 1.8 | 235 | 1/4" Hex | 8431 0170 39 |

*a EBL 25-1500 to be used with EBL Drive Plus.

*b EBL 25-1500-RE to be used with EBL Drive Plus and EBL RE Module.

*c EBL 45, 55 to be used with EBL Drive Plus.

NOTE: Max torque reduced to 80% when run on slow speed and soft joints.

*d EBL 45-RE and EBL 55-RE to be used with EBL Drive Plus and EBL RE module.

NOTE: Max torque reduced to 80% when run on slow speed and soft joints

All tools models, drives and cables are ESD and UL certified.

Tool box include cable for drive connection (standard models with 5 pins cable and reporting models with 6 pins cable).

All the models are push-to-start or lever start configurable.

EBL ACCESSORIES

| Model | Ordering No. |
|--|--------------|
| Vacuum pick-up accessories (not ESD approved) | |
| Vacuum pump – 220V | 4220 0062 00 |
| Vacuum pump – 115V | 4220 0062 05 |
| Nozzle blank Ø 8 mm for EBL 03 | 4220 0067 03 |
| Nozzle blank Ø 8 mm for EBL 12, 20, 21, 25, 35 | 4220 0070 03 |
| Nozzle blank Ø 14 mm for EBL 12, 20, 21, 25, 35 | 4220 0072 03 |
| Vacuum pick-up adapter for EBL 03 | 4220 0080 30 |
| Vacuum pick-up adapter for EBL 12, 20 | 4220 0080 31 |
| Vacuum pick-up adapter for EBL 21, 25, 35 | 4220 0080 33 |
| Cables (not ESD approved) | |
| Spiral cable, 1.3 m (5 pin) | 4220 0347 00 |
| Spiral cable, 1.3 m (6 pin) | 4220 0349 00 |
| Heavy duty, cable 2.0 m (5 pin) | 4216 0132 00 |
| Heavy duty, cable 2.0 m (6 pin) | 4216 0133 00 |
| Cables (ESD approved) | |
| Extension cable *b 3.0 m (5 pin) | 4220 0138 01 |
| Extension cable *b 3.0 m (6 pin) | 4216 0115 00 |

*b Maximum total length 8 m.

Screw dispenser

SDS Screw dispenser

Pistol grip (ESD approved)

EBL 12, 20

EBL 21, 25, 35, 45, 55

Angle head

Front part square drive 1/4" (06)

Hex bit drive 1/4" (42)

Hex quick change 1/4" (Q)

Adapter

Adapter EBL 12, 20

Adapter EBL 21/25/35/45/55

Both angle head and adapter needs to be ordered for mounting on EBL.



LOW TORQUE CONTROLLERS - EBL DRIVE

EBL Drive

Drive module for EBL tools. Available in three versions:

- EBL Drive - For standard tools and soft-stop tools
- EBL RE - Drive - For reporting tools and soft-stop tools + reporting tools
- EBL Drive Plus - For all standard tools, soft-stop tools and special tools
- EBL RE module - To be connected between EBL Drive or EBL Drive Plus and RE tools

PRODUCT PORTFOLIO - EBL DRIVES AND RE MODULE



EBL Drive



EBL RE-Drive



EBL Drive Plus



EBL RE module

| Model | Ordering No. |
|---|--------------|
| Drives | |
| EBL Drive (For standard models and soft-stop models) | 8431 0170 70 |
| IAM MT Workstation | 8432 0852 10 |
| IAM MT Process | 8432 0852 20 |
| EBL RE-Drive (For reporting models and soft-stop + reporting models) | 8431 0170 75 |
| EBL Drive Plus (For all standard models and soft-stop models) | 8431 0170 85 |
| EBL Drive Plus is required for EBL25-1500, EBL25-1500-RE, EBL45, EBL45-RE, EBL55 and EBL55-RE | |
| EBL reporting module | |
| EBL RE module | 8431 0170 76 |

RE module to be connected between EBL Drive or EBL Drive Plus and RE tool.

MICRO TORQUE TOOLS (TRANSDUCERIZED AND NON-TRANSDUCERIZED)

MicroTorque screwdriver range is the advanced and intelligent tightening solution for low torque applications. It excels in ergonomics, compactness and amount of functions designed for low torque applications.

Optimized tools and controller size to fit usual electronics assembly line. Equipped with remote communication standards for robotic or semi-automatic integration. Build with easy use in mind for maintenance crew and production engineers as well as operators.

Designed for production of mobile phones, electronics, medical devices and other fine and sensitive products with smallest screws.

PRODUCT PORTFOLIO - MICROTORQUE TOOLS



Fixtured current controlled



Handheld current controlled



Handheld transducerized

Main technical parameters:

| | |
|--------------------------------------|---|
| Accuracy: | Current control +/- 7,5% according ISO5393 Transducer control +/- 5% according ISO5393 |
| Torque Range: | 0,01 N.m - 2,5 N.m |
| Speed: | 0 - 2000 rpm possible change during operation |
| Connectivity | USB, Ethernet, Fieldbus, digital I/O |
| Remote start | Yes |
| Number of tightening programs | Standard 150 (or up to 999 for special robotic applications) |
| Target parameters | Torque, angle Dynamic strategies based on actual characteristic of respective joint – seating strategy |
| Control parameters | Torque, angle (rotation), speed, seating point |
| Results memory | 100 000 results 1 000 graphs |

FEATURES

- ESD & Clean room assembly certification
- Push-To-Start, Trigger start & Remote start alternatives
- Easy configuration software
- Multi-step tightening
- Simplified operator guidance / assembly process control
- Smart tightening strategies (Seating control – Clamp torque assurance)
- Errors detections (Bit slip, Damaged thread, Re-hit, ...)
- Barcode & RFID readers for direct connection
- Detailed data results stored in the controller
- Real-time traces
- TN8 compatible (reporting all results, identifiers and curves to server based data collection system)
- Remote configuration via LAN
- User rights for different access levels

BENEFITS

- Error-proofing
- Operators feedback & ergonomics
- Traceability
- Connectivity
- Efficiency
- Integration & Automation
- Seating strategy

Seating strategy:

Tightening strategy developed to control clamping force instead of torque so it compensates and dynamically responds on variations in production and in material characteristics. Target is maximizing joint and product quality.

WHERE TO USE

- Handheld and Fixtured low-torque applications up to 2,5 Nm
- Applications with medium or high demands
- Semi-automatic, Automatic and Robotic stations
- Intended also for Quality and Safety critical joints
- Typical for electronics products assembly (mobile phones, medical devices, automotive electronics components,...)
- Tuned also for tightening in plastics and multi-stacks with different layers of material

ETD AND QMC

| Model | Torque range soft joint | | Speed r/min | Length mm | Overall width mm | Weight | | Bit drive | Ordering No. |
|--|-------------------------|------------|----------------|--------------|---------------------|--------|------|-----------|--------------|
| | cNm | in lb | | | | kg | lb | | |
| Hand-held current controlled, without push-to-start | | | | | | | | | |
| ETD M 08 ABL V2 | 2-8 | 0.18-0.7 | 1350 | 185 | 29 | 0.30 | 0.66 | HM 4 mm | 8432 0815 18 |
| ETD M 20 ABL V2 | 5-20 | 0.44-1.77 | 900 | 185 | 29 | 0.30 | 0.66 | HM 4 mm | 8432 0815 21 |
| ETD M 27 ABL V2 | 7.5-27 | 0.66-2.4 | 900 | 185 | 29 | 0.30 | 0.66 | HM 4 mm | 8432 0815 27 |
| Hand-held current controlled, push-start configurable | | | | | | | | | |
| ETD M 50 ABL V2 | 15-50 | 1.33-4.4 | 1000 | 238 | 36 | 0.61 | 1.37 | HM 4 mm | 8432 0815 50 |
| ETD M 80 ABL V2 | 20-80 | 1.77-7.1 | 1100 | 238 | 36 | 0.61 | 1.37 | HM 4 mm | 8432 0815 80 |
| ETD M 120 ABL V2 | 30-120 | 2.7-10.6 | 900 | 240 | 43 | 0.65 | 1.43 | 1/4" Hex | 8432 0815 82 |
| ETD M 200 ABL V2 | 50-200 | 4.42-17.7 | 700 | 240 | 43 | 0.65 | 1.43 | 1/4" Hex | 8432 0815 84 |
| ETD M 250 ABL V2 | 75-250 | 6.64-22.13 | 700 | 240 | 43 | 0.65 | 1.43 | 1/4" Hex | 8432 0815 86 |
| NOTE: Ordering number for screwdriver only. Tool cable, controller and PSU need to be ordered separately. | | | | | | | | | |
| Fixtured current controlled | | | | | | | | | |
| QMC21-05-HM4 *a | 1.2-5 | 0.11-0.44 | 2000 | 123 | 57 | 0.2 | 0.44 | HM 4mm | 8432 0844 05 |
| QMC21-10-HM4 | 3-10 | 0.27-0.89 | 2000 | 178 | 57 | 0.3 | 0.66 | HM 4mm | 8432 0844 10 |
| QMC21-25-HM4 | 5.5-25 | 0.49-2.2 | 1000 | 178 | 57 | 0.3 | 0.65 | HM 4mm | 8432 0844 25 |
| QMC41-50-HM4 | 12.5-50 | 1.1-4.4 | 2000 | 200 | 66 | 0.6 | 1.32 | HM 4mm | 8432 0844 52 |
| QMC41-100-HM4 | 25-100 | 2.2-8.9 | 2000 | 200 | 66 | 0.6 | 1.32 | HM 4mm | 8432 0844 53 |
| QMC41-50-I06 | 12.5-50 | 1.1-4.4 | 2000 | 205 | 66 | 0.61 | 1.36 | 1/4" Hex | 8432 0844 61 |
| QMC41-100-I06 | 25-100 | 2.2-8.9 | 2000 | 205 | 66 | 0.61 | 1.36 | 1/4" Hex | 8432 0844 62 |
| QMC41-150-I06 | 37.5-150 | 3.3-13.3 | 1000 | 213 | 66 | 0.625 | 1.38 | 1/4" Hex | 8432 0844 63 |
| QMC41-250-I06 | 62.5-250 | 5.5-22.1 | 750 | 224 | 66 | 0.650 | 1.43 | 1/4" Hex | 8432 0844 64 |
| *a Only compatible with MTF6000. | | | | | | | | | |
| NOTE: Ordering number for screwdriver only. Tool cable, controller and PSU need to be ordered separately. | | | | | | | | | |
| Soft-stop reporting models | | | | | | | | | |
| ETD MT 21-25-HM4 | 5-25 | 0.44-2.21 | 1000 | 226 | 32 | 0.35 | 0.77 | HM 4 mm | 8432 0845 25 |
| ETD MT 41-50-HM4 | 10-50 | 0.9-4.4 | 2000 | 248 | 34 | 0.60 | 1.32 | HM 4 mm | 8432 0845 50 |
| ETD MT 41-100-HM4 | 20-100 | 1.8-8.9 | 2000 | 248 | 34 | 0.60 | 1.32 | HM 4 mm | 8432 0845 60 |
| ETD MT 41-50-I06 | 10-50 | 0.9-4.4 | 2000 | 254 | 34 | 0.65 | 1.43 | 1/4" Hex | 8432 0845 51 |
| ETD MT 41-100-I06 | 20-100 | 1.8-8.9 | 2000 | 254 | 34 | 0.65 | 1.43 | 1/4" Hex | 8432 0845 61 |
| ETD MT 41-150-I06 | 30-150 | 2.7-13.3 | 1000 | 254 | 34 | 0.65 | 1.43 | 1/4" Hex | 8432 0845 70 |
| ETD MT 41-250-I06 | 50-250 | 4.4-22.1 | 750 | 254 | 34 | 0.65 | 1.43 | 1/4" Hex | 8432 0845 80 |

ETD AND QMC ACCESSORIES

| Power supply unit, MTF 6000 | Battery power | Ordering No. |
|---------------------------------|---------------|--------------|
| ETD M ABL V2 and QMC, all tools | 36V / 180W | 8432 0840 02 |

| Power supply unit, MTF 6000 | Ordering No. |
|---------------------------------------|--------------|
| Controller wall fixture for MTF 6000 | 8432 0833 83 |
| Y cable for I/O connector *a | 8432 0831 99 |
| I/O extension cable 1 m | 4216 1933 80 |
| I/O adapter cable *b | 4216 2665 80 |
| Bit magnet 1/4 for Hex bits, 5 pieces | 8432 0861 02 |
| Bit magnet 4 mm for HM4 bit, 5 pieces | 8432 0861 05 |

*a Y cable for MTF6000 and G4, suitable when two I/O accessories are required.

*b Used when MTF6000 shall be connected to a MTF400 I/O system.

| Tool cable | Length | Ordering No. |
|---------------------------------|------------|--------------|
| ETD M ABL V2 and QMC, all tools | 36V / 180W | 8432 0840 02 |
| QMC, ETD M ABL V2, ETF S | 2 m | 8432 0835 20 |
| QMC, ETD M ABL V2, ETF S | 3.5 m | 8432 0835 35 |
| QMC, ETD M ABL V2, ETF S | 5 m | 8432 0835 50 |
| ETF M, MT | 2 m | 8432 0836 20 |
| ETF M, MT | 3.5 m | 8432 0836 35 |
| ETF M, MT 90 deg angle cable | 2 m | 8432 0831 15 |

| Cable accessories | Ordering No. |
|-------------------|--------------|
| Cable, USB | 4222 1238 02 |
| Cable RS232 | 4216 2174 80 |
| Transducer cable | 8432 0830 35 |
| Cable bracket | 8432 0830 91 |



Power supply unit



Digital program selector



Tool cable, 90 deg



Tool cable

MICRO TORQUE ACCESSORIES

| Vacuum pump | Ordering No. |
|----------------|--------------|
| Vacuum pump MT | 8432 0854 00 |



Vacuum pump MT

| Model | Nozzle Ø mm | Tool Bit Drive | Tool model | Ordering No. |
|-------------------------|-------------|----------------|---|--------------|
| QC Vacuum adapter Small | 8 | HM4 | ETD M, ETF S, ETF M, ETF MT and QMC | 8432 0770 58 |
| QC Vacuum adapter Large | 12 | 1/4" HEX | ETD M and QMC | 8432 0770 57 |
| QC Vacuum adapter Large | 12 | 1/4" HEX | ETF M100, ETF MT100, ETF M200 and ETF MT200 | 8432 0770 59 |
| QC Vacuum adapter | 5.8 | HM4 | ETD MT | 8432 0770 60 |
| QC Vacuum adapter | 9.8 | 1/4" HEX | ETD MT | 8432 0770 61 |



Vacuum adapter

| Model | Nozzle Ø mm | Tool Bit Drive | Ordering No. |
|------------------------|-------------|----------------|--------------|
| Plastic nozzle | | | |
| | 8 | HM4 | 4216 1190 16 |
| | 12 | 1/4" HEX | 4216 1190 20 |
| | 5.8 | HM4 | 4216 2912 00 |
| | 9.8 | 1/4" HEX | 4216 2936 00 |
| Metallic nozzle | | | |
| | 8 | HM4 | 4216 1190 17 |
| | 12 | 1/4" HEX | 4216 1190 21 |
| | 5.8 | HM4 | 4216 4257 00 |
| | 9.8 | 1/4" HEX | 4216 4257 01 |



Vacuum adapter for ETD MT

| Model | Screw size | Ordering No. |
|---|------------|--------------|
| Screw dispenser for magnetized bit | | |
| SDS screw dispenser | M1.0 - 5.0 | 8432 0830 00 |
| Screw dispenser for vacuum pick up | | |
| SDS SR 10 | M1.0 | 8432 0870 30 |
| SDS SR 12 | M1.2 | 8432 0870 32 |
| SDS SR 14 | M1.4 | 8432 0870 34 |
| SDS SR 17 | M1.7 | 8432 0870 31 |
| SDS SR 20 | M2.0 | 8432 0870 33 |
| SDS SR 23 | M2.3 | 8432 0870 35 |
| SDS SR 26 | M2.6 | 8432 0870 36 |
| SDS SR 30 | M3.0 | 8432 0870 37 |



Vacuum nozzles



Screw dispenser for magnetic bit



Screw dispenser for vacuum pick up

MICRO TORQUE CONTROLLER

MT Focus 6000 is the latest and most innovative controller from MicroTorque. It elevates the Atlas Copco's low torque tightening and is designed for Industry 4.0.

MT Focus 6000 is smart with new advanced tightening strategies such as Torque Seating Monitoring. With Batch Sequence it is easy to setup simple workflow instructions to ensure efficiency, and the multi communication ports ensures connectivity with external equipment and software.

The IAM model give a good offering for every customer. IAM Workstation is designed for a workstation setup with no or low need for advanced tightening strategies and communication. For processes, with a need of communication, data and advanced tightening strategies, IAM Process is the right choice.

PRODUCT PORTFOLIO



MTF 6000

| Model | Ordering No. |
|---|--------------|
| MTF 6000 | 8432 0851 00 |
| NOTE: Ordering number for controller only. PSU and IAM Module (for MTF6000) has to be ordered separately. | |
| IAM for MTF 6000 | |
| IAM MT Workstation | 8432 0852 10 |
| IAM MT Process | 8432 0852 20 |

MICRO TORQUE CONTROLLER

MTF 6000

| Model | IAM MT Workstation | IAM MT Process |
|--|--------------------|-----------------|
| Tightening | | |
| Number of Psets | 50 | 150 |
| Multi step tightening | • | • |
| Number of tightening steps | 5 | 10 |
| Number of batch sequence | 20 | 50 |
| Batch sequence - Batch count | 250 | 250 |
| Batch sequence - Steps | 30 | 30 |
| Number of identifiers | 20 | 50 |
| Torque and angle control | • | • |
| Thread engament step | • | • |
| Angle step | • | • |
| Torque step | • | • |
| Seating control strategy (SCS) | | • |
| Torque seating monitoring (TSM) | | • |
| Bit slip detection | | • |
| Data storage and analysis | | |
| Detailed data results stored in the controller | • | • |
| Results - Data storage | 100000 | 100000 |
| Graphs - Data storage | | 1000 |
| Download results data via USB memory | • | • |
| Download graphs data via USB memory | | • |
| Realtime trace analysis - ToolsTalk (USB only) | • | • |
| Save graphs via ToolsTalk Analysis (USB) | | • |
| Auto save graph via ToolsTak Analysis (USB Only) | • | • |
| ToolsNet 8 data reporting | | • |
| Communication | | |
| Configurable Digital I/Os | • | • |
| Number of digital I/Os (in/out) | (12/8) | (12/8) |
| Open Protocol (MicroTorque Legacy) | | |
| Open Protocol (Atlas Copco V2) | | RS232, Ethernet |
| Direct communication with ToolsNet 8 | | • |
| Others | | |
| Transducerized tools | | • |
| Barcode reader | • | • |
| Quick programming | • | • |
| Password protection | • | • |
| Customized 3 levels of password protection | • | • |
| Remote configuration via Ethernet | | • |
| Ports (hardware only - not functionality) | | |
| RS232 | 1 | 1 |
| Fieldbus | 1 | 1 |
| USB device | 1 | 1 |
| USB host | 1 | 1 |
| I/O Bus | 1 | 1 |
| Ethernet | 1 | 1 |
| Digital I/Os | (12/8) | (12/8) |

The Atlas Copco logo is displayed in white text on a blue rectangular background in the top right corner of the image.A hand is holding an Atlas Copco S8 low torque screwdriver, which is being used to work on a green printed circuit board (PCB) mounted on a metal fixture. The screwdriver has a black handle with a white grip section and a white body. The PCB has several silver components and a QR code. A blue technical drawing overlay is visible in the bottom left corner, showing various dimensions and part numbers. The background is a light, neutral color.

Atlas Copco

Power with precision

S8 low torque screwdrivers

The S8 Series Power with precision

The S8 series offers a wide variety of screwdrivers that give great speed and high precision.

Built with an ergonomic design, the low torque screwdriver S8 offers a plug & play solution for your assembly needs. The S8 series is designed to deliver great quality and increase efficiency.

Main benefits:

- *Ergonomic design for easy operator handling*
- *Built to last*
- *Providing long service intervals*
- *Simple start-up process*



- Industrial design
- High durability
- Brushless motor
- Plug & play



| Model | Bit drive | Torque range min - max [lb in] | Torque range min - max [cNm] | Free speed r/min | Weight kg | Weight lbs | Ordering No. |
|------------|-----------------|--------------------------------|------------------------------|------------------|-----------|------------|--------------|
| S8020 | 1/4" Hex | 0,26-1,7 | 3-20 | 700-1000 | 0,46 | 1,01 | 4221000273 |
| S8020-WS | Wing shank 4 mm | 0,26-1,7 | 3-20 | 700-1000 | 0,46 | 1,01 | 4221000272 |
| S8050 | 1/4" Hex | 0,43-4,3 | 5-50 | 700-1000 | 0,46 | 1,01 | 4221000274 |
| S8120 | 1/4" Hex | 1,3-10,4 | 15-120 | 700-1000 | 0,46 | 1,01 | 4221000275 |
| S8120-2000 | 1/4" Hex | 1,3-10,4 | 15-120 | 1400-2000 | 0,46 | 1,01 | 4221000276 |
| S8160 | 1/4" Hex | 1,7-13,9 | 20-160 | 700-1000 | 0,46 | 1,01 | 4221000277 |
| S8200 | 1/4" Hex | 3,5-17,4 | 40-200 | 700-1000 | 0,46 | 1,01 | 4221000278 |
| S8250 | 1/4" Hex | 4,3-21,7 | 50-250 | 500-750 | 0,46 | 1,01 | 4221000279 |

| Power supply | | | | | | | |
|---|--|--|--|--|------|------|------------|
| EBS D | | | | | 0,38 | 0,84 | 4221000280 |
| NOTE. Power Supply needs to be ordered separately | | | | | | | |

