MICROTORQUE QMC SERIES AND MTF 400A

Productivity, flexibility and quality in one screwdriver.
Productivity boosting with maximum quality

Extremely light and compact, full of functionalities. The MicroTorque QMC Series Fixtured Screwdrivers combined with the powerful MT Focus 400 controller, boosts productivity, improves quality and reduces costs. It is the most advanced tightening solution for any low torque application.

Features

A  Compact, space saving design.
B  Display with clearly visible and configurable information.
C  Colored background for operator feedback.
D  Simple and intuitive navigation through three controller buttons.
E  Multiple communication ports.
F  Vacuum adapter.
G  Bit grounding.
H  Threaded holes for easy and simple installation.
J  Compact & lightweight design.
K  LED lights indicating tightening status.
INTELLIGENT AND ADVANCED TIGHTENING

Productivity and Flexibility
Combining productivity with flexibility has never been this easy. **Multiple Torque Programs** minimize and eliminate setups, **Multi Step Tightening** helps you to reduce cycle times while keeping high quality and **Multiple Tightening Strategies** give you all the resources you need to tighten any type of screwed joint.

Quality and Process Control
Secure torque consistency at every tightening and at every joint, with the **High Torque Accuracy** of QMC tools. The **Angle Monitoring & Control** functionality detects stripped joints, missing components, mis-alignments and incomplete tightenings. Combined with **Error Proofing Possibilities** by connecting MT Focus 400A with poka yoke systems, you will have best in class process control and high quality.

Continuous Improvement
Keep process history traceable – and valuable information accessible – by storing process and production results using the **Data Reporting** function. The **Graphic Data & Analysis** is a powerful feature for process optimization and the **Seating Control Strategy** is the smartest tightening method in the market. Offering you a powerful package to continuously improve and optimize your production process.
Set the system with just a few clicks with the easy and intuitive Auto-Set function. The Batch Count helps the operator complete his operation successfully and the tool LED lights, the controller display and buzzer, provides clear and instant Operator Feedback, making the whole system extremely operator friendly and easy to use.

Operator Friendly

Automation Friendly

Save significant amounts of money on robot size and weight capacity with the Compact & Lightweight QMC tools. The Multi Communication options facilitates integration with PLCs and automation systems, and the Easy Installation design make it really simple to attach the tool anywhere.

Decreased Weight. The product weight for the QMC has been decreased by 45% compared to its predecessor. This contributes to the possibility of higher cycle rates on robot applications and a decreased environmental impact from transportation.

Recycling Information. Information regarding dismantling and recycling has been added in the Product Information to facilitate correct handling of QMC when it has served its purpose.

Safe Chemicals. Safety Data Sheets are available for all chemicals used in QMC and the content of chemicals are ensured not to contain prohibited substances.

Service Instructions. Detailed information regarding Service Instructions are provided to ensure long product life of the QMC.

No Hazardous Materials. No substances from the Atlas Copco Prohibited or Restricted list are present in QMC.

RoHS II Directive. All electronic components in QMC are in compliance with the RoHS II legislation.

Easy Disassembly. Screw joints and modular design ensure easy access to all components in QMC.
MicroTorque screwdrivers can bring you to a whole new level of process control and optimization. The system has so many capabilities and functionalities that any tightening challenge can be met.

**With the 3 step tightening strategy** you can define speed, torque and angle parameters for each step. With perfect engagement, rundown and tightening giving you full process control – maximizing speed and quality.

**With the Seating control strategy**, a complete different approach is obtained. This advanced solution offers a system intelligence that helps you to obtain the best tightening process, focusing on the right amount of clamping torque.

No matter which approach you choose – MicroTorque Screwdrivers have all the features and resources needed to keep your process under control, with real time traces obtained at every tightening. With a powerful diagnosis tool, full tightening data can be exported providing key information for analysis and process records.

**Seating control strategy**

The monitoring capability during the entire process makes sure that the MTF400 identifies the seating point and then adds the specified amount of torque or angle. Securing the right amount of clamping to every single joint independent of the common friction variations due to dimensions, roughness, material, alignment and more.

**3 step tightening process**

With the 3 step tightening strategy the entire tightening process is covered with maximum control and quality. At the first step (Engagement), a slow speed is used to secure the proper alignment of the screw. At the second step (Rundown), fast speed is used to increase productivity, monitoring torque. With the final step (Tightening), speed is reduced focusing on high accuracy while the angle is monitored to make sure the process is correct.
MicroTorque Toolstalk is the software that makes everything possible, with a very graphical, intuitive and user friendly interface it makes the configuration process easy and effortless.

This unique software combines everything from parameters configuration, programming new joints and creating new Psets, to setting different strategies, defining speed and angle input. Further more it offers visualization of controller and tool information, I/Os interface configuration, graph analysis, data collection and a whole lot more. Making it an important piece that completes and empowers the MicroTorque System, making it the right solution for any low torque application.