

## MICROTORQUE FIXTURED SCREWDRIVERS



## 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.





#### **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.



**AUTO-SET** 



BATCH COUNT



OPERATOR FEEDBACK

#### **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.



COMPACT & LIGHTWEIGHT



EASY INSTALLATION



MULTI COMMUNICATIONS



# PROCESS CONTROL AND OPTIMIZATION

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.

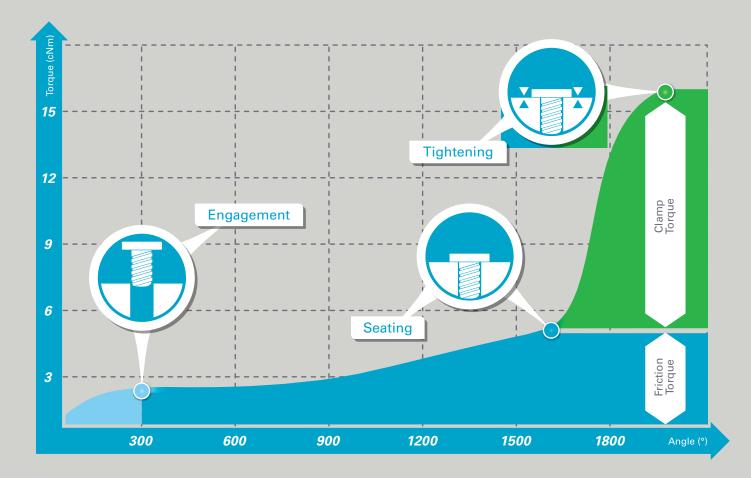
With the Seating control strategy, a complete different approach is obtained. This advanced solution offers a system intelligence

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.

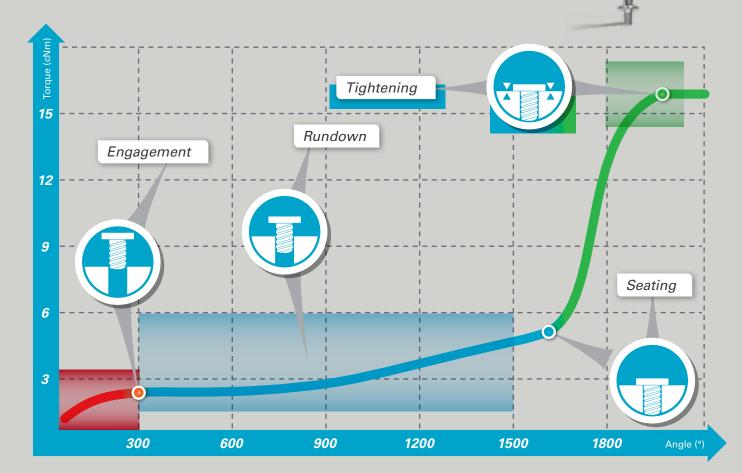




#### 3 step tightening process

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.





### 100% CONTROL

**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.

Toolbar

**Active Pset** 

**Pset Configuration** 

**Navigation Map** 

**Graph Analysis** 

**MT Net Function** 

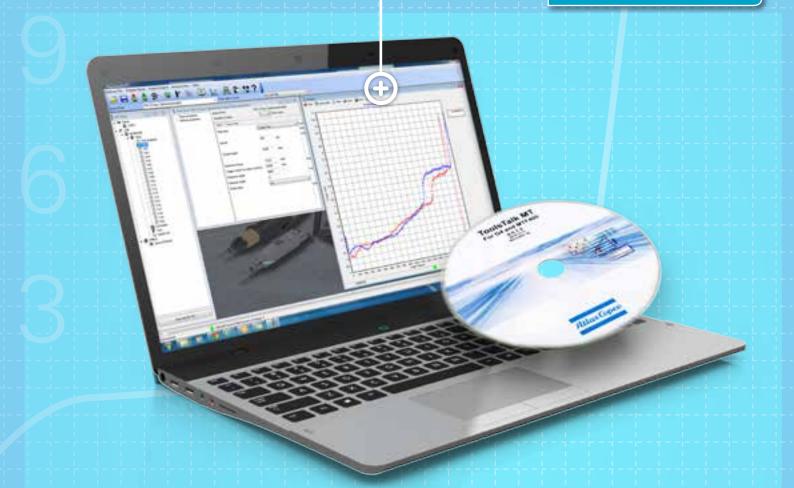
I/O Configuration

**Tools Information** 

**Controller Information** 

**Configuration** 

100% CONTROL



	Torqu	e range				We	ight		
Model	cNm	in lb	Speed rpm	Length mm	Overall width mm	kg	lb	Bit Drive	Ordering No.*
Fixtured current controlled									
QMC 21-05-HM4	1.2 - 5	0.11- 0.44	1500	124	57	0.2	0.46	HM4	8432 0844 05
QMC 21-10-HM4	3.0 - 10	0.27 - 0.89	1500	178	57	0.3	0.66	HM4	8432 0844 10
QMC 21-25-HM4	5.5 - 25	0.49 - 2.21	1000	178	57	0.3	0.66	HM4	8432 0844 25
QMC 41-50-HM4	12.5 - 50	1.11 - 4.42	2000	200	65	0.6	1.32	HM4	8432 0844 52
QMC 41-100-HM4	25.0 - 100	2.21 - 8.85	2000	200	65	0.6	1.32	HM4	8432 0844 53
QMC 41-50-l06	12.5 - 50	1.11 - 4.42	2000	205	65	0.6	1.32	1/4" Hex	8432 0844 61
QMC 41-100-I06	25.0 - 100	2.21 - 8.85	2000	205	65	0.6	1.32	1/4" Hex	8432 0844 62
QMC 41-150-I06	37.5 - 150	3.32 - 13.27	1000	213	65	0.6	1.32	1/4" Hex	8432 0844 63
QMC 41-250-I06	62.5 - 250	5.53 - 22.13	850	224	65	0.7	1.54	1/4" Hex	8432 0844 64

QMC 41-250-l06	62.5 - 250	5.53 - 22.13	85
Controller Unit		Ordering N	lo.
MT FOCUS 400A		8432 0850	00
Tool Cables		Ordering N	lo.
2.0 m		8432 0835	02
3.5 m		8432 0835	03
Power Supply Units		Ordering N	lo.
PSU 36V/72W (QMC 21-XX)		8432 0840	01
PSU 36V/180W (QMC 41-XX	()	8432 0840	02
Vacuum Adapters		Ordering N	lo.
QC Vacuum Adapter - HM4	(Ø8 mm)	8432 0770	58
QC Vacuum Adapter - 1/4" HE	X (Ø12 mm)	8432 0770	57
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Vacuum Nozzles		Ordering N	10.
Plastic Nozzle - Ø8 mm		4216 1190	16

vacuum ivozzies	Ordering No.
Plastic Nozzle - Ø8 mm	4216 1190 16
Plastic Nozzle - Ø12 mm	4216 1190 20
Metallic Nozzle - Ø8 mm	4216 1190 17
Metallic Nozzle - Ø12 mm	4216 1190 21

Stacklights	Ordering No.
Stacklight table stand	8432 0830 97
Stacklight wall mount	8432 0830 99

Vacuum pump	Ordering No.
Vacuum pump, VPX 6	8432 0830 06

Screw Dispenser System	Screw Size	Ordering No.		
Screw dispenser for magnetized bit				
SDS	M 1.0 - 5.0	8432 0830 00		
Screw dispenser for vacuum pick up				
SDS SR 10	M 1.0	8432 0870 30		
SDS SR 12	M 1.2	8432 0870 32		
SDS SR 14	M 1.4	8432 0870 34		
SDS SR 17	M 1.7	8432 0870 31		
SDS SR 20	M 2.0	8432 0870 33		
SDS SR 23	M 2.3	8432 0870 35		
SDS SR 26	M 2.6	8432 0870 36		
SDS SR 30	M 3.0	8432 0870 37		

















