

# Atlas Copco MicroTorque Range

Total solutions for micro torque fastening



*Atlas Copco*

# Intelligent

## High performance fastening when every screw counts

### Secure your small screw joints, from 0.5 Ncm

Ultra low torque applications — starting at 0.5 Ncm — don't need to be demanding. The MicroTorque range of electric screwdrivers from Atlas Copco has been designed to perform consistently and precisely time after time. Whether you are manufacturing high-value consumer goods or delicate electronics, the specification of the MicroTorque range has been carefully created to match your commercial needs, making micro torque more of a science and less of an art.



### Compact controller, perfect performance

The MicroTorque controller is the smallest on the market, yet delivers total control over screwdriver performance:



### Full traceability ensured

- One to eight step programming
- 16 different P-sets
- Torque and angle control
- External torque/angle transducer control
- ToolsTalk MT supports communication with PC
- Produces graphs for detailed analysis
- Digitork and transducer compatible

### A durable range of tools to meet your application needs from 0.5-500 Ncm

#### Transducerized fixtured screwdriver

Designed for very demanding fixtured applications.

ETF MT 100



#### Digitork fixtured screwdriver

Your choice for quality critical applications.

ETF M5



#### Digitork handheld screwdrivers

Ideal for the lowest torques in watch, photo and camera assembly when security is paramount.

ETD M 25A



#### Digitork handheld screwdrivers

Designed specifically for consumer electronic product assembly (cell phones, computer components and DVD's).

ETD M 80L



# solutions

new counts

## Quality assurance system – sharpening your competitive edge.

To ensure the highest quality of your fastening – and ultimately your company's products – Atlas Copco has developed a comprehensive quality assurance system. The controller-cable-transducer package provides fast, accurate and reliable measurement of critical parameters.

### ACTA MT Features:

- Auto-recognition of torque/force sensor
- Data transfer via serial interface (RS232-C)
- Graphical recording of data via PC
- Digital peak-value memory
- Multilingual dialog box control
- Overload protection



## A range of transducers are available for quality control testing

The ACTA MT transducers provide the best accuracy on the market for micro torques



**MT TS**  
Stationary torque transducer



**MT TRA**  
Torque/angle in-line rotary transducer



**MT TH**  
Manual screwdriver torque transducer



**MT TR**  
Torque in-line rotary transducer

# The MicroTorque range – building the electronics industry



## TECHNICAL DATA

### MicroTorque Transducerized Systems

Model	Torque range		Speed range min <sup>-1</sup>	Bit drive	Overall length mm	Width mm	Weight kg	Ordering No.
	Ncm	in lb						
ETF MT 5	0.5-5	0.04 - 0.4	600	HM 4 mm	184	20	0.4	8432 0800 10
ETF MT 10	1-10	0.09 - 0.9	600	HM 4 mm	184	20	0.4	8432 0800 11
ETF MT 20	2-20	0.18 - 1.8	800	HM 4 mm	184	20	0.4	8432 0800 12
ETF MT 50	5-50	0.44 - 4.4	1000	HM 4 mm	255	30	0.76	8432 0800 13
ETF MT 80	8-80	0.71 - 7.1	1200	HM 4 mm	274	30	1.18	8432 0800 14
ETF MT 100	10-100	0.88 - 8.8	1000	1/4 hex	274	30	1.18	8432 0800 15
ETF MT 200	20-200	1.77 - 17.7	700	1/4 hex	274	30	1.18	8432 0800 16
ETF MT 500	50-500	4.42 - 44.2	600	1/4 hex	260	40	1.84	8432 0800 17

### MicroTorque Digitork Systems

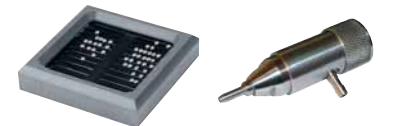
Model	Torque range		Speed range min <sup>-1</sup>	Bit drive	Overall length mm	Width mm	Weight kg	Ordering No.
	Ncm	in lb						
ETD M 03 A	0.5-2.5	0.04 - 0.2	1000	Ø 1.5 mm	132	16	0.1	8432 0810 05
ETD M 05 A	1.5-5	0.13 - 0.4	700	Ø 2.0 mm	132	16	0.1	8432 0810 06
ETD M 10 A	3-10	0.27 - 0.9	700	Ø 2.5 mm	132	16	0.1	8432 0810 08
ETD M 25 A	7,5-25	0.66 - 2.2	800	HM 4 mm	174	22	0.25	8432 0810 09
ETD M 50 L	15-50	1.33 - 4.4	1000	HM 4 mm	220	27	0.65	8432 0810 10
ETD M 80 L	16-80	1.42 - 7.1	1200	HM 4 mm	240	27	0.65	8432 0810 11
ETD M 100 L	25-100	2.21 - 8.8	1000	1/4 hex	240	27	0.65	8432 0810 12
ETD M 200 L	50-200	4.42 - 17.7	600	1/4 hex	240	27	0.65	8432 0810 13
ETF M 05	1,5-5	0.13 - 0.4	1000	HM 4 mm	184	20	0.4	8432 0810 15
ETF M 10	3-10	0.27 - 0.9	1000	HM 4 mm	184	20	0.4	8432 0810 16
ETF M 20	5-10	0.44 - 0.9	800	HM 4 mm	184	20	0.4	8432 0810 17
ETF M 50	15-50	1.33 - 4.4	1000	HM 4 mm	230	25	0.8	8432 0810 18
ETF M 80	16-80	1.42 - 7.1	1200	HM 4 mm	272	30	1.2	8432 0810 19
ETF M 100	25-100	2.21 - 8.8	1000	1/4 hex	272	30	1.2	8432 0810 20
ETF M 200	50-200	4.42 - 17.7	600	1/4 hex	272	30	1.2	8432 0810 21
ETF M 400	150-400	13.27 - 35.4	500	1/4 hex	260	40	1.8	8432 0810 22
ETF M 800	300-800	26.55 - 70.8	400	1/4 hex	322	45	2.6	8432 0810 23

"Complete system" (single ordering number) includes: Controller, screwdriver, tool cable, ToolsTalk MT, USB communication cable and user manual

### ACCESSORIES

Torque Arm - GHP Mini	8432 0830 02
Torque Arm - GHP Small	8432 0830 03
Torque Arm - GHP Large	8432 0830 04
Torque arm adaptor between GHP Mini and ETF 5, 10, 20	8432 0830 70
Torque arm adaptor between GHP Mini and ETF 50, 80, 100	8432 0830 76
Torque arm adaptor between GHP Mini and ETD M 40 L	8432 0830 71
Torque arm adaptor between GHP Small and ETF 50, 80, 100, 200	8432 0830 72
Torque arm adaptor between GHP Small and ETD M 50, 80, 100, 200 L	8432 0830 73
Torque arm adaptor between GHP Large and ETF 400, 500, 800	8432 0830 74
Handle between GHP Small and ETF 50, 80, 100, 200	8432 0830 53
Handle between GHP Large and ETF 400, 500, 800	8432 0830 54
Stacklight	8432 0830 60
Screw plate	8432 0830 61
Vacuum Pump - VPX 3	8432 0830 05
Vacuum Pump - VPX 6	8432 0830 06
Screwhead with vacuum sleeve for ETD M03, 05, 10, 25	8432 0830 40
Bit selector	8432 0830 01
Remote control	8432 0830 08
Digital Program selector	8432 0830 34
Controller fixture	8432 0830 32
Joint Kit M2,5-1/4" adaptor (<100 Ncm)	8432 0830 77
Joint Kit M2-1/4" adaptor (<50 Ncm)	8432 0830 78
Joint Kit M1,6-3H7 adaptor (<20 Ncm)	8432 0830 79
Demo set M1,6 (Screwplate, screws, bit-set, shacker tray)	8432 0830 80
Demo set M2 (Screwplate, screws, bit-set, shacker tray)	8432 0830 81
Demo set M2,5 (Screwplate, screws, bit-set, shacker tray)	8432 0830 82

For our Vacuum Adapter, Shaker Tray Box and Bits program please consult your local Atlas Copco representative



Shaker Tray Box

Vacuum Adapter



VPX 3 - Vacuum Pump

Digital Program Selector



Remote Control

Torque Arm - GHP

## TECHNICAL DATA

### In-Line Rotary Transducers

Model	Body length mm	Capacity		Drive	Overall length mm	Ordering No.
		Ncm	in lb			
<b>Torque In-Line Rotary Transducer</b>						
MT TR 2	49	2	0.18	Ø 3h8 mm	76	8432 0820 29
MT TR 5	49	5	0.44	Ø 3h8 mm	76	8432 0820 30
MT TR 10	49	10	0.88	Ø 5h8 mm	76	8432 0820 31
MT TR 20	49	20	1.77	Ø 5h8 mm	76	8432 0820 32
MT TR 50	49	50	4.42	1/4"	105	8432 0820 33
MT TR 100	49	100	8.85	1/4"	105	8432 0820 34
MT TR 200	49	200	17.70	1/4"	105	8432 0820 35
MT TR 500	49	500	44.25	1/4"	105	8432 0820 36
<b>Torque/Angle In-Line Rotary Transducer</b>						
MT TRA 2	49	2	0.18	Ø 3h8 mm	76	8432 0820 41
MT TRA 5	49	5	0.44	Ø 3h8 mm	76	8432 0820 42
MT TRA 10	49	10	0.88	Ø 5h8 mm	76	8432 0820 43
MT TRA 20	49	20	1.77	Ø 5h8 mm	76	8432 0820 44
MT TRA 50	49	50	4.42	1/4"	105	8432 0820 45
MT TRA 100	49	100	8.85	1/4"	105	8432 0820 46
MT TRA 200	49	200	17.70	1/4"	105	8432 0820 47
MT TRA 500	49	500	44.25	1/4"	105	8432 0820 48

### Stationary Torque Transducer

Model	Capacity		Drive	Overall length mm	Ordering No.
	Ncm	in lb			
MT TS 1	1	0.09	Ø 3H7	81	8432 0820 18
MT TS 2	2	0.18	Ø 3H7	81	8432 0820 19
MT TS 5	5	0.44	Ø 3H7	81	8432 0820 20
MT TS 10	10	0.88	Ø 3H7	81	8432 0820 21
MT TS 20	20	1.77	1/4"	81	8432 0820 22
MT TS 50	50	4.42	1/4"	98	8432 0820 23
MT TS 100	100	8.85	1/4"	98	8432 0820 24
MT TS 200	200	17.70	1/4"	98	8432 0820 25
MT TS 500	500	44.25	1/4"	111	8432 0820 52

### Manual Screwdriver Torque Transducer

Model	Capacity		Drive	Overall length mm	Ordering No.
	Ncm	in lb			
MT TH 1	1	0.09	Ø 3H7	115	8432 0820 10
MT TH 2	2	0.18	Ø 3H7	115	8432 0820 11
MT TH 5	5	0.44	Ø 3H7	115	8432 0820 12
MT TH 10	10	0.88	Ø 3H7	115	8432 0820 13
MT TH 20	20	1.77	1/4"	115	8432 0820 14
MT TH 50	50	4.42	1/4"	124	8432 0820 15
MT TH 100	100	8.85	1/4"	124	8432 0820 16
MT TH 200	200	17.70	1/4"	124	8432 0820 17

### CABLES

Tool Cable - MT Tool transducerized	8432 0830 36
Tool Cable - M Tool digitork	8432 0830 37
Cable - RS232	8432 0830 38
Cable - USB	8432 0830 39

### SOFTWARE

Tools Talk MT	8432 0830 30
Tools Talk MT Analysis	8432 0830 31
Tools Talk MT Analysis/Net	8432 0830 45

### Quality Assurance System:

Controller, cable, transducer, software

ACTA MT	8432 0820 01
Transducer Cable	8432 0830 35
Tools Talk ACTA MT	8432 0830 46



Transducer Cable



ACTA MT