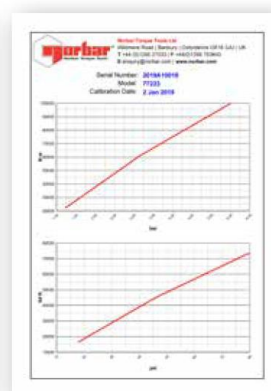
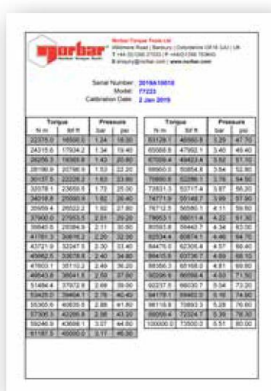


Using twin motor technology, the PTM series of PneuTorques is engineered to be amongst the lightest and fastest on the market. For example, the 800 Nm version has a gearbox diameter of just 52 mm, allowing excellent bolt access, and has a maximum free running speed of 224 rpm. Torque control is normally achieved by adjustment of air pressure. An air pressure versus torque graph and a calibration certificate is supplied with each tool.



PTM-52, PTM-72 and PTME-72 also offer the option of electronic torque control in two versions. Both versions incorporate a torque transducer on the output of the tool. Internal Control (IC) tools have a torque display, user interface and a solenoid valve to shut-off the air supply at a predetermined torque. External Control (EC) tools incorporate a solenoid valve and three coloured LEDs for the indication of low, within tolerance or high results. However, all control functions and torque display are housed in an external controller unit (purchased separately). External controllers can give a much greater range of functionality than is possible on the IC version of the tools.

- Exceptionally compact 52, 72 and 80 mm gearboxes result in light, well balanced tools
- Fitted with a light robust aluminium reaction plate as standard
- Other reaction plates are available for maximum versatility
- Quiet - less than 83 dB(A) when free running
- Fast operation for rapid bolt run-down
- ±5% repeatability of reading from 20% to 100% of range
- Internal Control (IC) versions incorporate torque transducer, torque setting and display panel and solenoid valve to shut off the air supply at the desired torque
- External Control (EC) versions incorporate torque transducer and output for an external controller. Ideal for production lines
- IC and EC tools have an accuracy of ±2%



11 PTM-52 SERIES - STALL TOOLS - BI-DIRECTIONAL*

18100.B06	3/4" sq. dr., 100 - 500 N-m, 74 - 370 lbf-ft
18101.B06	3/4" sq. dr., 160 - 800 N-m, 118 - 590 lbf-ft

*Comes supplied in a carry case.
Stall tools are also available as forward only tools, replace B with F when ordering.

11 PTM-72 SERIES - STALL TOOLS - BI-DIRECTIONAL*

18102.B06	3/4" sq. dr., 200 - 1,000 N-m, 147 - 738 lbf-ft
18103.B08	1" sq. dr., 270 - 1,350 N-m, 200 - 1,000 lbf-ft
18104.B08	1" sq. dr., 400 - 2,000 N-m, 295 - 1,475 lbf-ft

*Comes supplied in a carry case.
Stall tools are also available as forward only tools, replace B with F when ordering.

11 PTM-52 SERIES - SHUT-OFF TOOLS - BI-DIRECTIONAL - INTERNAL

18110.B06	3/4" sq. dr., 100 - 500 N-m, 74 - 370 lbf-ft (IC)
18111.B06	3/4" sq. dr., 160 - 800 N-m, 118 - 590 lbf-ft (IC)

11 PTM-72 SERIES - SHUT-OFF TOOLS - BI-DIRECTIONAL - INTERNAL

18112.B06	3/4" sq. dr., 200 - 1,000 N-m, 147 - 738 lbf-ft (IC)
18113.B08	1" sq. dr., 270 - 1,350 N-m, 200 - 1,000 lbf-ft (IC)
18114.B08	1" sq. dr., 400 - 2,000 N-m, 295 - 1,475 lbf-ft (IC)

11 PTM-52 SERIES - SHUT-OFF TOOLS - BI-DIRECTIONAL - EXTERNAL (Requires Tool Controller, see page 111)

18120.B06	3/4" sq. dr., 100 - 500 N-m, 74 - 370 lbf-ft (EC)
18121.B06	3/4" sq. dr., 160 - 800 N-m, 118 - 590 lbf-ft (EC)

11 PTM-72 SERIES - SHUT-OFF TOOLS - BI-DIRECTIONAL - EXTERNAL (Requires Tool Controller, see page 111)

18122.B06	3/4" sq. dr., 200 - 1,000 N-m, 147 - 738 lbf-ft (EC)
18123.B08	1" sq. dr., 270 - 1,350 N-m, 200 - 1,000 lbf-ft (EC)
18124.B08	1" sq. dr., 400 - 2,000 N-m, 295 - 1,475 lbf-ft (EC)

11 PTM-52 SERIES WITH ANGLE CONTROL

18125.B06	3/4" sq. dr., 100 - 500 N-m, 74 - 370 lbf-ft (IC)
18126.B06	3/4" sq. dr., 160 - 800 N-m, 118 - 590 lbf-ft (IC)
18136.B06	3/4" sq. dr., 160 - 800 N-m, 118 - 590 lbf-ft (EC)

All the above are supplied with a 3/4" square drive (Part No. 18544).

11 PTM-72 SERIES WITH ANGLE CONTROL

18127.B06	3/4" sq. dr., 200 - 1,000 N-m, 147 - 738 lbf-ft (IC)
18128.B08	1" sq. dr., 270 - 1,350 N-m, 200 - 1,000 lbf-ft (IC)
18129.B08	1" sq. dr., 400 - 2,000 N-m, 295 - 1,475 lbf-ft (IC)
18138.B08	1" sq. dr., 270 - 1,350 N-m, 200 - 1,000 lbf-ft (EC)

11 ACCESSORIES

18545	1" square drive for above tools
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PTM-52 with Internal Control (IC) Panel





The PTM-80, PTM-92 and PTM-119 tools bring the speed advantage of the twin motor handle to higher capacity PneuTorque® models. These models deliver an ideal balance between robustness, speed and weight.

11 PTM-80 SERIES - STALL TOOLS - BI-DIRECTIONAL

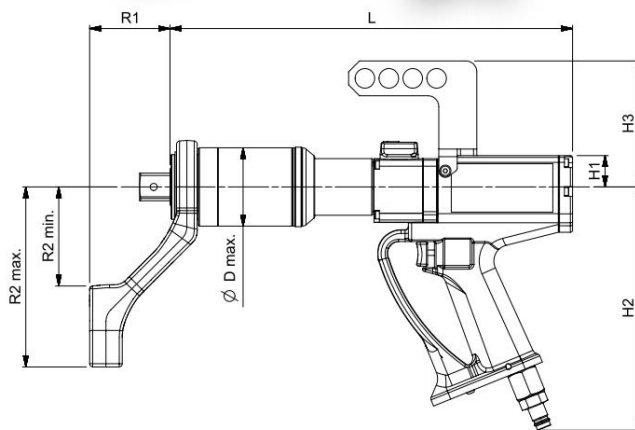
180296.B08 1" sq. dr., 540 - 2,700 N·m, 400 - 2,000 lbf·ft
 Also available as forward only tools, replace B with F when ordering. Stall tools are supplied in a carry case.

11 PTM-92 SERIES - STALL TOOLS - BI-DIRECTIONAL

18159.B08 1" sq. dr., 800 - 4,000 N·m, 590 - 2,950 lbf·ft
18159.B12 1½" sq. dr., 800 - 4,000 N·m, 590 - 2,950 lbf·ft
 Also available as forward only tools, replace B with F when ordering. Stall tools are supplied in a carry case.

11 PTM-119 SERIES - STALL TOOLS - BI-DIRECTIONAL

18108.B12 1½" sq. dr., 900 - 4,500 N·m, 660 - 3,300 lbf·ft
18109.B12 1½" sq. dr., 1,200 - 6,000 N·m, 885 - 4,425 lbf·ft
 Also available as forward only tools, replace B with F when ordering. Stall tools are supplied in a carry case.



Model	PTM-52-500-B PTM-52-800-B	PTM-72-1000-B PTM-72-1350-B	PTM-72-2000-B	PTM-80-2700-B	PTM-92-4000-B	PTM-119-4500-B PTM-119-6000-B	
Part Number	18100.B06 18101.B06	18102.B06 18103.B08	18104.B08	180296.B08	18159.B08 18159.B12	18108.B12 18109.B12	
Output Speed (rpm)	224 (PTM-52-500-B) 148 (PTM-52-800-B)	122 (PTM-72-1000-B) 86 (PTM-72-1350-B)	58	40	32	23 (PTM-119-4500-B) 15.5 (PTM-119-6000-B)	
Dimensions (mm)	ØD max.	52	72	72	80	92	119
	H1	29	29	29	29	29	29
	H2	224	224	224	224	224	224
	H3	116	116	116	116	116	116
	L	310	342	371	335	394	415
	R1	59	68	74	80	87	118
	R2 min.	71	91	91	91	115	150
R2 max.	131	165	165	165	205	199	
Tool Weight (kg)	4.1	6.1	6.5	7.5	8.5	13.3	
Reaction Weight (kg)	0.9	0.7	0.7	1.4	1.4	2.2	



Designed to meet the needs of the commercial vehicle market, the integrated reaction foot of the PTME-72 series of tools reaches recessed wheel bolts whilst the 72 mm diameter gearbox handles the high frequency of use demanded by busy tyre shops.

- IC and EC tools have an accuracy of $\pm 2\%$



11 PTME-72 SERIES - STALL TOOLS - BI-DIRECTIONAL*

18140.B06 ¾" sq. dr., 200 - 1,000 N·m, 147 - 738 lbf·ft

18149.B08 1" sq. dr., 200 - 1,000 N·m, 147 - 738 lbf·ft

18141.B08 1" sq. dr., 400 - 2,000 N·m, 295 - 1,475 lbf·ft

* Comes supplied in a carry case.

Stall tools are also available as forward only tools, replace B with F when ordering.

11 PTME-72 SERIES - SHUT-OFF TOOLS - BI-DIRECTIONAL - INTERNAL

18142.B06 ¾" sq. dr., 200 - 1,000 N·m, 147 - 738 lbf·ft (IC)

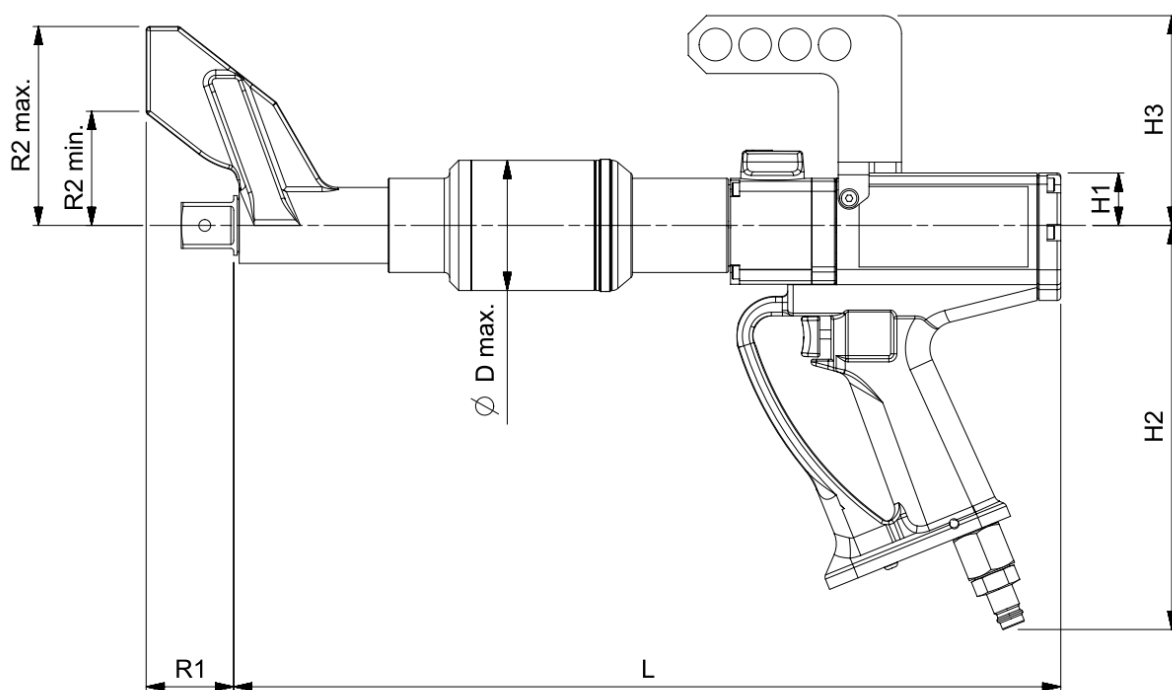
18143.B08 1" sq. dr., 400 - 2,000 N·m, 295 - 1,475 lbf·ft (IC)

11 PTME-72 SERIES - SHUT-OFF TOOLS - BI-DIRECTIONAL - EXTERNAL (Requires Tool Controller, see page 111)

18144.B06 ¾" sq. dr., 200 - 1,000 N·m, 147 - 738 lbf·ft (EC)

18145.B08 1" sq. dr., 400 - 2,000 N·m, 295 - 1,475 lbf·ft (EC)

Model	PTME-72-1000-B	PTME-72-2000-B
Part Number	18140.B06 18149.B08	18141.B08
Output Speed (rpm)	122	58
Dimensions (mm)	ØD max.	72
	H1	29
	H2	224
	H3	116
	L	403
	R1	81
R2 min.	63	63
	R2 max.	110
Tool Weight (kg)	7.2	7.7





11	SPLINED NOSE EXTENSIONS FOR 52 SERIES
19045.006	6" long
19045.009	9" long
19045.012	12" long

11	SPLINED NOSE EXTENSIONS FOR 72 SERIES 3/4" DRIVE
19046.006	6" long, 3/4" sq. dr.
19046.009	9" long, 3/4" sq. dr.
19046.012	12" long, 3/4" sq. dr.

11	SPLINED NOSE EXTENSIONS FOR 72/92 SERIES 1" DRIVE
19285.006	ET/ET2/PTS/PTM-72 6" long, 1" sq. dr.
19285.009	ET/ET2/PTS/PTM-72 9" long, 1" sq. dr.
19285.012	ET/ET2/PTS/PTM-72 12" long, 1" sq. dr.
19047.006	ET/ET2/PTS/PTM-92 6" long, 1" sq. dr.
19047.009	ET/ET2/PTS/PTM-92 9" long, 1" sq. dr.
19047.012	ET/ET2/PTS/PTM-92 12" long, 1" sq. dr.

11	NOSE EXTENSIONS FOR 52 SERIES
18601.006	6" long, F/M 3/4" sq. dr.
18601.009	9" long, F/M 3/4" sq. dr.
18601.012	12" long, F/M 3/4" sq. dr.

F/M = Female input square/Male output square

11	NOSE EXTENSIONS FOR 72 SERIES
19007.006	6" long, SPM/M 1" sq. dr.
19007.009	9" long, SPM/M 1" sq. dr.
19007.012	12" long, SPM/M 1" sq. dr.
18755.006	6" long SPM/M 1" sq. dr. for pre May 2009 PTM-72
18755.009	9" long SPM/M 1" sq. dr. for pre May 2009 PTM-72
18755.012	12" long SPM/M 1" sq. dr. for pre May 2009 PTM-72

SPM/M = Spline Male input/Male output square



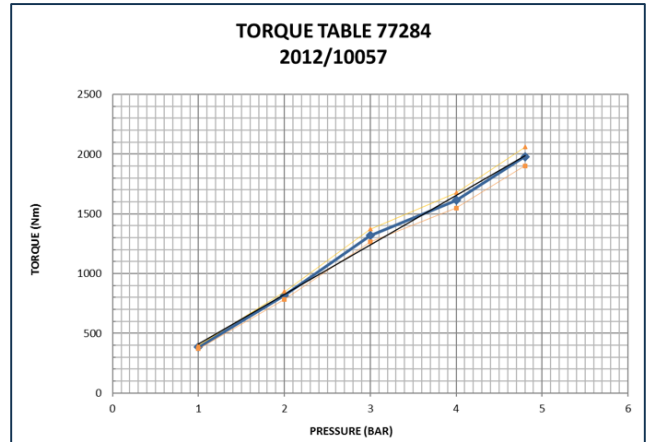
The TrukTorque™ nose extension features a special curved reaction arm designed to handle bolt tightening on the front and rear wheels of trucks and buses. The design easily accommodates wheel trims and deeply recessed wheel bolts.



11	NOSE EXTENSIONS FOR TRUCK AND BUS WHEELS (Fits PTM-72)
19087.009	1,000 N·m, 9" long, 3/4" sq. dr.
19087.012	1,000 N·m, 12" long, 3/4" sq. dr.
19089.009	1,000 N·m, 9" long, 1" sq. dr.
19089.012	1,000 N·m, 12" long, 1" sq. dr.

What is a PneuTorque® Pneumatic Torque Tool?

The PneuTorque® consists of a robust air motor driving a Norbar multiplier with three or more stages of epicyclic gearing. Torque control is achieved through adjustment of the air pressure. An air pressure versus torque graph and a calibration certificate is supplied with each tool and allows specific torque values to be set. For more critical applications, PneuTorques can be fitted with a torque transducer and the precise torque output displayed. The tool can then be shut off at the desired torque either manually or automatically using suitable control circuitry



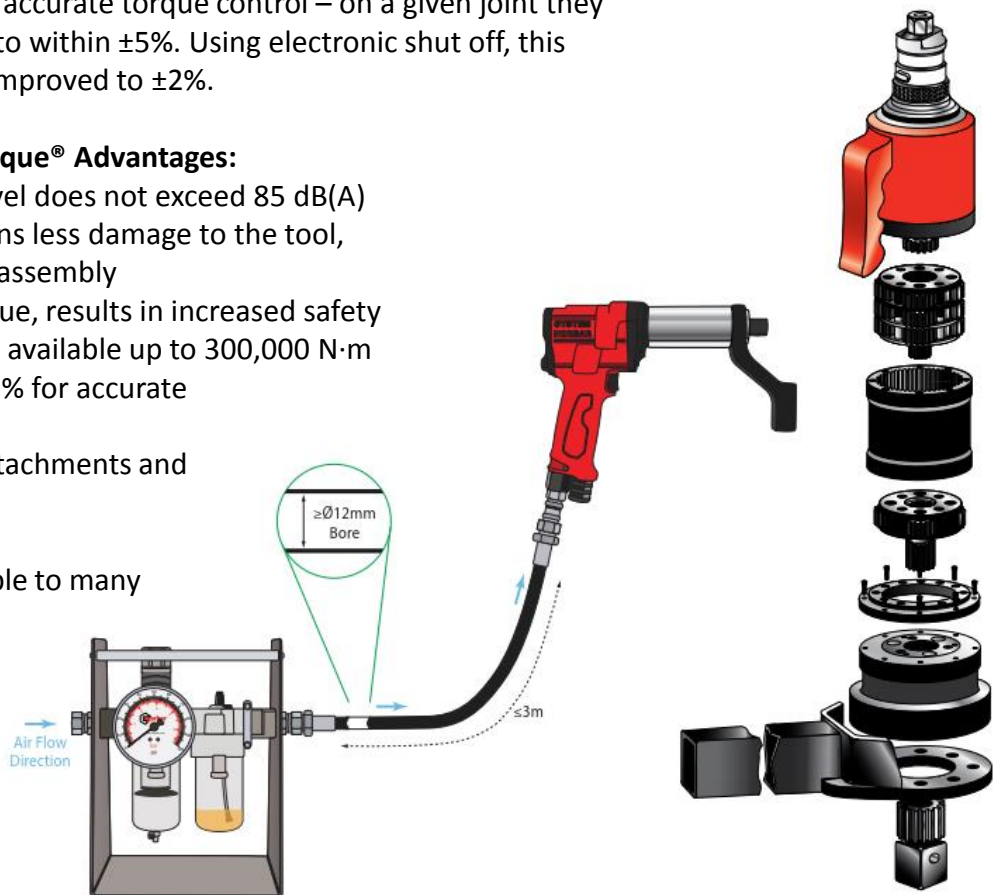
Why use PneuTorque® Pneumatic Torque Tools?

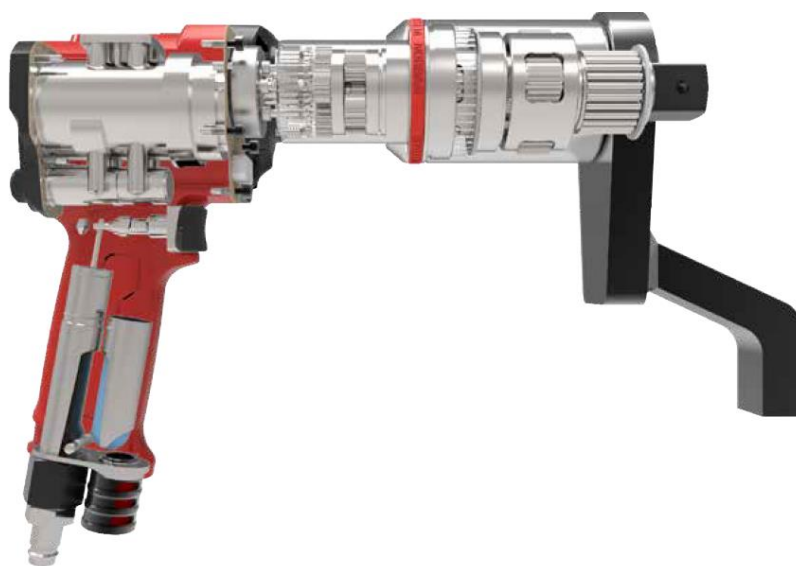
Hand operated torque multipliers are ideal for low volume or intermittent use or when there is no power source available. However, for production lines or whenever a large number of bolts is involved, a powered multiplier will save a considerable amount of time. PneuTorque® operation is quiet – less than 85 dB(A) with absolutely no impacting. These two factors make PneuTorques comfortable for the operator to use, reducing fatigue and consequently increasing safety. PneuTorques provide accurate torque control – on a given joint they will stall repeatably to within ±5%. Using electronic shut off, this repeatability can be improved to ±2%.

Summary of PneuTorque® Advantages:

- Sound pressure level does not exceed 85 dB(A)
- No impacting means less damage to the tool, socket and bolted assembly
- Less operator fatigue, results in increased safety
- Powerful – models available up to 300,000 N·m
- Repeatability of ±5% for accurate torque control
- A wide range of attachments and accessories make

PneuTorques adaptable to many applications





PneuTorque® Applications

The smooth and continuous torque output of the PneuTorque® makes these tools suitable for a wide range of bolting and non-bolting applications.

Bolting

PneuTorques are ideally suited to tightening and untightening bolts of up to 150 mm diameter. The following is just a small selection of applications:

- Wheel nuts on trucks, buses and large machinery
- Structural steelwork
- High pressure joints e.g. Pipelines, boiler feed pumps and pressure vessels
- Engine head bolts
- Injector heads on plastic injection moulding machines
- Heat exchangers
- Heavy vehicle production eg. chassis and suspension bolts



Non-bolting

Whenever a high continuous torque is needed, PneuTorques can be used as the power source. Typical applications include:

- Ball valve operation
- Powering wagons and gantries
- Barring of large diesel engines (turning the crankshaft) during build
- Weld testing by applying test torques
- Roller adjustment in steel mills and paper mills
- Valving of gas bottles

