





The PTS™ is the result of an extensive design project to produce an efficient air motor in an accurate torque tool. The air motor is then married to Norbar's respected gearbox range, sharing common torque reaction accessories with PTM and EvoTorque® tools.

- Pistol grip handle for operator comfort
- Designed to offer excellent power-to-weight ratio
- Up to 2.5 kg weight saving compared with PT equivalents
- Easily accessible switch for forward and reverse operation
- ±3% repeatability of reading from 20% to 100% of range
- Air coupling designed for safety and rapid operation
- Quiet operation The sound pressure level is 77 dB(A) [the PTS™ 4000 is 79 dB(A)]. Uncertainty K =3 dB. The sound emission values were determined according to BS EN ISO 11148-6
- Directional exhaust barrel directs exhaust away from operator
- Replaceable square drive
- Fast operation for rapid bolt rundown. Up to 60% faster than the previous PT model
- Non-impacting exceptionally low vibration levels (0.343 m/s²), make these tools comfortable and safe for operator use.
- Steel reactions supplied as standard. Bespoke reactions available upon request



11	PTS SERIES - STALL TOOLS - BI-DIRECTIONAL
180241.B06	³¼" sq. dr., 100 - 500 N·m, 74 - 370 lbf·ft
180242.B06	¾" sq. dr., 160 - 800 N·m, 118 - 590 lbf·ft
180243.B06	³¼" sq. dr., 200 - 1,000 N·m, 147 - 738 lbf·ft
180244.B08	1" sq. dr., 270 - 1,350 N·m, 200 - 1,000 lbf·ft
180245.B08	1" sq. dr., 400 - 2,000 N·m, 295 - 1,475 lbf·ft
180246.B08	1" sq. dr., 540 - 2,700 N·m, 398 - 1,991 lbf·ft
180250.B08	1" sq. dr., 800 - 4,000 N·m, 590 - 2,950 lbf·ft
180250.B12	1½" sq. dr., 800 - 4,000 N·m, 590 - 2,950 lbf·ft
180248.B12	1½" sq. dr., 1,200 - 6,000 N·m, 885 - 4,425 lbf·ft
180249.B12	1½" sq. dr., 1,400 - 7,000 N·m, 1,030 - 5,200 lbf·ft

11	PTS SERIES - STALL TOOLS - BI-DIRECTIONAL - AUTO TWO SPEED
180781	¾" sq. dr., 200 - 1,000 N·m, 147 - 738 lbf·ft
180782	1" sq. dr., 270 - 1,350 N·m, 200 - 1,000 lbf·ft
180783	1" sq. dr., 400 - 2,000 N·m, 295 - 1,475 lbf·ft
180784	1" sq. dr., 540 - 2,700 N·m, 398 - 1,991 lbf·ft
180785	1" sq. dr., 800 - 4,000 N·m, 590 - 2,950 lbf·ft
180786	1½" sq. dr., 800 - 4,000 N·m, 590 - 2,950 lbf·ft
180787	1½" sq. dr., 1,200 - 6,000 N·m, 885 - 4,425 lbf·ft
180788	1½" sq. dr., 1,400 - 7,000 N·m, 1,030 - 5,200 lbf·ft





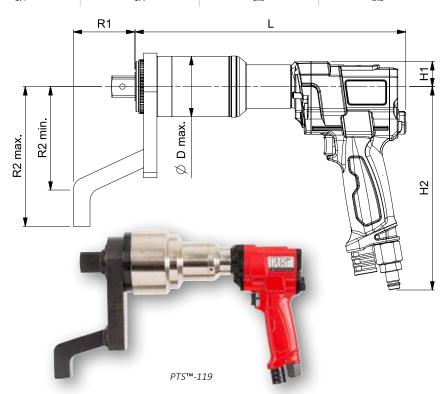
# PNEUTORQUE® PTS™ SERIES

Model		PTS-52-500 PTS-52-800	PTS-72-1000 PTS-72-1350	PTS-72-2000	PTS-80-2700	PTS-92-4000	PTS-119-6000 PTS-119-7000
Part Number		180241.B06 180242.B06	180243.B06 180244.B08	180245.B08	180246.B08	180250.B08 180250.B12	180248.B12 180249.B12
Output Speed (rpm)		35.5 (PTS-52-500) 25.7 (PTS-52-800)	20.4 (PTS-72-1000) 14.7 (PTS-72-1350)	9.2 7.3		5.3	2.6
Dimensions (mm)	ØD max.	52	72	72	80	92	119
	H1	30	30	30	30	30	30
	H2	243	243	243	243	243	243
	L	263	290	324	290	347	369
men	R1	59	76	76	76	70	90
ā	R2 min.	71	124	124	124	125	162
	R2 max.	131	167	167	167	175	210
Tool Weight (kg)		4.2	6.2	6.6	6.2	8.59	12.5
Reaction Weight (kg)		0.9	1.4	1.4	1.4	2.5	3.8

Model		PTS-72-1000 Auto Two Speed PTS-72-1350 Auto Two Speed	PTS-72-2000 Auto Two Speed	PTS-80-2700 PTS-92-4000 Auto Two Speed Auto Two Speed		PTS-119-6000 Auto Two Speed PTS-119-7000 Auto Two Speed
Part Number		180781 180782	180783	180784	180785 180786	180787 180788
Output Speed	l (rpm)	100 (PTS-72-1000)	TBC	30	22	TBC
	ØD max.	72	72	80	92	119
<u>-</u>	H1	30	30	30	30	30
mm)	H2	243	243	243	243	243
sions	L	309	357	327	376	402
Dimensions (mm)	R1	76	76	76	70	90
Ī	R2 min.	124	124	124	125	162
	R2 max.	167	167	167	175	210
Tool Weight (	kg)	6.28	TBC	7.45	8.89	TBC
Reaction Wei	ght (kg)	1.4	1.4	1.4	2.5	3.8









## PNEUTORQUE® PTS™ REMOTE SERIES



PTS REMOTE SERIES
³¼" sq. dr., 100 - 500 N·m, 74 - 370 lbf·ft
¾" sq. dr., 160 - 800 N·m, 118 - 590 lbf·ft
<sup>3</sup> ⁄ <sub>4</sub> " sq. dr., 200 - 1,000 N·m, 147 - 738 lbf·ft
1" sq. dr., 270 - 1,350 N·m, 200 - 1,000 lbf·ft
1" sq. dr., 400 - 2,000 N·m, 295 - 1,475 lbf·ft
1" sq. dr., 540 - 2,700 N·m, 398 - 1,991 lbf·ft
1" sq. dr., 800 - 4,000 N·m, 590 - 2,950 lbf·ft
1½" sq. dr., 800 - 4,000 N·m, 590 - 2,950 lbf·ft
1½" sq. dr., 1,400 - 7,000 N·m, 1,030 - 5,200 lbf·ft

Remote control versions have no direction control on the tool but rely on external pneumatic circuitry to provide this function. This opens up numerous application possibilities for the PneuTorque® ranging from simple stall shut-off in a hazardous working environment to sophisticated, multi-spindle torque and angle shut-off systems.

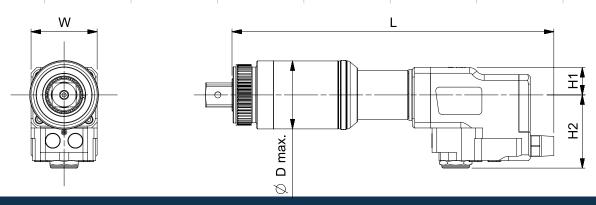
- Designed to offer excellent power-to-weight ratio
- $\pm 3\%$  repeatability of reading from 20% to 100% of range
- Replaceable square drive

NOTE: For full versatility, PTS™ Remotes are supplied without reaction see pages 70 - 72 for options or discuss bespoke engineered options with Norbar.

11	PTS REMOTE SERIES - AUTO TWO SPEED
180789	³¼" sq. dr., 200 - 1,000 N·m, 147 - 738 lbf·ft
180790	1" sq. dr., 270 - 1,350 N·m, 200 - 1,000 lbf·ft
180791	1" sq. dr., 400 - 2,000 N·m, 295 - 1,475 lbf·ft
180792	1" sq. dr., 540 - 2,700 N·m, 398 - 1,991 lbf·ft
180793	1" sq. dr., 800 - 4,000 N·m, 590 - 2,950 lbf·ft
180794	1½" sq. dr., 800 - 4,000 N·m, 590 - 2,950 lbf·ft
180796	1½" sq. dr., 1,400 - 7,000 N·m, 1,030 - 5,200 lbf·ft

Model		PTS REMOTE 52-500	PTS REMOTE 52-800	PTS REMOTE 72-1000	PTS REMOTE 72-1350	PTS REMOTE 72-2000	PTS REMOTE 80-2700	PTS REMOTE 92-4000	PTS REMOTE 92-4000	PTS REMOTE 119-7000
Part Number		180271.B06	180272.B06	180273.B06	180274.B08	180275.B08	180276.B08	180295.B08	180295.B12	180279.B12
Output Spee	d (rpm)	27.8	20.1	16	11.5	7.2	5.7	4.1	4.1	2
	ØD max.	52	52	72	72	72	80	92	92	119
(mm)	H1	29	29	29	29	29	29	29	29	29
Dimensions	H2	78	78	78	78	78	78	78	78	78
men	L	284	284	311	311	344	311	362	362	385
	W	70	70	70	70	70	70	70	70	70
Tool Weight (kg)		4.1	4.1	6.1	6.1	6.5	6.1	8.9	8.9	12.4

Model		PTS REMOTE 72-1000 Auto Two Speed	PTS REMOTE 72-1350 Auto Two Speed	PTS REMOTE 72-2000 Auto Two Speed	PTS REMOTE 80-2700 Auto Two Speed	PTS REMOTE 92-4000 Auto Two Speed	PTS REMOTE 92-4000 Auto Two Speed	PTS REMOTE 119-7000 Auto Two Speed
Part Number	r	180789	180790	180791	180792	180793	180794	180796
Output Spee	ed (rpm)	TBC						
	ØD max.	72	72	72	80	92	92	119
; (mm)	H1	29	29	29	29	29	29	29
Dimensions	H2	78	78	78	78	78	78	78
imen	L	330	330	376	344	395	395	422
ō	W	70	70	70	70	70	70	70
Tool Weight (kg)		TBC	TBC	TBC	7.0	9.3	9.3	TBC

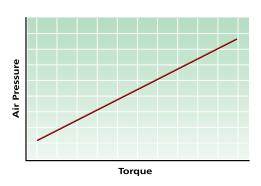




#### What is a PneuTorque® Pneumatic Torque Tool?

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?

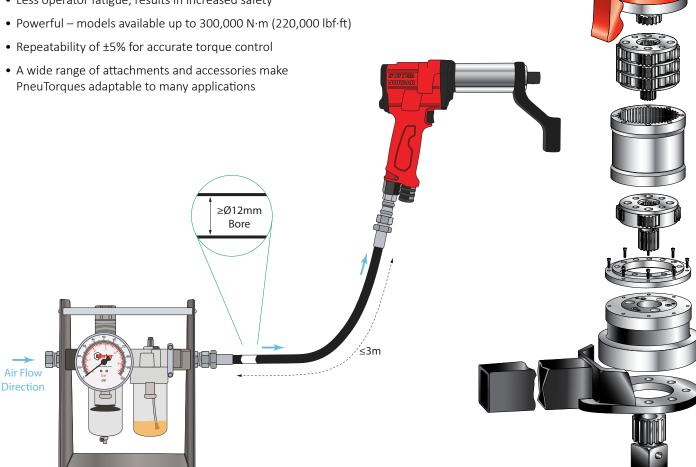
Hand operated torque multipliers are ideal for low volume or intermittent use or when there is no power source available. However, for production lines or whenever a large number of bolts is involved, a powered multiplier will save a considerable amount of time.

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  $\pm 5\%$ . Using electronic shut off, this repeatability can be improved to  $\pm 2\%$ .

#### 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







### 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



