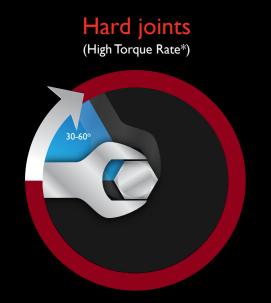
EVERY JOINT IS DIFFERENT.

EVOTORQUE'S INTELLIGENT JOINT SENSING TECHNOLOGY ALWAYS DETECTS WHICH TYPE OF BOLT YOU ARE WORKING WITH.

Traditional electronic torque tools give vastly different results depending on the joint type. Norbar's intelligent joint sensing eliminates these issues so that you can be confident in your bolting work.

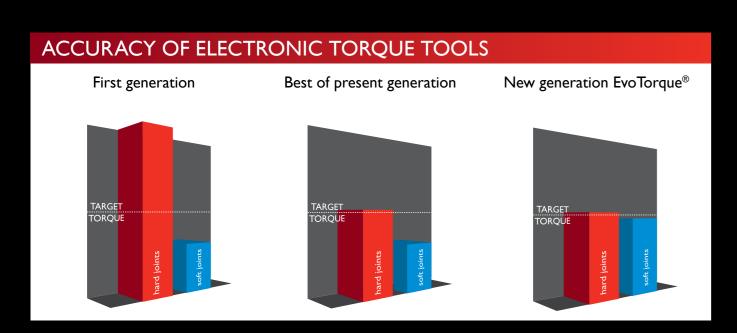




Soft joints (Low Torque Rate*)



*High torque rate and low torque rate as defined by ISO5393 "Rotary tools for threaded fasteners - Performance test method"





GLOBAL SERVICE

Norbar is the only torque equipment manufacturer capable of offering tool and instrument recalibration services to the original factory standard on four continents. Our accredited laboratories in Australia, USA and Singapore operate the same equipment and procedures as the UKAS accredited laboratory within our headquarters in the UK. A further Norbar laboratory is in operation in China and our laboratory in India opens in 2014.



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EVOTORQUE®

ELECTRONIC TORQUE TOOL WITH INTELLIGENT JOINT SENSING TECHNOLOGY



www.norbar.com







Part number 07516 | Issue I







NORBAR HAVE UTILISED PATENT PENDING MOTOR TECHNOLOGY AND MOTOR CONTROL SOFTWARE TO PRODUCE THE MOST ACCURATE,

ROBUST AND USER FRIENDLY ELECTRONIC TORQUETOOL EVER

Norbar's ElectronicTorque Tool utilises patent pending motor technology and control software to give unprecedented joint control.

Durable Peli case

for safe storage

Thermal stability
Cooling fan reduces
operating downtime







Backlit LCD display ensures visibility in all conditions

Key Lock feature prevents unauthorised usage

KEY FEATURES

Accuracy: Each tool is factory calibrated to $\pm 3\%$

Clear-Go/No-Go Joint Completion Feature: Clear indication of successful joint application. Operator can confidently interpret the tool, making it safer to use

Quietness & Low Vibration: Third party verified sound power (Lwa) of 72.3 dB (A) and vibration level of 0.304 m/s^2

Patent Pending Motor Technology and Motor Control Software: Gives unprecedented joint control

Modular Construction: Less downtime in case of maintenance

Dual Units of Torque Measurement: Torque can be set in N·m or lbf·ft

Temperature Independent Motor: The motor will continue to deliver correct torque regardless of temperature changes unlike permanent magnet motors

Angle Control: Evo Torque allows precise angle $(\pm 2^{\circ})$ to be applied. Every tool is calibrated for angle and the results are included on the certificate of calibration

Regenerating Braking Technology: Kinetic braking to avoid overshoot on hard joints

Made in England: Designed and manufactured in the UK

performs to IP44 Please refer to the table on the top right hand page for an explanation of IP ratings.

Easily removable

econdary handle

reliable, proven over

Multiplier platform

The EvoTorque tool

more than a decade on the Pneumatic Torque

balanced handling of

Tried and tested gearbox Low maintenance

due to brushless motor

refer to the table on the right for EvoTorque dimension

On-board control box making the tool more portable and convenient

CALIBRATION CERTIFICATE

Compatible reactions

spline arrangement is

identical to corresponding

Every tool is individually calibrated and is provided with a unique calibration certificate. This means that every EvoTorque is traceable to international standards via Norbar's UKAS accredited laboratory and therefore provides a seamless link with your internal quality systems.

IP RATINGS EXPLAINED

The first digit indicates the level of protection that the enclosure provides against access to hazardous parts (e.g., electrical conductors, moving parts) and the ingress of solid foreign objects.

The second digit indicates the level of protection that the enclosure provides against harmful ingress of water.



- Torque tool model and serial number
- 2 Torque calibration data
- data
- 4 Details of the test equipment and calibration certifical number. This information provide traceability to our UKAS accredited laboratory and hence to International Standards.



SOLID PARTICLE PROTECTION			LIQUID INGRESS PROTECTION				
Level	Object size protected against		Level	Object size protected agai			
0	No protection		0	No protection			
-1	>50mm		-1	Dripping water			
2		12.5mm	2	Dripping water	when tilted up to 15°		
3	>	2.5mm	3	Spray	ving water		
4	>	>Imm	4	Splashi	ng of water		
5	Dust	protected	5	Wa	ater jets		
6	D	ust tight	6	Powerfi	ul water jets		
			7	Immersi	on up to 1m		
			8	Immersic	n beyond Im		











INICAL SPECIFICATION		MODEL		1000-110	1000-230	1350-110	1350-230	2000-110	2000-230	4000-110	4000-230	6000-110	6000-230	
G					110	230	110	230	110	230	110	230	110	230
	B B		Part Nun	nber	18165.B06	18151.B06	18166.B06	18152.B06	18167.B08	18153.B08	18169.B08	18155.B08	18171.B12	18157.B12
→	C	R S T V	Square D	rive	3/4''	3/4''	3/4''	3/4''						
			Range	N·m	200-1000	200-1000	270-1350	270-1350	400-2000	400-2000	800-4000	800-4000	1200-6000	1200-6000
				lbf∙ft	147-738	147-738	200-1000	200-1000	295-1475	295-1475	590-2950	590-2950	885-4500	885-4500
c/			Speed rp	m	21	21	17	17	Ш	Ш			3.3	3.3
C/			Tool	kg	10.4	10.4	10.4	10.4	10.8	10.8	12.9	12.9	16.8	16.8
\prod			Weight	lb	22.9	22.9	22.9	22.9	23.8	23.8	28.4	28.4	37	37
			Reaction	kg	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	2.1	
			Weight	lb	1.5	1.5	1.5	1.5	1.5	1.5	2.9	2.9	4.6	4.6
			B (mm)		390	390	390	390	425	425	450	450	480	480
			C (mm)		435	435	435	435	435	435	435	435	435	435
		D (r	D (mm)		75	75	75	75	75	75	98.5	98.5	127	127
		E (9	E (ø mm)		72	72	72	72	72	72	92	92	119	119
F i			F (mm)		100	100	100	100	100	100	100	100	115	115