


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>UKAS CALIBRATION 0256</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Norbar Torque Tools Limited</h3> <p>Issue No: 031 Issue date: 14 July 2017</p>	
	<p>Wildmere Road Banbury Oxfordshire OX16 3JU</p>	<p>Contact: Mr B Pratt Tel: +44 (0)1295-270333 Fax: +44 (0)1295-753643 E-Mail: enquiry@norbar.com Website: www.norbar.com</p>
<p>Calibration performed at the above address only</p>		

DETAIL OF ACCREDITATION

Measured Quantity Instrument or Gauge	Range	Calibration and Measurement Capability (CMC) Expressed as an Expanded Uncertainty ($k = 2$)	Remarks
TORQUE			NOTES
Hand torque tools	To BS EN ISO 6789:2003 0.1 N·m to 3000 N·m	0.30 % See Notes 1, 2 and 8	<p>1 The uncertainty quoted is for both the application of the calibration torque and the characteristics of the device being calibrated.</p> <p>2 Calibrations may also be given in lbf.in and lbf.ft.</p> <p>3 Calibrations may also be given in units of electrical signal output, including voltage Ratio measurements.</p> <p>4 The length may also be given in inch units.</p> <p>5 Calibrations may be given in units of torque as appropriate.</p> <p>6 The uncertainties quoted are for Norbar ETS 40320 series of display instruments. The uncertainties may be increased for other types of electrical torque indicator.</p> <p>7. The uncertainties quoted are for the Norbar Torque Tool Tester 43228 series of display instruments when used with a device which has a nominal output of 2 mV/V. The uncertainties may be increased if the Torque Tool Tester 43228 is used with devices whose nominal output is less than 2 mV/V. The uncertainties may also be increased for other types of electrical torque indicator.</p> <p>8. BS EN ISO 6789:2003 is now withdrawn and superseded</p>
	To BS EN ISO 6789-2:2017 0.1 N·m to 3000 N·m	0.20 % See Notes 1 and 2	
Torque Multiplying Gearboxes	Documented In-House Method 50 N·m to 6800 N·m	0.66 % See Notes 1 and 2	
Mechanical and Electronic Torque Calibration Equipment	To BS EN 7882:2008 0.005 N·m to 1500 N·m	0.020 % See Note 1, 2 and 3	
	To BS EN 7882:2008 0.005 N·m to 6800 N·m	0.030 % See Note 1, 2 and 3	
	To BS EN 7882:2008 1000 N·m to 4000 N·m	0.40 % see note 1, 2 and 3	
	4000 N·m to 108500 N·m	0.20 % see note 1, 2 and 3	
Electrical torque indicators	Documented In-House Method 0.5 mV dc 1.0 mV dc 2.0 mV to 16.5 mV dc 5 V dc 0.05 Vdc 0.10 Vdc 0.20 Vdc to 2.00 Vdc 10 mA to 22 mA dc	0.14 % See Notes 5 & 7 0.087 % See Notes 5 & 7 0.073 % See Notes 5 & 7 0.0014 % See Note 7 0.35 % See Notes 5 and 6 0.18 % See Notes 5 and 6 0.11 % See Notes 5 and 6 0.014 % See Note 6	



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LENGTH Torque Beam Radius	Documented In-House Method 100 mm 250 mm 254 mm 305 mm 500 mm 610 mm 1000 mm 1220 mm	See Note 4 11 μ m 14 μ m 14 μ m 15 μ m 22 μ m 26 μ m 41 μ m 50 μ m	NOTES as on page 1
END			