


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

|  |   |  |
|--|---|--|
|  <p style="text-align: center;"><b>UKAS</b><br/>CALIBRATION</p> <p style="text-align: center;"><b>0256</b></p> <p style="text-align: center;">Accredited to<br/><b>ISO/IEC 17025:2005</b></p> | <h3 style="margin: 0;">Norbar Torque Tools Limited</h3> <p style="margin: 0;">Issue No: 023    Issue date: 26 November 2010</p> |  |
|  | <p><b>Beaumont Road</b></p> <p><b>Banbury</b></p> <p><b>Oxfordshire</b></p> <p><b>OX16 1XJ</b></p>                              | <p><b>Contact: Mr B Pratt</b></p> <p><b>Tel: +44 (0)1295-270333</b></p> <p><b>Fax: +44 (0)1295-753643</b></p> <p><b>E-Mail: enquiry@norbar.com</b></p> <p><b>Website: www.norbar.com</b></p> |
| <p><b>Calibration performed at the above address only</b></p>  |   |  |

### DETAIL OF ACCREDITATION

| Measured Quantity<br>Instrument or Gauge   | Range  | Calibration and<br>Measurement Capability<br>(CMC) Expressed as an<br>Expanded Uncertainty<br>( $k=2$ )  | Remarks   |
|--|--|--|---|
| <p><b>TORQUE</b></p> <p>Hand torque tools</p> <p>Torque Multiplying Gearboxes</p> <p>Mechanical and Electronic<br/>Torque Calibration Equipment</p> <p>Electrical torque indicators</p> <p><b>LENGTH</b></p> <p>Torque Beam Radius</p> | <p>To BS EN ISO 6789:2003<br/>0.1 N-m to 3000 N-m</p> <p>Documented In-House Method<br/>50 N-m to 6800 N-m</p> <p>To BS EN 7882:2008<br/>0.005 N-m to 1500 N-m</p> <p>To BS EN 7882:2008<br/>0.005 N-m to 6800 N-m</p> <p>To BS EN 7882:2008<br/>1000 N.m to 4000 N-m</p> <p>4000 N.m to 108500 N-m</p> <p>Documented In-House Method<br/>0.5 mV dc<br/>1.0 mV dc<br/>2.0 mV to 16.5 mV dc<br/>5 V dc<br/>0.05 Vdc<br/>0.10 Vdc<br/>0.20 Vdc to 2.00 Vdc<br/>10 mA to 22 mA dc</p> <p>Documented In-House Method<br/>100 mm to 1200 mm</p> | <p>0.3% See Notes 1 and 2</p> <p>0.66 % See Notes 1 and 2</p> <p>0.02% See Note 1, 2 and 3</p> <p>0.03% See Note 1, 2 and 3</p> <p>0.4% see note 1, 2 and 3</p> <p>0.2% see note 1, 2 and 3</p> <p>0.13% See Notes 5 &amp; 7<br/>0.08% See Notes 5 &amp; 7<br/>0.07% See Notes 5 &amp; 7<br/>0.0014% See Note 7<br/>0.35% See Notes 5 and 6<br/>0.18% See Notes 5 and 6<br/>0.11% See Notes 5 and 6<br/>0.014% See Note 6</p> <p>7<math>\mu</math>m<br/>See Note 4</p> | <p><b>NOTES</b></p> <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> |



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**Norbar Torque Tools Limited**  
**Issue No: 023 Issue date: 26 November 2010**

Calibration performed at main address only

| Measured Quantity<br>Instrument or Gauge | Range | Calibration and<br>Measurement Capability<br>(CMC) Expressed as an<br>Expanded Uncertainty<br>( $k=2$ ) | Remarks   |
|--|-------|---|---|
|  |       |   | NOTES (cont'd)<br><br>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. |
| END                                      |       |   |   |