

CERTIFICATE OF CALIBRATION

Issued By: Calibration Testing Solutions

Date of Issue: 20 July 2026

Certificate Number: 416539.4.1.1



0783



Calibration Testing Solutions

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APPROVED SIGNATORY

Customer : Catena Inspection & Engineering Services

Address : Brookhill Road , Brookhill Industrial Estate , Pinxton , Notts,
NG16 6NS.

Calibration Date:	20 July 2026	Serial Number:	79127610821
Date Received:	14 July 2026	CTSi Ref:	416539.4.1.1
Description:	Torque Wrench	Customer Ref:	79127610821
Make/Model:	Norbar / SLO		
Range:	4 - 20 N.m		
Test Conditions:	Min-Max Temp °C 20.2 20.3	Calibrated By:	R.Middleton

Basis of Test: Sections 5.1.5, 5.3 and 6 of BS EN ISO 6789 : 2003

Method of Test:

The above torque instrument was calibrated by the mechanical actuation of the torque tool via a gear box. A torque transducer measured the actual torque being applied. The uncertainty of the applied torque was 1% or better and the accuracy of the equipment to Class 2.0 or better in accordance with BS 7882:2017.

The instrument was fitted into the transducer and the level checked to ensure it was within $\pm 3^\circ$ of horizontal. The Instrument under test was then loaded to its maximum rated capacity five times prior to calibration. Measurements were made at three points throughout the scale. Five readings were taken at each point and are given in the table overleaf.

This instrument was calibrated against Laboratory Standards whose values are traceable to recognised National Standards. The uncertainty limits quoted refer to the measured values only and the readings given are the results at the time of calibration with no account being taken of the equipment's ability to maintain its calibration. The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k providing a level of confidence of approximately 95%

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory. The results found only apply to the item calibrated.

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UKAS Accredited Calibration Laboratory No. 0783

Unit of Measurement : N.m Direction : CW Condition : AS FOUND

Nominal Setting	Reading 1	Reading 2	Reading 3	Reading 4	Reading 5	Expanded Uncertainty ± N.m	Coverage Factor (k)
4.0	3.782	3.793	3.798	3.800	3.815	0.118	2.00
12.0	11.760	11.746	11.762	11.755	11.779	0.180	2.00
20.0	20.201	20.330	20.375	20.385	20.380	0.300	2.02
Deviation from Readings in %							
4.0	5.76	5.46	5.32	5.26	4.85		
12.0	2.04	2.16	2.02	2.08	1.88		
20.0	-1.00	-1.62	-1.84	-1.89	-1.86		

BSENISO6789 2003 Compliance : **PASS**

BS EN ISO 6789 : 2003

This Instrument is classified as a Type: 2 Class A Setting Torque tool
in accordance with the above standard

Uncertainty of Measurement

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor (k) at each setting in the table above, providing a level of confidence of approximately 95%

Decision Rule

The 'Compliance Statement' indicates compliance or otherwise with tolerance based on the 'simple acceptance / shared risk' decision rule (result v tolerance) with the expanded calibration uncertainty being no greater than the tolerance.

*** End of Report ***