

CERTIFICATE OF CALIBRATION

ISSUED BY: Torus Measurement Systems Ltd.

DATE OF ISSUE:

3rd July 2025

SERIAL No:

024974



0773



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PAGE 1 of 2 PAGES

APPROVED SIGNATORIES

D. Ball

E. Warlow

P. Wood

CUSTOMER: Mecmesin Ltd.
Newton House, Spring Copse Business Park, West Sussex, RH13 0SZ

ORDER NO: PO138662-1

DESCRIPTION: Torque Beam [Equipment number: SGS0491](#)

RANGE/SIZE: See Page 2

MANUFACTURER: N/A

QUANTITY: 1

SERIAL NO: SGS0491

TECHNICAL STANDARD: N/A

DRAWING NO: N/A

DATE RECEIVED: 20th June 2025

REPORT:

This Jig/ Fixture has been examined and measured at $20^{\circ}\text{C} \pm 1^{\circ}\text{C}$ using a Global CMM, a Reference Sphere and a Digital Thermometer & Probe. The mean of the measured results obtained are stated on the following page/s of this report.

* Denotes 'Out of Tolerance' to the above drawing

x Denotes errors before Repair/ Resetting

Repairs/ Resetting prior to calibration -/ NO

CALIBRATION EQUIPMENT: Lab 51, Lab 136 & Lab 106

DATE CALIBRATED: 3rd July 2025

Signature:

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

Simple acceptance shared risk (Ref JCGM 106:2012, section 8.2) where the expanded uncertainty for a coverage factor of $K=2$ associated with the result/estimate is \leq the tolerance.

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.

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PAGE 2 of 2 PAGES

CUSTOMER: Mecmesin Ltd.
DESCRIPTION: Torque Beam
DRAWING: N/A
SERIAL NUMBER: SGS0491

DESCRIPTION	AXIS	REQUIREMENT	MEASURED	DEVIATION	UNCERTAINTY UNIT
POINT 1		500.000	500.023	0.023	± 0.006 mm
POINT 2		250.000	249.977	-0.023	± 0.006 mm
POINT 3		250.000	249.997	-0.003	± 0.006 mm
POINT 4		500.000	499.967	-0.033	± 0.006 mm
POINT 5		500.000	499.990	-0.010	± 0.006 mm
POINT 6		250.000	249.984	-0.016	± 0.006 mm
POINT 7		250.000	250.010	0.010	± 0.006 mm
POINT 8		500.000	499.987	-0.013	± 0.006 mm

NOTE:

All above calibrated in metric
Measured value is the average of 3 runs
Measured values only relate to the equipment identified above
All above points are measured a nominal 15mm either side of the beam centre.

End of Report

Signature:

