



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

DURHAM PATTERN & MODEL
 22 Caristrap Street
 Bowmanville, Ontario L1C-3Y7, Canada
 Brad McIlroy Phone: 905 623 8700

CALIBRATION

Valid To: September 30, 2020

Certificate Number: 2630.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations^{1,5}:

I. Dimensional Testing/Calibration

Parameter/Equipment	Range	CMC ^{2,4} (±)	Comments
Dimensional Measurement (3D) ³ – Fixture Gages (3D) – Steel Aluminum Renshape 472 (Grey Board) Renshape BM-70 (Brown Board)	(1205 x 2005 x 1005) mm (900 x 1600 x 600) mm	(8.4 + 19L) μm (8.4 + 36L) μm (8.4 + 40L) μm (8.4 + 44L) μm	CMM used as measuring/ test equipment Mitutoyo Bright-A1220 Mitutoyo Bright-A916
Dimensional Measurement (1D) ³ – Tooling Pins	Up to 3.0 in Up to 6.0 in	250 μin 1200 μin	Micrometers used as measuring/test equipment Calipers used as measuring/testing equipment

Parameter/Equipment	Range	CMC ^{2,4} (±)	Comments
Dimensional Measurement (3D) ³	(500 x 400 x 400) mm		CMM used as measuring/ test equipment:
Fixtures Gages (3D)			Mitutoyo CRTA-544
Materials:			
Steel		(4.0 + 15L) μm	
Aluminum		(4.0 + 31L) μm	
Renshape 472 (Grey Board)	(4.0 + 35L) μm		
Renshape BM-70 (Brown Board)	(4.0 + 39L) μm		

¹ This laboratory offers commercial dimensional testing/calibration service.

² Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

³ This laboratory meets R205 – *Specific Requirements: Calibration Laboratory Accreditation Program* for the types of dimensional tests listed above and is considered equivalent to that of a calibration.

⁴ In the statement of CMC, L is the numerical value of the nominal length of the device in meters.

⁵ This scope meets A2LA's *P112 Flexible Scope Policy*.



Accredited Laboratory

A2LA has accredited

DURHAM PATTERN & MODEL

Bowmanville, Ontario, CANADA

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets R205 – Specific Requirements: Calibration Laboratory Accreditation Program. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 11th day of September 2018.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2630.01
Valid to September 30, 2020
Revised February 4, 2020

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.