



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

DIXON & RYAN CORP  
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CALIBRATION

Valid To: February 28, 2026

Certificate Number: 1564.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations<sup>1, 5</sup>:

I. Dimensional

Parameter/Equipment	Range	CMC <sup>2, 4</sup> (±)	Comments
Adjustable Column Height Gages	(1 to 24) in	$(67 + 8.0L) \mu\text{in}$	Gage blocks, electronic amplifier and probe
Air Gages	0.000 05 in resolution 0.0001 in resolution	30 $\mu\text{in}$ 58 $\mu\text{in}$	Air master restrictors
Bore Gages – 2 Point	0.000 05 in resolution 0.0001 in resolution 0.0005 in resolution	140 $\mu\text{in}$ 150 $\mu\text{in}$ 320 $\mu\text{in}$	Adjustable height gage
Calipers	Up to 80 in	$(0.6R + 15L) \mu\text{in}$	Gage blocks, ring gage
Electronic Amplifier and Probes	0.000 01 in resolution 0.0005 in resolution	59 $\mu\text{in}$ 300 $\mu\text{in}$	Gage blocks
End Standards	Up to 60 in	$(61 + 10L) \mu\text{in}$	Gage blocks, electronic amplifier and probe
Hole Gages – 3 Point	(0.2 to 10) in	$(100 + 21L) \mu\text{in}$	Ring gages

Parameter/Equipment	Range	CMC <sup>2,4</sup> (±)	Comments
Indicating Dial Calipers	(0.2 to 10) in	(290 + 32L) μin (110 + 13L) μin	Gage blocks, ring gage Hite master
Indicators	0.000 01 in resolution 0.0001 in resolution  0.0005 in 0.001 in	130 μin 140 μin  300 μin 590 μin	Gage blocks Adjustable height gage  Indicator calibrator
Micro Hites <sup>3</sup> and Height Gages <sup>3</sup>	Up to 48 in	(84 + 4L) μin (60 + 3L) μin	Gage blocks Standard reference bar
Micrometers			
Outside	Up to 60 in	(0.6R + 15L) μin	Gage blocks
Inside	Up to 60 in	(55 + 5.2L) μin	Gage blocks, electronic amplifier and probe
Pins/Plugs/ Outside Diameter Masters (Plain)	Up to 12 in	(55 + 25L) μin	Gage blocks, electronic amplifier and probe
Ring Gages	(0.25 to 12) in	(33 + 3.0L) μin	ID/OD comparator and gage blocks
Surface Roughness Gage	20 μin Ra 120 μin Ra	2.7 μin Ra 3.4 μin Ra	Surface patch
Surface Roughness Specimens	16.1 μin Ra 119.5 μin Ra	3.4 μin Ra 3.5 μin Ra	Surface roughness gage

II. Mechanical

Parameter/Equipment	Range	CMC <sup>2, 6</sup> (±)	Comments
Torque Wrenches	(5 to 50) lbf·in	2.0 %	Torque tester
	(40 to 400) lbf·in	2.0 %	
	(100 to 1000) lbf·in	2.0 %	
	(25 to 250) lbf·ft	2.0 %	
	(60 to 600) lbf·ft	2.0 %	

<sup>1</sup> This laboratory offers commercial calibration service.

<sup>2</sup> 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 of 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 CMC of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device, to the environment (if the calibration is performed in the field) and to influences from the circumstances of the specific calibration.

<sup>3</sup> Field calibration service is available for this calibration. Please note the actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the Calibration and Measurement Capability Uncertainty (CMC) found on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the uncertainty introduced by the item being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the actual measurement uncertainty achievable on a customer's site being larger than the CMC.

<sup>4</sup> In the statement of CMC,  $L$  is the numerical value of the nominal length of the device measured in inches, and  $R$  is the resolution of the device measured in micro inches.

<sup>5</sup> This scope meets A2LA's *P112 Flexible Scope Policy*.

<sup>6</sup> In the statement of CMC, percentages are percentage of reading, unless otherwise indicated.



## Accredited Laboratory

A2LA has accredited

**DIXON & RYAN CORP.**

*Royal Oak, MI*

for technical competence in the field of

**Calibration**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *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 25<sup>th</sup> day of January 2024.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 1564.01  
Valid to February 28, 2026

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