



# CERTIFICATE OF ACCREDITATION

## The ANSI National Accreditation Board

Hereby attests that

**Northeast Metrology, Inc.**  
**140 Industrial Drive**  
**East Longmeadow, MA 01028**

Fulfills the requirements of

**ISO/IEC 17025:2017**

and national standard

**ANSI/NCSL Z540-1-1994 (R2002)**

In the field of

**CALIBRATION**

This certificate is valid only when accompanied by a current scope of accreditation document.  
The current scope of accreditation can be verified at [www.anab.org](http://www.anab.org).

A handwritten signature in black ink, appearing to read 'R. Douglas Leonard Jr.', is positioned above a horizontal line.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 15 February 2023

Certificate Number: AC-1519



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.  
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).

**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017  
AND ANSI/NCSL Z540-1-1994 (R2002)**

**Northeast Metrology, Inc.**  
140 Industrial Drive  
East Longmeadow, MA 01028  
Mark Kuehl 413-525-1502

**CALIBRATION**

Valid to: **February 15, 2023**

Certificate Number: **AC-1519**

**Length – Dimensional Metrology**

<b>Parameter/Equipment</b>	<b>Range</b>	<b>Expanded Uncertainty of Measurement (+/-)</b>	<b>Reference Standard, Method, and/or Equipment</b>
Gage Blocks <sup>2</sup>	Up to 4 in (5 to 20) in	(1.8 + 2.7L) μin (3 + 3.2L) μin	Gage Blocks
Regular and Thread Micrometer Standards <sup>2</sup>	(1 to 20) in (21 to 72) in	(1 + 3.7L) μin (130 + 3.5L) μin	Universal Measuring Machine (UMM), Gage Blocks
Flute, O.D., Depth, Interchangeable-Anvil Micrometers <sup>1,2</sup>	Up to 72 in	(103 + 4.2L) μin	Gage Blocks
Calipers <sup>1,2</sup> (Dial, Digital, Vernier)	Up to 120 in	(66 + 3.3L) μin	Gage Blocks, Ring Gage
Pitch/Gear Wire Sets	Up to 120 TPI	13.7 μin	UMM, Pin Gages
Thread Plugs <sup>2</sup>	Up to 12 in	(66 + 2.6L) μin	UMM, Gage Blocks, Pitch Wires
Thread Rings <sup>2,3</sup>	Up to 6 in	(90 + 2.8L) μin	UMM, Thread Set Plugs
Plain Plugs/Discs <sup>2</sup>	(0.005 to 12) in	(9 + 3.9L) μin	UMM, Gage Blocks
Plain Ring Gages <sup>2</sup>	(0.04 to 10) in	(8 + 4L) μin	Ring/Disc Comparator, Gage Blocks
Electronic, Dial, Test Indicators <sup>1,2</sup>	(0.000 05 to 4) in	(26 + 4.6L) μin	Indicator Calibrator
V-Blocks <sup>2</sup>	Up to 6 in	(59 + 2.7L) μin	Indicator, Surface Plate, Reference Gage Pin

**Length – Dimensional Metrology**

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Height Gages <sup>1,2</sup>	Up to 24 in	$(123 + 3.5L) \mu\text{in}$	Gage Blocks, Surface Plate
Pin Gages <sup>2</sup>	(0.011 to 1) in	$(15 + 5.6L) \mu\text{in}$	UMM, Pin Gages, Laser Micrometer
Ball Gages <sup>2</sup>	Up to 2 in	$(15 + 2.4L) \mu\text{in}$	UMM Gage Blocks
Squares <sup>2</sup>	Up to 24 in	$(100 + 2L) \mu\text{in}$	Indi-Square, Indicator, Surface Plate

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 ( $k=2$ ), corresponding to a confidence level of approximately 95%.

Notes:

1. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope.
2.  $L$  = length in inches.
3. Only the Minor Diameter measurement is measured and Accredited. The Thread Set Plug is utilized is for tactical fit. If the ring gage does not fit correctly, it is then adjusted to the Thread Set Plug and the Minor Diameter will be rechecked. If proper drag is felt, if it is loose, or if it is tight, it will be checked on the certificate.
4. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-1519.



R. Douglas Leonard Jr., VP, PILR SBU