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.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 15 February 2025
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, 2025** Certificate Number: **AC-1519**

Length – Dimensional Metrology

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

Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
V-Blocks [2]	Up to 6 in	(59 + 2.7*L*) µin	Indicator, Surface Plate, Reference Gage Pin
Height Gages [1,2]	Up to 24 in	(123 + 3.5*L*) µin	Gage Blocks, Surface Plate
Pin Gages [2]	(0.011 to 1) in	(15 + 5.6*L*) µin	UMM, Reference Pin Gages, Laser Micrometer
Ball Gages [2]	Up to 2 in	(15 + 2.4*L*) µin	UMM Gage Blocks
Squares [2]	Up to 24 in	(100 + 2*L*) µin	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.

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