CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Ottawa Gage, Inc.
1271 Lincoln Avenue
Holland, MI 49423

Fulfills the requirements of

ISO/IEC 17025:2017

In the fields of

CALIBRATION and **DIMENSIONAL MEASUREMENT**

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.

Jason Stine, Vice President

Expiry Date: 02 November 2027
Certificate Number: L1130-1

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

Ottawa Gage, Inc.
1271 Lincoln Avenue
Holland, MI 49423
Ryan Broekhuis 616-396-4653

CALIBRATION AND DIMENSIONAL MEASUREMENT

ISO/IEC 17025 Accreditation Granted: **19 November 2025**

Certificate Number: **L1130-1** Certificate Expiry Date: **02 November 2027**

Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Cylindrical Plug Gages [1]	Up to 11.75 in (11.75 to 23.5) in	(7.9 + 2.6*D*) µin (6.3 + 2.6*D*) µin	Comparison to Universal Comparator, Master Gage Blocks
Cylindrical Plug Gages [1]	Up to 22 in	(7.7 + 2.5*D*) µin	Comparison to P&W Labmaster® Universal Measuring Machine
Cylindrical Ring Gages [1]	Up to 4 in (4 to 18) in (18 to 24) in	(3.2 + 2.6*D*) µin (7.5 + 2.4*D*) µin (8.8 + 2.4*D*) µin	Comparison to Universal Comparator, Height Comparator, Gage Blocks
Cylindrical Ring Gages [1]	Up to 0.125 in (0.125 to 0.25) in (0.25 to 0.5) in (0.5 to 1) in (1 to 3) in (3 to 5) in (5 to 7) in (7 to 9) in (9 to 11) in (11 to 14) in	(8.6 + 4*D*) µin (7 + 4*D*) µin (12.1 + 4*D*) µin (7 + 4*D*) µin (7.2 + 4*D*) µin (7 + 4*D*) µin (8.8 + 4*D*) µin (9 + 4*D*) µin (9.3 + 4*D*) µin (11.1 + 4*D*) µin	Comparison to P&W Labmaster® Universal Measuring Machine, Master Cylindrical Rings

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414-501-5494
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Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Bar Flush Gages [1]	Up to 24 in	(9.3 + 2.4*L*) µin	Comparison to Electronic Amplifier, Height Gage, Gage Blocks, Surface Plate
Barrel Flush Gages [1]	Up to 6 in	(12.5 + 2.4*L*) µin	Comparison to Electronic Amplifier, Height Gage, Gage Blocks, Surface Plate
Tapered Plug Gages [1]	Up to 8 in	(69.1 + 2.4*D*) µin	Comparison to Gage Blocks, Micrometers, Gage Rolls, Surface Plate
Tapered Ring Gages [1]	(0.062 to 3) in (3 to 10) in	(15 + 2.6*D*) µin (13.1 + 2.4*D*) µin	Comparison to Gage Blocks, Micrometers, Gage Rolls, Surface Plate
Countersink Flush Pin Gages [1]	Up to 4 in	(18.5 + 2.6*L*) µin	Comparison to Gage Rolls, Micrometers, Electronic Amplifier, Height Gage, Surface Plate, Gage Blocks
Special Length Gages [1]	Up to 1 in (1 to 3) in (3 to 5) in	(9.1 + 1.2*L*) µin (7.8 + 2.6*L*) µin (8 + 2.6*L*) µin	Comparison to Universal Comparator, Gage Blocks

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DIMENSIONAL MEASUREMENT

1 Dimensional

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Dimensional Measurement 1D – Outside Diameter Measurement [1]	Up to 1 in (> 1 to 4) in (> 4 to 23.5) in	(6.1 + 2.6*D*) µin (5.9 + 2.6*D*) µin (9 + 2.4*D*) µin	Comparisons to Height Master, Universal Comparator, Gage Blocks, Surface Plate, Electronic Amplifier, Optical Comparator
Dimensional Measurement 1D – Inside Diameter Measurement [1]	(0.059 to 4) in (> 4 to 24) in	(5.9 + 2.6*D*) µin (9.2 + 2.4*D*) µin	Comparisons to Height Master, Universal Comparator, Gage Blocks, Surface Plate, Electronic Amplifier, Optical Comparator
Dimensional Measurement 1D – Height Measurement [1]	Up to 30 in	(7.8 + 2.6*L*) µin	Comparisons to Height Master, Universal Comparator, Gage Blocks, Surface Plate, Electronic Amplifier, Optical Comparator
Dimensional Measurement 1D – Angle Measurement [1]	Up to 46°	21"	Comparison to Sine Plate, Indicator, V-Block

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2 Dimensional

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Dimensional Measurement 2D – Radius Measurement	(0.005 to 0.336) in 20X Magnification (0.337 to 0.672) in 10X Magnification	660 µin 660 µin	Comparison to Optical Comparator, Gage Rolls

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. D = diameter in inches; L = length in inches; ″ = arc-second.
2. Unless otherwise specified in the far-right column, the calibration/method utilized by the laboratory was developed and validated internally.

Jason Stine, Vice President

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