CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Ideal Precision Instrument Service, Inc.
4545 East Broad Street
Columbus, OH 43213

Fulfills the requirements of

ISO/IEC 17025:2017

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.

Jason Stine, Vice President

Expiry Date: 06 November 2027

Certificate Number: AC-3438

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

Ideal Precision Instrument Service, Inc.

4545 East Broad Street
Columbus, OH 43213

Eric Maxwell 614-866-1443

CALIBRATION

ISO/IEC 17025 Accreditation Granted: **06 November 2025**

Certificate Number: **AC-3438** Certificate Expiry Date: **06 November 2027**

Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Cylindrical Rings [1]	Up to 6 in	(14 + 2L) µin	Comparison to Universal Length Measuring Machine, Gage blocks
Length Standards [1]	1 in (2 to 38) in	14 µin (34 + 2.5L) µin	Comparison to Reference Bar, Surface Plate, Mu-Checker, Universal Length Measuring Machine
Radius Gages	(0.01 to 0.5) in	210 µin	Comparison to Optical Comparator
Roughness Specimens	Ra: 200 µin	1.7 µin	Comparison to Profilometer
Gage Blocks [1] Carbide	(0.005 to 4) in	(3.2 + 0.8*L*) µin	Comparison to Gage Block Comparator, Master Gage Blocks

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Gage Blocks [1] Ceramic Croblox Steel	 (0.005 to 4) in (0.005 to 4) in (0.005 to 4) in	 (2.4 + 1.4*L*) µin (3.1 + 1*L*) µin (2.5 + 1.3*L*) µin	Comparison to Gage Block Comparator, Master Gage Blocks
Cylindrical Pins (Class Z, Class ZZ)	Up to 1 in	33 µin	Comparison to Laserscan Micrometer, Master Pin Gages
Cylindrical Plugs [1]	(0.01 to 6) in	(13.3 + 8.2*L*) µin	Comparison to Universal Length Measuring Machine
Straight Thread Plugs [1] Major Diameter Pitch Diameter	 (0.089 to 6) in -	 (13.3 + 8.2L) µin 130 µin	Comparison to Gage Blocks, Universal Length Measuring Machine, Thread Wires
Gage Balls [1] Diameter	 (0.125 to 1) in	 (17 to 1.2*L*) µin	Comparison to Universal Length Measuring Machine
Feeler Gages [1]	Up to 0.5 in	(14 + 68L) µin	Comparison to Universal Length Measuring Machine
Calipers [1] (OD, ID, Depth, Step)	(0 to 60) in	(480 + 2.7*L*) µin	Comparison to Gage Blocks, Long Gage Blocks, Length Masters
Height Gages [1]	Up to 38 in	(37 + 9*L*) µin	Comparison to Reference Bar, Surface Plate, Mu-Checker
Indicators [1]	(0 to 4) in	(10 + 25*L*) µin	Comparison to Indicator Calibrator
Test Indicators [1]	(0.002 to 0.06) in	(32 + 580*L*) µin	Comparison to Indicator Calibrator

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Depth Micrometers [1]	(0.000 05 to 12) in	(180 + 2*L*) µin	Comparison to Gage Blocks, Universal Length Measuring Machine
Inside Micrometers [1]	Up to 72 in	(90 + 10*L*) µin	Comparison to Reference Bar, Surface Plate, Mu-Checker
Outside Micrometers [1]	Up to 1 in (1 to 42) in	65 µin (55 + 11*L*) µin	Comparison to Gage Blocks, Long Gage Blocks, Universal Length Measuring Machine
Groove Micrometers	(0.5 to 1) in	270 µin	Comparison to Gage Blocks
Profilometers	Ra: 200 µin	1.6 µin	Comparison to Roughness Specimens
Digital Protractors	(0 to 90)°	0.14°	Comparison to Sine Plate, Gage Blocks, Surface Plate
Mechanical Protractors	(0 to 180)°	0.11°	Comparison to Optical Comparator
Thickness Gages	(0.05 to 0.5) in	56 µin	Comparison to Gage Blocks
2-point Bore Gages	(0.000 02 to 0.05) in	32 µin	Comparison to Universal Length Measuring Machine
3-point Bore Gages [1]	(0.25 to 6) in	(36 + 39*L*) µin	Comparison to Cylindrical Rings
Micrometer Heads [1]	Up to 2 in	(18 + 4*L*) µin	Comparison to Universal Length Measuring Machine

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Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Precision Levels (Up to 15 in)	0.000 5 in/ft 0.005 in/ft	200 µin 510 µin	Comparison to Sine Bar, Gage Blocks, Surface Plate

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Tension Gages	Up to 500 gf	3.9 gf	Comparison to Force Gage
Torque Tools	(30 to 400) lbf·in (400 to 1 000) lbf·in (80 to 250) lbf·ft (250 to 600) lbf·ft	0.8 % of reading 0.22 % of reading + 0.45 lbf·in 0.73 % of reading + 0.11 lbf·ft 1.4 % of reading	Comparison to CDI Torque Calibration System

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. L = length in inches.
2. Unless otherwise specified in the far-right column, the calibration method/procedure used by the laboratory was developed and validated internally.

Jason Stine, Vice President

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