



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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CALIBRATION

Valid To: March 31, 2025

Certificate Number: 4174.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations^{1, 6}:

I. Dimensional

Parameter/Equipment	Range	CMC ^{2, 3, 7} (±)	Comments
ID – Plain Ring Gages	(0.04 to < 0.7) in (0.7 to < 4) in (4 to 13.25) in	5 μin (3.4D + 2.5) μin (3.6D + 1.7) μin	Federal 136 B
	(0.23 to <1) in (1 to <4) in (4 to 14) in	7 μin (5.9D - 0.3) μin (4.7D - 5.0) μin	P&W Labmaster™
OD – Plain Plug Gages and Setting Discs	Up to < 0.7 in (0.7 to < 4) in (4 to 12) in	5 μin (3.4D + 2.4) μin (3.1D + 9.4) μin	Federal EHE 1053
	(0.23 to < 1) in (1 to < 4) in (4 to 13) in	7 μin (5.9D + 0.2) μin (4.6D - 4.2) μin	P&W Labmaster™
Length – Measure Outer Planes	Up to < 0.7 in (0.7 to < 4) in (4 to 12) in	5 μin (3.3L + 2.9) μin (3.5L + 2.4) μin	Federal EHE 1053

Parameter/Equipment	Range	CMC ^{2, 3, 7} (\pm)	Comments
Length – Measure (cont) Inner/Outer Planes	(0.23 to < 1) in (1 to < 4) in (4 to 14) in	6 μ in (6.0L - 0.2) μ in (4.7L - 5.3) μ in	P&W Labmaster™
Air Gaging – Micro II(i) Dimensional Readout, SMO-Air ⁴	Up to 0.0003 in tolerance (> 0.0003 to 0.003) in tolerance	12 μ in 20 μ in	Lab master, WGC spec 71, 72 orifice set Lab master, WGC spec 63, 64 orifice set
Air Plug Gaging System ^{4, 5}	(0.059 to 8.3) in	(9.2D + 3.1) μ in	Master ring gage
Air Ring Gaging System ^{4, 5}	(0.061 to 7.5) in	(9.3D + 2.9) μ in	Master plug gage
Magnification Orifice	Up to 0.0003 in tolerance (> 0.0003 to 0.003) in tolerance	10 μ in 19 μ in	Grand master, WGC spec 71, 72 orifice set, Micro II(i) Grand master, WGC spec 63, 64 orifice set, Micro II(i)

¹ This laboratory offers commercial calibration service.

² 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 or 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 actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

³ In the statement of CMC, D and L are the numerical values of the nominal diameter or length of the measurand in inches, respectively.

⁴ The contribution to the uncertainty from the device under calibration are excluded from the CMC.

⁵ Minimum CMC is 6 micro-inches.

⁶ This scope meets A2LA's *P112 Flexible Scope Policy*.

⁷ The type of instrument or material being calibrated is defined by the parameter. This indicates the laboratory is capable of calibrating instruments that measure or generate the values in the ranges indicated for the listed measurement parameter.

