



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

FOWLER METROLOGY, LLC
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CALIBRATION

Valid To: April 30, 2020

Certificate Number: 4072.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations^{1,4}:

I. Dimensional

Parameter/Equipment	Range	CMC ^{2,3} (±)	Comments
Bore Gages	Up to 8 in	$(67 + 2.8D) \mu\text{in} + 0.6R$	Comparison to ring gages or gage blocks
Calipers	Up to 12 in (12 to 80) in	$(350 + 3.7L) \mu\text{in}$ $(510 + 6.9L) \mu\text{in}$	Gage blocks
Cylindrical Pins/Plugs Trimos Nano Trimos THV	Up to 8 in Up to 2 in	$(7.4 + 2.6D) \mu\text{in}$ $(12 + 1.3D) \mu\text{in}$	ULM
Cylindrical Rings	Up to 8 in	$(19 + 2.0D) \mu\text{in}$	ULM
Depth Micrometers	Up to 12 in	$(700 + 7.2L) \mu\text{in}$	Gage blocks
Gage Blocks	Up to 4 in (5 to 20) in	$(1.4 + 2.2L) \mu\text{in}$ $(0.5 + 2.5L) \mu\text{in}$	Master gage blocks

Parameter/Equipment	Range	CMC ^{2,3} (\pm)	Comments
Height Gage	Up to 44 in	$(62 + 2.2L) \mu\text{in} + 0.6R$	Gage blocks
Indicators			
Test Drop	Up to 0.06 in Up to 1 in	$35 \mu\text{in} + 0.6R$ $42 \mu\text{in} + 0.6R$	Indicator calibrator
Drop	Up to 6 in	$(37 + 3.6L) \mu\text{in} + 0.6R$	Comparison to gage blocks and electronic amplifier
Indicator Calibrators	Up to 1 in	$23 \mu\text{in}$	Master gage blocks and electronic amplifier
Length/Micrometer Standards	Up to 20 in	$(2.9 + 4.3L) \mu\text{in}$	Comparison to gage blocks
LVDTs	Up to 1 in	$36 \mu\text{in}$	Gage blocks
Micrometers			
Inside	(2 to 20) in	$(580 + 1.1L) \mu\text{in}$	ULM
Outside	Up to 6 in (6 to 12) in (12 to 20) in	$(39 + 5.5L) \mu\text{in}$ $(255 + 8L) \mu\text{in}$ $(930 + 11L) \mu\text{in}$	Gage blocks
Micrometer Heads	Up to 2 in	$(96 + 3.1L) \mu\text{in}$	Gage blocks
Thickness Gages (Feeler Type)	Up to 2 in	$(33 + 95L) \mu\text{in}$	ULM
Thickness Gage (Caliper Type)	Up to 6 in	$(290 + 100L) \mu\text{in}$	Gage blocks

Parameter/Equipment	Range	CMC ^{2,3} (\pm)	Comments
Universal Measuring Machines Trimos Nano Trimos THV	Up to 20 in Up to 4 in	(7.1 + 2.1L) μ in (12 + 1.3L) μ in	Master gage blocks
Steel Rulers	Up to 12 in	(360 + 9.4L) μ in	Vision measuring system

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, L is the numerical value of the nominal length of the device measured in inches, R is the resolution of the unit under test and D is the numerical value of the nominal diameter of the device measured in inches or meters.

⁴ This scope meets A2LA's *P112 Flexible Scope Policy*.



Accredited Laboratory

A2LA has accredited

FOWLER METROLOGY, LLC.

Newton, MA

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets R205 – Specific Requirements: Calibration Laboratory Accreditation Program. 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 8 January 2009*).



Presented this 1st day of February 2017.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4072.01
Valid to April 30, 2020
Revised February 25, 2019

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.