SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

GLASTONBURY SOUTHERN GAGE CT
87 Upton Road
Colchester, CT 06415
Steve Eells Phone: 860 537 7340

CALIBRATION

Valid To: April 30, 2026 Certificate Number: 1553.01

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, 5] (±)	Comments
Plain Rings – Minor Diameter	(0.040 to 4.0) in (4.0 to 22.5) in	(7.2 + 1.2*L*) µin (4.9 + 2.2*L*) µin	FED 136B-3 w/ gage blocks
Plain Plugs and Discs – Major Diameter	(0.010 to 4.0) in (4.0 to 10.0) in (10.0 to 27.0) in (0.010 to 4.0) in (4.0 to 21.0) in	(6.3 + 1.7*L*) µin (3.6 + 2.6*L*) µin (6.6 + 2.5*L*) µin (7.2 + 1.5*L*) µin (3.2 + 2.5*L*) µin	Heidenhain Sigmatic Federal 136 B-3 w/ gage blocks
Length – Between Two Planes – Measure	(0.010 to 10.0) in (10.0 to 28.0) in	(27 + 1.3*L*) µin (19 + 2.1*L*) µin	Federal gage head amp. w/ gage blocks
Surface Flatness – Measure	Up to 6.0 in	7.0 µin	Optical flats and monochromatic light

Parameter/Equipment	Range	CMC[2, 3, 5] (±)	Comments
Geometry - Measure			
Roundness	Diameter up to 16 in Height up to 12 in	4.4 µin (4.4 + 1*H*) µin	Federal Formscan 3100
Concentricity/Runout	Diameter up to 16 in Height up to 12 in	12.6 µin (13 + 1*H*) µin	Federal Formscan 3100
Perpendicularity	Diameter up to 16 in Height up to 12 in	4.7 µin (4.7 + 1*H*) µin	Federal Formscan 3100
Parallelism	Diameter up to 16 in Height up to 12 in	5.6 µin 5.6 µin	Federal Formscan 3100
Circular Flatness	Diameter up to 16 in Height up to 12 in	4.3 µin 4.3 µin	Federal Formscan 3100

[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, *H* is the numerical value of height from table surface.

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

[5] 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.

Accredited Laboratory

A2LA has accredited

GLASTONBURY SOUTHERN GAGE CT

Colchester, CT

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *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 April 2017*).

Presented this 10th day of April 2024.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1553.01
Valid to April 30, 2026

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