



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

GEOMETRIC DESIGN AND TECHNOLOGY, INC  
 20040 Cochran Road  
 Meadville, PA 16335  
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CALIBRATION

Valid To: February 28, 2019

Certificate Number: 1984.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations and dimensional testing<sup>1</sup>:

I. Dimensional

Parameter/Equipment	Range	CMC <sup>2,4</sup> (±)	Comments
OGP Video Measuring Machines <sup>3</sup>	Up to 27.5 in	(79 + 1L) μin	Glass grid
Calipers <sup>3</sup>	Up to 27.5 in	(450 + 35L) μin	Comparison to master gage blocks
Micrometers <sup>3</sup>	Up to 5 in	(23 + 1L + 0.6R) μin	Comparison to master gage blocks
Indicators <sup>3</sup>	Up to 6 in	(74 + 9L) μin	Comparison to master gage blocks

## II. Dimensional Testing/Calibration<sup>1</sup>

Parameter/Equipment	Range	CMC <sup>2,4</sup> (±)	Comments
One Dimensional <sup>5</sup> – Length	Up to 12 in Up to 3 in (3 to 5) in Up to 6 in	(600 + 44L) μin (59 + 9L) μin (560 + 10L) μin (94 + 10L) μin	Dimensional inspection using: Calipers Micrometers Indicators
Three Dimensional <sup>5</sup> – Length  Volumetric	Up to 27.5 in Up to 8 ft Up to 18 in	(79 + 2L) μin (1200 + 2L) μin (310 + 7L) μin	Dimensional inspection using: OGP video measuring equipment Faro arm CMM
Surface Finish <sup>5</sup>	(1 to 250) μin	3.2 μin	Fowler pocket surf profilometer
Durometer Hardness <sup>5</sup>	Scale A	1.9 DP	Instron Shore model S1 handheld digital durometer

### III. Dimensional Testing<sup>6</sup>

Parameter/Equipment	Range	CMC <sup>2,8</sup> (±)	Comments
One Dimensional <sup>7</sup> – Length	Up to 12 in	(600 + 44L) μin	Dimensional inspection using: Calipers
	Up to 3 in (3 to 5) in	(59 + 9L) μin (560 + 10L) μin	Micrometers
	Up to 6 in	(94 + 10L) μin	Indicators
Three Dimensional <sup>7</sup> – Length  Volumetric	Up to 27.5 in	(79 + 2L) μin	Dimensional inspection using: OGP Video measuring equipment
	Up to 8 ft	(1200 + 2L) μin	Faro arm
	Up to 18 in	(310 + 7L) μin	CMM
Surface Finish <sup>7</sup>	(1 to 250) μin	3.2 μin	Fowler pocket surf profilometer
Durometer Hardness <sup>7</sup>	Scale A	1.9 DP	Instron Shore model S1 handheld digital durometer

<sup>1</sup> This laboratory offers commercial calibration/dimensional testing and field calibration services.

<sup>2</sup> 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.

<sup>3</sup> Field calibration service is available for this calibration and this laboratory meets A2LA R104 – *General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these calibrations. Please note the actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the CMC found on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the actual uncertainty introduced by the item being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the actual measurement uncertainty achievable on a customer's site being larger than the CMC.

<sup>4</sup> In the statement of CMC,  $L$  is the numerical value of the nominal length of the device measured in inches and  $R$  is the numerical value of the resolution of the device in inches

<sup>5</sup> This laboratory meets R205 – *Specific Requirements: Calibration Laboratory Accreditation Program* for the types of dimensional tests listed above and is considered equivalent to that of a calibration certificate.

<sup>6</sup> This laboratory offers commercial dimensional testing service.

<sup>7</sup> This test is not equivalent to that of a calibration.

<sup>8</sup> In the statement of CMC,  $L$  is the numerical value of the nominal length of the dimension under test in inches.



## *Accredited Laboratory*

A2LA has accredited

# **GEOMETRIC DESIGN AND TECHNOLOGY, INC.**

*Meadville, PA*

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 25<sup>th</sup> day of January 2017.

A handwritten signature in black ink, written over a horizontal line.

President and CEO  
For the Accreditation Council  
Certificate Number 1984.01  
Valid to February 28, 2019

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