



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

GLASTONBURY SOUTHERN GAGE TN  
46 Industrial Park Road  
Erin, TN 37061  
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CALIBRATION

Valid until: April 30, 2018

Certificate Number: 1553.02

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

I. Dimensional

Parameter/Equipment	Range	CMC <sup>2,3</sup> (±)	Comments
Plain Rings – Internal Diameter	(0.06 to 4) in (4 to 22.5) in	(7.2 + 1.5L) μin (3.2 + 2.8L) μin	Federal 136 B-3, gage blocks
Plain Cylindrical Plugs and Discs – External Diameter	(0.01 to 5.5) in (0.01 to 4) in (4 to 20) in	(7.8 + 0.77L) μin (6.8 + 1.8L) μin (3 + 2.8L) μin	Heidenhain Federal 136 B-3, gage blocks
Length – Between Two Planes	(0.01 to 6) in (0.01 to 26) in	200 μin (26 + 0.90L) μin	Sylvac DiaLectron & gage blocks
Plain Tapered Plugs – External Diameter			Taper blocks w/:
0.75 TPF	(0.01 to 3) in (3 to 12) in	53 μin 58 μin	Mikrokator DiaLectron
All Tapers	(0.01 to 8) in	41 μin	Standard measuring machine, gage block, & rolls

Parameter/Equipment	Range	CMC <sup>2,3</sup> (±)	Comments
Plain Tapered Rings – Internal Diameter			
0.75 TPF	(0.04 to 3) in (3 to 12) in	90 µin 100 µin	Indicator & taper plug
All Tapers	(0.4 to 8) in	81 µin	
External Straight Thread Plugs –			Blocks & wires w/:
Pitch Diameter: (0.5 to 120) TPI	(0.047 to 3) in (3 to 24) in	54 µin (49 + 1.5L) µin	Mikrokator & standard measuring machine
Major Diameter	(0.047 to 3) in (3 to 24) in	35 µin (25 + 2.1L) µin	Mikrokator & P&W standard measuring machine
External Thread Lead Straight and Tapered	(1/2 to 120) TPI	47 µin	Optical comparator
External Thread Flank Straight and Tapered	(0 to 180)°	4.0'	Optical comparator
Internal Straight Thread Ring –			
Pitch Diameter: (0.5 to 120) TPI	(0.06 to 12.5) in	54 µin	Certificate states the ring is sized to a plug, with the plug's uncertainty given
Minor Diameter	(0.04 to 0.40) in (0.40 to 6.0) in (6.0 to 12.5) in	94 µin 95 µin (88 + 0.80L) µin	

Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
External Tapered Thread Plug –  Pitch Diameter:  0.750 TPF, (0.5 to 120) TPI  Major Diameter	(0.047 to 3) in  (3 to 12) in  (0.1 to 3.0) in  (3.0 to 12) in	91 µin  96 µin  53 µin  58 µin	Mikrokator, blocks, taper block, & wires  Standard measuring machine, blocks, & wires  Taper block & Mikrokator  Taper block & DiaLectron
Internal Tapered Thread Rings –  Pitch Diameter:  0.75 TPF, (0.5 to 120) TPI  Minor Diameter	(0.06 to 3) in (3 to 12) in  (0.40 to 3.0) in (3.0 to 12.0) in	270 µin 270 µin  90 µin 100 µin	Tapered master plug & Sylvac  Taper plug & indicator
Thread Wires –  Inch  Metric	(4 to 80) TPI  (0.2 to 10) Pitch	17 µin  17 µin	Master wire & Heidenhain

<sup>1</sup> This laboratory offers commercial calibration service.

<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> In the statement of CMC,  $L$  is the numerical value of the nominal length of the device measured in inches.



## Accredited Laboratory

A2LA has accredited

### GLASTONBURY SOUTHERN GAGE TN

*Erin, TN*

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 any additional program requirements in the field of calibration. 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 27<sup>th</sup> day of April 2016.



A handwritten signature in blue ink, appearing to read "Jim C. Bunt".

Senior Director of Quality and Communications  
For the Accreditation Council  
Certificate Number 1553.02  
Valid to April 30, 2018

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