



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017  
& ANSI/NCSL Z540-1-1994

THE L.S. STARRETT COMPANY  
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CALIBRATION

Valid To: October 31, 2026

Certificate Number: 0760.01

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the organization's compliance with R205 – A2LA's Calibration Program Requirements), accreditation is granted to this laboratory to perform the following calibrations<sup>1</sup>:

I. Dimensional

Parameter/Equipment	Range	CMC <sup>2, 3, 4</sup> ( $\pm$ )	Comments
Length Gages –  Flat and Spherical Ends  Steel Rules	Up to 1 in (1 to 36) in  (36 to 60) in (60 to 80) in  Up to 6 ft (6 to 12) ft	(10 + 2L) $\mu$ in (20 + 2.5L) $\mu$ in  (20 + 2.5L) $\mu$ in (30 + 2.5L) $\mu$ in  (190 + 4L) $\mu$ in (340 + 4L) $\mu$ in	Gage blocks, ASME B89.1.13  Gage blocks, Mfg specifications  GGG-R-791H/Mfg specifications, direct comparison
Squareness – Measure	4 in $\times$ 4 in 6 in  12 in 24 in 36 in	41 $\mu$ in or 8 arc second 55 $\mu$ in  100 $\mu$ in 180 $\mu$ in 250 $\mu$ in	True square, GGG-S- 656D, manufacturer's specifications  Granite square

Parameter/Equipment	Range	CMC <sup>2, 3, 4</sup> ( $\pm$ )	Comments
Straightness – Measure	(12 to 72) in	$(30 + 4L) \mu\text{in}$	MIL-S-15769, manufacturer's specifications
Parallelism – Measure	Up to 6 in	50 $\mu\text{in}$	Measuring machine, GGG-P-61A, manufacturer's specifications
Thickness of Material – Measure	Up to 0.20 in	32 $\mu\text{in}$	Measuring machine, GGG-G-17C, manufacturer's specifications
Height Gages –  Vernier   Digital	Up to 24 in Up to 36 in Up to 48 in Up to 60 in  Up to 24 in	230 $\mu\text{in}$ 300 $\mu\text{in}$ 370 $\mu\text{in}$ 440 $\mu\text{in}$  340 $\mu\text{in}$	GGG-C-111C, manufacturer's specification
Indicators –  Mechanical    Digital	0.000 05 in 0.0001 in 0.000 25 0.0005 in 0.001 in  0.000 05 in 0.0001 in 0.0005 in 0.001 in	50 $\mu\text{in}$ 56 $\mu\text{in}$ 56 $\mu\text{in}$ 56 $\mu\text{in}$ 60 $\mu\text{in}$  35 $\mu\text{in}$ 65 $\mu\text{in}$ 170 $\mu\text{in}$ 300 $\mu\text{in}$	Gage blocks, comparators, ANSI B89.1.10M, manufacturer's specifications  Range is equal to graduation/resolution

Parameter/Equipment	Range	CMC <sup>2, 3</sup> ( $\pm$ )	Comments
Calipers –			GGG-C-111C, manufacturer's specifications
Vernier: Outside/Depth Inside Diameter Nib <sup>5</sup>	Up to 72 in (0.25 to 2) in	(110 + 50 <i>L</i> ) $\mu$ in 290 $\mu$ in	Gage blocks Rings
Dial: Outside/Depth Inside Diameter Nib <sup>5</sup>	Up to 24 in (0.25 to 1.4) in	(250 + 3 <i>L</i> ) $\mu$ in 290 $\mu$ in	Gage blocks Rings
Digital: Outside/Depth	Up to 24 in Up to 36 in Up to 48 in Up to 60 in Up to 72 in	310 $\mu$ in 340 $\mu$ in 380 $\mu$ in 420 $\mu$ in 460 $\mu$ in	Gage blocks
Inside Diameter Nib <sup>5</sup>	(0.25 to 1.4) in	290 $\mu$ in	Rings
Micrometers –			
Head	Up to 1 in	20 $\mu$ in	Gage blocks, ASME B89.1.13
Outside: Mechanical	Up to 4 in (>4 to 9) in (>9 to 12) in (>12 to 60) in	(30 + 2 <i>L</i> ) $\mu$ in (32 + 2 <i>L</i> ) $\mu$ in (35 + 3.5 <i>L</i> ) $\mu$ in (60 + 4 <i>L</i> ) $\mu$ in	
Digital	Up to 4 in (>4 to 15) in (>15 to 24) in	40 $\mu$ in (45 + 3 <i>L</i> ) $\mu$ in (110 + 5 <i>L</i> ) $\mu$ in	
Inside	(1.5 to 12) in (>12 to 40) in	(40 + 3 <i>L</i> ) $\mu$ in 190 $\mu$ in	
Tubular, Scale Tubular	(32 to 107) in (6 to 294) in	340 $\mu$ in (60 + 4 <i>L</i> ) $\mu$ in	
Depth : Mechanical	Up to 4 in (>4 to 12) in	80 $\mu$ in 85 $\mu$ in	
Digital	Up to 4 in (>4 to 12) in	80 $\mu$ in 110 $\mu$ in	
Bench Micrometer	Up to 2 in	40 $\mu$ in	

Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
Electronic/Amp Gage			
Digital	(0.0001 to 0.02) in	11 µin	Gage blocks, manufacturer's specification
Analog	(0.0002 to 0.02) in	23 µin	
Bore Gages –			
Dial, Plunger Type	(2 to 8) in	60 µin	MIL-G-26762B, manufacturer's specification
Internal: Mechanical	(0.08 to 0.25) in (0.25 to 12) in	50 µin 75 µin	
Digital	(0.08 to 0.25) in (0.25 to 12) in	50 µin 75 µin	
Protractors –			
Stamped Grad	360°	4.3 minutes	GGG-S-565 GGG-P-676B
Etched Grad	360°	1.5 minutes	
Levels/Vials	0.0005" (5 seconds) 0.0050" (5 minutes) 0.0625" (17-21 minutes)	30 µin 42 µin 500 µin	Sine plate, GGG-L- 211D, manufacturer's specification
Steel Tape Lines –			
Self-Support	Up to 35 ft	0.0042 µin	NIST handbook 44
Long Lines	(35 to 50) ft (50 to 100) ft	0.01 in 0.011 in	GGG-T-106F/ MIL-T-16644D

<sup>1</sup> Commercial calibration service is sometimes available for this laboratory.

<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,  $L_{ft}$  is the numerical value measured in feet.

<sup>4</sup> 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.

<sup>5</sup> I.D. Nib values represent the precision of the I.D. measuring faces location and the manufacturer's design, to the main scale. Values are for scale shift error, when using measuring faces other than the outside measuring faces. Additional error of indication may occur when a caliper is designed with cross knife-edge inside measuring surfaces.



# Accredited Laboratory

A2LA has accredited

**THE L.S. STARRETT COMPANY**

*Athol, MA*

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 the requirements of ANSI/NCSL Z540-1-1994 and 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 10<sup>th</sup> day of June 2025.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 0760.01  
Valid to October 31, 2026

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