SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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CALIBRATION

Valid To: March 31, 2027 Certificate Number: 7417.01

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[1, 4]:

I. Dimensional

Parameter/Equipment	Range	CMC[2, 5] (±)	Comments
Length	Up to 67 858 mm Up to 2714 in	(0.96 + 0.000 47*L*) µm (37 + 0.47*L*) µin	Laser measurement system
Master Tapes (Diameter)	Up to 75 in Up to 1905 mm	(10 + 0.77*L*) µin (0.26 + 0.000 77*L*) µm	Laser measurement system
Cylindrical Gages	Up to 75 in Up to 1905 mm	(280 + 0.39*L*) µin (7.2 + 0.000 39*L*) µm	Master tapes & Laser system
Linear Vernier Scales	Up to 10 mm (Up to 25 in) Up to 10 mm (Up to 25 in)	23 µm 780 µin 7.7 µm 300 µin	Optical comparator Laser measurement system

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Parameter/Equipment	Range	CMC[2, 5] (±)	Comments
Linear Machines Marked for Diameter Measurements	Up to 72 in Up to 2000 mm Up to 72 in Up to 2000 mm	(81 + 0.62*L*) µin (0.45 + 0.000 62*L*) µm (14 + 0.35*L*) µin (0.34 + 0.000 37*L*) µm	Gage blocks (backup method) Laser measurement system
Linear Machines Marked for Linear Measurements	Up to 192 in Up to 5000 mm Up to 192 in Up to 5000 mm	(63 + 0.88*L*) µin (1.0 + 0.000 68*L*) µm (47 + 0.33*L*) µin (1.0 + 0.000 38*L*) µm	Gage blocks (backup method) Laser measurement system
Precision Diameter Tapes	Up to 75 in Up to 1905 mm	(430 + 0.78*L*) µin (11 + 0.000 78*L*) µm	Cylindrical gages (or optical comparator)
Digital Diameter Tapes R = 0.0005 in	Up to 75 in Up to 1368 in	(380 + 0.78*L*) µin (120 + 0.14*L*) µin	Cylindrical gages Linear machine
R = 0.01 mm	Up to 1905 mm Up to 34 200 mm	(9.5 + 0.000 46*L*) µm (2.6 + 0.000 15*L*) µm	Cylindrical gages Linear machine
Go/No Go Diameter Tapes	Up to 75 in Up to 1905 mm	(360 + 0.78*L*) µin (9.0 + 0.000 78*L*) µm	Cylindrical gages (or optical comparator)
	Up to 1368 in Up to 34 200 mm	(61 + 0.2*L*) µin (1.5 + 0.000 21*L*) µm	Linear machine
Outside, Inside, Belt, O-Ring & Wide Diameter Tapes O.D. & I.D.			
Vernier = 25 in R = 0.001 in	Up to 75 in Up to 1368 in	(430 + 0.39*L*) µin (240 + 0.11*L*) µin	Cylindrical gages Linear machine
Vernier = 50 mm R = 0.01 mm	Up to 1905 mm Up to 34 200 mm	(9.5 + 0.000 46*L*) µm (2.7 + 0.000 18*L*) µm	Cylindrical gages Linear machine
Vernier = Up to 10 in R = 0.001 in	Up to 75 in	(430 + 0.39*L*) µin	Cylindrical gages
Vernier = Up to 25 mm R = 0.01 mm	Up to 1905 mm	(9.5 + 0.000 46*L*) µm	Cylindrical gages

Parameter/Equipment	Range	CMC[2, 5] (±)	Comments
Precision Diameter Tapes (cont.)			
Outside, Inside, Belt, O-Ring & Wide Diameter Tapes O.D. & I.D.			
Vernier = Up to 10 mm R = 0.05 mm	Up to 1905 mm	15 µm	Cylindrical gages
Vernier = 100 in R = 0.01 in	Up to 75 in Up to 1368 in	0.0023 in 0.0023 in	Cylindrical gages Linear machine
Vernier = 25 mm R = 0.5 mm	Up to 1905 mm Up to 34 200 mm	120 µm 120 µm	Cylindrical gages Linear machine
Precision Linear Measurement Tapes	Up to 444 in Up to 11 278 mm	(350 + 4.8*L*) µin (19 + 0.0056*L*) µm	Linear machine Gage blocks (or optical comparator)
Digital Linear Tapes			
R = 0.0005 in R = 0.01 mm	Up to 1200 in Up to 48 000 mm	(180 + 0.38*L*) µin (4.6 + 0.000 31*L*) µm	Linear machine calibrated with laser measurement system
Linear Tapes			
Vernier = 25 in R = 0.001 in	Up to 1200 in	(260 + 0.34*L*) µin	Linear machine calibrated with laser measurement system
Vernier = 10 mm R = 0.1 mm	Up to 48 000 mm	(23 + 0.000 15*L*) µm	
Precision Circumference Tapes	Up to 444 in Up to 11 278 mm	(350 + 4.8*L*) µin (19 + 0.0056*L*) µm	Linear machine, gage blocks, cylindrical gages
Digital Circumference Tapes			
R = 0.0005 in	Up to 235 in Up to 1200 in	1200 µin (180 + 0.38*L*) µin	Cylindrical gages Linear machine
R = 0.01 mm	Up to 6000 mm Up to 48 000 mm	(29 + 0.000 49*L*) µm (4.6 + 0.000 31*L*) µm	Cylindrical gages Linear machine
Outside & Inside Circumference Tapes			
Vernier = 25 in R = 0.001 in	Up to 235 in Up to 1200 in	1200 µin (260 + 0.34L) µin	Cylindrical gages Linear machine
Vernier = 10 mm R = 0.1 mm	Up to 6000 mm Up to 48 000 mm	(37 + 0.000 49*L*) µm (23 + 0.000 15*L*) µm	Cylindrical gages Linear machine

[1] This laboratory offers commercial calibration service and field 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] Field calibration service is available for this calibration. 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.

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

[5] In the statement of CMC, *L* is the numerical value of the nominal length of the device measured in inches or mm.

Accredited Laboratory

A2LA has accredited

PI TAPE TEXAS, LLC

Tyler, TX

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 26th day of February 2025.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 7417.01
Valid to March 31, 2027

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