



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

TOUCHSTONE MEASUREMENT SERVICE, LLC
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MECHANICAL

Valid To: November 30, 2023

Certificate Number: 1296.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following dimensional testing services⁵:

I. Dimensional Testing¹

Parameter/Equipment	Range	CMC ² (±)	Comments
Angle ⁴ – Metal or Plastic	(0 to 360)°	0.1°	CMM & vision measuring system (3D)
Radius ⁴ – Metal or Plastic	(0.5 to 13) mm (0.01 to 0.5) in	0.3 mm 0.012 in	Radius gages (1D)
Inner Diameter ⁴ – Metal or Plastic	(0.7 to 14) mm	0.02 mm	Pin gages (1D)

Parameter/Equipment	Range	CMC ^{2,3} (\pm)	Comments
Length ⁴ – Metal	Up to 36 in	$(300 + 5.7L) \mu\text{in}$	CMM (3D)
	Up to 16 in	$(280 + 7L) \mu\text{in}$	Vision measuring system (2D)
	Up to 8 in	$(500 + 25L) \mu\text{in}$	Calipers (2D)
	Up to 2 in	$(100 + 25L) \mu\text{in}$	Micrometers (1D)
	Up to 4 in	$(500 + 25L) \mu\text{in}$	Dial indicators (1D)
	Up to 10 in	$(620 + 14L) \mu\text{in}$	Optical comparator (2D)
	(0.7 to 14) mm	0.02 mm	Pin gages (1D)
Length ⁴ – Plastic	Up to 36 in	$(230 + 130L) \mu\text{in}$	CMM (3D)
	Up to 16 in	$(260 + 250L) \mu\text{in}$	Vision measuring system (2D)
	Up to 8 in	$(500 + 150L) \mu\text{in}$	Calipers (2D)
	Up to 2 in	$(100 + 150L) \mu\text{in}$	Micrometers (1D)
	Up to 4 in	$(500 + 150L) \mu\text{in}$	Dial indicators (1D)
	Up to 10 in	$(470 + 210L) \mu\text{in}$	Optical comparator (2D)
	(0.7 to 14) mm	0.02 mm	Pin gages (1D)

¹ This laboratory offers commercial dimensional testing services only.

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 measurements 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 measurement 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 measurement.

³ In the statement of CMC, L represents the numerical value of the nominal length of the device measured in inches.

⁴ This test is not equivalent to that of a calibration.

⁵ This scope meets A2LA's *P112 Flexible Scope Policy*.