SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

TOUCHSTONE MEASUREMENT SERVICE
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MECHANICAL

Valid To: November 30, 2011 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 services:

I. Dimensional Testing

Parameter	Range	CMC[1, 2] (±)	Comments
Angle – metal or plastic	0° to 360°	0.3°/*A*	CMM and video CMM
Radius – metal or plastic	(0.5 to 13) mm (0.01 to 0.5) in	0.3 mm 0.012 in	Radius gages
Length – Metal	Up to 6 in (6 to 18) in Up to 6 in (6 to 16) in Up to 8 in Up to 2 in Up to 4 in	0.0018 in 0.0018 in 0.0005 in 0.001 in (500 + 25*L*) µin (100 + 25*L*) µin (500 + 25*L*) µin	CMM Video CMM Calipers Micrometers Dial indicators

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Parameter	Range	CMC[1, 2] (±)	Comments
Length – Plastic	Up to 6 in (6 to 18) in	0.0024 in 0.005 in	CMM
	Up to 6 in (6 to 16) in	0.003 in 0.008 in	Video CMM
	Up to 8 in	(500 + 150*L*) µin	Calipers
	Up to 2 in	(100 + 150*L*) µin	Micrometers
	Up to 4 in	(500 + 150*L*) µin	Dial indicators

[1] Calibration and Measurement Capability (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. Calibration and Measurement Capabilities 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.

[2] In the statement of CMC, L is the numerical value of the nominal length of the device measured in inches.