



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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CALIBRATION & DIMENSIONAL MEASUREMENT

Valid to: September 19, 2019

Certificate Number: L2164

Length – Artifacts and Standards 1D

Calibration Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-) ¹	Reference Standard, Method, and/or Equipment
Outside Diameter	Up to 4 in	(9.3 + 31.5L) μin	(KM 045) ULM
Inside Diameter	Up to 4 in	(4.7 + 32.7L) μin	
Length	Up to 4 in	(9.3 + 31.5L) μin	
Depth / Height	Up to 12 in	(150 + 12.9L) μin	(KM 202) Electronic Height Gage

Length – Artifacts and Standards 2D

Calibration Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-) ¹	Reference Standard, Method, and/or Equipment
Hexalobe Profile	(0 to 0.5) in	(120 + 32.9L) μin	(KM 110) Multi Sensor Measurement System (Vision)
Roundness Up to 10 in Diameter	(0 to 0.02) in	42 μin	(KM 105) Precision Form Measurement System



Length – Artifacts and Standards 3D

Calibration Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-) ¹	Reference Standard, Method, and/or Equipment
Fixture Gage 3D Volumetric	X axis (0 to 27) in Y axis (0 to 42) in Z axis (0 to 23) in	(190 + 15.6L) μin	(KM 003) Coordinate Measuring Machine - Spectrum
Fixture Gage 3D Volumetric	X axis (0 to 19.5) in Y axis (0 to 19.5) in Z axis (0 to 19.5) in	(28 + 18.2L) μin	(KM 200) Coordinate Measuring Machine - Micura

Length - Dimensional Measurement 1D

Inspection Parameter	Range	Expanded Uncertainty of Measurement (+/-) ¹	Remarks
1D Dimensional Measurement	(0 to 200) μin	14 μin	(KM 113) Electronic Test Indicator w/ Amplifier
	200 μin to 4 in	78 μin	
	Up to 4 in	(9.3 + 31.5L) μin	(KM 045) ULM
	Up to 12 in	(150 + 12.9L) μin	(KM 202) Electronic Height Gage
	Up to 2 in	(150 + 12.4L) μin	(KM 110) Multi Sensor Measurement System (Laser)

Length - Dimensional Measurement 2D

Inspection Parameter	Range	Expanded Uncertainty of Measurement (+/-) ¹	Remarks
2D Dimensional Roundness	(0 to 0.02) in	42 μin	(KM 105) Precision Form Measurement System
2D Dimensional Measurement	X axis (0 to 14) in Y axis (0 to 12) in	(120 + 32.9L) μin	(KM 110) Multi Sensor Measurement System (Vision)



Length - Dimensional Measurement 3D

Inspection Parameter	Range	Expanded Uncertainty of Measurement (+/-) ¹	Remarks
3D Dimensional Measurement	X axis (0 to 14) in Y axis (0 to 12) in Z axis (0 to 7) in	(220 + 29.6L) μ in	(KM 110) Multi Sensor Measurement System (Probe)
	X axis (0 to 27) in Y axis (0 to 42) in Z axis (0 to 23) in	(190 + 15.6L) μ in	(KM 003) Coordinate Measuring Machine - Spectrum
3D Dimensional Measurement	X axis (0 to 19.5) in Y axis (0 to 19.5) in Z axis (0 to 19.5) in	(28 + 18.2L) μ in	(KM 200) Coordinate Measuring Machine - Micura

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 ($k=2$), corresponding to a confidence level of approximately 95%.

Notes:

- 1. L = Length in inches.
- 2. This scope is formatted as part of a single document including Certificate of Accreditation No. L2164

Vice President

