

Scope of Accreditation For Kent Machine, Inc.

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In recognition of a successful assessment to ISO/IEC 17025:2005 to the following Calibration and Measurement Capabilities, accreditation has been granted to **Kent Machine, Inc.** for the following:

Accreditation Granted Through: **September 14, 2019**

Calibration

Length – Artifacts and Standards 1D

Calibration Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-) ¹	Remarks
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	Remarks
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	Remarks
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

Dimensional Measurement

Length - Dimensional Measurement 1D

Inspection Parameter	Range	Expanded Uncertainty of Measurement (+/-) ¹	Remarks
1D Dimensional Measurement	(0 to 200) μ in	14 μ in	(KM 113) Electronic Test Indicator w/ Amplifier
	200 μ in to 4 in	78 μ in	
	Up to 4 in	(9.3 + 31.5L) μ in	(KM 045) ULM
	Up to 12 in	(150 + 12.9L) μ in	(KM 202) Electronic Height Gage
	Up to 2 in	(150 + 12.4L) μ in	(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 μ in	(KM 105) Precision Form Measurement System
2D Dimensional Measurement	X axis (0 to 14) in Y axis (0 to 12) in	(120 + 32.9L) μ in	(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 remarks. 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

Approved by: 
 R. Douglas Leonard
 Chief Technical Officer

Date: September 14, 2016

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