

## Scope of Accreditation For Kent Machine Inc.

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In recognition of a successful assessment to ISO/IEC 17025:2005 and ANSI Z540-1, accreditation is granted to **Kent Machine, Inc.** to perform **Calibrations / Dimensional Inspection** as shown in the following tables:

Accreditation Granted Through: **July 27, 2010**

### Calibration

Calibration Parameter/Equipment	Range	Best Measurement Capability (+/-) <sup>2</sup>	Remarks
Plain Plug Gage Major Diameter	(0.01 to 4) in	(9 + 32L) μin	ULM
Plain Ring Gage Minor Diameter	(0.02 to 3.99) in	(12 + 31.3L) μin	ULM
Straight Flush Pin Gage Linear Step Dimension Diametric Dimension	(0.01 to 0.05) in (0.01 to 4) in	(200 + 15.7L) μin (200 + 15.7L) μin	Coordinate Measuring Machine used as Reference Standard
Hexalobe Profile	(0.01 to 0.5) in	(120 + 15L) μin	Multi Sensor Measurement System (Vision 2D)
Fixture Gage 3D Volumetric	(1 to 42) in	(200 + 15.7L) μin	Polar measurement between two points inside of work envelope

## Dimensional Inspection

Dimensional Inspection Parameter/Equipment	Range	Best Measurement Capability (+/-) <sup>2</sup>	Remarks
1D Dimensional Measurement	(10 to 200) $\mu$ in	7 $\mu$ in	Electronic Test Indicator with Amplifier used for Dimensional Inspection
	(0.0001 to 4) in	77 $\mu$ in	Electronic Test Indicator with Amplifier used for Comparison Dimensional Inspection
	(0.01 to 4) in	(9 + 32L) $\mu$ in	Universal Length Measuring Machine used as Reference Standard for Dimensional Inspection
	(0.05 to 12) in	(140 + 12.9L) $\mu$ in	Electronic Height Gage used as Reference Standard for Dimensional Inspection
	(0.01 to 2) in	(160 + 14.4L) $\mu$ in	Multi Sensor Measurement System (Laser)
	(0.05 to 10) in diameter	9.4 min	Precision Form Measurement System
2D Dimensional Measurement	(0.03 to 16.59) in	(120 + 15L) $\mu$ in	Multi Sensor Measurement System (Vision)
3D Dimensional Measurement	(0.42 + 18.1) in	(220 + 13L) $\mu$ in	Multi Sensor Measurement System (Probe)
	(1 to 42) in	(200 + 15.7L) $\mu$ in	Coordinate Measuring Machine used as Reference Standard for Dimensional Inspection

**Notes:**

- 1) This laboratory offers commercial services
- 2) Best uncertainties represent expanded uncertainties at approximately the 95% confidence level using a coverage factor of k=2.
- 3) *L* = Length in Inches

Approved by: \_\_\_\_\_

  
 R. Douglas Leonard Jr.  
 Chief Technical Officer

 Date: September 14, 2009

Revised: 8/26/08

Revised: 7/17/09

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