



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005
& ANSI/NCSL Z540-1-1994**

Triology Inc.

22841 Dequindre Rd, Hazel Park, MI 48030
Kern Smith Phone: 248-650-9933

CALIBRATION & TESTING

Valid to: June 29, 2013

Certificate Number: ACT-1278

I. Dimensional

PARAMETER / EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
CMM Linear Displacement	Up to 15 m	$(0.3 + 2.25L) \mu\text{m}$	Renishaw ML10X Laser and EC10 Environmental Compensation Unit	B89.4.1.1997 Sec 5.4.3 Using Laser Interferometer
	(25 to 1 250) mm	$(0.25 + 2.5L) \mu\text{m}$	Standard Reference Bar	ISO 10360-2 MPEE
CMM Volumetric Performance	Up to 1.5 m	$(1.1 + 6.9L) \mu\text{m}$	Bal-Tec Ball Bar Kit	B89.4.1.1997 Sec 5.5.2 Using Ball Bar
CMM Repeatability	25 mm	0.22 μm	Master Sphere	B89.4.1.1997 Sec 5.3.3 Using Calibrated Master Sphere
CMM Probing	(25 to 30) mm	0.22 μm	Master Sphere	ISO 10360-2 MPEP

II. Dimensional Inspection

PARAMETER / EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
Dimensional Measurement	X = Up to 900 mm Y = Up to 600 mm Z = Up to 800 mm	$(6 + 28.5L) \mu\text{m}$	CMM	Customer Drawing CAPPS Software



Notes:

1. *Calibration and Measurement Capabilities (Expanded Uncertainties) are based on approximately a 95% confidence interval, using a coverage of $k=2$.*
2. *The use of (L) signifies length in meters.*
3. *This laboratory offers field (on-site) services for all calibration parameters. Since field conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected in the field than what is reported on the accredited scope.*
4. *This scope is part of and must be included with the Certificate of Accreditation No. ACT-1278.*



Vice-President

