

# CERTIFICATE OF ACCREDITATION

## ACCLASS Accreditation Services

An ANSI-ASQ National Accreditation Board Company

2009 N. 14th Street, Suite 502, Arlington, VA 22201, 877.344.3044

This is to certify that

### Canadian Measurement-Metrology, Inc.

2433 Meadowvale Boulevard  
Mississauga, Ontario L5N 5S2, Canada

has been assessed by ACLASS®  
and meets the requirements of international standard

### ISO/IEC 17025:2005

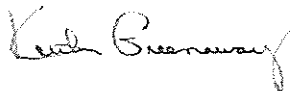
while demonstrating technical competence in the field(s) of

### CALIBRATION & TESTING

Refer to the accompanying Scope(s) of Accreditation for  
information regarding the types of calibrations and/or  
tests/types to which this accreditation applies.

ACT-1284

CERTIFICATE NUMBER



ACCLASS APPROVAL

Certificate Valid: 07/17/2007-07/17/2009





**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

**Canadian Measurement-Metrology Inc.**  
 2433 Meadowvale Blvd., Mississauga, Ontario, L5N 5S2 Canada  
 Margot Wax Phone: 905-819-7878

**CALIBRATION & TESTING**

Valid to: July 17, 2009

Certificate Number: ACT-1284

**I. Dimensional Calibration**

<b>PARAMETER / EQUIPMENT</b>	<b>RANGE</b>	<b>BEST MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(+)]</b>	<b>REFERENCE STANDARD OR EQUIPMENT</b>	<b>METHOD(S)</b>
CMM Linear Accuracy <sup>2</sup>	(25 to 2 250) mm	(0.89 + 1.61L) μm	Starrett-Weber or MTI Step Bar	ASME B89.4.1 CMM procedures
CMM Linear Accuracy <sup>2</sup>	(25 to 6 000) mm	(0.90 + 1.83L) μm	Renishaw Laser Interferometer	ASME B89.4.1 CMM procedures
CMM Volumetric Accuracy <sup>2</sup>	(150 to 1 000) mm	(0.57 + 1.64L) μm	Ball Bar and Precision Sphere	ASME B89.4.1 CMM procedures
Optical Projectors / Comparators	(0 to 200) mm	(2.95 + 2.18L) μm	Glass Scale, Reticle	Manufacturers specifications CMM procedures
Video Measurement Systems	(0 to 813) mm	(1.43 + 1.8L) μm	Glass Scale, Reticle and Step Gage	Manufacturers specifications CMM procedures
Calibration of Reference Artifact for Articulated Arm CMM	Up to 1 020 mm	(3.72 + 3.9L) μm	Calibrated CMM and Master Artifact	CMM Internal Procedures
Articulated Arm (PCMM) Single Point Articulation Test	Up to 15 mm	11.2 μm (Radial Dev.)	Trihedral Seat	ASME B89.4.22 OEM Specifications CMM Procedures
Articulated Arm (PCMM) Volumetric Performance	Up to 1 020 mm	(19.2 + 5.0) μm	Certification Bar	ASME B89.4.22 OEM Specifications CMM Procedures



## II. Dimensional Inspection / Measurement

PARAMETER / EQUIPMENT	RANGE	BEST MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(+)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
Dimensional Measurement	X = (0 to 2 000) mm Y = (0 to 3 300) mm Z = (0 to 1 500) mm	$(8.0 + 8.7L) \mu\text{m}$	CMM	PC DMIS software Accepted practices Customer requirements
Dimensional Measurement	X = (0 to 1 200) mm Y = (0 to 2 000) mm Z = (0 to 1 000) mm	$(3.0 + 5.3L) \mu\text{m}$	CMM	PC DMIS software Accepted practices Customer requirements
Dimensional Measurement	X = (0 to 1 000) mm Y = (0 to 1 500) mm Z = (0 to 750) mm	$(3.0 + 5.3L) \mu\text{m}$	CMM	PC DMIS software Accepted practices Customer requirements
Dimensional Measurement	X = 0 to 2000 mm Y = 0 to 5100 mm Z = 0 to 1 000 mm	$(7.0 + 9.6L) \mu\text{m}$	CMM	PC DMIS software Accepted practices Customer requirements
Dimensional measurement <sup>3&amp;4</sup>	Measuring Envelopes (1.2 to 3.6) m	$(33.5 + 2.1L) \mu\text{m}$	Articulated Arm Portable CMM	PC DMIS software Accepted practices Customer requirements
Dimensional measurement <sup>3&amp;4</sup>	Absolute Distance Measurement (ADM) Range (1 to 40) m	$(26.2 + 2.1L) \mu\text{m}$	LTD800 Leica Laser Tracker using Corner Cube Reflector	PC DMIS software Accepted practices Customer requirements
Dimensional measurement <sup>3&amp;4</sup>	Measurement of 2 500 mm Spatial Length from Distance (3 to 10) m	$(60.0 + 2.1L) \mu\text{m}$	LTD800 Leica Laser Tracker using Leica T-Probe	PC DMIS software Accepted practices Customer requirements
Dimensional measurement <sup>3&amp;4</sup>	Measurement of 2 500 mm Spatial Length from Distance (3 to 10) m	$(52.6 + 2.1L) \mu\text{m}$	LTD800 Leica Laser Tracker using Corner Cube Reflector	PC DMIS software Accepted practices Customer requirements

**Notes:**

1. Best Measurement Uncertainties (Expanded Uncertainties) are based on approximately a 95 % confidence interval, using a coverage of  $k=2$
2. The laboratory offers on-site calibration for this equipment
3. The laboratory offers on-site dimensional measurement inspection for this equipment
4. L = length in meters D = diagonal in inches
5. This scope is part of and must be included with the Certificate of Accreditation No. ACT-1284

*Karl Brunway*

Vice President

