Government of Canada / Gouvernement du Canada

Canada

National Research Council Canada

CLAS Certificate Number 2015-02

Select Calibration Incorporated

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Clients served

- All interested parties.
- On-site calibration services only.

Fields of calibration

Dimensional

SCC accreditation (ISO/IEC 17025)

- Accredited Laboratory no. 811
- First issued 2015-08-06

This scope of calibration capabilities is published by the CLAS program of the National Research Council of Canada (NRC) in close co-operation with the PALCAN program of the Standards Council of Canada (SCC), Canada's accreditation body for calibration and testing laboratories. The SCC accredits the capability of the named laboratory to perform the listed calibrations at the given Best Measurement Capability (see Supplementary **note C** and **note D**) with traceability to the International System of Units (SI) or to standards acceptable to the CLAS program.

Measured Quantity & Range or Instrument	Calibration Measurement Capability (CMC) expressed as an Uncertainty (±) (See supplementary notes)	Type	Remarks
Coordinate Measuring Machines (CMM)			
Acceptance and reverification tests for CMM – CMMs used for measuring size.			**On-site services as per ASME B89.4.10360-2, ISO 10360-2 and SCI-011. See note 1**
Gauge, length:			
10 to 1010 mm	(0.0011 + 0.00028L + 0.00068L^2) mm where L is the length in m	III	See note 2
Laser and Gauge Block, length:			
10 to 5000 mm	(0.0004 + 0.0014L + 0.00003L^2) mm where L is the length in m	III	See note 3

Measured Quantity & Range or Instrument	Calibration Measurement Capability (CMC) expressed as an Uncertainty (±) (See supplementary notes)	Type	Remarks
Coordinate Measuring Machines (CMM)			
Acceptance and reverification tests for CMM – CMMs used for measuring size.			**On-site services as per ASME B89.4.10360-2, ISO 10360-2 and SCI-011. See note 1**
Sphere, repeatability Rpt:			
Up to 30 mm	0.0007 mm	III	N/A
Gauge, repeatability R0:			
10 to 1010 mm	0.0004 mm	III	N/A
Laser and Gauge Block, repeatability R0:			
10 to 5000 mm	0.0004 mm	III	N/A

1 The conformance to specification of the CMM is made in accordance with ISO 14253-1 taking into account all test measurement uncertainties.

2 This CMC is obtained using a material standard of size of normal coefficient of thermal expansion, being at least 66% of the longest spatial diagonal of the measuring volume of the CMM at a temperature of 20.0°C.

3 This CMC is obtained using a laser interferometer measuring technique at a temperature of 20.0°C.

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