SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

J AND K MEASURING SERVICES INC.
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DIMENSIONAL TESTING/CALIBRATION

Valid To: April 30, 2019 Certificate Number: 4928.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following dimensional testing:

I. Dimensional Testing/Calibration[1]

Parameter/Equipment	Range	CMC[2, 4] (±)	Comments
Length (3D)[3] –			
Coordinate Measurement	X Axis: Up to 900 mm Y Axis: Up to 1400 mm Z Axis: Up to 900 mm	$(12 + 0.008L) \times 10^{-3}$ mm	CMM
Manufactured Metal Pieces		$(16.5 + 0.025L) \times 10^{-3}$ mm	
Jigs and Fixtures[3]		$(9 + 0.032L) \times 10^{-3}$ mm	
Length (2D)[3] –			
Coordinate Measurement	Any two of the above axes	$(6.7 + 0.006L) \times 10^{-3}$ mm	CMM
Length (1D)[3] –			
Coordinate Measurement	Any one of the above axes	$(5 + 0.004L) \times 10^{-3}$ mm	CMM

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Parameter/Equipment	Range	CMC[2, 4] (±)	Comments
Length (3D)[3] –			
Coordinate Measurement	X Axis: Up to 35.4 in Y Axis: Up to 55.1 in Z Axis: Up to 25.4 in	$(4.72 + 0.08D) \times 10^{-4}$ in	CMM
Manufactured Metal Pieces		$(0.650 + 0.25D) \times 10^{-3}$ in	
Jigs and Fixtures[3]		$(0.354 + 0.32D) \times 10^{-3}$ in	
Length (2D)[3] –			
Coordinate Measurement	Any two of the above axes	$(2.63 + 0.06D) \times 10^{-4}$ in	CMM
Length (1D)[3] –			
Coordinate Measurement	Any one of the above axes	$(1.97 + 0.04D) \times 10^{-4}$ in	CMM

[1] This laboratory offers commercial dimensional testing service only.

[2] Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine measurements of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific measurement performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific measurement.

[3] This laboratory meets R205 – *Specific Requirements: Calibration Laboratory Accreditation Program* for the types of dimensional tests listed above and is considered equivalent to that of a calibration.

[4] In the statement of CMC, L is the numerical value of the nominal length in millimeters and D is the numerical value of the nominal length in inches.

Accredited Laboratory

A2LA has accredited

J and K Measuring Services, Inc.

Richmond Hill, Canada

for technical competence in the field of

Dimensional Testing/Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets R205 – Specific Requirements: Calibration Laboratory Accreditation Program. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 15th day of March 2018.

President and CEO
For the Accreditation Council
Certificate Number 4928.01
Valid to April 30, 2019
Revised March 19, 2018

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.