SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

MP COMPONENTS INC.
8499 Centre Industrial Drive
Byron Center, MI 49315
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MECHANICAL

Valid To: October 31, 2024 Certificate Number: 2247.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following dimensional testing/calibrations[1, 5]:

I. Dimensional Testing/Calibration[1]

Parameter/Equipment	Range	CMC[2, 4, 6] (±)	Comments
3D Measurements[3] –			
Steel	Up to (40 × 60 × 35) in	(390 + 46*L*) µin	Bridge CMM (Scirocco 022)
Aluminum		(400 + 57*L*) µin	
Non-Metal		(410 + 120*L*) µin	
Steel	Up to (78 × 130 × 60) in	(790 + 39*L*) µin	Gantry CMM (Alpha 042)
Aluminum		(790 + 50*L*) µin	
Non-Metal		(790 + 110*L*) µin	
Steel	Up to (40 × 60 × 35) in	(420 + 45*L*) µin	Bridge CMM (Xcel 1294-608)
Aluminum		(420 + 57*L*) µin	
Non-Metal		(440 + 120*L*) µin	
Length[3] – Outside Diameter	Up to 3 in	0.0001 in	Micrometers

[1] This laboratory offers commercial dimensional testing/calibration service.

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[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 calibrations 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 calibration performed by the laboratory may be greater than the CMC uncertainty due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

[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* represents the numerical value of the nominal length of the device measured in inches.

[5] This scope meets A2LA's *P112 Flexible Scope Policy*.

[6] The type of instrument or material being calibrated is defined by the parameter. This indicates the laboratory is capable of calibrating instruments that measure or generate the values in the ranges indicated for the listed measurement parameter.

Accredited Laboratory

A2LA has accredited

MP COMPONENTS INC.

Byron Center, MI

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of 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 17th day of August 2022.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2247.01
Valid to October 31, 2024

For the types of tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.