



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

PJF⁶
301 Rockford Park Drive
Rockford, MI 49341
Bernard Warchuck Phone: 616 866 8296

MECHANICAL

Valid To: *SEE FOOTNOTE 6*

Certificate Number: 1856.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests at the location listed above as well as the one satellite laboratory location listed below:

I. Dimensional Testing/Calibration¹

Parameter/Equipment	Range	Comments	Location
Part Measurement ⁵ –			
3D Volumetric	(44 x 76 x 36) in	Mitutoyo Bright 1220 CMM	ROC
	(59 x 118 x 47) in	Zeiss DB1200 CMM	ROC
1D Linear	Up to 2 in (2 to 4) in	Micrometer	ROC, CED

Parameter/Equipment	Range	CMC ^{2, 4} (\pm)	Comments	Location
Part Measurement ⁵ – 3D Volumetric	(120 x 48 x 64) in	$[1200 + (43 + M)L] \mu\text{in}$	(5) Mitutoyo CHN 1612 CMM	DUN, CED
	(80 x 40 x 40) in	$[1200 + (43 + M)L] \mu\text{in}$	Sheffield 12.20.10 CMM	DUN
	(28 x 28 x 29) in	$[1200 + (43 + M)L] \mu\text{in}$	Brown and Sharpe Mistral CMM	DUN
	1D Linear	Up to 2 in Up to 6 in	220 μin 300 μin	Micrometer Caliper
Inspection Fixtures and Fixture Gages ³ – 3D Volumetric	(44 x 76 x 36) in	$[510 + (8 + M)L] \mu\text{in}$	Mitutoyo Bright 1220 CMM	ROC
	(59 x 118 x 47) in	$[560 + (4 + M)L] \mu\text{in}$	Zeiss DB1200 CMM	ROC
	(120 x 48 x 64) in	$[1200 + (43 + M)L] \mu\text{in}$	(5) Mitutoyo CHN1612 CMM	CED, DUN
	(80 x 40 x 40) in	$[1200 + (43 + M)L] \mu\text{in}$	Sheffield 12.20.10 CMM	DUN
	(28 x 28 x 29) in	$[1200 + (43 + M)L] \mu\text{in}$	Brown and Sharpe Mistral CMM	DUN
	1D Linear	Up to 2 in (2 to 4) in	220 μin 340 μin	Micrometer

¹ This laboratory offers commercial dimensional testing/calibration service.

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 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 calibrations listed above. Accredited test reports issued containing appropriate statements of measurement results, measurement uncertainty, and traceability are considered equivalent to a “calibration” certificate.

⁴ In the statement of CMC, L = length in inches, $M = 3$ (Steel), $M = 6$ (Aluminum), and $M = 12.5$ (Poly-board).

⁵ This test is not equivalent to that of a calibration.

⁶ The locations of the laboratories that can perform the calibration are given by a three-letter code with valid to dates given in the table below:

Location	Code	Valid to Dates
301 Rockford Park Drive, Rockford, MI 49341	ROC	November 30, 2018
4030 Cedar Commercial Drive, Cedar Springs, MI 49319	CED	November 30, 2018
915 Berry Shoals Road, Duncan, SC 29334	DUN	November 30, 2018



Accredited Laboratory

A2LA has accredited

PJF

Rockford, MI

with satellite locations in Cedar Springs, MI

for technical competence in the field of

Mechanical Testing

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 any additional program requirements in the field of calibration. 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 8 January 2009).



Presented this 17th day of May 2016.

A handwritten signature in black ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 1856.01
Valid to November 30, 2018
Revised November 15, 2017

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



Accredited Laboratory

A2LA has accredited

PJF METROLOGY SOUTH

Duncan, SC

for technical competence in the field of

Mechanical Testing

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 8 January 2009).



Presented this 24th day of April 2017.

A handwritten signature in black ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 1856.02
Valid to November 30, 2018
Revised November 15, 2017

For the tests or types of tests to which this accreditation applies, please refer to the laboratory's «field» Scope of Accreditation.