



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 listed below¹:

I. Dimensional Testing

| Parameter/Equipment | Range | CMC ^{2, 4} (\pm) | Comments | Location |
|--|---------------------------|---|--------------------|---------------------------|
| Part Measurement ⁵ – 3D Volumetric | (120 x 48 x 64) in | $[1200 + (43 + M)L] \mu\text{in}$ | CMM | ROC, CED, DUN |
| 1D Linear | Up to 2 in (2 to 4) in | 220 μin 340 μin | Micrometer | ROC, CED, DUN ROC, CED |
| Part Measurement ⁵ – 1D Linear | Up to 6 in Up to 12 in | 400 μin 1000 μin | Caliper Caliper | CED, DUN CED |

II. Dimensional Testing/Calibration¹

| Parameter/Equipment | Range | CMC ^{2,4} (±) | Comments | Location |
|--|--|---|---------------------------|--------------------------------------|
| Inspection Fixtures and Fixture Gages ³ – | | | | |
| 3D Volumetric | (120 x 48 x 64) in | [1200 + (43 + M)L] μin | CMM | ROC, CED, DUN |
| 1D Linear | Up to 2 in (2 to 4) in Up to 6 in Up to 12 in | 220 μin 340 μin 400 μin 1000 μin | Micrometer Caliper | ROC, CED, DUN CED, DUN CED |

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, 2020 |
| 4030 Cedar Commercial Drive, Cedar Springs, MI 49319 | CED | November 30, 2020 |
| 915 Berry Shoals Road, Duncan, SC 29334 | DUN | November 30, 2020 |



Accredited Laboratory

A2LA has accredited

PJF

Rockford, 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 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 23rd day of May 2018.

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, 2020
Revised July 5, 2018

For the tests 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 April 2017).



Presented this 8th day of May 2018.

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, 2020
Revised July 5, 2018

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