PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Organization of:

Made to Measure, LLC

302 East Main Street, East Dundee, IL 60118

and hereby declares that the Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2017

Whereby, technical competence has been confirmed for the associated scope supplement, in the fields of:

Dimensional, Mass, Force, and Weighing Devices and Mechanical Calibration

(As detailed in the supplement)

Accreditation claims for conformity assessment activities shall only be made from the addresses referenced within this certificate and shall apply solely to those activities identified in the related scope. This Accreditation is granted subject to the Accreditation Body rules governing the Accreditation referred to above, and the Organization hereby commits to observing and complying with those rules in their entirety.

For PJLA:

Tracy Szerszen
President

Perry Johnson Laboratory Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

Initial Accreditation Date:	*Issue Date:*	*Expiration Date:*
July 31, 2014	September 26, 2025	Novemebr 30, 2027

Accreditation No.:	*Certificate No.:*
59334	L25-722

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjlabs.com

Certificate of Accreditation: Supplement

Made to Measure, LLC

302 East Main Street, East Dundee, IL 60118
Contact Name: Jacek Macias Phone: 847-851-1160

Accreditation is granted to the facility to perform the following conformity assessment activities:

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) [1]	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Dimensional	Radius Gages (Leaf)	0.005 in to 1 in	380 µin	Optical vision measuring machine (VMM)	M2M 6e22	F1, F3	F
Dimensional	Radius Gages (Leaf)	0.125 mm to 25.4 mm	9.7 µm	Optical vision measuring machine (VMM)	M2M 6e22	F1, F3	F
Dimensional	Angle Gages (Leaf) (@ 2.5 arc min)	Up to 90°	0.04°	Optical vision measuring machine (VMM)	M2M 6e22	F1, F3	F
Dimensional	Thread Pitch Gages (Leaf)	2 TPI to 120 TPI	310 µin	Optical vision measuring machine (VMM)	M2M 6e22	F1, F3	F
Dimensional	Thread Pitch Gages (Leaf) (Pitch)	0.2 mm to 10.0 mm	7.9 µm	Optical vision measuring machine (VMM)	M2M 6e22	F1, F3	F
Dimensional	Protractors (Mechanical) (@ 4.0 arc min)	Up to 90°	0.066°	Optical vision measuring machine (VMM), Master Gage Blocks, Sine Bar	M2M 6e31 M2M 6e28	F1, F3	F
Dimensional	Protractors (Digital) (@ 0.4 arc min)	Up to 90°	0.006°	Optical vision measuring machine (VMM), Master Gage Blocks, Sine Bar	M2M 6e31 M2M 6e28	F1, F3	F
Dimensional	Feeler Gages	0.001 in to 0.25 in	16 µin	1D Measuring Machine	M2M 6e34	F1, F3	F, O
Dimensional	Feeler Gages	0.025 mm to 6.3 mm	0.4 µm	1D Measuring Machine	M2M 6e34	F1, F3	F, O
Dimensional	Tri Point Bore Gages/ Holtest	0.125 in to 4.0 in	(40 + 4D) µin	Master Ring Gages	M2M 6e23	F1, F3	F, O
Dimensional	Tri Point Bore Gages/ Holtest	3.0 mm to 101.6 mm	(1+ 4D) µm	Master Ring Gages	M2M 6e23	F1, F3	F, O
Dimensional	Pin & Plug Gages	0.005 in to 4.0 in	(7.8 + 3.8D) µin	1D Measuring Machine, Master Gage Blocks	M2M 6e18	F1, F3	F
Dimensional	Pin & Plug Gages	0.125 mm to 101.6 mm	(0.2 + 3.8D) µm	1D Measuring Machine, Master Gage Blocks	M2M 6e18	F1, F3	F

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Dimensional	Pin & Plug Gages	0.005 in to 1 in	28 µin	Laser Scan Micrometer, Master Pins	M2M 6e17	F1, F3	F
Dimensional	Pin & Plug Gages	0.125 mm to 25.4 mm	0.71 µm	Laser Scan Micrometer, Master Pins	M2M 6e17	F1, F3	F
Dimensional	Laser Scan Micrometer	0.005 in to 1.0 in	(13 + 1.05D) µin	Master Pins	M2M 6e39	F1, F3	F
Dimensional	Laser Scan Micrometer	0.125 mm to 25.4 mm	(0.33 + 1.05D) µm	Master Pins	M2M 6e39	F1, F3	F
Dimensional	Cylindrical Ring Gages	0.06 in to 0.5 in	12 µin	1D Measuring Machine Master Ring Gages, Master Gage Blocks	M2M 6e19	F1, F3	F
Dimensional	Cylindrical Ring Gages	1.5 mm to 12.7 mm	0.3 µm	1D Measuring Machine Master Ring Gages, Master Gage Blocks	M2M 6e19	F1, F3	F
Dimensional	Cylindrical Ring Gages	0.5 in to 4.0 in	(10.1 + 3.5D) µin	1D Measuring Machine Master Ring Gages, Master Gage Blocks	M2M 6e19	F1, F3	F
Dimensional	Cylindrical Ring Gages	12.7 mm to 101.6 mm	(0.26 + 3.5D) µm	1D Measuring Machine Master Ring Gages, Master Gage Blocks	M2M 6e19	F1, F3	F
Dimensional	Cylindrical Ring Gages	4.0 in to 8 in	(10 + 3.75D) µin	1D Measuring Machine Master Ring Gages, Master Gage Blocks	M2M 6e19	F1, F3	F
Dimensional	Cylindrical Ring Gages	101.6 mm to 203.6 mm	(0.25 + 3.75D) µm	1D Measuring Machine Master Ring Gages, Master Gage Blocks	M2M 6e19	F1, F3	F
Dimensional	Cylindrical Ring Gages	8.0 in to 12 in	(8 + 4D) µin	1D Measuring Machine Master Ring Gages, Master Gage Blocks	M2M 6e19	F1, F3	F

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Dimensional	Cylindrical Ring Gages	203.6 mm to 305 mm	(0.2 + 4D) µm	1D Measuring Machine Master Ring Gages, Master Gage Blocks	M2M 6e19	F1, F3	F
Dimensional	Balls & Spheres	0.005 in to 4.0 in	(8.5 + 3.7D) µin	1D Measuring Machine, Master Gage Blocks	M2M 6e20	F1, F3	F
Dimensional	Balls & Spheres	0.125 mm to 101.6 mm	(0.22 + 3.7D) µm	1D Measuring Machine, Master Gage Blocks	M2M 6e20	F1, F3	F
Dimensional	Thread Plug Gages (Major Diameter)	0-80 in to 4-10 in	(9.2 +3.45D) µin	1D Measuring Machine, Thread Wires	M2M 6e35	F1, F3	F
Dimensional	Thread Plug Gages (Pitch Diameter)	M 1.6 mm to M 100 mm	(0.66 + 2.55) µm	1D Measuring Machine, Thread Wires	M2M 6e35	F1, F3	F
Dimensional	Adjustable Thread Ring Gages	0-80 in to 4-10 in	(30 + 5.4D) µin	Master Setting Thread Plugs	M2M 6e32	F1, F3	F, O
Dimensional	Adjustable Thread Ring Gages	M 1.6 mm to M 100 mm	(0.76 + 5.4D) µm	Master Setting Thread Plugs	M2M 6e32	F1, F3	F, O
Dimensional	Thread Measuring Wires	2 TPI to 120 TPI	11 µin	1D Measuring Machine	M2M 6e24	F1, F3	F
Dimensional	Thread Measuring Wires (Pitch)	0.2 mm to 10.0 mm	0.28 µm	1D Measuring Machine	M2M 6e24	F1, F3	F
Dimensional	Surface Roughness Specimens (Ra)	1 µin to 40 µin	2.1 µin	Master Surface Tester	M2M 6e26	F1, F3	F
Dimensional	Surface Roughness Specimens (Ra)	40 µin to 125 µin	3.1 µin	Master Surface Tester	M2M 6e26	F1, F3	F
Dimensional	Surface Roughness Specimens (Ra)	125 µin to 500 µin	13 µin	Master Surface Tester	M2M 6e26	F1, F3	F
Dimensional	Surface Roughness Specimens (Ra)	0.025 µm to 1 µm	0.053 µm	Master Surface Tester	M2M 6e26	F1, F3	F
Dimensional	Surface Roughness Specimens (Ra)	1 µm to 3.18 µm	0.078 µm	Master Surface Tester	M2M 6e26	F1, F3	F
Dimensional	Surface Roughness Specimens (Ra)	3.18 µm to 12.7 µm	0.33 µm	Master Surface Tester	M2M 6e26	F1, F3	F

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Dimensional	Surface Finish Measuring Instruments (Ra)	1 µin to 40 µin	2.1 µin	Master Surface Specimen	M2M 6e27	F1, F3	F
Dimensional	Surface Finish Measuring Instruments (Ra)	40 µin to 125 µin	4.6 µin	Master Surface Specimen	M2M 6e27	F1, F3	F
Dimensional	Surface Finish Measuring Instruments (Ra)	0.025 µm to 1 µm	0.053 µm	Master Surface Specimen	M2M 6e27	F1, F3	F
Dimensional	Surface Finish Measuring Instruments (Ra)	1 µm to 3.18 µm	0.12 µm	Master Surface Specimen	M2M 6e27	F1, F3	F
Dimensional	Optical Flat/ Optical Parallel/ Anvils/ Flat Surfaces (Flatness)	Up to 3 in	2.5 µin	Master Optical Flat, 1D Measuring Machine	M2M 6e25	F1, F3	F
Dimensional	Optical Flat/ Optical Parallel/ Anvils/ Flat Surfaces (Flatness)	Up to 76.2 mm	0.6 µm	Master Optical Flat, 1D Measuring Machine	M2M 6e25	F1, F3	F
Dimensional	Optical Flat/ Optical Parallel/ Anvils/ Flat Surfaces (Thickness)	Up to 1 in	7.2 µin	Master Optical Flat, 1D Measuring Machine	M2M 6e25	F1, F3	F
Dimensional	Optical Flat/ Optical Parallel/ Anvils/ Flat Surfaces (Thickness)	Up to 25.4 mm	0.18 µm	Master Optical Flat, 1D Measuring Machine	M2M 6e25	F1, F3	F
Dimensional	Optical Flat/ Optical Parallel/ Anvils/ Flat Surfaces (Parallelism)	Up to 1 in	6.2 µin	Master Optical Flat, 1D Measuring Machine	M2M 6e25	F1, F3	F
Dimensional	Optical Flat/ Optical Parallel/ Anvils/ Flat Surfaces (Parallelism)	Up to 25.4 mm	0.16 µm	Master Optical Flat, 1D Measuring Machine	M2M 6e25	F1, F3	F
Dimensional	Fixed Length Gages (Step Gages, Step Height, Mike Master, Depth Master, Caliper Checker)	0.375 in to 40 in	(17.1 + 3.85L) µin/	Master Gage Blocks, Amplifier Probe	M2M 6e41	F1, F3	F

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Dimensional	Fixed Length Gages (Step Gages, Step Height, Mike Master, Depth Master, Caliper Checker)	10 mm to 101 6 mm	(0.43 + 3.85) µm	Master Gage Blocks, Amplifier Probe	M2M 6e41	F1, F3	F
Dimensional	Gage Blocks	0.05 in. to 4.0 in	(3.8 + 3.6L) µin	1D Measuring Machine, Master Gage Blocks	M2M 6e38	F1, F3	F
Dimensional	Gage Blocks	4.0 in. to 20.0 in	(0.33 + 4L) µin	1D Measuring Machine, Master Gage Blocks	M2M 6e38	F1, F3	F
Dimensional	Gage Blocks	1.5 mm to 100 mm	(0.1 + 3.6L) µm	1D Measuring Machine, Master Gage Blocks	M2M 6e38	F1, F3	F
Dimensional	Gage Blocks	100 mm to 500 mm	(0.008 + 4L) µm	1D Measuring Machine, Master Gage Blocks	M2M 6e38	F1, F3	F
Dimensional	Optical Comparator/ Profile Projector (Linearity)	Up to 300 mm	(2.4 + 8.7L) µm	Glass Scales, Master Square	M2M 6e21	F1, F3	F, O
Dimensional	Optical Comparator/ Profile Projector (Squareness)	Up to 200 mm	(1.8 + 5.5L) µm	Glass Scales, Master Square	M2M 6e21	F1, F3	F, O
Dimensional	Optical Comparator/ Profile Projector (Magnification)	10 X to 50 X	0.02 % of Full Scale	Glass Scales, Master Square	M2M 6e21	F1, F3	F, O
Dimensional	3D Optical Portable Scanner (Probing Size Error) (Diameter)	50.8 mm	3 µm	Ball Bar standard and Reference Sphere	Performance verification per VDI/VDE 2634 Part 3; Sections 4.1 and 4.2	F1, F2	F, O
Dimensional	3D Optical Portable Scanner (Sphere Spacing Error)	Up to 635 mm	7.8 µm	Ball Bar standard and Reference Sphere	Performance verification per VDI/VDE 2634 Part 3; Sections 4.1 and 4.2	F1, F2	F, O

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Dimensional	Plastic Films	Up to 0.25 in	13 µin	1D Measuring Machine	M2M 6e30	F1, F3	F
Dimensional	Plastic Films	Up to 6.35 mm	0.33 µm	1D Measuring Machine	M2M 6e30	F1, F3	F
Dimensional	Vision Machines (Measuring Stage) (X Axis & Y Axis)	(600 X 600 X 300) mm	(1.7 + 8.6L) µm	Glass Scales, Gage Blocks, Square	M2M 6e42	F1, F3	F, O
Dimensional	Vision Machines (Measuring Stage) (Z Axis)	Up to 300 mm	(0.75 + 7.8L) µm	Glass Scales, Gage Blocks, Square	M2M 6e42	F1, F3	F, O
Dimensional	Vision Machines (Squareness)	Up to 200 mm	(0.67 + 6.2L) µm	Glass Scales, Gage Blocks, Square	M2M 6e42	F1, F3	F, O
Dimensional	Amplifier with Probe	0.000 025 in to 0.008 in	4.6 µin	Master Gage Blocks	M2M 6e40	F1, F3	F
Dimensional	Amplifier with Probe	0.000 64 mm to 0.2 mm	0.12 µm	Master Gage Blocks	M2M 6e40	F1, F3	F
Dimensional	Sine Bars	5 in	33 µin	Master Gage Blocks, Amplifier Probe	M2M 6e29	F1, F3	F
Dimensional	Sine Bars	10 in	54 µin	Master Gage Blocks, Amplifier Probe	M2M 6e29	F1, F3	F
Dimensional	Sine Bars	127 mm	0.84 µm	Master Gage Blocks, Amplifier Probe	M2M 6e29	F1, F3	F
Dimensional	Sine Bars	254 mm	1.4 µm	Master Gage Blocks, Amplifier Probe	M2M 6e29	F1, F3	F
Dimensional	Calipers	Up to 40 in	(510 + 10.5L) µin	Gage Blocks	M2M 6e13	F1, F3	F, O
Dimensional	Calipers	Up to 101 6 mm	(12.95 + 10.5L) µm	Gage Blocks	M2M 6e13	F1, F3	F, O
Dimensional	Micrometers (Outside)	Up to 40 in	(51 + 8.8L) µin	Gage Blocks	M2M 6e7	F1, F3	F, O
Dimensional	Micrometers (Outside)	Up to 101 6 mm	(1.3 + 8.8L) µm	Gage Blocks	M2M 6e7	F1, F3	F, O
Dimensional	Micrometers (Depth)	Up to 12 in	(70 + 11.7L) µin)	Gage Blocks	M2M 6e8	F1, F3	F, O
Dimensional	Micrometers (Depth)	Up to 304.8 mm	(1.78 + 11.7L) µm	Gage Blocks	M2M 6e8	F1, F3	F, O

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Dimensional	Micrometers (Blade)	Up to 4 in	(51 + 10L) µin	Gage Blocks	M2M 6e9	F1, F3	F, O
Dimensional	Micrometers (Blade)	Up to 101.6 mm	(1.3 + 10L) µm	Gage Blocks	M2M 6e9	F1, F3	F, O
Dimensional	Micrometers (Disc)	Up to 4 in	(56 + 7.75L) µin	Gage Blocks	M2M 6e10	F1, F3	F, O
Dimensional	Micrometers (Disc)	Up to 101.6 mm	(1.42 + 7.75L) µm	Gage Blocks	M2M 6e10	F1, F3	F, O
Dimensional	Micrometers (Vee)	Up to 1 in	71 µin	Pin Gages	M2M 6e11	F1, F3	F, O
Dimensional	Micrometers (Vee)	Up to 25.4 mm	1.8 µm	Pin Gages	M2M 6e11	F1, F3	F, O
Dimensional	Micrometers (Point)	Up to 4 in	(56 + 6L) µin	Gage Blocks	M2M 6e12	F1, F3	F, O
Dimensional	Micrometers (Point)	Up to 101.6 mm	(1.42 + 6L) µm	Gage Blocks	M2M 6e12	F1, F3	F, O
Dimensional	Dial Indicators	Up to 1 in	310 µin	Indicator Tester	M2M 6e14	F1, F3	F, O
Dimensional	Dial Indicators	Up to 25.4 mm	7.88 µm	Indicator Tester	M2M 6e14	F1, F3	F, O
Dimensional	Digital Indicators	Up to 2 in	45 µin	Gage Blocks	M2M 6e15	F1, F3	F, O
Dimensional	Digital Indicators	Up to 50.8 mm	1.2 µm	Gage Blocks	M2M 6e15	F1, F3	F, O
Dimensional	Height Gages	Up to 40 in	(510 + 12.25L) µin	Gage Blocks	M2M 6e16	F1, F3	F
Dimensional	Height Gages	Up to 1 016 mm	(12.95 + 12.25L) µm	Gage Blocks	M2M 6e16	F1, F3	F
Dimensional	Coordinate Measuring Machine with Optical Distance Sensor (Linear Displacement Error)	Up to 635 mm	(3.9 + 1.12L) µm	Ball Gage	ISO 10360-8	F1, F2	F, O

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Dimensional	Probe Performance (Form)	10 mm to 51 mm	1.5 µm	Ball Gage	ISO 10360-8	F1, F2	F, O
Dimensional	Probe Performance (Size)	10 mm to 51 mm	1.5 µm	Ball Gage	ISO 10360-8	F1, F2	F, O
Dimensional	Coordinate Measuring Machines (Linear Displacement Error)	Up to 1 510 mm	(0.37 + 1.24L) µm	Step Gage	ISO 10360-2	F1, F2	F, O
Dimensional	Coordinate Measuring Machines (Linear Displacement Error)	Up to 10 m	(0.75 + 1.13L) µm	Laser Interferometer	ISO 10360-2	F1, F2	F, O
Dimensional	Probe Performance (Form)	10 mm to 51 mm	0.11 µm	Master Sphere	ISO 10360-5	F1, F2	F, O
Dimensional	Probe Performance (Size)	10 mm to 51 mm	0.29 µm	Master Sphere	ISO 10360-5	F1, F2	F, O
Dimensional	Scanning Probe Performance (Form)	24.9 mm to 25.4 mm	0.11 µm	Master Sphere	ISO 10360-5	F1, F2	F, O
Dimensional	Scanning Probe Performance (Size)	24.9 mm to 25.4 mm	0.29 µm	Master Sphere	ISO 10360-5	F1, F2	F, O
Mechanical	Torque Testing Tools	Up to 100 lbf•in	0.69 % of reading	Torque Tester	M2M 6e36	F1, F3	F, O
Mechanical	Torque Testing Tools	25 lbf•ft to 250 lbf•ft	1.2 % of reading	Torque Tester	M2M 6e36	F1, F3	F, O
Mass, Force, and Weighing Devices	Force Measuring Gages (Tension & Compression)	1 lbf to 200 lbf.	0.002 9 % of Reading	Deadweight using Class 5 & F Weights	M2M 6e42	F1, F3	F
Mass, Force, and Weighing Devices	Scales	1 lb. to 10 lb.	3 g	Weights Class 5 & F	M2M 6e37	F1, F3	F, O
Mass, Force, and Weighing Devices	Scales	10 lb. to 100 lb.	6.3 g	Weights Class 5 & F	M2M 6e37	F1, F3	F, O
Mass, Force, and Weighing Devices	Scales	100 lb. to 200 lb.	11 g	Weights Class 5 & F	M2M 6e37	F1, F3	F, O

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Accreditation is granted to the facility to perform the following conformity assessment activities:

1. The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically expressed at a confidence level of 95 % using a coverage factor k (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.

2. The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.

3. Location of activity:

Location Code	Location
F	Conformity assessment activity is performed at the CABs fixed facility
O	Conformity assessment activity is performed onsite at the CABs customer location

4. Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratories fixed location for similar calibrations. This is due to the effects of transportation of the standards and equipment and upon environmental conditions at the customer site which are typically not controlled as closely as at the laboratories fixed location.

5. The term D represents diameter in inches or meters as appropriate to the uncertainty statement.

6. The term L represents length in inches or meters as appropriate to the uncertainty statement.