



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Made to Measure, LLC
302 East Main Street, East Dundee, IL 60118

(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2017

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

Dimensional Calibration
(As detailed in the supplement)

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen
President

Initial Accreditation Date:

July 31, 2014

Issue Date:

June 14, 2023

Expiration Date:

September 30, 2025

Accreditation No.:

59334

Certificate No.:

L23-460

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

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.pjllabs.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 calibrations:

Dimensional

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Calipers ^{FO}	Up to 40 inches	(510 + 10.50L) μ in	Gage Blocks Procedure M2M 6e13
	Up to 101 6 mm	(12.95 + 10.50L) μ m	
Micrometers ^{FO} Outside	Up to 40 inches	(51 + 8.80L) μ in	Gage Blocks Procedure: M2M 6e7
	Up to 101 6 mm	(1.30 + 8.8L) μ m	
Depth	Up to 12 inches	(70 + 11.70L) μ in)	Gage Blocks Procedure:M2M 6e8
	Up to 304.8 mm	(1.78 + 11.7L) μ m	
Blade	Up to 4 inches	(51 + 10L) μ in	Gage Blocks Procedure:M2M 6e9
	Up to 101.6 mm	(1.30 + 10.0L) μ m	
Disc	Up to 4 inches	(56 + 7.75L) μ in	Gage Blocks Procedure: M2M 6e10
	Up to 101.6 mm	(1.42 + 7.75L) μ m	
Vee	Up to 1 inch	71 μ in/	Pin Gages Procedure: M2M 6e11
	Up to 25.4 mm	1.80 μ m	
Point	Up to 4 inches 101.6 mm	(56 + 6L) μ in/(1.42 + 6.0L) μ m	Gage Blocks Procedure: M2M 6e12
Dial Indicators ^{FO}	Up to 1 inch	310 μ in	Indicator Tester Procedure: M2M 6e14
	Up to 25.4 mm	7.88 μ m	
Digital Indicators ^{FO}	Up to 2 inches	45 μ in	Gage Blocks Procedure: M2M 6e15
	Up to 50.8 mm	1.2 μ m	
Height Gages ^{FO}	Up to 40 inches	(510 + 12.25L) μ in	Gage Blocks Procedure: M2M 6e16
	Up to 1 016 mm	(12.95 + 12.25L) μ m	
Coordinate Measuring Machine with Optical Distance Sensor Linear Displacement Error ^{FO}	Up to 635 mm	(3.90 + 1.12L) μ m	Performance verification per: ISO 10360-8 using Ball Gage
Probe Performance ^{FO} Form	(10 to 51) mm	1.5 μ m	
Probe Performance ^{FO} Size	(10 to 51) mm	1.5 μ m	



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Coordinate Measuring Machines ^{FO}			Performance verification per: ISO 10360-2 using Step Gage
Linear Displacement Error	Up to 1 510 mm	(0.37 + 1.24L) μ m	
Linear Displacement Error	Up to 10 m	(0.75 + 1.13L) μ m	ISO 10360-2 using Laser Interferometer
Probe Performance ^{FO}			ISO 10360-5 using Master Sphere
Form	(10 to 51) mm	0.11 μ m	
Size	(10 to 51) mm	0.29 μ m	
Scanning Probe Performance ^{FO}			ISO 10360-5 using Master Sphere
Form	(24.9 to 25.4) mm	0.11 μ m	
Size	(24.9 to 25.4) mm	0.29 μ m	

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. The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its fixed location. Example: Outside Micrometer^F would mean that the laboratory performs this testing at its fixed location.
4. The presence of a superscript FO means that the laboratory performs testing of the indicated parameter both at its fixed location and onsite at customer locations. Example: Outside Micrometer^{FO} would mean that the laboratory performs this testing at its fixed location and onsite at customer locations.
5. The term L represents length in inches or meters as appropriate to the uncertainty statement.