



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

***Millennium Precision, LLC
dba Data Point Technologies, LLC
dba Insize Calibration Services
1200 Woodruff Road, Suite A-16, Greenville, SC 29607***

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

ISO/IEC 17025:2005

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 January 2009):

***Dimensional, Mass, Force, & Weighing Device, Mechanical, Thermodynamic,
and Time & Frequency 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/Operations Manager

Initial Accreditation Date:

September 5, 2006

Issue Date:

March 11, 2015

Expiration Date:

February 28, 2017

Accreditation No.:

59375

Certificate No.:

L15-75

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.pjlab.com*



Certificate of Accreditation: Supplement

Millennium Precision, LLC dba Data Point Technologies, LLC dba Insize Calibration Services

1200 Woodruff Road, Suite A-16, Greenville, SC 29607

David Gray Phone: 864-284-6262

Accreditation is granted to the facility to 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}	150 mm to 610 mm	(13.1 + 0.04L) μ m	Gage Blocks Air Force T.O.33K6-4-552-1
Calipers ^F	610 mm to 1 525 mm	(13.1 + 0.04L) μ m	CMM Validated Procedure
Micrometer ^{FO}	1 mm to 300 mm	(2 + 0.008L) μ m	Gage Blocks Air Force T.O.33K6-4-15-1
Depth Micrometer – Micrometer Head ^{FO}	1 mm to 25 mm	(2 + 0.005L) μ m	Gage Blocks Air Force T.O.33K6-4-15-1
Depth Micrometer – Extension Rods ^F	50 mm to 300 mm	(1.134 + 0.001L) μ m	Universal Length Machine Manufacturer's Guidelines
Height Gages ^{FO}	1 mm to 610 mm	(14.2 + 0.013L) μ m	Gage Block Air Force T.O.33K6-4-1265-1
Bore Gages – Indicator ^F	1 μ m Resolution 0.001 mm to 50 mm	0.87 μ m	Universal Length Machine Air Force T.O.33K6-4-889-1
Bore Gages – Setting Ring ^F	12 mm to 200 mm	(0.785 + 0.002L) μ m	Universal Length Machine Air Force T.O.33K6-4-2-1
Spheres – Diameter ^F	1 mm to 50 mm	0.77 μ m	Universal Length Machine Manufacturer's Guidelines
Spheres – Form Error ^F	1 mm to 50 mm	0.14 μ m	Formtester Manufacturer's Guidelines
Cylindrical Master ^F (Pins/Plugs)	0.275 mm to 200 mm	(0.565 + 0.001 5L) μ m	Universal Length Machine Air Force T.O.33K6-4-121-1
Gage Blocks ^F	1 mm to 100 mm	(0.049 + 0.001 8L) μ m	Universal Length Machine Air Force T.O.33K6-4-1-1
Dial/Digital Indicators ^F	1 μ m Resolution 0.001 mm to 50 mm	0.87 μ m	Universal Length Machine Air Force T.O.33K6-4-889-1
	10 μ m Resolution 0.025 mm to 100 mm	7.9 μ m	
Ring Gages ^F	12 mm to 127 mm	(0.785 + 0.002L) μ m	Master Rings and Universal Length Machine Air Force T.O.33K6-4-2-1
	127 mm to 500 mm	(2.5 + 0.006L) μ m	CMM Validated Procedure
Squares and Angle Blocks Angularity ^F	25 mm to 500 mm	2.6 μ m	Multisensor Vision System Validated Procedure
General Length Measurements ^F	1 mm to 100 mm	(0.11 + 0.005L) μ m	Universal Length Machine
	100 mm to 610 mm	(0.11 + 0.006L) μ m	Universal Length Machine/Gage Blocks
	1 mm to 705 mm	(6.6 + 0.007 8L) μ m	Vision/Multisensor System
	1 mm to 1 200 mm	(6.6 + 0.007 8L) μ m	CMM 1



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Accreditation is granted to the facility to the following calibrations:

Dimensional

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Protractors ^{FO}	360°	0.01°	Multisensor Vision System Validated Procedure
Radius Gages ^{FO}	0.05 mm to 50 mm	5.5 μ m	
Optical Comparators Magnification ^O	10X	0.03 %	Calibrated Chrome on Glass Circle, Spheres or Pin Gage and Circle Template Manufacturer's Guidelines
	20X	0.063 %	
	50X	0.076 %	
	100X	0.048 %	
Optical Comparators Scale Linearity ^O	20 mm to 300 mm	5.4 μ m	Chrome on Glass Linear Scale Manufacturer's Guidelines
Optical Comparators Table Squareness ^O	100 mm to 200 mm	0.001°	Calibrated Square and Indicator Manufacturer's Guidelines
Optical Comparators Digital Protractor ^O	360°	0.02°	Screen Rotation Manufacturer's Guidelines
Vision Systems XY Plane ^O	6 μ m to 750 mm	2.2 μ m	Glass Reticle Manufacturer's Guidelines
Vision Systems Z-Axis ^O	1 mm to 200 mm	3.7 μ m	Gage Blocks Manufacturer's Guidelines
Formtesters – Gage Head Displacement ^O	0.25 mm to 2 mm	0.1 μ m	Gage Blocks Manufacturer's Guidelines
Formtesters – Spindle Verification ^O	0.15 μ m to 2 mm	0.04 μ m	Roundness Sphere Manufacturer's Guidelines
Formtesters – Axis to Spindle Alignment ^O	25 mm to 250 mm	3 μ m/m	Granite Parallel Manufacturer's Guidelines
Surface Finish Gage ^{FO}	0.25 Ra to 4 μ m Ra	0.14 μ m	Roughness Patch
Contour Systems – Vertical Displacement ^O	0.25 mm to 50 mm	0.6 μ m	Gage Blocks Manufacturer's Guidelines
Contour Systems – Horizontal Displacement ^O	5 mm to 100 mm	1 μ m	
Contour Systems – Radius Compensation ^O	2.56 mm to 10 mm	2.5 μ m	Pin Gages Manufacturer's Guidelines
Glass and Steel Scale Error of indication ^O	0.25 mm to 600 mm	0.078 mm	Multisensor Vision System Validated Procedure



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Accreditation is granted to the facility to perform the following calibrations:

Mass, Force, and Weighing Devices

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
Force (Tension) Force (Compression) ^F	50 N to 5 kN	7.2 N	Universal Tension / Compression Tester

Mechanical

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
Torque ^{FO}	0.113 N·m to 28.25 N·m	0.29 % of applied torque	Mountz Torque Transducer
	13.56 N·m to 135.6 N·m	0.39 % of applied torque	
Pressure Transducer ^{FO}	1 psi to 100 psi	0.05 psi	Fluke 718 Pressure Calibrator and reference modules
	10 psi to 500 psi	0.25 psi	
	100 psi to 3 500 psi	8 psi	

Time and Frequency

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
Stopwatches ^{FO}	10 800 s	480 ms	Direct Comparison via Telephone Signal NIST 960-12

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.



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Accreditation is granted to the facility to the following calibrations:

3. The presence of a superscript F means that the laboratory performs calibration of the indicated parameter at its fixed location. Example: Outside Micrometer^F would mean that the laboratory performs this calibration at its fixed location.
4. The presence of a superscript ^O means that the laboratory performs calibration of the indicated parameter onsite at customer locations. Example: Outside Micrometer^O would mean that the laboratory performs this calibration onsite at the customer's location.
5. The presence of a superscript FO means that the laboratory performs calibration 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 calibration at its fixed location and onsite at customer locations.
6. 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.
7. The term L represents length in inches or millimeters as appropriate to the uncertainty statement.
8. The term "X" preceded by a number represents the number of times a lense system magnifies an image relative to its actual size. CMC stated as "% of magnification" represents the CMC of magnification expressed as a percentage of the total magnification.