

# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## Certificate of Accreditation

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

## Sharp Precision Calibration, Inc.

8570 Dale Street, Centerline, MI 48015

(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 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:

Initial Accreditation Date:

Issue Date:

Expiration Date:

January 26, 2005

March 17, 2015

July 31, 2017

Accreditation No.:

Certificate No.:

Tracy Szerszen President/Operations Manager 59322

L15-108

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: <a href="www.pjlabs.com">www.pjlabs.com</a>





## Certificate of Accreditation: Supplement

#### **Sharp Precision Calibration Inc.**

8570 Dale Street, Centerline, MI 48015 Billy Verhey Phone: 586-427-4900

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

#### Optical

MEASURED INSTRUMENT, QUANTITY OR GAUGE  Optical Comparator Axis Linearity <sup>F</sup>	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE  12 in Maximum	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±) 230 µin	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED Glass Master End Measuring Rods
			Rods Gage Blocks
Optical Comparator Magnification <sup>F</sup>	10X to 100X	0.028% of Magnification	Glass Master Glass Scale
Optical Comparator Axis Squareness <sup>F</sup>	Maximum Travel of Y Axis up to 3 Inches	170 μin	Glass Master
Optical Comparator Chart Angularity <sup>F</sup>	0° to 360°	0.018°	Glass Master
Toolmakers Microscope Linear Axis <sup>F</sup>	12 in	170 μίη	Glass Master
Toolmakers Microscope Squareness <sup>F</sup>	12 in	170 μίn	Glass Master

#### Dimensional

MEASURED INSTRUMENT,	RANGE OR NOMINAL	CALIBRATION AND	CALIBRATION
QUANTITY OR GAUGE	DEVICE SIZE AS	MEASUREMENT	EQUIPMENT
	APPROPRIATE	CAPABILITY EXPRESSED	AND REFERENCE
		AS AN UNCERTAINTY (±)	STANDARDS USED
Machine Tool Linear Axis <sup>F</sup>	12 in	920 µin	Standard Reference Bar
			Test Indicator
Surface Plate Flatness <sup>F</sup>	0.5 ft to 25 ft	(75+3L) μin	Electronic Levels
Surface Plate Repeat Reading <sup>F</sup>	0.002 in	120 µin	Repeat Reading Gage
1 0		•	1 0 0

- 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



Issue: 3/2015

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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 calibration of the indicated parameter at its fixed location. Example: Outside Micrometer<sup>F</sup> would mean that the laboratory performs this calibration at its fixed 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 L represents length in inches or millimeters as appropriate to the uncertainty statement.

