PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Julio Cesar González Herrera / Laboratorio de Calibración AG

Laguna de Bacalar Mz. 24, Lt. 42, Cond. 2, Col. Profepec Polígono II
Ecatepec de Morelos, Estado de México, México. C.P. 55158

(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, Optical and Mechanical 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:

Szerszen
President

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

Initial Accreditation Date:	*Issue Date:*	*Expiration Date:*
August 24, 2022	September 10, 2024	October 31, 2026

Accreditation No.:	*Certificate No.:*
117591	L24-692

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

Julio Cesar González Herrera / Laboratorio de Calibración AG

Laguna de Bacalar Mz. 24, Lt.,42, Cond. 2, Col. Profepec Polígono II
Ecatepec de Morelos, Estado de México, México. C.P. 55158
Contact Name: María Fernanda Echegaray Phone: 552-233-0740

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

Dimensional

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Caliper[FO]	Up to 300 mm	$(21.98 + 2.02 \times 10^{-2}L)$ µm	Gage Blocks Grade 1	AG-PPC-11
Micrometer[FO]	Up to 300 mm	$(9.9 \times 10^{-1} + 1.01 \times 10^{-2}L)$ µm		AG-PCM-15
Step Block[F]	2.54 mm to 254 mm	$(3.81 \times 10^{-2} + 3 \times 10^{-4}L)$ mm	Optical Comparator	MTKD-2110108

Optical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Light Meters[FO]	100 lux to 2 000 lux ($1\,000$ µW/cm^2 to $3\,500$ µW/cm^2)	8.5 lux (19.2 µW/cm^2)	Light Meters Comparison	IC-0340-04-22
Transmission Densitometers[FO]	Up to 5 D	0.07 D	NIST X-Ray Step Tablet (Standard Reference Material SRM 1001) 5 or alternately a step tablet from another supplier which is traceable to the NIST SRM 1001 X-ray Step Tablet	ASTM E 1079

Mechanical

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED
Verification of Hardness Tester Leeb HLD[FO]	792 HLD	11 HLD	Hardness Test Blocks	ASTM A 956

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Contact Name: María Fernanda Echegaray Phone: 552-233-0740

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

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 calibration of the indicated parameter 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.