



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Ensayos No Destructivos, S.A. de C.V.

***Av. 517 #80, Col. San Juan de Aragón
Delegación Gustavo Madero, Distrito Federal, México C .P. 07969***

*(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):

***Calibration of Magnetic Particle Inspection Devices, Gauss Meter, UV and
Visible Measurement Instruments, Thickness Gages, Flaw Detector, Hardness
Tester and Magnetic Yoke of Electromagnetic
(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:

June 18, 2012

June 08, 2020

August 31, 2022

Accreditation No.:

Certificate No.:

72269

L20-387

Tracy Szerszen
President

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.pjilabs.com*



Certificate of Accreditation: Supplement

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Av. 517 # 80, Col. San Juan de Aragón, Deleg. Gustavo Madero
 Delegación Gustavo Madero, Distrito Federal, México C.P. 07969
 Contact: Joaquin Gutierrez. Phone: 551-114-8355

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

Electrical

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
Magnetic Particle Inspection Devices	Up to 10 000 A	9.1 A	Magnaflux 621318 S/N 81536 Digital Ammeter ASTM-E709 and ASTM-E1444
Current AC/DC/ Time ^o	0.5 s to 3 s	0.038 s	TSI Inc / Magnaflux Magwerks / Gould Bass
Gauss Meters (Magnetometers) ^F	Up to 100 G	0.58 G	Mahwerks HPS1-3059A Helmoltz System Power Model MG-25-10, MG-25, MG-25-50, Series 5 000 F.W. Bell R.B. Annis Company Parker Research ASTM-E709 ASTM-E1444 and and to the Manufacturer's Specifications Helmholtz Operations Manual 3059A

Optical

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
Light Meter – Irradiance Ultraviolet Light at Listed Wave Lengths: 320 nm to 380 nm ^F	200 $\mu\text{W}/\text{cm}^2$ to 7 000 $\mu\text{W}/\text{cm}^2$	13 $\mu\text{W}/\text{cm}^2$	CIE 69 Radiometer Photometer Model XR-3000 DSE-2000 Spectroline
Light Meter – Illuminance Spectroline Visible Light at Listed Wave Lengths: 380 nm to 760 nm ^F	5.38 Lux to 4 843.76 Lux	0.89 Lux	



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

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
Hardness Tester ^F	58.74 HRC	0.55 HRC	133073 DEMAQ, QHR-001 Hardness Block Tester. ASTM-A 956 and ASTM-E18

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
Magnetic Yoke of Electromagnetic Lifting ^F	4 540 g to 13 620 g	0.24 g	Parker TB-10 5322 Weight Life Test Bar Parker TB-10 9768 Weight Life Test Bar Parker TB-10 9769 Weight Life Test Bar Steel Bar of 4 540 g ASTM-E709 and ASTM-E-1444

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
Ultrasonic Thickness Gages ^F	2.5 mm to 12.5 mm	83 μ m	PH-Tool 50344 Master Step
Ultrasonic Flaw Detector ^F	25 mm to 250 mm	160 μ m	ASTM-E317

- 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.



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

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. 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. 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.

