



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

ADDEG, .S de R.L.

***Blvd. Peña Flor 1102, Bodega B48, Colonia Ciudad del Sol
Santiago de Querétaro, Querétaro, México. C.P. 76116***

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

ISO/IEC 17025:2017

Whereby, technical competence has been confirmed for the associated scope supplement, in the fields of:

Dimensional Calibration (As detailed in the supplement)

Accreditation claims for conformity assessment activities shall only be made from the addresses referenced within this certificate and shall apply solely to those activities identified in the related scope. This Accreditation is granted subject to the Accreditation Body rules governing the Accreditation referred to above, and the Organization hereby commits to observing and complying with those rules in their entirety.

For PJLA:

Initial Accreditation Date:

Issue Date:

Expiration Date:

January 22, 2025

January 22, 2025

April 30, 2027

Accreditation No.:

Certificate No.:

130579

L25-57

Tracy Szerszen
President

*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*

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



Certificate of Accreditation: Supplement

ADDEG, S. de R.L.

Blvd. Peña Flor 1102, Bodega B48, Colonia Ciudad del Sol
 Santiago de Querétaro, Querétaro, México. C.P. 76116
 Contact Name: Reyna Mariela Montañez Phone: 442-834-6362

Accreditation is granted to the facility to perform the following conformity assessment activities:

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	LOCATION OF ACTIVITY
Dimensional	Articulated Arm Coordinate Measuring Machines (AACMM) with Optical Distance Sensors: -Articulates Location Value (Ldia)	Sphere Diameter: 34.993 mm (Nominal)	7 μ m	Master Sphere	ISO 10360-8	FO
	Articulated Arm Coordinate Measuring Machines (AACMM) with Optical Distance Sensors: -Probing size error (PSize)	Sphere Diameter: 34.993 mm (Nominal)	1.9 μ m		ISO 10360-12 (Annex E)	
	Articulated Arm Coordinate Measuring Machines (AACMM) with Optical Distance Sensors: -Probing form error (PForm)	Sphere Diameter: 34.993 mm (Nominal)	6,6 μ m			
Dimensional	Articulated Arm Coordinate Measurement Machines (AACMM) -Probing size Error (PSize)	Sphere Diameter: 30-40 mm (Nominal)	2.2 μ m	Master Sphere Ball Bar Calibrated Cone	ISO 10360-12	FO
	Articulated Arm Coordinate Measurement Machines (AACMM) -Probing Form error (PForm)	Sphere Diameter: 30-40 mm (Nominal)	1.9 μ m			



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Dimensional	Articulated Arm Coordinate Measurement Machines (AACMM) -Articulates Location Error (LDia)	Sphere Diameter: 30-40 mm (Nominal)	1.9 μm	Master Sphere Ball Bar Calibrated Cone	ISO 10360-12	FO
	Articulated Arm Coordinate Measurement Machines (AACMM) - Length Measurement Error Unidirectional (Euni)	Radius: Up to 2 000 mm	(6.1 + 0.001L) μm			
	Articulated Arm Coordinate Measure Machines (AACMM) Verification -Volumetric Performance	Radius: Up to 2 000 mm	(8.8 + 0.001L) μm	Ball Bar Calibrated Cone Master Sphere	ASME B89.4.22	FO
	Articulated Arm Coordinate Measure Machines (AACMM) Verification -Effective Diameter Performance	Sphere Diameter: 30-40 mm (Nominal)	2 μm			
	Laser Tracker Instruments -Effective Diameter Performance	Sphere Diameter: 30-40 mm (Nominal)	(3.1 + 0.013L) μm	Master Sphere Master Bar (2500 mm) Nominal	ASME B89.4.19	FO
	Laser Tracker Instruments -Bar Length	2 500.039 mm (Nominal)	(9.8 + 0.032L) μm			
	Laser Tracker Instruments -Two-Face Test	6 000 mm	(2.2 + 0.088L) μm			



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Accreditation is granted to the facility to perform the following conformity assessment activities:

- 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.
- 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.
- Location of activity:

Location Code	Location
F	Conformity assessment activity is performed at the CABs fixed facility
O	Conformity assessment activity is performed onsite at the CABs customer location
- 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.
- The term L represents length in inches or millimeters as appropriate to the uncertainty statement.