



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

MIESA METROLOGY S.de R.L. de C.V.
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CALIBRATION

Valid To: October 31, 2027

Certificate Number: 3936.01

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the organization's compliance with R205 – A2LA's Calibration Program Requirements), accreditation is granted to this laboratory to perform the following calibrations^{1, 6}:

I. Dimensional

Parameter/Equipment	Range	CMC ^{2, 5} ($\pm$)	Comments
CMM – Length Measurement Error ³			
E _L Contura	Up to 1000 mm	$(0.9 + 0.5L) \mu\text{m}$	ISO 10360-2:2009 gage blocks
E _L Micura	Up to 400 mm	$(0.58 + 0.6L) \mu\text{m}$	ISO 10360-2:2009 gage blocks
Vision System – Length Measurement Error ³ - E _L	X & Y axis Up to 500 mm	$(2.0 + 3.9L) \mu\text{m}$	ISO 10360-9 glass scales
Articulated Arm CMM			
Volumetric Performance	Up to 1000 mm	$(3.7 + 10L) \mu\text{m}$	ASME B89.4.22 ball bars
Single-Point Articulation Test	Up to 1000 mm	9.7 μm	ASME B89.4.22 trihedral socket
Effective Diameter Test	Up to 1000 mm	8.0 μm	ASME B89.4.22 sphere master

II. Dimensional Testing⁴

Parameter/Equipment	Range	CMC ^{2, 5} ($\pm$)	Comments
3D Length Measurement	Up to 1000 mm	$(1.0 + 1.2L) \mu\text{m}$	Zeiss Contura G2 CMM
	Up to 400 mm	$(0.8 + 1.4L) \mu\text{m}$	Zeiss Micura CMM
	Up to 2700 mm	$(5.2 + 14L) \mu\text{m}$	FARO edge articulated arm
2D Length Measurement	Up to 500 mm	$(2.3 + 4.6L) \mu\text{m}$	Micro Vu vision measuring system
1D Length Measurement	Up to 152 mm	$0.22 \mu\text{m}$	Calipers
	Up to 25.4 mm	$0.58 \mu\text{m}$	Micrometers

¹ This laboratory offers commercial dimensional testing, calibration, and field calibration services.

² Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

³ Field calibration service is available for this calibration. Please note the actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the CMC found on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the actual uncertainty introduced by the item being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the actual measurement uncertainty achievable on a customer's site being larger than the CMC.

⁴ This test is not equivalent to that of a calibration. Reported test uncertainties can be higher based on the surface texture of the test piece for roughness (R_a) and waviness (W_a) parameters.

⁵ In the statement of CMC, L is the length in meters.

⁶ This scope meets A2LA's *P112 Flexible Scope Policy*.



Accredited Laboratory

A2LA has accredited

MIESA METROLOGY S. DE R.L. DE C.V.

Ciudad Juarez, Chihuahua, MEXICO

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets R205 – *Specific Requirements: Calibration Laboratory Accreditation Program*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 1st day of December 2025.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3936.01
Valid to October 31, 2027

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.