

CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Quality Inspection & Gage

225 South Towerview Drive Columbia City, IN 46725

Fulfills the requirements of

ISO/IEC 17025:2017

In the fields of

CALIBRATION and **DIMENSIONAL MEASUREMENT**

This certificate is valid only when accompanied by a current scope of accreditation document. The current scope of accreditation can be verified at <u>www.anab.org</u>.



Jason Stine, Vice President Expiry Date: 18 January 2027 Certificate Number: L2049-1

This laboratory 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 (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Quality Inspection & Gage

225 South Towerview Drive Columbia City, IN 46725 Jeff Reimer 260-244-3591

CALIBRATION & DIMENSIONAL MEASUREMENT

Valid to: January 18, 2027

Certificate Number: L2049-1

CALIBRATION

Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Cylindrical Plug Gages, Pin Gages ¹	Up to <mark>50 mm</mark>	$(0.17 + 0.77L) \mu\text{m}$	Comparison to Outside Micrometer

DIMENSIONAL MEASUREMENT

1 Dimensional

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Dimensional Measurement – 1D ¹	Up to 305 mm	(40 + 0.63 <i>L</i>) μm	Calipers utilized as the reference standard for 1D Measurements.
	Up to 50 mm	(0.17 + 0.77 <i>L</i>) μm	Micrometers utilized as the reference standard for 1D Measurements.
	Up to 15 mm	(59 + 0.000 57 <i>L</i>) μm	Radius Gage utilized as the reference standard for 1D Measurements.



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3 Dimensional

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Dimensional Measurement – 3D ¹	X-axis: Up to 1 828 mm Y-axis: Up to 1 828 mm Z-axis: Up to 1 371 mm X-axis: Up to 1 455 mm	(1.3 + 0.005 <i>L</i>) μm (0.9 + 0.003 3 <i>L</i>) μm	Coordinate Measuring Machine utilized as the reference standard for 3D Measurements. (DEA) Coordinate Measuring Machine utilized as the reference standard for 3D
	Z-axis: Up to 267 mm		Measurements. (Advantage) Coordinate Measuring Machine utilized as the
	Y-axis: Up to 990 mm Z-axis: Up to 457 mm	(0.97 + 0.005 3 <i>L</i>) μm	reference standard for 3D Measurements. (Mistral)

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 (k=2), corresponding to a confidence level of approximately 95%. Notes:

- 1. L =length in millimeters.
- 2. Unless otherwise specified in the far-right column, the calibration method/procedure was written internally.
- 3. This scope is formatted as part of a single document including Certificate of Accreditation No. L2049-1.

Jason Stine, Vice President





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