



CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

**Quality Inspection & Gage
225 South Towerview Drive
Columbia City, Indiana 46725**

has been assessed by ANAB
and meets the requirements of international standard

ISO/IEC 17025:2005

while demonstrating technical competence in the field of

CALIBRATION & DIMENSIONAL MEASUREMENT

Refer to the accompanying Scope of Accreditation for information regarding the types of calibrations / tests to which this accreditation applies.

L2049-1

Certificate Number


ANAB Approval

Certificate Valid: 01/05/2019-01/18/2021
Version No. 002 Issued: 01/05/2019



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. 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 17025:2005

Quality Inspection & Gage

225 South Towerview Drive
Columbia City, Indiana 46725
Alex Habben
260-244 3591

CALIBRATION & DIMENSIONAL MEASUREMENT

Valid to: January 18, 2021

Certificate Number: L2049-1

Calibration - Length – Artifacts and Standards 1D

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Cylindrical Plug / Pin Gages	(0 to 50) mm	$(.174 + .773L) \mu\text{m}$	Micrometers

Dimensional Measurement - Length – 1D

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Dimensional Measurement Linear 1D	(0 to 305) mm	$(39.8 + .633L) \mu\text{m}$	Calipers
Dimensional Measurement Linear 1D	(0 to 50) mm	$(.174 + .773L) \mu\text{m}$	Micrometers
Dimensional Measurement Linear 1D	(0 to 15) mm	$(59 + 0.000571L) \mu\text{m}$	Radius Gage
Dimensional Measurement Linear 1D	(0 to 356) mm	$(41 + .667L) \mu\text{m}$	Digital Height Gage / Surface Plate



Dimensional Measurement - Length – 3D

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Dimensional Measurement 3D	X = (0 to 1 828) mm	(32 + 0.001 13L) μm	Coordinate Measuring Machine (DEA)
	Y = (0 to 1 828) mm		
	Z = (0 to 1 371) mm		
	X = (0 to 1 455) mm	(.921 + .773L) μm	Coordinate Measuring Machine (Advantage)
	Y = (0 to 2 156) mm		
	Z = (0 to 267) mm		
	X = (0 to 660) mm	(14 + 0.001 07L) μm	Coordinate Measuring Machine (Mistral)
	Y = (0 to 990) mm		
Z = (0 to 457) mm			

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. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope
2. This scope is formatted as part of a single document including Certificate of Accreditation No. L2049-1.

Vice President