



CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

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

This is to certify that

Morgan Precision Instruments
3375 Miller Park Road
Akron, OH 44312

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

ISO/IEC 17025:2005

while demonstrating technical competence in the fields of

CALIBRATION AND TESTING

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

ACT-1367

Certificate Number


ANAB Approval

Certificate Valid: 01/20/2017-01/23/2019
Version No. 002 Issued: 01/20/2017



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 January 2009).



ANSI-ASQ National Accreditation Board

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Morgan Precision Instruments

3375 Miller Park Road

Akron, OH 44312

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CALIBRATION and TESTING

Valid to: January 23, 2019

Certificate Number: ACT-1367

Dimensional

Parameter/ Equipment	Range	Calibration and Measurement Capability [Expressed as Uncertainty (\pm)]	Reference Standard or Equipment
Angle Blocks	Up to 90 °	20S	Grade II Gage Blocks Master Sine Bar Digital Mu Checker
Squares	Up to 18 in	211 μ in/ft	Cylindrical Square Granite Surface Plate
Feeler Gages	(0.001 to 0.035) in	130 μ in	Digital Micrometer Micrometer Stand
Outside Diameter	Up to 1 in	22 μ in	Measuring Machine
Micrometer Standards	Up to 80 in	(103 + 11L) μ in	Measuring Machine
Inside Micrometers	(1.5 - 150) in	(81 + 13L) μ in	Measuring Machine
Bar Gages	(1 to 120) in	(48 + 15L) μ in	Measuring Machine
Micrometers (0.001 Resolution)	Up to 72 in	(15 + 1.8L) μ in	Grade II Gage Blocks
Micrometers (0.0001 Resolution)	Up to 36 in	(84 + 1.6L) μ in	Grade II Gage Blocks
Micrometers (0.00005 Resolution)	Up to 6 in	(54 + 12L) μ in	Grade II Gage Blocks
Depth Micrometers (0.001 Resolution)	Up to 12 in	(268 + 7.6L) μ in	Grade II Gage Blocks Granite Surface Plate
Electronic Depth Micrometers (0.0001 Resolution)	Up to 12 in	(122 + 10L) μ in	Grade II Gage Blocks Granite Surface Plate



Dimensional

Parameter/ Equipment	Range	Calibration and Measurement Capability [Expressed as Uncertainty (\pm)]	Reference Standard or Equipment
Electronic Depth Micrometers (0.00005 Resolution)	Up to 6 in	123 μ in	Grade II Gage Blocks Granite Surface Plate
Dial Calipers, Vernier Calipers, Depth Gages (0.001 Resolution)	Up to 120 in	(114 + 23L) μ in	Grade II Gage Blocks Granite Surface Plate
Digital Calipers and Depth Gages (0.0005 Resolution)	Up to 60 in	(48 + 1.2L) μ in	Grade II Gage Blocks Granite Surface Plate
Height Gages (0.001 Resolution)	Up to 40 in	(115 + 18L) μ in	Grade II Gage Blocks Granite Surface Plate
Digital Height Gages (0.0005 Resolution)	Up to 40 in	(447 + 11L) μ in	Grade II Gage Blocks Granite Surface Plate
Digital Height Gages (0.0001 Resolution)	Up to 24 in	(67 + 16L) μ in	Grade II Gage Blocks Granite Surface Plate
Dial Indicators (0.001 Resolution)	Up to 4 in	0.00058 in	Grade II Gage Blocks Granite Surface Plate
Dial Indicators (0.0005 Resolution)	Up to 1 in	578 μ in	Grade II Gage Blocks Granite Surface Plate
Dial Indicators (0.0001 Resolution)	Up to 1 in	118 μ in	Grade II Gage Blocks Granite Surface Plate
Electronic Indicators (0.00005 Resolution)	Up to 1 in	62 μ in	Grade II Gage Blocks Granite Surface Plate
Test Indicator (0.001 Resolution)	Up to 0.06 in	583 μ in	Grade II Gage Blocks Granite Surface Plate Or Heightmaster
Test Indicator (0.0005 Resolution)	Up to 0.06 in	583 μ in	Grade II Gage Blocks Granite Surface Plate Or Heightmaster
Test Indicator (.0001 Resolution)	Up to 0.06 in.	142 μ in	Gage II Gage Blocks Granite Surface Plate Or Heightmaster
Precision Levels	Up to 72 in	5.7 μ in	Granite Surface Plate
Surface Roughness	(1 to 250) μ in	0.0013 in	Surftest and Reference Specimen
Sliding Gages (Profiles)	(3 to 60) in	0.0012 in	TRA Masters
Mandrels	(3 to 54) in	0.0012 in	Pi Tape
ID Base Bands	(3 to 54) in	0.0016 in.	Pi Tape
Flat Tapes	(3 to 54) in	0.0027 in	Vernier Caliper

Dimensional

Parameter/ Equipment	Range	Calibration and Measurement Capability [Expressed as Uncertainty (\pm)]	Reference Standard or Equipment
Tapes, Rules and Scales	Up to 40 in	0.0011 in.	Vernier Caliper
Templates, Contour and Tolerance Gages	(3 to 48) in	142 μ in	Measuring Machine

Testing

Dimensional

Parameter/ Equipment	Range	Calibration and Measurement Capability [Expressed as Uncertainty (\pm)]	Reference Standard or Equipment
Dimensional Inspection CMM 3D	X = Up to 40 in Y = Up to 80 in Z = Up to 40 in	(131 + 20L) μ in	Coordinate Measuring Machine Used as Reference Standard

Notes:

1. Calibration and Measurement Capabilities (Expanded Uncertainties) are based on approximately a 95% confidence interval, using a coverage of k=2.
2. L = length in inches, .
3. This scope is formatted as part of a single document including Certificate of Accreditation No. ACT-1367.



 Vice President