CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Angle Calibration

40 South Lane
Troy, OH 45373

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

CALIBRATION

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

Jason Stine, Vice President

Expiry Date: 23 May 2025

Certificate Number: AC-1170

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

Angle Calibration

40 South Lane
Troy, OH 45373
Amy Fields / Don Fields
937-335-6520

CALIBRATION

Valid to: **May 23, 2025** Certificate Number: **AC-1170**

Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Gage Blocks	Up to 1 in 2 in 3 in 4in (4 to 12) in (12 to 20) in	4.3 µin 8 µin 8.3 µin 10 µin 27 µin 43 µin	Dual Head Comparator ULM Horizontal Metroscope (Retrofitted)
Plug Gages [1]	Up to 4 in (4 to 12) in (12 to 20) in	13 µin 27 µin 44 µin	ULM Horizontal Metroscope (Retrofitted)
Thread Wires	Up to 4 in	12 µin	ULM Horizontal Metroscope (Retrofitted)
Pin Gage Sets [1]	Up to 4 in	13 µin	ULM Horizontal Metroscope (Retrofitted)
Length Standards [1]	Up to 4 in (4 to 12) in (12 to 20) in	15 µin 28 µin 44 µin	ULM Horizontal Metroscope (Retrofitted)
Plain Cylindrical Ring Gages Internal Diameter [1]	(0.36 to 5) in (5 to 16) in	17 µin 36 µin	ULM Horizontal Metroscope (Retrofitted)
Feeler Gage [1]	Up to 4 in	13 µin	ULM Horizontal Metroscope (Retrofitted)
Micrometers [1] ID Mics, OD Mics	Up to 12 in (12 to 24) in	64.3 µin 748 µin	Gage Blocks
Depth Micrometers [1]	(Up to 24) in	748 µin	Gage Blocks
TriMics [1]	Up to 12 in	64.3 µin	Master Rings

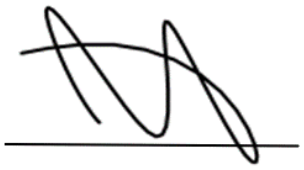
Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Groove Gage [1]	Up to 4 in	578 µin	Gage Blocks
Calipers [1] Dial Digital Vernier	Up to 12 in (12 to 40) in	OD = 309 µin ID = 331 µin OD = 583 µin ID = 583 µin	Gage Blocks
Height Gages [1]	(0 to 40) in	315 µin	Gage Blocks
Steel Rule [1] Tape Rule [1]	Up to 12 in (12 to 40) in	309 µin 583 µin	Gage Blocks
Indicators [1]	Travel type – Up to 4 in Lever type – Up to 1 in	79 µin	Indicator Tester
Thread Plug Gages [1]	Up to 4 in Diameter	93.5 µin	ULM Horizontal Metroscope (Retrofitted)
Thread Ring Gage [1]	Up to 4 in Internal diameter	93.5 µin	Thread Set Plug Gage
Surface Plate [1] Overall Flatness	Width: (12 to 50) in Length: (12 to 72) in	426 µin	Planekator
Dial Bore Gage [1]	Up to 12 in	93.6 µin	Dial Bore Gage Tester/Indicator Tester

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. For on-site calibrations, other length measurement instrumentation is used in place of the ULM Horizontal Metroscope .
2. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-1170.



Jason Stine, Vice President