SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ACCU-TECH, INC.
4816 Joslyn Road
Lake Orion, MI 48359
Edmund Drozdowski Phone: (248) 977-1042

MECHANICAL

Valid To: April 30, 2025 Certificate Number: 1224.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests[1, 5]:

I. Dimensional Testing/Calibration[4]:

Parameter/Equipment	Range	CMC[2, 3, 6] (±)	Comments
3D Length Measurements of Parts, Fixtures, Gauges, Tooling, Dies, Molds, Etc.	X: Up to 48 in (1200 mm) Y: Up to 79 in (2000 mm) Z: Up to 39 in (1000 mm)	0.0005 in, (0.013 mm)	DCC CMM *XCEL 12.20.10* (ACC-CMM-1)
	X: Up to 35 in (900 mm) Y: Up to 59 in (1500 mm) Z: Up to 35 in (900 mm)	0.0004 in, (0.009 mm)	DCC CMM *XCEL 9.15.9* (ACC-CMM-2)
	X: Up to 37 in (950 mm) Y: Up to 37 in (950 mm) Z: Up to 37 in (950 mm)	0.0013 in, (0.033 mm)	DCC CMM *(Horizontal 3000)* (ACC-CMM-3)
	X: Up to 118 in (2997 m) Y: Up to 69 in (1750 mm) Z: Up to 45 in (1150 mm)	0.0014 in, (0.035 mm)	DCC CMM *(Horizontal 3000)* (ACC-CMM-3)
	X: Up to 235 in (5975 m) Y: Up to 69 in (1750 mm) Z: Up to 90 in (2285 mm)	0.0027 in, (0.068 mm)	DCC CMM *(Horizontal 3000)* ACC-CMM-3
	X: Up to 48 in (1200 mm) Y: Up to 87 in (2200 mm) Z: Up to 39 in (1000 mm)	0.0004 in, (0.010 mm)	DCC CMM GLOBAL 12.22.10 ACC-CMM-4

Parameter/Equipment	Range	CMC[2, 3, 6] (±)	Comments
3D Length Measurements of Parts, Fixtures, Gauges, Tooling, Dies, Molds, etc. (cont)	X: Up to 22.4 in (560 mm) Y: Up to 23.6 in (600 mm) Z: Up to 11.8 in (300 mm)	0.000 10 in, (0.002 mm)	DCC CMM/vision (*Magnus Redline*) ACC-CMM-5
	X: Up to 137.8 in (3500 mm) Y: Up to 137.8 in (3500 mm) Z: Up to 137.8 in (3500 mm)	0.0024 in, (0.06 mm)	MANCMM ROMER 8535-7 ACC-CMM-8 (R56 scanner)
	X: Up to 137.8 in (3500 mm) Y: Up to 137.8 in (3500 mm) Z: Up to 137.8 in (3500 mm)	0.0020 in, (0.053 mm)	MANCMM ROMER 8535-7 ACC-CMM-8 (Arm Only)
	X: Up to 37 in (950 mm) Y: Up to 37 in (950 mm) Z: Up to 37 in (950 mm)	0.0004 in, (0.012 mm)	DCC CMM *(DEA VENTO)* (ACC-CMM-6
	X: Up to 118 in (3000 mm) Y: Up to 63 in (1600 mm) Z: Up to 45 in (1150 mm)	0.0007 in, (0.017 mm)	DCC CMM *(DEA VENTO)* (ACC-CMM-6)
	X: Up to 157 in (4000 mm) Y: Up to 63 in (1600 mm) Z: Up to 95 in (2400 mm)	0.0018 in, (0.046 mm)	DCC CMM *(DEA VENTO)* (ACC-CMM-6)
1D Length Measurements	Up to 1 in (25.4 mm)	0.000 05 in, (0.0013 mm)	Micrometers
	Up to 6 in (150 mm) Up to 8 in (200 mm) Up to 12 in (300 mm)	0.0007 in (0.018 mm) 0.0007 in (0.019 mm) 0.0008 in (0.021 mm)	Calipers

[1] This laboratory offers commercial dimensional testing/calibration service.

[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] For measurements made on CMMs that are considered traceable, the CMC is based on CMM calibrated per ASME B.89.4.1 – 1997.

[4] This laboratory meets R205 – *Specific Requirements: Calibration Laboratory Accreditation Program* for the types of dimensional tests listed above. Accredited test reports issued containing appropriate statements of measurement results, measurement uncertainty, and traceability are considered equivalent to a "calibration" certificate.

[5] This scope meets A2LA's *P112 Flexible Scope Policy*.

[6] The type of instrument or material being calibrated is defined by the parameter. This indicates the laboratory is capable of calibrating instruments that measure or generate the values in the ranges indicated for the listed measurement parameter.

Accredited Laboratory

A2LA has accredited

ACCU-TECH, INC.

Orion, MI

for technical competence in the field of

Mechanical

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 27th day of February 2023.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1224.01
Valid to April 30, 2025

For the types of tests and calibrations to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.