THE AMERICAN ASSOCIATION FOR LABORATORY ACCREDITATION

ACCREDITED LABORATORY

A2LA has accredited

ACCU-TECH, INC.

Sterling Heights, MI

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This laboratory also meets the requirements of any additional program requirements in the field of calibration. 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 8 January 2009*).

Presented this 11th day of May 2009.

President
For the Accreditation Council
Certificate Number: 1224.01
Valid to: April 30, 2011

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

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

ACCU-TECH, Inc.
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Sterling Heights, MI 48314
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MECHANICAL

Valid To: April 30, 2011 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:

Dimensional Testing:

Parameter	Range	Best Uncertainty[1] (±)	Measurement Technique
Length	X Axis = (0 to 48) in (1200 mm) Y Axis = (0 to 79) in (2000 mm) Z Axis = (0 to 39) in (1000 mm) Volumetric Performance	0.0005 in (0.013 mm)	DCC CMM *(12.20.10)* (ACC-CMM-1)
	X Axis = (0 to 35) in (900 mm) Y Axis = (0 to 59) in (1500 mm) Z Axis = (0 to 35) in (900 mm) Volumetric Performance	0.00047 in (0.012 mm)	DCC CMM *(9.15.9)* (ACC-CMM-2)
	X Axis = (0 to 37) in (950 mm) Y Axis = (0 to 37) in (950 mm) Z Axis = (0 to 37) in (950 mm) Volumetric Performance	0.00095 in (0.024 mm)	DCC CMM *(Horizontal 3000)* (ACC-CMM-3)
	X Axis = (0 to 118) in (3000 mm) Y Axis = (0 to 69) in (1750 mm) Z Axis = (0 to 45) in (1150 mm) Volumetric Performance	0.0014 in (0.036 mm)	
	X Axis = (0 to 235) in (5975 mm) Y Axis = (0 to 69) in (1750 mm) Z Axis = (0 to 90) in (2285 mm) Volumetric Performance	0.002 in (0.052 mm)	

Parameter	Range	Best Uncertainty[1, 2] (±)	Measurement Technique
Length	X Axis = (0 to 35) in (900 mm) Y Axis = (0 to 59) in (1500 mm) Z Axis = (0 to 31.5) in (800 mm) Volumetric Performance	0.00043 in (0.011 mm)	DCC CMM *(9.15.8)* (ACC-CMM-4)
	X Axis = (0 to 17.3) in (440 mm) Y Axis = (0 to 15.7) in (400 mm) Z Axis = (0 to 11.8) in (300 mm) Volumetric Performance	(0.044 +*L*/12) µin (1.2 + *L*/300) µm	Vision system (*Altera 401)* (ACC-CMM-V1)
	X Axis = (0 to 15.7) in (400 mm) Y Axis = (0 to 7.9) in (200 mm) Z Axis = (0 to 7.9) in (200 mm) Volumetric Performance	(0.052 +*L*/12) µin (1.4 + *L*/300) µm	Vision system (*Signum Blueline)* (ACC-CMM-V2)
	(0 to 6) in (150 mm) (0 to 8) in (200 mm) (0 to 12) in (300 mm) (0 to 1) in (25.4 mm)	0.001 in (0.025 mm) 0.001 in (0.025 mm) 0.001 in (0.025 mm) 0.00012 in (0.003 mm)	Electronic calipers Electronic micrometer
	Up to 0.05 in (0.10 to 4.0) in	(3.5 to 0.01*L*) µin (1.7 to 1.2*L*) µin	Gage blocks

[1] "Best Uncertainty" is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine inspections of nearly ideal measurement standards with nearly ideal measuring equipment. Best uncertainties represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The best uncertainty of a specific test performed by the laboratory may be greater than the best uncertainty due to the behavior of the customer's test piece, to the environment and to influences from the circumstances of the specific test.

[2] In the statement of best uncertainty, L is the numerical value of the nominal length of the device measured in inches

[3] This laboratory meets the A2LA Calibration Program Requirements for the types of dimensional measurements listed above. Accredited reports issued from measurements taken under the terms of the Calibration Program Requirements and containing appropriate statements of measurement results, measurement uncertainty, and traceability are considered equivalent to a "calibration" certificate.