CERTIFICATE OF ACCREDITATION

ANSI National Accreditation Board

11617 Coldwater Road, Fort Wayne, IN 46845 USA

This is to certify that

Accu-Calibration Services, Inc.

475 Welham Road
Barrie, Ontario L4N 8Z6 Canada

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

ISO/IEC 17025:2017

while demonstrating technical competence in the field of

CALIBRATION

Refer to the accompanying Scope of Accreditation for information regarding the types of activities to which this accreditation applies

L2084-1
Certificate Number

ANAB Approval

Certificate Valid Through: 06/05/2021
Version No. 002 Issued: 05/15/2019

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).

ANSI National Accreditation Board

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Accu-Calibration Services, Inc.
475 Welham Road
Barrie, Ontario L4N 8Z6 Canada
Mike Maus
705-721-4200

CALIBRATION

Valid to: **June 5, 2021** Certificate Number: **L2084-1**

Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-) [2]	Reference Standard, Method, and/or Equipment
Height Gages – Imperial/Metric	(0 to 24) in (0 to 600) mm	(330 + 7.4*X*) µin (8.1 + 6.1*L*) µm	JIS B 7517 using MTI Check Master
Calipers – Imperial/Metric	(0 to 12) in (0 to 300) mm	(390 + 12*X*) µin (7.8 + 7*L*) µm	JIS B 7507 using MTI Caliper Checker, Gage Blocks
Outside Micrometers – Imperial/Metric	(0 to 3) in (0 to 75) mm	(36 + 6*X*) µin (0.6 + 7*L*) µm	JIS B 7502 using Gage Blocks
	(3 to 12) in (75 m to 300) mm	(77 + 15*X*) µin	
Indicators – Imperial/Metric	(0 to 2) in (0 to 50) mm	(43 + 27*X*) µin	JIS B 7503 using i-Checker
Depth Gage - Imperial/Metric	(0 to 12) in (0 to 300) mm	(430 + 14*X*) µin (8.1 + 8.4*L*) µm	JIS B 7518 using Gage Blocks
Pin Gauges: Diameter	(0.12 to 1.18) in (0.3 to 30) mm	49 µin 1.2 µm	ASME B89.1.5 using Laser Scanning Micrometer and Standard

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Torque Analyzer [1]	(6 to 60) lbf·in (5 to 50) lbf·ft (30 to 300) lbf·ft (80 to 800) lbf·ft	0.09 % of reading 0.09 % of reading 0.11 % of reading 0.13 % of reading	ASTM E2428 using Dead Weights and Torque Arm
Torque Wrench	(6 to 60) lbf·in (5 to 50) lbf·ft (30 to 300) lbf·ft (80 to 800) lbf·ft	0.32 % of reading 0.43 % of reading 0.5 % of reading 0.25 % of reading	ISO 6789:2003 using Torque Analyzer
Torque Tools [1]	(0.5 to 50) lbf·ft	3.4 % of reading	JIS B 4650 using Torque Analyzer and Joint Simulators

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. L represents the length of measurand in meters, X represents the length of the measurand in inches.
3. This scope is formatted as part of a single document including Certificate of Accreditation No. L2084-1.

Vice President