CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

IBB Technology of America, Inc.
N19 W6723 Commerce Court
Cedarburg, WI 53012

Fulfills the requirements of

ISO/IEC 17025:2017

and national standard

ANSI/NCSL Z540-1-1994 (R2002)

In the field (s) 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.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 02 January 2023
Certificate Number: AC-1253

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 AND ANSI/NCSL Z540-1-1994 (R2002)

IBB Technology of America, Inc.

N19 W6723 Commerce Court
Cedarburg, WI 53012
Lee Fletcher
262-387-1233

CALIBRATION

Valid to: **January 2, 2023** Certificate Number: **AC-1253**

Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Gage Blocks, Jo Blocks[2]	Up to 4 in	(6.2 + 1.4*L*) µin	Gage Block Comparator, Master Gage Blocks
Long Gage Blocks[2]	(4 to 20) in	(7.3 + 1.1*L*) µin	Twin-Check Linear Measuring System
Feeler Gages[2]	(0.001 to 0.5) in	(9.4 + 1.6*L*) µin	
Length Standards[2]	(0.5 to 24) in	(9.4 + 1.6*L*) µin	
Thread Plugs[2] Pitch Diameter Major Diameter	 (0.016 to 1.5) in (1.501 to 12) in (0.016 to 12) in	 (67 + 14*D*) µin (140 + 1.4*D*) µin (18 + 9.4*D*) µin	Twin-Check Linear Measuring System, Thread Wires
Thread Rings[2] Pitch Diameter Minor Diameter	 (0.07 to 12) in (0.07 to 12) in	 (170 + 1.9*D*) µin (51 + 1.5*D*) µin	Twin-Check Linear Measuring System
Thread Wires, Gear Wires	Up to 0.516 in	23 µin	Twin-Check Linear Measuring System
Cylindrical Plug, Air Plug, Hex Plug[2]	(0.006 to 24) in	(20 + 1.3*D*) µin	
Laser Micrometer Standards[2]	Up to 2 in	(20 + 1.3*D*) µin	
Micrometer Masters[2]	Up to 12 in	(20 + 1.3*D*) µin	

Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Cylindrical Rings, Air Rings[2]	(0.015 to 20) in	(19 + 1.1*D*) µin	Twin-Check Linear Measuring System
Pin Gages[2]	(0.006 to 1.001) in	(17 + 2.1*D*) µin	
Master Setting Discs[2]	(0.15 to 8.01) in	(19 + 2*D*) µin	
OD Micrometers[2]	Up to 18 in	(81 + 73*L*) µin	Grade 2 Gage Blocks
ID Micrometers[2]	(1 to 18) in	(150 + 5.7*L*) µin	Twin-Check Linear Measuring System
Test Indicators	Up to 0.06 in	(66 + 30*L*) µin	
Dial Indicators	Up to 12 in	(63 + 33*L*) µin	
Calipers[2]	Up to 20 in	(390 + 43*L*) µin	Grade 2 Gage Blocks
Height Gages[2]	Up to 24 in	(160 + 4.4*L*) µin	Grade 3 Gage Blocks
UTM[2] Linear Length Outside Diameter	 Up to 15.75 in Up to 4 in	 (76 + 2.2*L*) µin (240 + 18*D*) µin	 Gage Blocks Micrometer Master
Surface Roughness Testers	(5 to 150) µin	4.1 µin	Roughness Standard
Surface Roughness Standards	(5 to 150) µin	0.3% of reading + 2.1 µin	Roughness Tester

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Force Gages	Up to 200 lbf	0.06 % of reading + 0.17 lbf	ASTM E617 Class 7 Weights
Pressure Gages	Up to 160 psig (160 to 10 000) psig	0.13 % of reading + 1.4 psi 0.01 % of reading + 5.8 psi	Deadweight Tester
Torque Wrenches	5 to 50) lbf·in (50 to 300) lbf·in (15 to 150) lbf·ft (50 to 500) lbf·ft	1 % of reading 1 % or reading 1 % of reading 1 % of reading	Torque Transducer System

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 = length in inches; D = diameter in inches.
3. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-1253.

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