



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

PRATT AND WHITNEY MEASUREMENT SYSTEMS, INC
66 Douglas Street
Bloomfield, CT 06002
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CALIBRATION

Valid to: February 29, 2020

Certificate Number: 2629.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations and dimensional inspections¹:

I. Dimensional

Parameter/Equipment	Range	CMC ^{2,4} (±)	Comments
Laseruler	(0.5 to 7.5) in	(3.7 + 0.54L) µin	Gage blocks
Labmaster Universal Model 175	(0.5 to 6.5) in	(3.6 + 0.55L) µin	Gage blocks
Labmaster Universal Model 1000A	Up to 40 in	(3.6 + 0.55L) µin	Gage blocks, force gages
Labmaster Universal Model 1000M	Up to 40 in	(3.6 + 0.55L) µin	Gage blocks, force gages
Labmaster Standard	(0.5 to 7.5) in	(3.7 + 0.54L) µin	Gage blocks
Labmicrometer	(0.5 to 7.5) in	(3.9 + 0.53L) µin	Gage blocks

Parameter/Equipment	Range	CMC ^{2,4} (±)	Comments
Universal Supermicrometer Model 501 ³ and Model 504 ³	Up to 2 in	6.1 μin	Gage blocks
Supermicrometer Model C ³	Up to 1 in	17 μin	Gage blocks
Supermicrometer Model B ³	Up to 1 in	19 μin	Gage blocks
Digital Measuring Machine – Lead Screw ³ Machine Button Bar	Up to 1 in (1 to 20) in	17 μin (55 + 0.54L) μin	Gage blocks
Standard Measuring Machine – Lead Screw ³ Machine Button Bar	Up to 1 in (1 to 20) in	19 μin (56 + 0.53L) μin	Gage blocks
Plain Cylindrical Ring Gages	(0.020 to 14) in	(6.2 + 0.57L) μin	Labmaster Universal
Calibration of Ball Bars	(4 to 81) in	(12 + 0.78L) μin	Gage blocks, Labmaster Universal
Calibration of Long Gage Blocks	(4 to 20) in (20 to 40) in	(6.9 + 0.77L) μin (6.6 + 0.84L) μin	LMU 1000A, LMU 1000M, gage blocks
Electro-Limit Indicator	(0.100 to 0.110) in	3.4 μin	Gage blocks

II. Mechanical

Parameter/Equipment	Range	CMC ² (±)	Comments
Force System – Fixed Points ³ , Labmaster Universal, Laser Measuring Machine, Digital Measuring Machine, Standard Measuring Machine, Supermicrometer Model C, Supermicrometer Model B	-8 ozf -2 ozf 2 ozf 8 ozf 16 ozf 24 ozf 32 ozf 40 ozf	0.07 ozf 0.05 ozf 0.05 ozf 0.07 ozf 0.12 ozf 0.17 ozf 0.22 ozf 0.27 ozf	Force gage

¹ This laboratory offers commercial and field 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 Field calibration service is available for this calibration and this laboratory meets A2LA R104 – *General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these calibrations. Please note the actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the CMC found on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the actual uncertainty introduced by the item being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the actual measurement uncertainty achievable on a customer's site being larger than the CMC.

⁴ In the statement of the CMC, L is the numerical value of the nominal length of the device measured in inches.



Accredited Laboratory

A2LA has accredited

PRATT & WHITNEY MEASUREMENT SYSTEMS, INC.

Bloomfield, CT

for technical competence in the field of

Calibration

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 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 11th day of May 2018.

A handwritten signature in black ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 2629.01
Valid to February 29, 2020

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