



THE AMERICAN ASSOCIATION FOR
LABORATORY ACCREDITATION

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 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 18 June 2005*).



Presented this 8th day of January 2008.

A handwritten signature in cursive script, reading "Peter Abney".

President
For the Accreditation Council
Certificate Number 2629.01
Valid to February 28, 2010

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

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

PRATT AND WHITNEY MEASUREMENT SYSTEMS, INC
66 Douglas Street
Bloomfield, CT 06002
Matthew Noonan Phone: 800 371 7174 ext. 440

CALIBRATION

Valid to: February 28, 2010

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	Best Uncertainty ^{2,3} (\pm)	Comments
Laseruler	(0.5 to 7.5) in	(2.3 + 1.0L) μ in	Gage blocks
Labmaster Universal	(0.5 to 6.5) in	(2.3 + 1.0L) μ in	Gage blocks
Labmaster Standard	(0.5 to 7.5) in	(2.3 + 1.0L) μ in	Gage blocks
Labmicrometer	(0.5 to 7.5) in	(2.3 + 1.0L) μ in	Gage blocks
Universal Supermicrometer ⁴	(0 to 2) in	5.8 μ in	Gage blocks
Supermicrometer Model C ⁴	(0 to 1) in	15 μ in	Gage blocks
Supermicrometer Model B ⁴	(0 to 1) in	18 μ in	Gage blocks

Parameter/Equipment	Range	Best Uncertainty ^{2,3} (\pm)	Comments
Digital Measuring Machine – Lead Screw Machine Button Bar	(0 to 1) in (1 to 20) in	15 μ in (49 + 0.8L) μ in	Gage blocks
Standard Measuring Machine – Lead Screw Machine Button Bar	(0 to 1) in (1 to 20) in	18 μ in (49 + 0.8L) μ in	Gage blocks
Plain Cylindrical Ring Gages	(0.020 to 1) in (1 to 14) in	6.5 μ in (3.5 + 0.8L) μ in	Labmaster Universal

II. Mechanical

Parameter/Equipment	Range	Best Uncertainty ² (\pm)	Comments
Labmaster Universal Force System ⁴ – Fixed Points	2 ozf 8 ozf 16 ozf 24 ozf 32 ozf 40 ozf	0.17 ozf 1.4 ozf 1.5 ozf 1.7 ozf 1.8 ozf 2.0 ozf	Force gage

Parameter/Equipment	Range	Best Uncertainty ² (\pm)	Comments
Labmicrometer Force System ⁴ – Fixed Points	-8 ozf -2 ozf 2 ozf 8 ozf 16 ozf 24 ozf 32 ozf 40 ozf	0.22 ozf 0.10 ozf 0.10 ozf 0.22 ozf 0.41 ozf 0.60 ozf 0.80 ozf 1.0 ozf	Force gage
Laser Measuring Machine Force System ⁴ – Fixed Points	2 ozf 8 ozf 16 ozf 24 ozf 32 ozf 40 ozf	0.17 ozf 1.4 ozf 1.5 ozf 1.7 ozf 1.8 ozf 2.0 ozf	Force gages

¹ This laboratory offers commercial and field calibration service.

² “Best Uncertainty” 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 of 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 calibration performed by the laboratory may be greater than the best uncertainty due to the behavior of the customer’s device, to the environment and to influences from the circumstances of the specific calibration.

³ In the statement of best uncertainty, L is the numerical value of the nominal length of the device measured in inches.

⁴ 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 uncertainties achievable on a customer's site can normally be expected to be larger than the Best Measurement Capabilities (BMC) that the accredited laboratory has been assigned as Best Uncertainty 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 uncertainty introduced by the item being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the calibration uncertainty being larger than the BMC.