SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017
AND ANSI/NCSL Z540-1-1994

AALBERTS IPSA INC.
1418 S. Pearl Street
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CALIBRATION

Valid To: March 31, 2027 Certificate Number: 1736.01

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the organization's compliance with R205 – A2LA's Calibration Program Requirements), accreditation is granted to this laboratory to perform the following calibrations[1, 4]:

I. Dimensional

Parameter/Equipment	Range	CMC[2, 3] (±)	Comments
Adjustable Thread Rings –			
Pitch Diameter	Up to 10 in	(X Class Set Plug Tolerance)	Master set plugs
Tapered Thread Rings	Up to 6 in	400 µin	Master plug & indicator
Straight Thread Plugs –			
Pitch Diameter	Up to 10 in (10 to 20) in	(99 + 1.2*D*) µin (94 + 2.1*D*) µin	3-wire measurement thread wires
Major Diameter (Thread Plugs)	Up to 10 in (10 to 20) in	(36 + 2.7*D*) µin (36 + 3*D*) µin	Universal measuring machine
Micrometer Length Standards	Up to 10 in (10 to 20) in	(51 + 2.2*L*) µin (48 + 2.8*L*) µin	Universal measuring machine

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Parameter/Equipment	Range	CMC[2, 3] (±)	Comments
Tapered Thread Plugs –			
Pitch Diameter, Major Diameter	Up to 6 in	210 µin	3-wire measurement, thread wires, sine block, universal measuring machine
Thread Wires –			
Threads Per Inch	(4 to 80) TPI	17 µin	Universal measuring machine, over a roll
Cylindrical Measure – Outside Diameter	Up to 10 in (10 to 20) in	(29 + 2.9*D*) µin (31 + 3.1*D*) µin	Universal measuring machine
Cylindrical Measure – Inside Diameter	Up to 8 in (8 to 16) in	(38 + 2.4*D*) µin (47 + 2.6*D*) µin	Universal measuring machine & ring
Bore Gages –			
3-Point Contact	Up to 6 in	(130 + 4*D*) µin	Setting rings
Height Gages	Up to 36 in	(480 + 0.9*L*) µin	Gage blocks
Micrometers –			
Outside	Up to 12 in (12 to 30) in	(100 + 1.2*L*) µin (370 + 1*L*) µin	Gage blocks
Depth	Up to 12 in	(100 + 1*L*) µin	Gage blocks
Inside	(0.5 to 20) in	0.60*R*	Universal measuring machine
Gage Blocks	< 0.100 in (0.100 to 4) in (> 4 to 20) in	6.7 µin (5.7 + 1.2*L*) µin (6.5 + 1.6*L*) µin	By mechanical comparison
Calipers	Up to 20 in (20 to 48) in	0.60*R* 0.70*R*	Gage blocks

Parameter/Equipment	Range	CMC[2, 3] (±)	Comments
Indicators	Up to 4 in	0.60*R*	Universal measuring machine

II. Mechanical

Parameter/Equipment	Range	CMC[2] (±)	Comments
Torque Wrenches & Torque Multipliers	(0.5 to 400) ozf·in (4 to 1000) lbf·in (20 to 250) lbf·ft (100 to 1100) lbf·ft	2.8 ozf·in 2.9 lbf·in 2.4 lbf·ft 4.1 lbf·ft	CDI torque tester
Pressure Gages	Up to 300 psig Up to 10 000 psig Up to 15 000 psig Up to 3000 psig Up to 3000 psig Up to 10 000 psig Up to 15 000 psig	0.1 psig 2.5 psig 3.9 psig 0.6 psig 1.2 psig 2.9 psig 7.1 psig	Crystal digital test gage Pace 5000 Comparator

[1] This laboratory offers commercial 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. CMC's 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] In the statement of CMC, *L* is the numerical value of the nominal length of the device measured in inches, *D* is the numerical value of the diameter of the device measured in inches, and *R* is the numerical value of the resolution of the device.

[4] This scope meets A2LA's *P112 Flexible Scope Policy*.

Accredited Laboratory

A2LA has accredited

AALBERTS IPSA INC.

Pageland, SC

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of ANSI/NCSL Z540-1-1994 and 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 2nd day of April 2025.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1736.01
Valid to March 31, 2027

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