



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

ILIKON
100 West Park Ave., Suite 303B
Long Beach, NY 11561
Yefim Kats Phone: 516 897-1955

CALIBRATION

Valid To: July 31, 2021

Certificate Number: 4289.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations^{1,6}:

I. Dimensional

| Parameter/Equipment | Range | CMC ^{2,4} (\pm) | Comments ⁵ |
|---------------------------------------|-----------------------------------|--------------------------------|--|
| Gage Blocks | Up to 1 in 1 to 4 in | 7.9 μ in 13 μ in | Mechanical comparison with reference blocks |
| Calipers ³ | (4 to 24) in | $(39 + 1.6L + 0.60R)$ μ in | Gage blocks |
| Micrometers ³ – Outside | Up to 12 in | $(15 + 1.7L + 0.60R)$ μ in | Gage blocks |
| Indicators – Dial/Digital | Up to 1 in | 38 μ in | Gage blocks |
| Pin Gages – ZZ Tolerance | Up to 1 in | 22 μ in | Pratt & Whitney Supermicrometer TM |
| Plug Gages – Plain Cylindrical | Up to 1.5 in | 14 μ in | Comparator |
| Ring Gages – Plain Cylindrical | (0.04 to 3.0) in (>3 to 10) in | 25 μ in 42 μ in | Comparator |

| Parameter/Equipment | Range | CMC ^{2, 4} (\pm) | Comments ⁵ |
|--|--|--|--|
| Threaded Plugs – Major Diameter Pitch Diameter | Up to 1.5 in (1.5 to 5) in Up to 1.5 in (1.5 to 5) in | 50 μ in 70 μ in 120 μ in 130 μ in | Pratt & Whitney Supermicrometer™ |
| Thread Wires (1-Wire) | Up to 0.26 in | 21 μ in | ULM |
| Surface Plates ³ Flatness Repeat | (16 to 60) in Diagonal | 19 $\sqrt{\text{Dia}}$ 26 μ in | Autocollimator repeat-o-meter NOTE: Dia is diagonal in inches |

II. Mechanical

| Parameter/Equipment | Range | CMC ² (\pm) | Comments |
|--|---|---|-----------------|
| Indirect Verification of Rockwell Hardness Testers ³ | HRBW: (30 to 40) HRC (55 to 65) HRC (85 to 95) HRC HRC: (20 to 30) HRC (35 to 55) HRC (55 to 65) HRC | 0.84 HRBW 0.42 HRBW 0.63 HRBW 0.54 HRC 0.42 HRC 0.45 HRC | Hardness blocks |

¹ This laboratory offers commercial calibration service 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 CMC, *L* is the numerical value of the nominal length of the device measured in inches; *R* is the numerical value of the resolution of the device in the indicated units.

⁵ "Supermicrometer" is a registered trade mark with a last listed owner of Pratt & Whitney Measurement Systems, Inc., Connecticut, U.S.A.

⁶ This scope meets A2LA's *P112 Flexible Scope Policy*.



Accredited Laboratory

A2LA has accredited

ILIKON

Long Beach, NY

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 13th day of May 2019.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4289.01
Valid to July 31, 2021

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