



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005  
& ANSI/NCSL Z540-1-1994 & ANSI/NCSL Z540.3-2006

ROBB PRECISION TOOL SERVICES, INC.  
2100 196th St SW, Suite 144  
Lynnwood, WA 98036  
Robert Robb Phone: 425 672 7307

CALIBRATION

Valid To: September 30, 2017

Certificate Number: 2557.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations<sup>1</sup>:

I. Dimensional

Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
Inside, Outside, and Bore Micrometers	Up to 1 in	70 µin	Gage blocks and optical flat
Dial and Digital Indicators	Up to 2 in	590 µin	Dial gage checker
Optical Comparators – Linear Scale Table Flatness Angular Measurement	Up to 12 in	80 µin 53 µin 52 µin	Magnification checker
Dial, Vernier, and Digital Calipers	Up to 6 in	350 µin	Gage blocks

## II. Mechanical

Parameter/Equipment	Range	CMC <sup>2, 4</sup> (±)	Comments
Torque Wrenches <sup>3</sup>	(2.5 to 50) in•lbf (50 to 400) in•lbf (400 to 1000) in•lbf (25 to 250) ft•lbf (251 to 600) ft•lbf (601 to 1000) ft•lbf (1001 to 2000) ft•lbf	0.25 % IV 0.34 % IV 0.27 % IV 0.33 % IV 0.24 % IV 0.32 % IV 0.38 % IV	CDI torque loader and load cells  AKO torque loader and load cell
Torque Screwdrivers <sup>3</sup>	(2.5 to 40) in•lbf	1.2 % IV	CDI torque loader and load cells
Torque Testers, Transducers	(2.5 to 1000) in•lbf (25 to 250) ft•lbf (251 to 2000) ft•lbf	0.12 % IV 0.07 % IV 0.23 % IV	Movement arms, certified weights

<sup>1</sup> This laboratory offers commercial calibration and field calibration services.

<sup>2</sup> 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.

<sup>3</sup> 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.

<sup>4</sup> In the statement of CMC, IV stands for indicated value.





## Accredited Laboratory

A2LA has accredited

### **ROBB PRECISION TOOL SERVICES, INC.**

Lynnwood, WA

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 the requirements of ANSI/NCSLI Z540-1-1994 and the requirements of ANSI/NCSLI Z540.3-2006 and 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 8 January 2009*).



Presented this 21<sup>st</sup> day of August 2015.

A handwritten signature in black ink, appearing to read "L. J. ...".

President & CEO  
For the Accreditation Council  
Certificate Number 2557.01  
Valid to September 30, 2017  
Revised July 26, 2017

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