



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

STEWARTS USA
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Houston, TX 77061
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CALIBRATION

Valid To: June 30, 2017

Certificate Number: 3677.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations¹:

I. Dimensional

Parameter	Range	CMC ^{2,3,4} (±)	Comments
Dial Indicators	(0.05 to 4) in	32 µin + 0.014 %	Gage blocks
Micrometers & Calipers	(0.05 to 6) in	34 µin + 5.6L µin	Gage blocks

II. Mechanical

Parameter	Range	CMC ^{2,4} (±)	Comments
Pressure – Generate/Measure (1 to 30 000) psi	(1 to 30 000) psi	0.014 % + 0.93 psi	DHI RPM4-E-DWT
	(1 to 20) psi (20 to 100) psi	0.092 psi 0.081 psi	Honeywell AKX100GT
	(1 to 150) psi (150 to 750) psi	1.0 psi 0.77 psi	Honeywell AKX750GT

Parameter	Range	CMC ^{2,4} (±)	Comments
Pressure – Generate/Measure (Cont.) (1 to 30 000) psi	(1 to 2000) psi (2000 to 10 000) psi	3.0 psi 0.086 % + 1.4 psi	Crystal Pressure 10KSIXP2I
	(1 to 3000) psi (3000 to 15 000) psi	3.8 psi 0.095 % + 0.8 psi	Crystal Pressure 15KSIXP2I
	(15 000 to 30 000) psi	120 psi	Honeywell JHT40KGT
Torque Measure – (4 to 2000) ft-lbf	(4 to 50) in·lbf (50 to 400) in·lbf (400 to 1000) in·lbf (80 to 250) ft·lbf	0.23 % + 0.013 in·lbf 0.18 % + 0.03 in·lbf 0.19 % + 0.11 in·lbf 0.26 % + 0.014 ft·lbf	Snap-on TTC810 w/ TTC400
	(250 to 600) ft·lbf	0.21 % + 0.033 ft·lbf	Snap-on TTC810 w/ TTC12
	(600 to 2000) ft·lbf	0.24 % + 0.29 ft·lbf	Snap-on TTC810 w/ TTC14

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

⁴ In the statement of CMC, percentages are percentage of reading, unless otherwise indicated.



Accredited Laboratory

A2LA has accredited

STEWARTS USA

Houston, TX

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/NCSL Z540-1-1994 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 15th day of March, 2016.



A handwritten signature in blue ink, reading "Jim C. Bunt".

Senior Director of Quality and Communications
For the Accreditation Council
Certificate Number 3677.02
Valid to June 30, 2017

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