# SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005 <br> \& ANSI/NCSL Z540-1-1994 

STEWARTS USA
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## CALIBRATION

Valid To: June 30, 2019
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 calibrations ${ }^{1}$ :
I. Dimensional

| Parameter/Equipment | Range | $\mathrm{CMC}^{2,4}( \pm)$ | Comments |
| :---: | :---: | :---: | :---: |
| Dial Indicators | (0.01 to 0.5) in | $23 \mu \mathrm{in}+27.2 L \mu \mathrm{in}$ | Gage blocks <br> Mic Trac ULM/UMM |
| Micrometers | $\begin{aligned} & (0.05 \text { to } 1) \text { in } \\ & (1.0 \text { to } 36) \text { in } \end{aligned}$ | $\begin{aligned} & 55 \mu \mathrm{in}+7.6 L \mu \mathrm{in} \\ & 57 \mu \mathrm{in}+8.8 L \mu \mathrm{in} \end{aligned}$ | Gage blocks <br> Mic Trac ULM/UMM |
| Calipers | Up to 6 in (1.0 to 36) in | $\begin{aligned} & 120 \mu \mathrm{in}+8.7 L \mu \mathrm{in} \\ & 120 \mu \mathrm{in}+0.65 L \mu \mathrm{in} \end{aligned}$ | Gage blocks <br> Mic Trac ULM/UMM |

II. Mechanical

| Parameter/Epuipment | Range | $\mathrm{CMC}^{2,4}( \pm)$ | Comments |
| :--- | :---: | :---: | :---: |
| Pressure- <br> Generate/Measure | $(1$ to 30 000) psi | $(0.94+0.00014 P)$ psi | DHI RPM4-E-DWT |



| Parameter/Equipment | Range | $\mathrm{CMC}^{2,4}( \pm)$ | Comments |
| :---: | :---: | :---: | :---: |
| Torque Measure - | (4 to 50) in $\cdot \mathrm{lbf}$ (50 to 400) in $\cdot \mathrm{lbf}$ (400 to 1000) in•lbf (80 to 250) ft•lbf <br> (250 to 600) ft•lbf <br> (600 to 2000) $\mathrm{ft} \cdot \mathrm{lbf}$ | $0.23 \%+0.013 \mathrm{in} \cdot \mathrm{lbf}$ <br> $0.18 \%+0.03$ in $\cdot \mathrm{lbf}$ <br> $0.19 \%+0.11 \mathrm{in} \cdot \mathrm{lbf}$ <br> $0.26 \%+0.014 \mathrm{ft} \cdot \mathrm{lbf}$ <br> $0.21 \%+0.033 \mathrm{ft} \cdot \mathrm{lbf}$ <br> $0.24 \%+0.29 \mathrm{ft} \cdot \mathrm{lbf}$ | Snap-on TTC810 w/ TTC400 <br> Snap-on TTC810 w/ TTC12 <br> Snap-on TTC810 w/ TTC14 |

## III. Thermodynamic

| Parameter/Equipment | Range | $\mathrm{CMC}^{2,4}$ | Comments |
| :---: | :---: | :---: | :---: |
| Temperature - <br> Measure \& Measuring Equipment | $\begin{aligned} & (-15 \text { to } 100)^{\circ} \mathrm{C} \\ & (100 \text { to } 350)^{\circ} \mathrm{C} \end{aligned}$ | $\begin{aligned} & 0.24^{\circ} \mathrm{C}+0.6 R \\ & 0.003^{\circ} \mathrm{C}+0.0018^{\circ} \\ & \mathrm{C} /{ }^{\circ} \mathrm{C}+0.6 R \end{aligned}$ | Fluke temperature stik 1552a, Fluke 9009 dry well / bath |

${ }^{1}$ 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. 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, percentages are percentage of reading, unless otherwise indicated.
${ }^{4}$ In the statement of CMC, $L$ is the numerical value of the nominal length of the device measured in inches. $R$ represents the resolution of the unit calibrated. $P$ represents the pressure measured.



# Accredited Laboratory 

A2LA has accredited

## STEWARIS USA

## Houston, TX

fortechnical competence in the field of

## Calibration

This laboratory is accredited in accordance with the recognized Intemational Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. This laboratory also meets the requirements of ANSI/NCSL $\mathbf{Z 4 0 - 1}-1994$ and R205 - Specific Requirements: C alibration Laboratory Accreditation Program. This acc reditation demonstratestechnical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 J anuary 2009).


Presented this 16 th day of August 2017.


President and CEO
For the Accreditation Council
Certific ate Number 3677.02
Valid to J une 30, 2019

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

