SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

KING MECHANICAL SPECIALTY
406 Third Street
Newburgh, IN 47630
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CALIBRATION

Valid To: October 31,2023 Certificate Number: 3125.01

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. Electrical – DC/Low Frequency

| Parameter/Equipment | Range | CMC[2, 4] (±) | Comments |
|---|---|---|---|
| DC Current – Measure | (4 to 20) mA | 0.064 mA | Fluke 45 DVM |

II. Mechanical

| Parameter/Equipment | Range | CMC[2, 5] (±) | Comments |
|---|---|---|---|
| Pressure – Pneumatic Gauge, Negative Gauge | (0 to 15) psiv<br><br>(0 to 5) psig<br>(0 to 30) psig<br>(0 to 100) psig<br>(0 to 300) psig<br>(0 to 1000) psig<br>(0 to 5000) psig | 0.0076 psiv<br><br>0.0021 psig<br>0.022 psig<br>0.039 psig<br>0.12 psig<br>0.43 psig<br>2.0 psig | Heise PTE-1 and HQS modules |


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| Parameter/Equipment | Range | CMC[2, 3] (±) | Comments |
|---|---|---|---|
| Torque Wrenches | (5 to 50) lbf·in<br>(20 to 200) lbf·in<br>(10 to 100) lbf·ft<br>(25 to 250) lbf·ft | 1.4 %<br>1.2 %<br>1.2 %<br>1.2 % | CDI torque analyzer and transducers |

[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 to be read as percent of reading unless otherwise noted.

[4] The stated measured values are determined using the indicated instrument (see Comments). This capability is suitable for the calibration of the devices intended to measure or generate the measured value in the ranges indicated. CMC's are expressed as either a specific value that covers the full range or as a percent or fraction of the reading plus a fixed floor specification.

[5] The type of instrument or material being calibrated is defined by the parameter. This indicates the laboratory is capable of calibrating instruments that measure or generate the values in the ranges indicated for the listed measurement parameter.

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

# Accredited Laboratory

A2LA has accredited

## KING MECHNICAL SPECIALTY

*Newburgh, IN*

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 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 27th day of January 2022.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3125.01
Valid to October 31,2023
Revised on September 20, 2023

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