The American Association for Laboratory Accreditation

World Class Accreditation

Accredited Laboratory

A2LA has accredited

J.A. KING & COMPANY, LLC

Greensboro, NC

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 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 31st day of March 2009.

President & CEO
For the Accreditation Council
Certificate Number 1741.03
Valid to May 31, 2011
Revised: January 21, 2010

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

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SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

J. A. KING & COMPANY, LLC.
One Mercedes Drive
Vance, AL 35490
Connie B. Foster Phone: 800 327 7727

CALIBRATION

Valid To: May 31, 2011 Certificate Number: 1741.03

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	CMC[2, 4] (±)	Comments
Height Gages[3], Micrometers[3], and Calipers[3]	Up to 6 in (6 to 24) in	$(5.6 + 13L + 0.6R)$ µin $(7.3 + 9.5L + 0.6R)$ µin	Gage blocks
Linear Indicators[3] – Dial & Test	Up to 2 in	$(6 + 12L + 0.6R)$ µin	Gage blocks
Gap Gages[3]	Up to 6 in	0.0015 in	Mitutoyo 500-196

II. Mechanical

Parameter/Equipment	Range	CMC[2] (±)	Comments
Torque[3] – Click, Adjustable, Dial and Screwdriver Wrenches	(2 to 180) N·m	1.4 % FS	Crane transducer

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Parameter/Equipment	Range	CMC[2] (±)	Comments
Torque Testers[3] & Transducer[3]	Up to 250 ft·lbs	0.3 % of Rdg	Class F weights and torque arms
Pressure[3]	(0.5 to 100) psig	0.75 % FS	Fluke 717

[1] This laboratory offers commercial calibration services and field calibration services.

[2] Calibration and Measurement Capability (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. Calibration and Measurement Capabilities 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. In the statement of best uncertainty, R is the numerical value of the resolution of the device in microinches.