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

STURTEVANT RICHMONT DIVISION OF RYESON CORP.
555 Kimberly Drive
Carol Stream, IL 60188
John L. Reynertson Phone: 847 455 8677 x 8004

CALIBRATION

Valid To: June 30, 2015 Certificate Number: 2036.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations[1]:

I. Mechanical

Parameter/Equipment	Range	CMC[2, 3] (±)	Comments
Torque –			
Torque Wrench Digital	2.5 in·ozf to 24 000 in·lbf	0.33 % of IV	Calibrations performed using "in-house" procedures based on ASME, ISO and SAE methods with load cells and torque testers
Torque Wrench Beam –	2.5 in·ozf to 12 000 in·lbf	0.70 % of IV	
@ 20 % Test Point		0.87 % of IV	
Torque Wrench Dial	2.5 in·ozf to 24 000 in·lbf	0.66 % of IV	
Torque Wrench Clicker	2.5 in·ozf to 24 000 in·lbf	0.66 % of IV	
Torque Screwdriver	2.5 in·ozf to 40 in·lbf	0.8 % of IV	
Torque Testers	(2.5 to 25) in·ozf (26 to 80) in·ozf (5 to 300) in·lbf (301 to 24 000) in·lbf	0.064 % of IV 0.044 % of IV 0.026 % of IV 0.021 % of IV	Calibrations performed using "in-house" procedures based on ASME B107.300, ASTM E2624 and ASTM E2428 with dead weights and calibration arms

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[1] Commercial calibration service is sometimes available for this laboratory.

[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] In the statement of CMC, IV represent the indicated value.

American Association for Laboratory Accreditation

Accredited Laboratory

A2LA has accredited

STURTEVANT RICHMONT
DIVISION OF RYESON CORP.

Carol Stream, IL

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 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 12th day of August 2013.

President & CEO
For the Accreditation Council
Certificate Number 2036.01
Valid to June 30, 2015

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