



CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

Encore Systems, Inc.
90 Mosier Parkway
Brookville OH 45309

has been assessed by ANAB
and meets the requirements of international standard

ISO/IEC 17025:2005

and national standard

ANSI/NCSL Z540-1-1994

while demonstrating technical competence in the field of

CALIBRATION

Refer to the accompanying Scope of Accreditation for information regarding the types of calibrations to which this accreditation applies.

AC-1140

Certificate Number


ANAB Approval

Certificate Valid: 10/11/2016-09/08/2018
Version No. 003 Issued: 10/11/2016



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. 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 January 2009).



ANSI-ASQ National Accreditation Board

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

Encore Systems, Inc.

90 Mosier Parkway, Brookville, Ohio 45309

Chip Share Phone: 937-833-4469

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Satellite Location

Libramiento Politecnico #116, Ampliacion Los Angeles, Salamanca, Guanajuato, MEX 36782

CALIBRATION

Valid to: September 8, 2018

Certificate Number: AC-1140

I. Mechanical

Parameter/ Equipment	Range	Calibration and Measurement Capability [Expressed as Uncertainty(±)]	Reference Standard or Equipment	Methods
Hand Torque Wrench ³	(0 to 250) lbf-in (0.2 to 1 000) lbf-ft	0.19 % of full scale 0.15 % of full scale	Signal Conditioner, Precision Transducer, Dead Weight Fixture, Multimeter, Precision Power Supply	OEM and SOP-5.6.2.1-4
Torque Transducers	(0 to 250) lbf-in (0.2 to 1 100) lbf-ft	0.02 % of full scale 0.03 % of full scale	Multimeter, Precision Power Supply, Dead Weight Fixture	OEM and SOP-5.6.2.1-3
Air Tools-Transducer ³	(0.05 to 1 000) lbf-ft	0.09 % of full scale	Signal Conditioner, Precision Transducer	OEM and SOP-5.6.2.1-9
DC Power Tools ³ DC Power Tools ⁴	(0.05 to 1 000) lbf-ft (0.05 to 300) lbf-ft	0.14 % of full scale	Signal Conditioner, Precision Transducer	OEM and SOP-5.6.2.1-1
Controllers and Signal Conditioners	(0.05 to 1 000) lbf-ft (Up to 100 % full scale)	0.04 % of full scale	Multimeter, Precision Power Supply, Precision Transducer, Dead Weight fixture	OEM and SOP-5.6.2.1-2
Pressure	(0 to 900) mm HgA (0 to 36) psig (0 to 300) psig (50 to 100) psig (100 to 1 000) psig	0.18 mm Hg 0.02 psi 0.17 psi 0.03 psi 0.03 % of reading	Manometer, Pressure Calibrator, Pressure Calibrator, Dead Weight Calibrator	OEM and SOP-5.6.2.1-5



II. Dimensional

Parameter/ Equipment	Range	Calibration and Measurement Capability [Expressed as Uncertainty(\pm)]	Reference Standard or Equipment	Methods
Height Gages	Up to 24 in	209 μ in	Gage Blocks, Length Standards	OEM and SOP-5.6.2.1-6
Micrometers	Up to 12 in	205 μ in	Gage Blocks, Length Standards, Optical Flats	OEM and SOP-5.6.2.1-6
Calipers	Up to 12 in	851 μ in	Gage Blocks, Length Standards	OEM and SOP-5.6.2.1-6
Indicators	Up to 6 in	137 μ in	Gage Blocks, Length Standards	OEM and SOP-5.6.2.1-6
Depth Gages	Up to 12 in	199 μ in	Gage Blocks, Length Standards	OEM and SOP-5.6.2.1-6
Gap Gages	Up to 12 in	199 μ in	Gage Blocks	OEM and SOP-5.6.2.1-6
Rulers	Up to 50 ft	0.0120 in	Calipers	OEM and SOP-5.6.2.1-6

III. Time and Frequency

Parameter/ Equipment	Range	Calibration and Measurement Capability [Expressed as Uncertainty(\pm)]	Reference Standard or Equipment	Methods
Time	(0 to 7 200) s	0.3 s	NIST Standard Clock	OEM and SOP-5.6.2.1-7

Notes:

1. Calibration and Measurement Uncertainties (Expanded Uncertainties) are based on approximately a 95% confidence interval, using a coverage of $k=2$.
2. The listed uncertainties are based on calibrations done under laboratory conditions. Calibrations done at our customer's sites typically have greater uncertainties than listed in this scope.
3. Capabilities denoted are available for on-site calibration activity.
4. This organization maintains a satellite organization, point of contact is Aldo Molina Patino Email: amolina@k-and-s.com, phone: 01152 464 1133 134. Calibration parameters marked with a superscript (4) are available at the Satellite location.
5. This scope is formatted as part of a single document including the Certificate of Accreditation No.AC-1140.



 Vice President