



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

**Eastern Pneumatics & Hydraulics Inc.,
A division of McCann Equipment Ltd.
40 Lowell Road, Unit #3
Salem, NH 03079**

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

CALIBRATION

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

A handwritten signature in black ink, appearing to read 'R. Douglas Leonard Jr.', is positioned above a horizontal line.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 29 June 2021
Certificate Number: L2097.05-1



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
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).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Eastern Pneumatics & Hydraulics Inc., A division of McCann Equipment Ltd.

40 Lowell Road, Unit #3
Salem, NH 03079

Kathy McCann-Quart 603-893-7662

CALIBRATION

Valid to: **June 29, 2021**

Certificate Number: **L2097.05-1**

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Adjustable Hand Torque Wrenches	(0.6 to 100) lbf-in (8 to 50) lbf-ft (50 to 250) lbf-ft (250 to 750) lbf-ft (750 to 2 000) lbf-ft	0.79 % of applied load 0.71 % of applied load 0.7 % of applied load 0.71 % of applied load 1.1 % of applied load	McCann procedure based on ISO 6789:2017 with Electronic Transducer, Display Unit and ISO loader
Dial Indicating Hand Torque Wrenches	(0.6 to 15) lbf-in (15 to 600) lbf-in (50 to 250) lbf-ft (250 to 600) lbf-ft (600 to 2 000) lbf-ft	0.66 % of applied load 0.64 % of applied load 0.59 % of applied load 0.78 % of applied load 0.84 % of applied load	
Electronic Measurement Hand Torque Wrenches	(0.2 to 250) lbf-ft (250 to 600) lbf-ft (600 to 750) lbf-ft (750 to 1 000) lbf-ft	0.68 % of applied load 0.61 % of applied load 0.55 % of applied load 0.52 % of applied load	
Torque Limiting Screwdrivers	(0.6 to 10) lbf-in (10 to 80) lbf-in (80 to 130) lbf-in	1.2 % of applied load 0.82 % of applied load 0.88 % of applied load	McCann procedure based on ISO 6789:2017 with Electronic Transducer and Display Unit
Pneumatic Torque Tools	(0.4 to 10 000) lbf-ft	1.1 % of applied load	McCann Procedure with Electronic Transducer and Display Unit
Hydraulic Torque Tools	(127 to 5 000) lbf-ft (5 000 to 10 000) lbf-ft	0.79 % of applied load 0.83 % of applied load	
Electronic Torque Tools (Clutch Type)	(1.5 to 110) lbf-in	1.1 % of applied load	
Electronically Controlled Torque Tools	(100 to 6 700) lbf-ft	0.97 % of applied load	

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Hand Torque Multipliers	(127 to 5 000) lbf-ft (5 000 to 10 000) lbf-ft	2.2 % of applied load 3.9 % of applied load	McCann Procedure with Electronic Transducers and Display Units
Torque Tester	(1.5 to 750) lbf-ft	0.53 % of applied load	McCann Procedure with Electronic Transducer, Display Unit and ISO Loader
Bolt Tension Meter	(200 to 10 000) lbf	0.54 % of applied load	Skidmore J: Load Cell and Display
	(1 000 to 30 000) lbf	0.55 % of applied load	Skidmore J: Load Cell and Display
	(2 000 to 110 000) lbf	0.66 % of applied load	Skidmore M, ML, RL, RJ: Load Cell and Display
	(1 000 to 126 000) lbf	0.54 % of applied load	Skidmore MZ: Load Cell and Display
	(2 000 to 170 000) lbf	0.66 % of applied load	Skidmore H & HS: Load Cell and Display
Hydraulic Bolt Tensioners	(8 to 880) kN	0.75 % of applied pressure	McCann Procedure with Bolt Load Meter
Hydraulic Cylinders	(0.5 to 100) sh.tn.	0.13 % of applied load	McCann Procedure with Load Cell and Display
Pneumatic Pressure Gauge	(0.1 to 300) psig	0.38 % of reading	ASME B40.100 with Additel Digital Tester

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 ($k=2$), corresponding to a confidence level of approximately 95%.

Notes:

1. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope
2. This scope is formatted as part of a single document including Certificate of Accreditation No. L2097.05-1.



R. Douglas Leonard Jr., VP, PILR SBU