



CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

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

This is to certify that

McCann Equipment Ltd.
10255 Côte de Liesse
Dorval, QC H9P 1A3

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

ISO/IEC 17025:2005

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.

L2097-1
Certificate Number


ANAB Approval

Certificate Valid: 05/03/2018-06/29/2019
Version No. 003 Issued: 05/03/2018



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 April 2017).



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

McCann Equipment Ltd.

10255 Côte de Liesse
 Dorval, QC, H9P 1A3
 Kathy McCann-Quart 514-636-6344

CALIBRATION

Valid to: **June 29, 2019**

Certificate Number: **L2097-1**

Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Torque Indicator and Display Units	(0.01 to 15.75) V (0.5 to 20) mA	0.01 % of reading	Electronic Transducer and Display Unit per McCann procedures

Mass

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	ISO 6789:2003 with Electronic Transducer and Display Unit with ISO loader per McCann procedures
Dial 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	ISO 6789:2003 with Electronic Transducer and Display Unit with ISO loader per McCann procedures
Digital Hand Torque Wrenches	(0.2 to 250) lbf·ft (250 to 600) lbf·ft	0.68 % of applied load 0.61 % 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	



Mass

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Pneumatic Torque Tools	(0.4 to 10 000) lbf-ft (10 000 to 25 000) lbf-ft	1.1 % of applied load 0.93 % of applied load	Electronic Transducer and Display Unit per McCann procedures
Hydraulic Torque Tools	(127 to 5 000) lbf-ft (5 000 to 25 000) 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	(200 to 6 700) lbf-ft	0.97 % of applied load	
Hand Torque Multipliers	(127 to 5 000) lbf-ft (5 000 to 25 000) lbf-ft	2.2 % of applied load 3.9 % of applied load	
Torque Closure Meters	(1 to 100) lbf-in	0.62 % of applied load	
Torque Transducers	4 ozf-in to 1 200 lbf-ft	0.11 % of applied load	BS7882:2008 Dead Weight Test and Unsupported Beams
Torque Testers	(250 to 5 000) lbf-ft	0.11 % of applied load	
Torque Transducers	(500 to 50 000) lbf-ft	0.46 % of applied load	Hydraulic Activated Supported Beam
Torque Tester	(1.5 to 750) lbf-ft	0.53 % of applied load	ISO Loader with Electronic Transducer and Display Unit per McCann procedures
Tensiometers	(10 to 2 000) lbf	0.44 % of applied load	Electronic Transducer and Display Unit per McCann procedures
Bolt Tension Meter	(200 to 10 000) lbf	0.54 % of applied load	Skidmore J: Load Cell and Display
	(1000 to 30 000) lbf	0.55 % of applied load	Skidmore J: Load Cell and Display
	(2000 to 110 000) lbf	0.66 % of applied load	Skidmore M, ML, RL, RJ: Load Cell and Display
	(1000 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
	(2 500 to 225 000) lbf	0.71 % of applied load	Skidmore K: Load Cell and Display

Mass

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
	(5 000 to 450 000) lbf	0.74 % of applied load	Skidmore Super K: Load Cell and Display
Force Testing Systems – Compression Only	(14 000 to 200 000) lbf (122 000 to 997 000) lbf	0.08 % of applied load 0.08 % of applied load	ASTM E4 using ASTM E74 Class A Load Cells and Displays
Hydraulic Tensioners	(8 to 1 650) kN	0.75 % of applied pressure	Bolt Load Meter per McCann Procedures
Hydraulic Cylinders	(0.5 to 500) sh.tn	0.13 % of applied load	Interface Load Cell and DFI Infinity B Display
Hydraulic Pressure Gauge	(300 to 30 000) psig	0.23 % of reading	Electronic – Dead Weight Tester FLUKE Model No. E-DWT-H A200Me-L per McCann Procedures
Pneumatic Pressure Gauge	(0.1 to 300) psig	0.38 % of reading	Additel Digital Tester per McCann Procedures
Pneumatic Pressure Gauge	(0.1 to 300) psig	0.11 % of applied load	Druck Pressure Transducer per McCann Procedures for In-House Calibration of 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. L2097-1.



Vice President

