



CERTIFICATE OF ACCREDITATION

ANSI National Accreditation Board

11617 Coldwater Road, Fort Wayne, IN 46845 USA

This is to certify that

McCann Equipment Ltd.
2750 Coventry Road
Oakville, ON L6H 6R1

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

ISO/IEC 17025:2017

while demonstrating technical competence in the field of

CALIBRATION

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

L2097.02-1
Certificate Number


ANAB Approval

Certificate Valid Through: 06/29/2021
Version No. 003 Issued: 06/04/2019



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

McCann Equipment Ltd.

2750 Coventry Road
Oakville, ON L6H 6R1
Kathy McCann-Quart 905-829-3393

CALIBRATION

Valid to: **June 29, 2021**

Certificate Number: **L2097.02-1**

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 and Display Unit with ISO loader.
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	
Digital 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	
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	
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 Transducer and Display Unit per McCann procedures
Electronic Torque Tools (Clutch Type)	1.5 lbf.in 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
Electronically Controlled Torque Tools (Desoutter)	(1 to 4 000) N·m	0.57 % of applied load	Electronic Transducer and Display Unit per McCann procedures
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 Torque Testers	0.2 lbf·in to 1 200 lbf·ft	0.11 % of applied load	ISO BS7882:2017 with Dead Weight Test and Unsupported Beams
Torque Tester	(1.5 to 750) lbf·ft	0.53 % of applied load	ISO Loader with Electronic Transducer and Display Unit per McCann procedures
Pneumatic Pressure Gauge	(0.1 to 300) psig	0.38 % of reading	Additel Digital Tester per McCann Procedures
Hydraulic Pressure Gauge	(300 to 30 000) psig	0.23 % of reading	Fluke Electronic Dead Weight Tester Model No. RPM4-E-DWT-H A200Me-L per McCann Procedures
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 Tensioners	(8 to 1 650) kN	0.75 % of applied pressure	Bolt Load Meter per McCann procedures

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. L2097.02-1.



Vice President

