

# Scope of Accreditation

## For

### McCANN Equipment LTD.

10255 Côte de Liesse  
Dorval, Québec Canada H9P 1A3  
Daniel M. McCann  
514-636-6344

In recognition of a successful assessment to ISO/IEC 17025:2005, and ANSI Z540-1 accreditation is granted to **McCANN Equipment LTD.** to perform the following **Calibrations**:

Accreditation granted through: **June 29, 2010**

## Calibration

### Mass – Torque

<b>Calibration Parameter/Equipment<sup>1</sup></b>	<b>Range</b>	<b>Best Measurement Capability(+/-)<sup>2</sup></b>	<b>Remarks</b>
Hand Torque Wrenches and Torque Limiting Screwdrivers	4 ozf·in to 2000 lbf·ft 0.028 Nm to 2712 Nm	0.48% of applied load	ISO 6789
Pneumatic Torque Wrenches	0.4 lbf·ft to 25 000 lbf·ft 0.04 Nm to 33 900 Nm	1.52% of applied load	Electronic transducer and display unit per McCANN procedures
Hydraulic Torque Wrenches	127 lbf·ft to 25 000 lbf·ft 172 Nm to 33 900 Nm	1.17% of applied load	Electronic transducer and display unit per McCANN procedures
Electronic Torque Wrenches	4 ozf·in to 2000 lbf·ft 0.028 Nm to 2712 Nm	0.6% of applied load	Electronic transducer and display unit per McCANN procedures
Hand Torque Multipliers	127 lbf·ft to 25 000 lbf·ft 172 Nm to 33 900 Nm	0.59% of applied load	Electronic transducer and display unit per McCANN procedures
Mechanical Torque Closure Meters	1 lbf·in to 100 lbf·in	0.5% of applied load	Electronic transducer and display unit per McCANN procedures
DC Electronic Torque Wrench	1.5 lbf·in to 5000 lbf·ft 0.17 Nm to 6780 Nm	0.36% of applied load	Electronic transducer and display unit per McCANN procedures
Torque Transducers	4 ozf·in to 5000 lbf·ft 0.028 Nm to 6780 Nm	0.04% of applied load	Dead Weight Test Electronic Simulation per McCANN procedures

Calibration Parameter/Equipment <sup>1</sup>	Range	Best Measurement Capability(+/-) <sup>2</sup>	Remarks
Torque Testers, Analyzers and Display Units	0 mV/V to 11 V	0.01% of applied load	Electronic transducer and display unit per McCANN procedures

**Mass – Force**

Calibration Parameter/Equipment <sup>1</sup>	Range	Best Measurement Capability(+/-) <sup>2</sup>	Remarks
Tensiometer	10 lbf to 2000 lbf	1.85% of applied load	Electronic transducer and display unit per McCANN procedures
Bolt Load Meter	200 lbf to 10 000 lbf	180 lbf	Skidmore J
Bolt Load Meter	2000 lbf to 30 000 lbf	328 lbf	Skidmore J & RJ
Bolt Load Meter	2000 lbf to 110 000 lbf	650 lbf	Skidmore M & MS
Bolt Load Meter	4000 lbf to 170 000 lbf	1252 lbf	Skidmore H

**Mass – Pressure**

Calibration Parameter/Equipment <sup>1</sup>	Range	Best Measurement Capability(+/-) <sup>2</sup>	Remarks
Hydraulic Pressure Gauge	400 psi to 10 000 psi	0.08% of applied load	Dead Weight Tester Pressure Model No. M2200 / 3H Per ASME B40
Pneumatic Pressure Gauge	0.1 psi to 300 psi	0.15% of applied load	GE Druck Digital Pressure Indicator Model DPI 280 Pressure Transducer Model PDCR 4010 per ASME B40

**Notes:**

- Laboratory offers calibration services at the laboratory's own facilities and at the client or other agreed upon facilities.
- Best uncertainties represent expanded uncertainties at approximately the 95% confidence level using a coverage factor of k=2.



 Approved by: \_\_\_\_\_ Date: May 27, 2008

 R. Douglas Leonard  
 Chief Technical Officer

Re-Issued: 6/15/07

Revised: 5/27/08