

Scope of Accreditation For C.S.C. Force Measurement Inc.

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In recognition of a successful assessment to ISO/IEC 17025:2005, accreditation is granted to **C.S.C. Force Measurement Inc.** to perform the following **Calibrations**:

Accreditation granted through: **March 5, 2011**

Calibration

Mass – Scale and Balances

Calibration Parameter/Equipment ¹	Range	Best Measurement Capability(+/-) ²	Remarks
Scales (0.02 lb resolution) (0.05 lb resolution)	0 lb to 10 000 lb	0.037 lb 0.091 lb	NIST Class F Weights and NIST Handbook 44 utilized for the calibration of the weighing system
Laboratory Balance (0.0005 g resolution) (0.2 g resolution)	0 kg to 12 kg	0.01 g 0.4 g	ASTM E617 Class 1 Weights and NIST Handbook 44 utilized for the calibration of the weighing system

Mass – Torque

Calibration Parameter/Equipment ¹	Range	Best Measurement Capability(+/-) ²	Remarks
Torque-Source	1 ozf·in to 50 ozf·in 50 ozf·in to 100 ozf·in 1 lbf·in to 50 lbf·in 50 lbf·in to 1 200 lbf·in 100 lbf·ft to 600 lbf·ft 600 lbf·ft to 2 000 lbf·ft	0.003 ozf·in 0.06 ozf·in 0.015 lbf·in 0.52 lbf·in 0.12 lbf·ft 0.31 lbf·ft	Direct comparison made with ASTM Class F Weights and/or load cells

Calibration Parameter/Equipment ¹	Range	Best Measurement Capability(+/-) ²	Remarks
Torque-Measure	1 ozf·in to 48 ozf·in 3 lbf·in to 50 lbf·in 50 lbf·in to 1 000 lbf·in 80 lbf·ft to 250 lbf·ft 250 lbf·ft to 750 lbf·ft	1.161 ozf·in 0.24 lbf·in 0.88 lbf·in 0.30 lbf·ft 0.63 lbf·ft	Digital Torque Analyzer

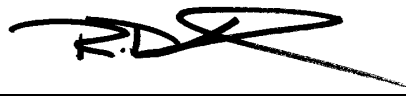
Mass – Force

Calibration Parameter/Equipment ¹	Range	Best Measurement Capability(+/-) ²	Remarks
Force - Tension	0.25 lbf to 100 lbf 100 lbf to 500 lbf 500 lbf to 2 000 lbf 2 000 lbf to 50 000 lbf	0.030 lbf 0.14 lbf 0.6 lbf 3.4 lbf	Direct comparison made with ASTM Class F Weights and/or load cells
Force - Compression	0.25 lbf to 100 lbf 100 lbf to 500 lbf 500 lbf to 2 000 lbf 2 000 lbf to 50 000 lbf	0.030 lbf 0.14 lbf 0.6 lbf 3.3 lbf	

Notes:

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

Approved by: _____ Date: February 10, 2009



R. Douglas Leonard
Chief Technical Officer