



PERRY JOHNSON LABORATORY ACCREDITATION INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation Inc. has assessed the Laboratory of:

Michigan Scientific Corporation
321 E. Huron ST, Milford, MI. 48381

(Hereinafter called the Organization) and hereby declares that Organization 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 (as outlined by the joint ISO-ILAC-IAF Communiqué April 2017):

Mechanical and Mass, Force, and Weighing Calibration
(As detailed in the supplement)

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen
President

Initial Accreditation Date:

August 16, 2021

Issue Date:

February 07, 2023

Expiration Date:

February 07, 2025

Accreditation No.:

91699

Certificate No.:

L23-134-2

Perry Johnson Laboratory
Accreditation Inc. (PJLA)
755 W. Big Beaver Suite 1325
Troy Michigan 48084

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjllabs.com



Certificate of Accreditation: Supplement

Michigan Scientific Corporation (MSC)

321 E. Huron ST, Milford, MI. 48381

Contact Name: Mr. Steve Jarema Phone: 231-547-5511

Accreditation is granted to the facility to perform the following calibrations:

Mechanical

MEASURED INSTRUMENT QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Torque Transducer – Clockwise & Counterclockwise ^F	80 ft•lb to 800 ft•lb	0.95 ft•lb	Torque Machine Transducer– TW12.8HRMS800, ISOMSC-2110501851-1057, ASTM E2428
	801 ft•lb to 6 000 ft•lb	5.6 ft•lb	Torque Machine Transducer- TW12.8, ISOMSC-2110501851-1057, ASTM E2428

Mass Force and Weighing Devices

MEASURED INSTRUMENT QUANTITY OR GAUGE	RANGE OR NOMINAL DEVICE SIZE AS APPROPRIATE	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Equipment to Measure Force- Compression & Tension ^F	100 lb to 1 000 lb	3.5 lb	Screw Press Transducer– Interface 1010ACK-1K-B, ISOMSC-695603924-58, ASTM E74 Class A
	1 001 lb to 2 500 lb	8.8 lb	Screw Press Transducer– Interface 1010ACK-2.5K-B, ISOMSC-695603924-58, ASTM E74 Class A
	2 501 lb to 5 000 lb	18 lb	Screw Press Transducer– Interface 1010ACK-5K-B, ISOMSC-695603924-58, ASTM E74 Class A
	5 001 lb to 10 000 lb	35 lb	Screw Press Transducer– Interface 1010ACK-10K-B, ISOMSC-695603924-58, ASTM E74 Class A

- The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically expressed at a confidence level of 95 % using a coverage factor k (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.



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Accreditation is granted to the facility to perform the following calibrations:

2. The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.
3. The presence of a superscript F means that the laboratory performs calibration of the indicated parameter at its fixed location. Example: Outside Micrometer^F would mean that the laboratory performs this calibration at its fixed location.
4. Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratories fixed location for similar calibrations. This is due to the effects of transportation of the standards and equipment and upon environmental conditions at the customer site which are typically not controlled as closely as at the laboratories fixed location.
5. This location is linked to 8500 Ance Road Charlevoix, MI. 49720 due to a share quality management system.