



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Rochester Scale Works, Inc.
100 Sherer Street, Rochester, NY 14611

(Hereinafter called the Organization) and hereby declares that Organization 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 (as outlined by the joint ISO-ILAC-IAF Communiqué dated January 2009):

Calibration of Industrial Scales, Vehicle Scales, Balances, Test Weights, Dimensional, and Mechanical Devices
(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:

Initial Accreditation Date:

June 18, 2010

Issue Date:

February 28, 2017

Expiration Date:

February 28, 2019

Accreditation No.:

63075

Certificate No.:

L17-59

Tracy Szerszen
President/Operations Manager

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.pjilabs.com



Certificate of Accreditation: Supplement

Rochester Scale Works, Inc.
 100 Sherer Street, Rochester, NY 14611
 Contact: Joe Guntrum Phone: 585-235-5882

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

Dimensional

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
Caliper ^{FO}	1 in to 3 in	(640 + 1L) μ in	Grade B890 Gage Blocks Length Standards GIDEP T.O. 33K6-4-15-1
	4 in to 12 in	(609 + 8L) μ in	
	13 in to 24 in	(652 + 4L) μ in	
Micrometer ^{FO}	1 in to 3 in	(60 + 4L) μ in	
	4 in to 12 in	(119 + 3L) μ in	
	13 in to 24 in	(130 + 2L) μ in	
Indicators (Digital & Dial) ^{FO}	0.25 in to 3 in	(128 + 6L) μ in	Grade B890 Gage Blocks GIDEP T.O. 33K6-4-889-1
Height Gage ^{FO}	4 in to 12 in	(610 + 8L) μ in	Grade B890 Gage Blocks Height Gage Riser Block GIDEP T.O. 33K6-4-673-1
	13 in to 24 in	(653 + 4L) μ in	
Length Standard ^{FO}	1 in to 12 in	(75 + 1.5L) μ in	Height Master Riser Block GIDEP T.O. 33K6-4-369-1
	12 in to 24 in	(67 + 2L) μ in	
Optical Comparator ^O Axis Linearity	10 in (maximum)	160 μ in	Length Standards Angle Blocks Steel Square Mag Checking Scale Steel Balls OEM
Optical Comparator ^O Chart Angularity	0° to 90°	0.1°	
Optical Comparator ^O Axial Squareness	3 in of Y Axis Travel (maximum Y axis travel if maximum is < 3 in)	0.02°	
Optical Comparator ^O Magnification	10 X	0.02 %	
	20 X	0.01 %	
	31.25 X		
	50 X		

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
Analytical Balance ^{FO}	0.001 g to 200 g	(1.2 x 10 ⁻³ + 6.81 x 10 ⁻⁷ Wt) g	ASTM Class 1
Precision Balance ^{FO}	0.001 g to 5 000 g	(1.2 x 10 ⁻³ + 5.55 x 10 ⁻⁶ Wt) g	



Certificate of Accreditation: Supplement

Rochester Scale Works, Inc.
 100 Sherer Street, Rochester, NY 14611
 Contact: Joe Guntrum Phone: 585-235-5882

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

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
High Capacity Precision Balance ^{FO}	0.1 g to 75 kg	$(1.16 \times 10^{-1} + 1.14 \times 10^{-4}Wt)$ g	NIST Class F
Scales Class ^{FO}	0.001 lb to 20 000 lb	$(1.2 \times 10^{-3} + 1.15 \times 10^{-4}Wt)$ lb	
	0.001 g to 10 000 kg	$(1.2 \times 10^{-3} + 1.15 \times 10^{-4}Wt)$ lb	
Vehicle Scales ^{FO}	20 lb to 400 000 lb	$(23.1 + 7.14 \times 10^{-5}Wt)$ lb	
Rail Scales ^{FO}	50 lb to 400 000 lb	$(57.73 + 4.05 \times 10^{-5}Wt)$ lb	
Mass Class F NIST Handbook 105-1 (lb) Test Weights ^F	0.005 lb	0.22 mg	ASTM E617 Class 1 Weights ASTM E617 Class 4 Weights Echelon III Mass NIST IR 6969 SOP 8
	0.01 lb		
	0.02 lb		
	0.03 lb		
	0.05 lb		
	0.1 lb		
	0.2 lb		
	0.3 lb		
	0.5 lb	2.2 mg	
	1 lb		
	2 lb		
	5 lb		
	10 lb		
	20 lb	2.9 mg	
	25 lb		
50 lb	0.15 g		
Mass Class F NIST Handbook 105-1 (kg) Test Weights ^F	2 g	0.22 mg	
	3 g		
	5 g		
	10 g		
	20 g		
	30 g		
	50 g		
	100 g		
	200 g		
300 g	2 mg		



Certificate of Accreditation: Supplement

Rochester Scale Works, Inc.

100 Sherer Street, Rochester, NY 14611
 Contact: Joe Guntrum Phone: 585-235-5882

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

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
Mass Class F NIST Handbook 105-1 (kg) Test Weights ^F	500 g	2.2 mg	ASTM E617 Class 1 Weights ASTM E617 Class 4 Weights Echelon III Mass NIST IR 6969 SOP 8
	1 kg		
	2 kg		
	5 kg		
	10 kg	2.9 mg	
	20 kg	0.15 g	
	25 kg		

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
Durometer Spring Type A ^{FO}	200 g to 800 g	$(1.16 \times 10^{-1} + 3.20 \times 10^{-9}Wt)$ g	ASTM Class 1 Grade B89 Gage Blocks GIDEP
Durometer Spring Type D ^{FO}	800 g to 5 000 g	$(1.15 \times 10^{-1} + 1.96 \times 10^{-7}Wt)$ g	
Extension at Zero ^{FO}	0.097 in to 0.1 in	710 μ m	
Torque Tool ^{FO}	3 lbf•in to 30 lbf•in	2.5 % of reading	Torque Meter GIDEP T.O. 33K6-4-2193-1
	10 lbf•in to 100 lbf•in	8 % of reading	
Indirect Verification of Rockwell Hardness Testers HRBW & HRC ^O	10 HRBW to 50 HRBW	0.54 HRBW	Test Block ASTM E18
	51 HRBW to 70 HRBW	0.51 HRBW	
	> 80 HRBW	0.5 HRBW	
	20 HRC to 39 HRC	0.37 HRC	
	40 HRC to 59 HRC	0.46 HRC	
> 60 HRC	0.19 HRC		

- 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.



Certificate of Accreditation: Supplement

Rochester Scale Works, Inc.

100 Sherer Street, Rochester, NY 14611
Contact: Joe Guntrum Phone: 585-235-5882

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. The presence of a superscript O means that the laboratory performs calibration of the indicated parameter onsite at customer locations. Example: Outside Micrometer^O would mean that the laboratory performs this calibration onsite at the customer's location.
5. The presence of a superscript FO means that the laboratory performs calibration of the indicated parameter both at its fixed location and onsite at customer locations. Example: Outside Micrometer^{FO} would mean that the laboratory performs this calibration at its fixed location and onsite at customer locations.
6. 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.
7. The term L represents length in inches or millimeters as appropriate to the uncertainty statement.
8. The term Wt represents weight in pounds or grams (including SI multiple and submultiple units) appropriate to the uncertainty statement.
9. The term "X" preceded by a number represents the number of times a lense system magnifies an image relative to its actual size. CMC stated as "% of magnification" represents the CMC of magnification expressed as a percentage of the total magnification.