



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

RC Calibración, S.A. de C.V.

***Manuel Doblado # 335, Col. Constituyentes de Querétaro Sector 5to
San Nicolás de los Garza, Nuevo León, México. CP.66490***

*(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 dated April 2017):

***Mechanical, Time and Frequency, Mass, Force and Weighing Devices,
Dimensional and Thermodynamic 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

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

Initial Accreditation Date:

May 08, 2013

Issue Date:

July 13, 2021

Expiration Date:

October 31, 2023

Accreditation No.:

75019

Certificate No.:

L21-414

*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

RC Calibración S.A. de C.V.

Manuel Doblado #335, Col. Constituyentes de Querétaro Sector 5to
 San Nicolás de los Garza, Nuevo León, México. CP. 66490
 Contact: Aldo Cárdenas Pérez Phone: 814-774-5485

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
Indirect Verification of Brinell Hardness Tester HBW 10/3000 ^{FO}	95 HBW to 653 HBW	1 HBW	Test Block ISO 6506-2 ASTM E10 ASTM E110
Indirect Verification of Brinell Hardness Tester HBW 10/1500 ^{FO}	47.7 HBW to 327 HBW	1.6 HBW	
Indirect Verification of Brinell Hardness Tester HBW 10/1000 ^{FO}	31.8 HBW to 218 HBW	2.5 HBW	
Indirect Verification of Brinell Hardness Tester HBW 5/750 ^{FO}	95.5 HBW to 592 HBW	2.2 HBW	
Indirect Verification of Brinell Hardness Tester HBW 10/500 ^{FO}	60 HBW to 160 HBW	1 HBW	
Indirect Verification of Brinell Hardness Tester HBW 5/250 ^{FO}	31.8 HBW to 218 HBW	0.5 HBW	
Indirect Verification of Brinell Hardness Tester HBW 2.5/187.5 ^{FO}	90 HBW to 650 HBW	2.2 HBW	
Indirect Verification of Brinell Hardness Tester HBW 2.5/62.5 ^{FO}	31.8 HBW to 220 HBW	0.85 HBW	
Indirect Verification of Rockwell Hardness Tester HRA ^{FO}	20 HRA to 40 HRA	0.15 HRA	Test Block ISO 6508-2 ASTM E18
	45 HRA to 75 HRA	0.17 HRA	
	80 HRA to 95 HRA	0.28 HRA	
Indirect Verification of Rockwell Hardness Tester HRB ^{FO}	10 HRB to 50 HRBW	0.34 HRBW	
	60 HRB to 80 HRBW	0.24 HRBW	
	85 HRB to 100 HRBW	0.34 HRBW	
Indirect Verification of Rockwell Hardness Tester HRC ^{FO}	10 HRC to 30 HRC	0.17 HRC	
	35 HRC to 55 HRC	0.19 HRC	
	60 HRC to 70 HRC	0.3 HRC	
Indirect Verification of Rockwell Hardness Tester HRE ^{FO}	70 HRE to 77 HREW	0.5 HREW	
	84 HRE to 90 HREW	0.17 HREW	
	93 HRE to 100 HREW	0.37 HREW	



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Indirect Verification of Rockwell Hardness Tester HR15N ^{FO}	70 HR15N to 77 HR15N	0.52 HR15N	Test Block ISO 6508-2 ASTM E18
	78 HR15N to 88 HR15N	0.42 HR15N	
	89 HR15N to 94 HR15N	0.42 HR15N	
Indirect Verification of Rockwell Hardness Tester HR30N ^{FO}	42 HR30N to 54 HR30N	0.56 HR30N	
	55 HR30N to 73 HR30N	0.46 HR30N	
	74 HR30N to 86 HR30N	0.3 HR30N	
Indirect Verification of Rockwell Hardness Tester HR45N ^{FO}	20 HR45N to 31 HR45N	0.22 HR45N	
	32 HR45N to 61 HR45N	0.24 HR45N	
	63 HR45N to 77 HR45N	0.25 HR45N	
Indirect Verification of Rockwell Hardness Tester HR15T ^{FO}	67 HR15T to 80 HR15TW	0.42 HR15TW	
	81 HR15T to 87 HR15TW	0.29 HR15TW	
	88 HR15T to 93 HR15TW	0.26 HR15TW	
Indirect Verification of Rockwell Hardness Tester HR30T ^{FO}	29 HR30T to 56 HR30TW	0.24 HR30TW	
	57 HR30T to 69 HR30TW	0.35 HR30TW	
	70 HR30T to 82 HR30TW	0.62 HR30TW	
Indirect Verification of Rockwell Hardness Tester HR45T ^{FO}	10 HR45T to 33 HR45TW	0.38 HR45TW	
	34 HR45T to 54 HR45TW	0.42 HR45TW	
	55 HR45T to 72 HR45TW	0.74 HR45TW	
Indirect Verification of Vickers Hardness Tester HV 0.05 kg ^O	100 HV to 800 HV	5.8 HV	Test Block ISO 6507-2 ASTM E384 ASTM E92
Indirect Verification of Vickers Hardness Tester HV 0.1 kg ^O	100 HV to 800 HV	4.2 HV	
Indirect Verification of Vickers Hardness Tester HV 0.2 kg ^O	100 HV to 800 HV	3 HV	
Indirect Verification of Vickers Hardness Tester HV 0.3 kg ^O	100 HV to 800 HV	6.2 HV	
Indirect Verification of Vickers Hardness Tester HV 0.5 kg ^O	100 HV to 800 HV	6.7 HV	



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Indirect Verification of Vickers Hardness Tester HV 1 kg ⁰	100 HV to 800 HV	3.7 HV	Test Block ISO 6507-2 ASTM E384 ASTM E92
Indirect Verification of Vickers Hardness Tester HV 5 kg ⁰	100 HV to 800 HV	3.1 HV	
Indirect Verification of Vickers Hardness Tester HV 10 kg ⁰	100 HV to 800 HV	1.7 HV	
Indirect Verification of Vickers Hardness Tester HV 30 kg ⁰	100 HV to 800 HV	3 HV	
Indirect Verification of Knoop Hardness Tester HK 0.05 kg ⁰	100 HK to 800 HK	7.1 HK	Test Block ISO 4545-2 ASTM E384 ASTM E92
Indirect Verification of Knoop Hardness Tester HK 0.1 kg ⁰	100 HK to 800 HK	5.9 HK	
Indirect Verification of Knoop Hardness Tester HK 0.2 kg ⁰	100 HK to 800 HK	4.4 HK	
Indirect Verification of Knoop Hardness Tester HK 0.3 kg ⁰	100 HK to 800 HK	13 HK	
Indirect Verification of Knoop Hardness Tester HK 0.5 kg ⁰	100 HK to 800 HK	11 HK	
Indirect Verification of Leeb Hardness Tester LD ^{FO}	500 LD to 800 LD	6.8 HLD	
Charpy Machine Tester Impact- Low Energy ⁰	13 J to 20 J	0.15 J	Specimens NIST ASTM E23 Specimens ERM ISO 148-2
Charpy Machine Tester Impact- High Energy ⁰	88 J to 150 J	0.29 J	
Charpy Machine Tester Impact- Super High Energy ⁰	176 J to 244 J	0.89 J	



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Direct Verification of Shore Hardness Tester Types A, B, C, D, DO, E, M, O, OO, OOO & OOO-S (Extension at Zero readings) ^F	1.23 mm to 5.04 mm	1.6 μ m	ASTM D2240 ISO 21509
Indenter Shore Diameter, Radius & Angle (Not all Parameters Apply to all of Durometer types)	0.088 mm to 13 mm 29.5° to 35.25°	1.6 μ m 0.11°	Auto Vision Measuring Machine (Res.= 0.1 μ m)
Verification of the Shore Durometer Spring Force Type A, B, E & O Type C, D & DO Type M Type OO, OOO Type OOO-S	0.55 N to 8.05 N 4.445 N to 44.45 N 0.324 N to 0.765 N 0.203 N to 1.111 N 0.167 N to 1.932 N	0.32 N 0.03 N 0.19 N 0.12 N 0.1 N	Load Cell
Direct Verification for Impact Tests Machines for Plastic Materials Pendulum Length Effective Weight ^O	100 g to 1 000 g	0.4 g	Load Cell ASTM D256
	1 kg to 10 kg	16 g	ASTM D6110 ISO 179 ISO 180
Verification of Flow Index Machines Force / Weight ^O	100 g to 1 000 g	0.8 g	Load Cells
	1 kg to 10 kg	31 g	ASTM D1238
	5 to 50 kg	11 g	ISO 1133-1

Mass Force & 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
Force Machines -Traction ^O and Force Gages - Traction ^{FO}	24.52 N to 500 N	0.19 % of reading	Load Cells AEP 437659 and Interface 130314 A ISO-7500-1 NMX-CH-7500-1-IMNC ASTM E4



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Mass Force & Weighing Devices

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Force Machines -Traction ^O and Force Gages - Traction ^{FO}	49.03 N to 980.6 N	0.14 % of reading	Load Cell Strainsense 060123 A ISO-7500-1 NMX-CH-7500-1-IMNC ASTM E4
	245.2 N to 5 000 N	0.051 % of reading	Load Cell AEP 437420 ISO-7500-1 NMX-CH-7500-1-IMNC ASTM E4
	294.2 N to 5 884 N	0.16 % of reading	Load Cells Strainsense 060123 B and 170629 ISO-7500-1 NMX-CH-7500-1-IMNC ASTM E4
	490.3 N to 9 807 N	0.14 % of reading	Load Cells Strainsense 161018 and Zwick 61187 ISO-7500-1 NMX-CH-7500-1-IMNC ASTM E4
	1 kN to 25 kN	0.13 % of reading	Load Cells AEP 437270 and Interface 395904 A ISO-7500-1 NMX-CH-7500-1-IMNC ASTM E4
	2.45 kN to 49.03 kN	0.18 % of reading	Load Cells Strainsense 161019 and Interface 130314 C ISO-7500-1 NMX-CH-7500-1-IMNC ASTM E4
	4.9 kN to 98.07 kN	0.16 % of reading	Load Cells Strainsense 060123 C and 161020 ISO-7500-1 NMX-CH-7500-1-IMNC ASTM E4
	15 kN to 300 kN	0.14 % reading	Load Cell AEP 438558 ISO-7500-1 NMX-CH-7500-1-IMNC ASTM E4



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Force Machines - Traction and Force Gages -Traction ^{FO}	24.52 kN to 490.3 kN	0.072 % of reading	Load Cell Strainsense 130314 D ISO-7500-1 NMX-CH-7500-1-IMNC ASTM E4
	0.049 N to 588 N	0.12 % of reading	Class F2 y M1 Weight ISO-7500-1 NMX-CH-7500-1-IMNC ASTM E4
	4.9 N to 98.1 N	0.15 % of reading	Load Cells
Force Machines - Compression and Force Gages -Compression ^{FO}	4.9 N to 98.1 N	0.31 % of reading	Interface 929321A ISO-7500-1 NMX-CH-7500-1-IMNC ASTM E4
	24.52 N to 500 N	0.18 % of reading	Load Cells AEP 437659 and Interface 130314 A ISO-7500-1 NMX-CH-7500-1-IMNC ASTM E4
	49.03 N to 980.6 N	0.11 % of reading	Load Cell Strainsense 060123 A ISO-7500-1 NMX-CH-7500-1-IMNC ASTM E4
	245.2 N to 5 000 N	0.053 % of reading	Load Cells AEP 437420 and PT 2372027 ISO-7500-1 NMX-CH-7500-1-IMNC ASTM E4
	294.2 N to 5 884 N	0.14 % of reading	Load Cells Strainsense 060123 B and 170629 ISO-7500-1 NMX-CH-7500-1-IMNC ASTM E4
	490.3 N to 9 807 N	0.12 % of reading	Load Cells Strainsense 161018 and Zwick 61187 ISO-7500-1 NMX-CH-7500-1-IMNC ASTM E4



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Force Machines - Compression ^O and Force Gages - Compression ^{FO}	1 kN to 25 kN	0.094 % of reading	Load Cells AEP 437270 and Interface 395904 A ISO-7500-1 NMX-CH-7500-1-IMNC ASTM E4
	2.45 kN to 49.03 kN	0.2 % of reading	Load Cells Strainsense 161019 and Interface 130314 C ISO-7500-1 NMX-CH-7500-1-IMNC ASTM E4
	4.9 kN to 98.07 kN	0.17 % of reading	Load Cells Strainsense 060123 C and 161020 ISO-7500-1 NMX-CH-7500-1-IMNC ASTM E4
	15 kN to 300 kN	0.15 % of reading	Load Cell AEP 438558 and Strainsense 060123 D ISO-7500-1 NMX-CH-7500-1-IMNC ASTM E4
	24.52 kN to 490.3 kN	0.29 % of reading	Load Cell Strainsense 130314 D ISO-7500-1 NMX-CH-7500-1-IMNC ASTM E4
	49.03 kN to 980.6 kN	0.21 % of reading	Load Cell Strainsense 060123 E ISO-7500-1 NMX-CH-7500-1-IMNC ASTM E4
	111.2 kN to 2 224.13 kN	0.21 % of reading	Load Cell Strainsense 130508 ISO-7500-1 NMX-CH-7500-1-IMNC ASTM E4
	0.049 N to 588 N	0.12 % of reading	Class F2 y M1 Weight ASTM E4, ISO-7500-1 NMX-CH-7500-1-IMNC



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Force Measurement Instruments Traction ^{FO}	24.52 N to 500 N	0.19 % of reading	Load Cells AEP 437659 and Interface 130314 A ISO-376 NMX-CH-376-IMNC
	49.03 N to 980.6 N	0.14 % of reading	Load Cell Strainsense 060123 A ISO-376 NMX-CH-376-IMNC
	245.2 N to 5 000 N	0.051 % of reading	Load Cell AEP 437420 ISO-376 NMX-CH-376-IMNC
	294.2 N to 5 884 N	0.16 % of reading	Load Cells Strainsense 060123 B and 170629 ISO-376 NMX-CH-376-IMNC
	490.3 N to 9 807 N	0.14 % of reading	Load Cells Strainsense 161018 and Zwick 61187 ISO-376 NMX-CH-376-IMNC
	1 kN to 25 kN	0.13 % of reading	Load Cells AEP 437270 and Interface 395904 A ISO-376 NMX-CH-376-IMNC
	2.45 kN to 49.03 kN	0.18 % of reading	Load Cells Strainsense 161019 and Interface 130314 C ISO-376 NMX-CH-376-IMNC
	4.9 kN to 98.07 kN	0.16 % of reading	Load Cells Strainsense 060123 C and 161020 ISO-376 NMX-CH-376-IMNC
	15 kN to 300 kN	0.14 % reading	Load Cell AEP 438558 ISO-376 NMX-CH-376-IMNC
	24.52 kN to 490.3 kN	0.072 % of reading	Load Cell Strainsense 130314 D ISO-376 NMX-CH-376-IMNC
0.049 N to 588 N	0.12 % of reading	Class F2 y M1 Weight ISO-376 NMX-CH-376-IMNC	



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Force Measurement Instruments Traction ^{FO}	4.9 N to 98.1 N	0.15 % of reading	Load Cells Interface 929321A
Force Measurement Instruments Compression ^{FO}	4.9 N to 98.1 N	0.31 % of reading	ISO-376 NMX-CH-376-IMNC
	24.52 N to 500 N	0.18 % of reading	Load Cells AEP 437659 and Interface 130314 A ISO-376 NMX-CH-376-IMNC
	49.03 N to 980.6 N	0.1 % of reading	Load Cell Strainsense 060123 A ISO-376 NMX-CH-376-IMNC
	245.2 N to 5 000 N	0.053 % of reading	Load Cells AEP 437420 and PT 2372027 ISO-376 NMX-CH-376-IMNC
	294.2 N to 5 884 N	0.14 % of reading	Load Cells Strainsense 060123 B and 170629 ISO-376 NMX-CH-376-IMNC
	490.3 N to 9 807 N	0.12 % of reading	Load Cells Strainsense 161018 and Zwick 61187 ISO-376 NMX-CH-376-IMNC
	1 kN to 25 kN	0.094 % of reading	Load Cell AEP 437270 and Interface 395904 A ISO-376 NMX-CH-376-IMNC
	2.45 kN to 49.03 kN	0.2 % of reading	Load Cells Strainsense 161019 and Interface 130314 C ISO-376 NMX-CH-376-IMNC
	4.9 kN to 98.07 kN	0.17 % of reading	Load Cells Strainsense 060123 C and 161020 ISO-376 NMX-CH-376-IMNC



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Force Measurement Instruments Compression ^{FO}	15 kN to 300 kN	0.15 % of reading	Load Cell AEP 438558 and Strainsense 060123 D ISO-376 NMX-CH-376-IMNC
	24.52 kN to 490.33 kN	0.29 % of reading	Load Cell Strainsense 130314 D ISO-376 NMX-CH-376-IMNC
	49.03 kN to 980.6 kN	0.21 % of reading	Load Cell Strainsense 060123 E ISO-376 NMX-CH-376-IMNC
	111.2 kN to 2 224.13 kN	0.21 % of reading	Load Cell Strainsense 130508 ISO-376 NMX-CH-376-IMNC
	0.049 N to 588 N	0.12 % of reading	Class F2 y M1 Weight ISO-376 NMX-CH-376-IMNC

Dimensional

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Extensometers ^O	0.01 mm to 50 mm	0.18 μ m	Extensometer Calibrator (3590 / 3590VHR) Digital Indicator HO560E ASTM E83 ISO 9513
	2 mm to 1 000 mm	0.033 mm	Linear Encoder ASTM E83 ISO 9513
Stage Micrometer (Brinell Microscope and Microscopes) ^{FO}	0.001 mm to 20 mm	1.8 μ m	Graduate Grid ISO 6506-2, ASTM E10, JIS B 7153
Wire Cloth and Sieves for Testing Purposes ^F	0.02 mm to 125 mm	1.3 μ m	Auto Vision Measuring Machine (Res.= 0.1 μ m) ASTM E11 NMX-CH-012-1



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Crosshead Travel ^o	0.01 mm to 50 mm	1.7 μ m	Digital Indicator H0560E ISO 9513 ASTM E2309
	2 mm to 1 000 mm	(2 x 10 ⁻² + 1 x 10 ⁻⁵ L) mm	Linear Encoder ISO 9513 ASTM E2309
Verification of Flow Index Machines – Travel Verification ^o	0.1 mm to 50 mm	1.8 x 10 ⁻³ mm	Digital Length Gauge ASTM D1238 ISO 1133-1
Verification of Flow Index Machines – Bore Diameter ^o	9.550 4 mm (0.007 6 mm)	0.48 μ m	Go no Go gage ASTM D1238 ISO 1133-1
	9.55 mm (0.007 mm)	0.48 μ m	
Verification of Flow Index Machines – Die Orifice ^o	2.095 mm (0.005 mm)	0.38 μ m	
	1.048 mm (0.005 mm)	0.37 μ m	
Verification of Flow Index Machines – Die Height ^o	8 mm (0.025 mm)	1.2 x 10 ⁻³ mm	Digital Micrometer ASTM D1238 ISO 1133-1
	4 mm (0.025 mm)	1.2 x 10 ⁻³ mm	
Verification of Flow Index Machines – Piston Foot Diameter ^o	9.474 2 mm (0.007 6 mm)	1.2 x 10 ⁻³ mm	
	9.474 mm (0.007 mm)	1.2 x 10 ⁻³ mm	
Verification of Flow Index Machines – Piston Foot Length ^o	6.35 (0.1 mm)	2 x 10 ⁻² mm	Digital Caliper ASTM D1238 ISO 1133-1
Verification of Flow Index Machines – Cylinder Length ^o	40 mm to 200 mm	2 x 10 ⁻² mm	Digital Caliper ASTM D1238 ISO 1133-1
Direct Verification for Impact Tests Machines for Plastic Materials Angle ^o	1° to 150°	0.057°	Digital Angle Gauge ASTM D256 ASTM D6110 ISO 179-1 ISO 180
Direct Verification for Impact Tests Machines for Plastic Materials Distance ^o	50 mm to 1 000 mm	0.56 mm	Measuring Tape ASTM D256 ASTM D6110 ISO 179-1 ISO 180
Direct Verification for Impact Tests Machines for Plastic Materials Distance ^o	0.1 mm to 150 mm	0.02 mm	Digital Caliper ASTM D256 ASTM D6110 ISO 179-1 ISO 180



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RC Calibración S.A. de C.V.

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San Nicolás de los Garza, Nuevo León, México. CP. 66490
Contact: Aldo Cárdenas Pérez Phone: 814-774-5485

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

Time and Frequency

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
Direct Verification for Impact Tests Machines for Plastic Materials Oscillation Time ^o	0.15 s to 60 s	$(1.1 \times 10^{-1} + 4.2 \times 10^{-5}T_m)$ s	Stopwatch ASTM D256 ASTM D6110 ISO 179-1 ISO 180
Verification of Flow Index Machines – Cut Time ^o	0.15 s to 360 s	6.3×10^{-2} s	Stopwatch ASTM D1238 ISO 1133-1
Crosshead Travel Speed ^o	0.05 mm/min to 100 mm/min	4.6×10^{-5} mm/min	Digital Indicator H0560E Stopwatch ASTM E2658
	10 mm/min to 2 000 mm/min	1.9×10^{-2} mm/min	Linear Encoder Stopwatch ASTM E2658

Thermodynamic

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
Verification of Flow Index Machines Temperature ^{FO}	50 °C to 400 °C	$(0.02 + 7.7 \times 10^{-5}T)$ °C	RTD Sensor ASTM D1238 ISO 1133-1

1. 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.
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.



Certificate of Accreditation: Supplement

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

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 T represents temperature in °C or °F as appropriate to the uncertainty statement.
9. The term Tm represents Time in sec or min as appropriate to the uncertainty statement.