PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

CPR Calibration Inc.

2931 Druid Lane, Los Alamitos, CA 90720

and hereby declares that the Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2017

Whereby, technical competence has been confirmed for the associated scope supplement, in the fields of:

Dimensional, Mass, Force, and Weighing Devices, Mechanical, and Time and Frequency Calibration

(As detailed in the supplement)

Accreditation claims for conformity assessment activities shall only be made from the addresses referenced within this certificate and shall apply solely to those activities identified in the related scope. This Accreditation is granted subject to the Accreditation Body rules governing the Accreditation referred to above, and the Organization hereby commits to observing and complying with those rules in their entirety.

For PJLA:

Tracy Szerszen
President

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

Initial Accreditation Date:	*Issue Date:*	*Expiration Date:*
June 26, 2023	August 04, 2025	October 31, 2027

Accreditation No.:	*Certificate No.:*
120865	L25-583

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.pjlabs.com

Certificate of Accreditation: Supplement

CPR Calibration Inc.

2931 Druid Lane, Los Alamitos, CA 90720
Contact Name: Chris Reilly Phone: 714-767-9468

Accreditation is granted to the facility to perform the following conformity assessment activities:

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) [1]	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Dimensional	Dial Indicators	Up to 6 in	149 µin	Gage blocks	CPR Procedure CPR-012	F1, F3	O
Dimensional	Dial Calipers	1 in to 12in	860 µin + 3.4µin/in	Gage blocks	CPR Procedure CPR-011	F1, F3	O
Dimensional	Digital Calipers	Up to 6 in	860 µin + 0.65 µin/in	Gage blocks	CPR Procedure CPR-011	F1, F3	O
Dimensional	Digital Micrometers (Inner Diameter)	1.27 mm to 1 000 mm	149 µin	Gage blocks	CPR Procedure CPR-03	F1, F3	O
Dimensional	Digital Micrometer (Outer Diameter)	0.05 in to 40 in	149 µin	Gage blocks	CPR Procedure CPR-03	F1, F3	O
Dimensional	Rods (Inner Diameter)	0.05 in to 40 in	450 µin + 13 µin/in	Gage blocks	CPR ProcedureCPR-03	F1, F3	O
Dimensional	Height Gage	4 in to 40 in	450 µin + 13 µin/in	Gage blocks	CPR ProcedureCPR-03	F1, F3	O
Dimensional	Extensometer	Up to 2 in	0.04 % of the range	Linear Calibrators E83	CPR Procedure CPR-02	F1, F3	O
Dimensional	Crosshead Displacement/ Mechanical Machines	Up to 20 in	0.03 in	Dial Indicator	CPR Procedure CPR-05	F1, F3	O
Mechanical	Torque Wrench	60 lbf to 600 lbf	3.5 lbf +0.001 42 lbf/lbf	Torque Transducer	CPR Procedure CPR-01	F1, F3	O
Mechanical	Rockwell Hardness (HRC)	25.7 HRC to 63.0 HRC	0.4 HRC	Hardness Blocks	CPR Procedure CPR-07 ASTM E18	F1, F2, F3	O
Mechanical	Rockwell Hardness (HRBW)	65.4 HRBW to 95.0 HRBW	0.7 HRBW	Hardness Blocks	CPR Procedure CPR-07 ASTM E18	F1, F2, F3	O
Mechanical	Rockwell Hardness (HRA)	63.1 HRA to 83.4 HRA	0.6 HRA	Hardness Blocks	CPR Procedure CPR-07 ASTM E18	F1, F2, F3	O
Mechanical	Rockwell Hardness (HR30N)	45.5 HR30N to 80.4 HR30N	0.3 HRN	Hardness Blocks	CPR Procedure CPR-07 ASTM E18	F1, F2, F3	O
Mechanical	Rockwell Hardness (HR15N)	66.5 HR15N to 92.2 HR15N	0.5 HR15N	Hardness Blocks	CPR Procedure CPR-07 ASTM E18	F1, F2, F3	O
Mechanical	Rockwell Hardness (HR30TW)	46.4 HR30TW to 82.1 HR30TW	0.46 HR30TW	Hardness Blocks	CPR Procedure CPR-07 ASTM E18	F1, F2, F3	O

Certificate of Accreditation: Supplement

CPR Calibration Inc.

2931 Druid Lane, Los Alamitos, CA 90720
Contact Name: Chris Reilly Phone: 714-767-9468

Accreditation is granted to the facility to perform the following conformity assessment activities:

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) [1]	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Mechanical	Rockwell Hardness (HREW)	61.7 HREW to 99.0 HREW	0.6 HREW	Hardness Blocks	CPR Procedure CPR-07 ASTM E18	F1, F2, F3	O
Mechanical	Rockwell Hardness (HR45N)	34.3 HR45N to 70.6 HR45N	0.2 HR45N	Hardness Blocks	CPR Procedure CPR-07 ASTM E18	F1, F2, F3	O
Mechanical	Rockwell Hardness (HR15TW)	73.8 HR15TW to 91.6 HR15TW	0.4 HR15TW	Hardness Blocks	CPR Procedure CPR-07 ASTM E18	F1, F2, F3	O
Mechanical	Rockwell Hardness (HRFW)	74.6 HRFW to 98.3 HRFW	0.5 HRFW	Hardness Blocks	CPR Procedure CPR-07 ASTM E18	F1, F2, F3	O
Mass, Force, and Weighing Devices	Equipment to Measure Force (Compression and Tension)	1 lbf to 100 lbf	2 lbf	Load cell S/N:12839	ASTM E4 & ASTM E70 CPR Procedure CPR-04	F1, F2, F3	O
Mass, Force, and Weighing Devices	Equipment to Measure Force (Compression and Tension)	100 lbf to 1 000 lbf	6.6 lbf	Morehouse Load cells S/N: P-10711	ASTM E4 & ASTM E70 CPR Procedure CPR-04	F1, F2, F3	O
Mass, Force, and Weighing Devices	Equipment to Measure Force (Compression and Tension)	100 lbf to 5 000 lbf	9.2 lbf	Morehouse Load cells S/N: P-10710	ASTM E4 & ASTM E70 CPR Procedure CPR-04	F1, F2, F3	O
Mass, Force, and Weighing Devices	Equipment to Measure Force (Compression and Tension)	960 lbf to 20 000 lbf	23 lbf	Morehouse Load cells S/N:108538A	ASTM E4 & ASTM E70 CPR Procedure CPR-04	F1, F2, F3	O
Mass, Force, and Weighing Devices	Equipment to Measure Force (Compression and Tension)	300 lbf to 30 000 lbf	21 lbf	Morehouse Load cells S/N: P-10709	ASTM E4 & ASTM E70 CPR Procedure CPR-04	F1, F2, F3	O
Mass, Force, and Weighing Devices	Equipment to Measure Force (Compression and Tension)	2 500 lbf to 60 000 lbf	83 lbf	Morehouse Load cells S/N:110212A	ASTM E4 & ASTM E70 CPR Procedure CPR-04	F1, F2, F3	O
Mass, Force, and Weighing Devices	Equipment to Measure Force (Compression and Tension)	5 N to 450 N	8.9 N	Load cells S/N:12839	ASTM E4 & ASTM E70 CPR Procedure CPR-04	F1, F2, F3	O
Mass, Force,	Equipment to Measure	450 N to 4 500 N	29 N	Morehouse Load cells	ASTM E4 &	F1, F2, F3	O

Certificate of Accreditation: Supplement

CPR Calibration Inc.

2931 Druid Lane, Los Alamitos, CA 90720
Contact Name: Chris Reilly Phone: 714-767-9468

Accreditation is granted to the facility to perform the following conformity assessment activities:

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) [1]	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
and Weighing Devices	Force (Compression and Tension)			S/N: P-10711	ASTM E70 CPR Procedure CPR-04		
Mass, Force, and Weighing Devices	Equipment to Measure Force (Compression and Tension)	2 500 N to 22 000 N	41 N	Morehouse Load cells S/N: P-10710	ASTM E4 & ASTM E70 CPR Procedure CPR-04	F1, F2, F3	O
Mass, Force, and Weighing Devices	Equipment to Measure Force (Compression and Tension)	22 000 N to 89 000 N	103 N	Load cells	ASTM E4 & ASTM E70 CPR Procedure CPR-04	F1, F2, F3	O
Mass, Force, and Weighing Devices	Force Transducer with Displays	10 lbf to 100 lbf	2 lbf	Load cells	ASTM E4 & ASTM E70 CPR Procedure CPR-04	F1, F2, F3	O
Mass, Force, and Weighing Devices	Force Transducer with Displays	100 lbf to 1 000 lbf	6.6 lbf	Morehouse Load cells S/N: 00273423	ASTM E4 & ASTM E70 CPR Procedure CPR-04	F1, F2, F3	O
Mass, Force, and Weighing Devices	Force Transducer with Displays	500 lbf to 5 000 lbf	9.2 lbf	Morehouse Load cells S/N: 117581A	ASTM E4 & ASTM E70 CPR Procedure CPR-04	F1, F2, F3	O
Mass, Force, and Weighing Devices	Force Transducer with Displays	14 000 lbf to 500 000 lbf	1 000 lbf	Morehouse Load cells,S/N:906CB002	ASTM E4 & ASTM E70 CPR Procedure CPR-04	F1, F2, F3	O
Mass, Force, and Weighing Devices	Force Transducer with Displays	5 N to 450 N	8.9 N	Load cells	ASTM E4 & ASTM E70 CPR Procedure CPR-04	F1, F2, F3	O
Mass, Force, and Weighing Devices	Force Transducer with Displays	450 N to 4 500 N	29 N	Morehouse Load cells S/N:00273423	ASTM E4 & ASTM E70 CPR Procedure CPR-04	F1, F2, F3	O
Mass, Force, and Weighing Devices	Force Transducer with Displays	2 500 N to 22 000 N	41 N	Morehouse Load cells S/N:117581A	ASTM E4 & ASTM E70 CPR Procedure CPR-04	F1, F2, F3	O

Certificate of Accreditation: Supplement

CPR Calibration Inc.

2931 Druid Lane, Los Alamitos, CA 90720
Contact Name: Chris Reilly Phone: 714-767-9468

Accreditation is granted to the facility to perform the following conformity assessment activities:

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) [1]	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Mass, Force, and Weighing Devices	Clicker Wrenches	60 lbf•ft to 600 lbf•ft	3 lbf•ft + 0.00022 lbf•ft	Torque Transducer	CPR Procedure CPR-01	F1, F3	O
Mass, Force, and Weighing Devices	Clicker Wrenches	8 N•m to 80 N•m	41 N•m + 0.000 3 N•m	Torque Transducer	CPR Procedure CPR-01	F1, F3	O
Mass, Force, and Weighing Devices	Balances and Scales	1 mg to 211 g	2.6 mg	Class S1 weights, Class F weights	CPR Procedure CPR-013	F1, F3	O
Mass, Force, and Weighing Devices	Balances and Scales	0.2 kg to 60 kg	760 mg	Class S1 weights, Class F weights	CPR Procedure CPR-013	F1, F3	O
Mass, Force, and Weighing Devices	Balances and Scales	1 lb to 1 000 lb	0.23 lb + 0.002 2 lb/lb	Class S1 weights, Class F weights	CPR Procedure CPR-013	F1, F3	O
Mass, Force, and Weighing Devices	Platform Scales	10 lb to 5 000 lb	0.35 lb	Class S1 weights, Class F weights	CPR Procedure CPR-013	F1, F3	O
Time and Frequency	Crosshead Speed	01 in/minute to 40 in/minute	0.67 sec * 0.096 ssc/min	Stopwatch, Dial indicator	CPR Procedure CPR-05	F1, F3	O
Thermodynamic	Oven Probe	20 °C to 1 200 °C	1.5 °C	Digital Thermometer, K type Thermocouple	ASTM E230 & CPR Procedure CPR-016	F1, F2, F3	O

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

CPR Calibration Inc.
2931 Druid Lane, Los Alamitos, CA 90720
Contact Name: Chris Reilly Phone: 714-767-9468

Accreditation is granted to the facility to perform the following conformity assessment activities:

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. Location of activity:

Location Code	Location
O	Conformity assessment activity is performed onsite at the CABs customer 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.