



# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

## Certificate of Accreditation

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

***Charlotte Scale Co., Inc.***  
***1510 Ameron Drive, Charlotte, NC 28206***

*(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):

***Calibration of Mass Weighing Devices (Including but not Limited to): Analytical  
Balances, Platform Scales, and Vehicle/Truck Scales***  
***(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:*

May 16, 2001

*Issue Date:*

May 06, 2023

*Expiration Date:*

September 30, 2025

*Accreditation No.:*

59084

*Certificate No.:*

L23-360

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](http://www.pjllabs.com)*



# Certificate of Accreditation: Supplement

## Charlotte Scale Co., Inc.

1510 Ameron Drive, Charlotte, NC 28206  
 Contact Name: Jason Maggs Phone: 704-376-8496

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                    |
|---|---|--|---|
| Balances <sup>FO</sup>                                      | Up to 320 g<br>(Resolution = 0.000 1 g)     | $(1 \times 10^{-4} + 2.72 \times 10^{-6}Wt) \text{ g}$                       | ASTM E617 Class 1 Weights, Manufacturer Instructions or Euramet cg-18 |
|   | Up to 1 100 g<br>(Resolution = 0.001 g)     | $(1.2 \times 10^{-3} + 2.06 \times 10^{-6}Wt) \text{ g}$                     |   |
|   | Up to 6 100 g<br>(Resolution = 0.01 g)      | $(1.16 \times 10^{-2} + 1.49 \times 10^{-6}Wt) \text{ g}$                    |   |
|   | Up to 10 000 g<br>(Resolution = 0.2 g)      | $(2.31 \times 10^{-1} + 1.66 \times 10^{-7}Wt) \text{ g}$                    |   |
|   | Up to 10 000 g<br>(Resolution = 1 g)        | $(1.153 \text{ 8} + 4.79 \times 10^{-5}Wt) \text{ g}$                        | Class F Weights, Manufacturer Instructions or NIST HB44               |
| Bench Scales <sup>FO</sup>                                  | Up to 50 lb<br>(Resolution = 0.005 lb)      | $(5.8 \times 10^{-3} + 4.95 \times 10^{-5}Wt) \text{ lb}$                    | Class F Weights, Manufacturer Instructions or NIST HB44               |
|   | Up to 100 lb<br>(Resolution = 0.01 lb)      | $(1.15 \times 10^{-2} + 4.95 \times 10^{-5}Wt) \text{ lb}$                   |   |
|   | Up to 200 lb<br>(Resolution = 0.02 lb)      | $(2.29 \times 10^{-2} + 5.02 \times 10^{-5}Wt) \text{ lb}$                   |   |
|   | Up to 500 lb<br>(Resolution = 0.05 lb)      | $(5.73 \times 10^{-2} + 5.01 \times 10^{-5}Wt) \text{ lb}$                   |   |
| Floor Scales, Hopper Scales, and Crane Scales <sup>FO</sup> | Up to 5 000 lb<br>(Resolution = 0.5 lb)     | $(5.75 \times 10^{-1} + 4.77 \times 10^{-5}Wt) \text{ lb}$                   | Class F Weights, Manufacturer Instructions or NIST HB44               |
|   | Up to 10 000 lb<br>(Resolution = 1 lb)      | $(1.131 \text{ 5} + 4.95 \times 10^{-5}Wt) \text{ lb}$                       |   |
|   | Up to 20 000 lb<br>(Resolution = 2 lb)      | $(2.262 \text{ 8} + 4.95 \times 10^{-5}Wt) \text{ lb}$                       |   |
|   | Up to 50 000 lb<br>(Resolution = 5 lb)      | $(5.726 \text{ 7} + 4.81 \times 10^{-5}Wt) \text{ lb}$                       |   |
| Truck and Track Scales <sup>O</sup>                         | Up to 100 000 lb<br>(Resolution = 10 lb)    | $(11.477 + 4.79 \times 10^{-5}Wt) \text{ lb}$                                | Class F Weights, Manufacturer Instructions or NIST HB44               |
|   | Up to 200 000 lb<br>(Resolution = 20 lb)    | $(23.023 + 4.75 \times 10^{-5}Wt) \text{ lb}$                                |   |
|   | Up to 400 000 lb<br>(Resolution = 50 lb)    | $(55.777 + 4.48 \times 10^{-5}Wt) \text{ lb}$                                |   |

- 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 O means that the laboratory performs calibration of the indicated parameter onsite at customer locations. Example: Outside Micrometer<sup>O</sup> would mean that the laboratory performs this calibration onsite at the customer's location.
4. 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<sup>FO</sup> would mean that the laboratory performs this calibration at its fixed location and onsite at customer locations.
5. 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.
6. The term Wt represents weight in pounds or grams (including SI multiple and submultiple units) appropriate to the uncertainty statement.