CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Worcester Scale Company, Inc.
228 Brooks Street
Worcester, MA 01606

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

CALIBRATION

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 09 April 2023
Certificate Number: AC-1266

This laboratory 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 (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Worcester Scale Company, Inc.
228 Brooks Street
Worcester, MA 01606
Steven Hoogasian 508-853-2886

CALIBRATION

Valid to: **April 9, 2023** Certificate Number: **AC-1266**

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Analytical Balances [1,2]	Up to 50 g (51 to 100) g (101 to 200) g (201 to 500) g	0.14 mg 0.19 mg 0.32 mg 0.75 mg	ASTM E617 Class 0 Weights and NIST Handbook 44 utilized in the calibration of the weighing system.
Class I Balances [1,2]	Up to 50 g (51 to 100) g (101 to 200) g (201 to 500) g (501 to 1 000) g (1 001 to 2 000) g (2 001 to 5 000) g (5 001 to 10 000) g (10 001 to 16 000) g	0.17 mg 0.31 mg 0.59 mg 1.4 mg 3.1 mg 6.0 mg 14 mg 31 mg 47 mg	ASTM E617 Class 1 Weights and NIST Handbook 44 utilized in the calibration of the weighing system.
Class II Scales/Balances [1,2]	Up to 100 g (101 to 500) g (501 to 1 000) g (1 001 to 5 000) g (5 001 to 10 000) g	1.3 mg 6.5 mg 13 mg 65 mg 0.13 g	ASTM E617 Class 2 Weights and NIST Handbook 44 utilized in the calibration of the weighing system.
Class III Scales [1,2] (Avoirdupois)	Up to 10 lb (11 to 50) lb (51 to 100) lb (101 to 500) lb (501 to 1 000) lb (1 001 to 5 000) lb (5 001 to 10 000) lb (10 001 to 20 000) lb	0.001 2 lb 0.005 6 lb 0.012 lb 0.6 lb 0.12 lb 0.6 lb 1.17 lb 2.43 lb	NIST Class F Weights and NIST Handbook 44 utilized in the calibration of the weighing system.

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Class III Scales [1,2] (Metric)	Up to 1 000 g (1 001 to 2 000) g (2 001 to 5 000) g (5 001 to 10 000) g (10 001 to 20 000) g (20 001 to 50 000) g (50 001 to 100 000) g	0.12 g 0.24 g 0.6 g 1.2 g 2.4 g 5.9 g 12 g	NIST Class F Weights and NIST Handbook 44 utilized in the calibration of the weighing system.
Crane Scales [1,2]	Up to 10 lb (11 to 50) lb (51 to 100) lb (101 to 500) lb (501 to 1 000) lb (1 001 to 2 500) lb (2 501 to 5 000) lb (5 001 to 10 000) lb (10 001 to 20 000) lb	0.001 2 lb 0.005 6 lb 0.012 lb 0.06 lb 0.12 lb 0.31 lb 20 lb 30 lb 60 lb	NIST Class F Weights up to 2 500 lb, Load Tester up to 20 000 lb and internal calibration procedure WSC -073 utilized in the calibration of the weighing system.
Class III L Scales [1,2]	Up to 200 000 lb	24 lb	NIST Class F Weights, Weight Cart and NIST Handbook 44 utilized in the calibration of the weighing system.
Force Gages [1]	Up to 10 lb (10 to 50) lb (50 to 100) lb (100 to 500) lb (500 to 1 000) lb (1 000 to 2 000) lb	0.001 7 lb 0.008 3 lb 0.013 lb 0.13 lb 0.17 lb 0.34 lb	NIST Class F Weights and internal calibration procedure WSC -072 utilized in the calibration of the force gage.

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 (k=2), corresponding to a confidence level of approximately 95%.

Notes:

1. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope.
2. The CMC for scales and balances is highly dependent upon the resolution of the unit under test. The CMC presented here does not include the resolution of the unit under test. The resolution will be included in the reported measurement uncertainty at the time of calibration.
3. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-1266.

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