

### TEXAS DEPARTMENT OF AGRICULTURE

COMMISSIONER SID MILLER

Metrology Laboratory - 1258 CR 226 / P.O. Box 1518 - Giddings, Texas 78942 Phone: (979) 542-3231 - Fax: (888) 205-7741

G-000009564

# CALIBRATION CERTIFICATE

For 5 - 1000 lb Weights

Submitted By

Bastrop Scale Company Incorporated PO Drawer 2100 Bastrop, Texas 78602

The measurement results of the Texas Department of Agriculture, Giddings Metrology Laboratory are traceable to the International System of Units (SI) through the measurements at the National Institute of Standards and Technology (NIST) and are a part of comprehensive measurement assurance program for ensuring continuous accuracy and measurement traceability within the level of the uncertainty reported by this laboratory. The laboratory calibration number above is the unique report number to be used in referencing measurement traceability for artifacts identified in this certificate only. The data applies only to the artifacts identified in this certificate at the time of test. Calibration certificate shall not be reproduced, except in full, without written laboratory approval.

Received Date: 07/10/2025

Condition Received: Acceptable

Calibration Date: 07/11/2025 Calibration Due: 07/31/2026

Issue Date: 07/11/2025 Average Temperature: 20.6 °C Average Humidity: 53.45 %

Procedure: NISTIR 6969, SOP No. 8, Modified Substitution (Rev. 2019)

Mass Standards: Giddings Metrology Laboratory Mass Echelon III Standards

Only compliance with tolerance specifications were evaluated for items listed on this certificate (failing values are indicated in the table, if any.) The uncertainty of the measurement was taken into account when making this statement of compliance. The weights were not evaluated for conformance with technical requirements (design, construction, material, magnetism, density, surface finish and marking.) Tolerances were taken from NIST 105-1 (1990), ASTM E617 (2023) or OIML R111 (2004).

The combined standard uncertainty consists of both Type A and Type B components, including the standard uncertainty reported for the standard, the standard uncertainty for the measurement process, and a component of uncertainty to account for any observed deviations that have a significant effect on the calibration combined, using the root sum square method. Air buoyancy was considered negligible and was not included. The uncertainty does not include contribution due to magnetism or irregular conditions on the surface of the weights. The expanded uncertainty given is in compliance with BIPM JCGM 100:2008, Guide to the Expression of Uncertainty in Measurement (GUM), 2008 and follows NISTIR 6969, SOP 29 (2019), with a variable k (coverage factor) representing a 95.45 % confidence level.

### Note:

A positive correction indicates that the weight is heavier than the stated nominal value. A negative correction indicates that the weight is lighter than the stated nominal value.

#### Conversions:

milligram (mg) to kilogram (kg): kg = mg / 1000000milligram (mg) to gram (g): g = mg / 1000

milligram (mg) to pound (lb): lb = mg x 0.000002204622621848776 milligram (mg) to ounce (oz): oz = mg x 0.00003527396194958041

This certificate must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Lisa Corn

Manager for Metrology Laboratory Agency Representative



Keri Schatte Metrologist

Approved Signatory



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Calibration Date 07/11/2025

5 - 1000 lb Weights

Calibration Number G-000009564

Date Due 07/31/2026

Submitted by

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Observations:

Average Temperature: 20.6 °C Average Humidity: 53.45 %

SOP Used: NISTIR 6969, SOP No. 8, Modified Substitution

The artifacts described below have been compared to the standards of the State of Texas and were found to have the following mass corrections:

Nominal Value	Serial	ID#	As Found Mass Correction ( mg )	As Left Mass Correction ( mg )	Expanded	Expanded	k	Tolerance Class	Tolerance Status	Tolerance ( mg )
						Uncertainty ( mg )				
1000 lb	1010	-	-3000	-3000		6400	2.012	NIST F	In Tolerance	45000
1000 lb	1014	-	4900	4900	7	6400	2.012	NIST F	In Tolerance	45000
1000 lb	1004	-	23500	23500	· · · · ·	6400	2.012	NIST F	In Tolerance	45000
1000 lb	1004 BS6251	-	-23400	-23400		6400	2.012	NIST F	In Tolerance	45000
1000 lb	1RJ6		-34700	800	٠	6400	2.012	NIST F	In Tolerance	45000
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· denotes a weight that was adjusted per NISTIR 6969, SOP 8.

▲ denotes a weight that was rejected.

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