



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

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CALIBRATION CERTIFICATE

Calibration Number
G-000010107A
AMENDED

For
5 - 1000 lb Weights
8 - 50 lb Weights
Weight Kit

Submitted By
Bastrop Scale Company Incorporated
PO Drawer 2100
Bastrop, Texas 78602
512-321-3443

The measurement results of the Texas Department of Agriculture, Giddings Metrology Laboratory are traceable to the International System of Units (SI) via the Consensus Value 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.

Calibration Date: 08/13/2026	Received Date: 08/12/2026
Calibration Due: 08/31/2027	Condition Received: Acceptable
Issue Date: 09/22/2026	
Average Temperature: 21.45 °C	
Average Humidity: 48.58 %	
Procedure: NISTIR 6969, SOP No. 8, Modified Substitution (Rev. 2019)	
Mass Standards: Giddings Metrology Laboratory Mass Echelon III Standards	

For cast-iron weights 10 kg and larger, acceptance tolerances corresponding to ASTM Class 6 (numerically equivalent to NIST Class F) have been applied. Listing ASTM Class 6 in the tolerance class column reflects the tolerance criteria used for evaluation only and does not constitute assignment, verification, or reclassification of weight class. 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.

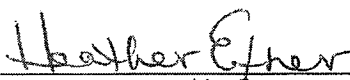
Note:

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.

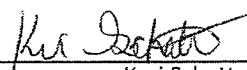
Conversions:

milligram (mg) to kilogram (kg): $kg = mg / 1000000$
milligram (mg) to gram (g): $g = mg / 1000$
milligram (mg) to pound (lb): $lb = mg \times 0.000002204622621848776$
milligram (mg) to ounce (oz): $oz = mg \times 0.00003527396194958041$

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

For: 
Lisa Corn
Manager for Metrology Laboratory
Agency Representative




Keri Schatte
Metrologist
Approved Signatory



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5 - 1000 lb Weights

8 - 50 lb Weights

Weight Kit

Calibration Number

G-000010107A

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Date Due

08/31/2027

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Bastrop Scale Company Incorporated

PO Drawer 2100

Bastrop, Texas 78602

Average Temperature: 21.45 °C

Average Humidity: 48.58 %

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

Observations:

Certificate was amended from listing 8 - 25 lb to 8 - 50 lb to reflect the weights calibrated.

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 Uncertainty (mg)	k factor	Tolerance Class	Tolerance Status	Tolerance (mg)
1000 lb	BS6181	-	-65800	2300	6200	2.009	ASTM 6	In Tolerance	45000
1000 lb	BS622	-	-46100	1600	6200	2.009	ASTM 6	In Tolerance	45000
1000 lb	BS621	-	-41300	700	6200	2.009	ASTM 6	In Tolerance	45000
1000 lb	953101C	-	-47600	1400	6200	2.009	ASTM 6	In Tolerance	45000
1000 lb	BS612	-	-55500	1400	6200	2.009	ASTM 6	In Tolerance	45000
50 lb	BS47	-	-23050	-20	300	2.002	ASTM 6	In Tolerance	2300
50 lb	BS138	-	2940	10	300	2.002	ASTM 6	In Tolerance	2300
50 lb	BS6211	-	-690	-690	300	2.002	ASTM 6	In Tolerance	2300
50 lb	BS130	-	-3560	40	300	2.002	ASTM 6	In Tolerance	2300
50 lb	BS73	-	-3410	-10	300	2.002	ASTM 6	In Tolerance	2300
50 lb	BS6218	-	-1590	-1590	300	2.002	ASTM 6	In Tolerance	2300
50 lb	BS40	-	-2200	-40	300	2.002	ASTM 6	In Tolerance	2300
50 lb	BS134	-	-1260	-1260	300	2.002	ASTM 6	In Tolerance	2300
5 lb	21832	A	47	47	28	2.002	NIST F	In Tolerance	230
5 lb	21832	B	60	60	28	2.002	NIST F	In Tolerance	230
5 lb	21832	C	39	39	28	2.002	NIST F	In Tolerance	230
5 lb	21832	D	46	46	28	2.002	NIST F	In Tolerance	230
5 lb	21832	E	55	55	28	2.002	NIST F	In Tolerance	230
1 lb	21832	1	14.1	14.1	8.3	2.004	NIST F	In Tolerance	70
1 lb	21832	A	3.9	3.9	8.3	2.004	NIST F	In Tolerance	70
1 lb	21832	B	13.8	13.8	8.3	2.004	NIST F	In Tolerance	70
1 lb	21832	C	2.6	2.6	8.3	2.004	NIST F	In Tolerance	70
1 lb	21832	E	11.0	11.0	8.3	2.004	NIST F	In Tolerance	70
8 oz	21832	-	12.2	12.2	5.4	2.014	NIST F	In Tolerance	45
0.2 lb	21832	-	5.2	5.2	2.1	2.01	NIST F	In Tolerance	18
0.2 lb	21832	*	4.9	4.9	2.1	2.01	NIST F	In Tolerance	18
0.1 lb	21832	-	2.2	2.2	1.1	2.005	NIST F	In Tolerance	9.1
0.05 lb	21832	-	0.34	0.34	0.54	2.015	NIST F	In Tolerance	4.5
0.02 lb	21832	-	-1.33	-1.33	0.22	2.012	NIST F	In Tolerance	1.8
0.02 lb	21832	*	0.21	0.21	0.22	2.012	NIST F	In Tolerance	1.8

* denotes a weight that was adjusted per NISTIR 6969, SOP 8.

▲ denotes a weight that was rejected.

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