



# 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

Page 1 of 6

Calibration Number

G-000009760

## CALIBRATION CERTIFICATE

For

1 - 5500 lb Weight Cart  
16 - 1000 lb Weights, 41 - 50 lb Weights  
4 - 25 lb Weights, 3 - Weight Kits

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.

Calibration Date: 12/04/2025

Received Date: 12/03/2025

Calibration Due: 12/31/2026

Condition Received: Acceptable

Issue Date: 12/04/2025

Average Temperature: 21.35 °C

Average Humidity: 44.23 %

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:

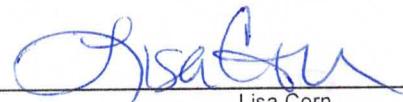
milligram (mg) to kilogram (kg): kg = mg / 1000000

milligram (mg) to gram (g): g = mg / 1000

milligram (mg) to pound (lb): lb = mg x 0.000002204622621848776

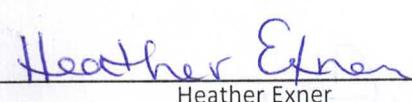
milligram (mg) to ounce (oz): oz = mg x 0.00003527396194958041

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

  
NVLAP<sup>®</sup>  
CALIBRATION  
NVLAP Lab Code 600376-0

  
Heather Exner  
Metrologist  
Approved Signatory



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## CALIBRATION CERTIFICATE

For

Calibration Date

12/04/2025

Calibration Number

G-000009760

1 - 5500 lb Weight Cart  
16 - 1000 lb Weights, 41 - 50 lb Weights  
4 - 25 lb Weights, 3 - Weight Kits

Date Due

12/31/2026

Submitted by  
Bastrop Scale Company, Incorporated  
PO Drawer 2100  
Bastrop, Texas 78602

Average Temperature: 21.35 °C

Average Humidity: 44.23 %

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

### Observations:

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

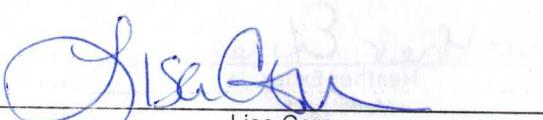
Nominal Value	Serial	ID #	As Found Mass Correction (mg)	As Left Mass Correction (mg)	Expanded Uncertainty (mg)	k factor	Tolerance Class	Tolerance Status	Tolerance (mg)
5500 LB CART	135-M31730-010693	-	580000	580000	140000	2.149	CART	In Tolerance	875000
1000 lb	97621	-	-16100	-16100	6200	2.009	NIST F	In Tolerance	45000
1000 lb	97622	-	-17700	-17700	6200	2.009	NIST F	In Tolerance	45000
1000 lb	97625	-	-33200	-33200	6200	2.009	NIST F	In Tolerance	45000
1000 lb	97626	-	13300	13300	6200	2.009	NIST F	In Tolerance	45000
1000 lb	97627	-	-27000	-27000	6200	2.009	NIST F	In Tolerance	45000
1000 lb	97628	-	30000	-30000	6200	2.009	NIST F	In Tolerance	45000
1000 lb	97629	-	-17100	-17100	6200	2.009	NIST F	In Tolerance	45000
1000 lb	97802	-	-2600	-2600	6200	2.009	NIST F	In Tolerance	45000
1000 lb	BS100	-	-14100	-14100	6200	2.009	NIST F	In Tolerance	45000
1000 lb	BS102	-	-23100	-23100	6200	2.009	NIST F	In Tolerance	45000
1000 lb	BS103	-	-37700	-300	6200	2.009	NIST F	In Tolerance	45000
1000 lb	BS104	-	-24300	-24300	6200	2.009	NIST F	In Tolerance	45000
1000 lb	BS105	-	-35000	1000	6200	2.009	NIST F	In Tolerance	45000
1000 lb	BS106	-	-12800	-12800	6200	2.009	NIST F	In Tolerance	45000
1000 lb	BS107	-	-14300	-14300	6200	2.009	NIST F	In Tolerance	45000
1000 lb	BS108	-	-28600	-28600	6200	2.009	NIST F	In Tolerance	45000
50 lb	5PP8	-	-1240	-1240	300	2.002	NIST F	In Tolerance	2300
50 lb	BS115	-	-2180	10	300	2.002	NIST F	In Tolerance	2300
50 lb	BS117	-	-3270	0	300	2.002	NIST F	In Tolerance	2300
50 lb	BS118	-	-1560	-1560	300	2.002	NIST F	In Tolerance	2300
50 lb	BS122	-	-3380	0	300	2.002	NIST F	In Tolerance	2300
50 lb	BS123	-	-3690	-20	300	2.002	NIST F	In Tolerance	2300
50 lb	BS128	-	-5040	20	300	2.002	NIST F	In Tolerance	2300
50 lb	BS133	-	-2320	-20	300	2.002	NIST F	In Tolerance	2300
50 lb	BS137	-	-1630	-1630	300	2.002	NIST F	In Tolerance	2300
50 lb	BS140	-	-7120	10	300	2.002	NIST F	In Tolerance	2300
50 lb	BS141	-	-4830	-20	300	2.002	NIST F	In Tolerance	2300
50 lb	BS142	-	-4630	-10	300	2.002	NIST F	In Tolerance	2300
50 lb	BS144	-	-1360	-1360	300	2.002	NIST F	In Tolerance	2300

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

▲ denotes a weight that was rejected.

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Lisa Corn  
Manager for Metrology Laboratory  
Agency Representative

  
NVLAP  
CALIBRATION  
NVLAP Lab Code 600376-0

  
Heather Exner  
Metrologist  
Approved Signatory

**TEXAS DEPARTMENT OF AGRICULTURE****COMMISSIONER SID MILLER**

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4 - 25 lb Weights, 3 - Weight Kits**Date Due**

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PO Drawer 2100  
Bastrop, Texas 78602

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Average Humidity: 44.23 %

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	As Left	Expanded Uncertainty	k factor	Tolerance Class	Tolerance Status	Tolerance (mg)
			Mass Correction (mg)	Mass Correction (mg)	(mg)				
50 lb	BS15	-	-4160	20	300	2.002	NIST F	In Tolerance	2300
50 lb	BS16	-	-2830	-10	300	2.002	NIST F	In Tolerance	2300
50 lb	BS19	-	-6680	-10	300	2.002	NIST F	In Tolerance	2300
50 lb	BS1A	-	-3060	40	300	2.002	NIST F	In Tolerance	2300
50 lb	BS20	-	-4080	-20	300	2.002	NIST F	In Tolerance	2300
50 lb	BS22	-	-1730	10	300	2.002	NIST F	In Tolerance	2300
50 lb	BS23	-	-3170	0	300	2.002	NIST F	In Tolerance	2300
50 lb	BS26	-	-1590	-1590	300	2.002	NIST F	In Tolerance	2300
50 lb	BS32	-	-3700	-10	300	2.002	NIST F	In Tolerance	2300
50 lb	BS34	-	-5260	-10	300	2.002	NIST F	In Tolerance	2300
50 lb	BS37	-	-4630	-30	300	2.002	NIST F	In Tolerance	2300
50 lb	BS39	-	-33850	-10	300	2.002	NIST F	In Tolerance	2300
50 lb	BS40	-	-1410	-1410	300	2.002	NIST F	In Tolerance	2300
50 lb	BS42	-	-1390	-1390	300	2.002	NIST F	In Tolerance	2300
50 lb	BS48	-	-2390	20	300	2.002	NIST F	In Tolerance	2300
50 lb	BS51	-	-4740	40	300	2.002	NIST F	In Tolerance	2300
50 lb	BS58	-	-3100	-20	300	2.002	NIST F	In Tolerance	2300
50 lb	BS618	-	-3590	40	300	2.002	NIST F	In Tolerance	2300
50 lb	BS6203	-	-2500	40	300	2.002	NIST F	In Tolerance	2300
50 lb	BS6204	-	-2830	0	300	2.002	NIST F	In Tolerance	2300
50 lb	BS6212	-	-2020	-10	300	2.002	NIST F	In Tolerance	2300
50 lb	BS6215	-	-1790	20	300	2.002	NIST F	In Tolerance	2300
50 lb	BS63	-	-4280	0	300	2.002	NIST F	In Tolerance	2300
50 lb	BS630	-	-1410	-1410	300	2.002	NIST F	In Tolerance	2300
50 lb	BS635	-	-2610	10	300	2.002	NIST F	In Tolerance	2300
50 lb	BS641	-	-1300	-1300	300	2.002	NIST F	In Tolerance	2300
50 lb	BS701	-	-7000	-10	300	2.002	NIST F	In Tolerance	2300
50 lb	BS80	-	-640	-640	300	2.002	NIST F	In Tolerance	2300
25 lb	BS6262	-	-260	-260	140	2.006	ASTM 6	In Tolerance	1100
25 lb	BS6263	-	-830	-10	140	2.006	ASTM 6	In Tolerance	1100

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

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Lisa CornManager for Metrology Laboratory  
Agency Representative  
NVLAP Lab Code 600376-0  
Heather Exner  
Metrologist  
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16 - 1000 lb Weights, 41 - 50 lb Weights  
4 - 25 lb Weights, 3 - Weight Kits

Date Due

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Submitted by

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PO Drawer 2100  
Bastrop, Texas 78602

Average Temperature: 21.35 °C

Average Humidity: 44.23 %

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 Uncertainty (mg)	k factor	Tolerance Class	Tolerance Status	Tolerance (mg)
25 lb	BS6264	-	-1400	-10	140	2.008	ASTM 6	In Tolerance	1100
25 lb	BS6265	-	-1700	-10	140	2.008	ASTM 6	In Tolerance	1100
5 kg	BS126	-	-3	-3	60	2.005	NIST F	In Tolerance	500
4 kg	BS126	-	-38	-38	49	2.045	NIST F	In Tolerance	400
3 kg	BS126	-	59	59	37	2.081	NIST F	In Tolerance	300
2 kg	BS126	-	23	23	24	2.008	NIST F	In Tolerance	200
500 g	BS126	-	10.1	10.1	8.3	2.007	NIST F	In Tolerance	70
300 g	BS126	-	6.0	6.0	7.3	2.072	NIST F	In Tolerance	60
200 g	BS126	-	0.1	0.1	4.7	2.009	NIST F	In Tolerance	40
100 g	BS126	-	-0.3	-0.3	2.4	2.009	NIST F	In Tolerance	20
50 g	BS126	-	2.6	2.6	1.2	2.009	NIST F	In Tolerance	10
20 g	BS126	-	0.60	0.60	0.47	2.009	NIST F	In Tolerance	4
20 g	BS126	*	0.57	0.57	0.47	2.009	NIST F	In Tolerance	4
10 g	BS126	-	0.24	0.24	0.24	2.011	NIST F	In Tolerance	2
5 g	BS126	-	-0.05	-0.05	0.18	2.011	NIST F	In Tolerance	1.5
2 g	BS126	-	0.34	0.34	0.13	2.01	NIST F	In Tolerance	1.1
2 g	BS126	*	0.39	0.39	0.13	2.01	NIST F	In Tolerance	1.1
1 g	BS126	-	0.07	0.07	0.11	2.009	NIST F	In Tolerance	0.9
5 lb	BS90	-	-55	-55	28	2.002	NIST F	In Tolerance	230
5 lb	BS90	*	23	23	28	2.002	NIST F	In Tolerance	230
5 lb	BS90	**	10	10	28	2.002	NIST F	In Tolerance	230
5 lb	BS90	***	-56	-56	28	2.002	NIST F	In Tolerance	230
5 lb	BS90	****	-78	-78	28	2.002	NIST F	In Tolerance	230
1 lb	BS90	-	21.2	21.2	8.3	2.004	NIST F	In Tolerance	70
1 lb	BS90	*	2.2	2.2	8.3	2.004	NIST F	In Tolerance	70
1 lb	BS90	**	15.8	15.8	8.3	2.004	NIST F	In Tolerance	70
1 lb	BS90	***	-2.9	-2.9	8.3	2.004	NIST F	In Tolerance	70
1 lb	BS90	****	-2.3	-2.3	8.3	2.004	NIST F	In Tolerance	70
8 oz	BS90	-	6.5	6.5	5.4	2.014	NIST F	In Tolerance	45
0.2 lb	BS90	-	5.3	5.3	2.1	2.01	NIST F	In Tolerance	18

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

▲ denotes a weight that was rejected.

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).

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Average Humidity: 44.23 %

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 Uncertainty ( mg )	k factor	Tolerance Class	Tolerance Status	Tolerance ( mg )
0.2 lb	BS90	*	6.3	6.3	2.1	2.01	NIST F	In Tolerance	18
0.1 lb	BS90	-	3.7	3.7	1.1	2.005	NIST F	In Tolerance	9.1
0.05 lb	BS90	-	2.06	2.06	0.54	2.015	NIST F	In Tolerance	4.5
0.02 lb	BS90	-	0.69	0.69	0.22	2.012	NIST F	In Tolerance	1.8
0.02 lb	BS90	*	0.68	0.68	0.22	2.012	NIST F	In Tolerance	1.8
0.01 lb	BS90	-	0.58	0.58	0.18	2.015	NIST F	In Tolerance	1.5
0.005 lb	BS90	-	0.18	0.18	0.15	2.01	NIST F	In Tolerance	1.2
0.002 lb	BS90	-	0.42	0.42	0.10	2.015	NIST F	In Tolerance	0.87
0.002 lb	BS90	*	0.49	0.49	0.10	2.015	NIST F	In Tolerance	0.87
0.001 lb	BS90	-	0.317	0.317	0.084	2.016	NIST F	In Tolerance	0.7
.5 lb	BS97	A	-100	-100	28	2.002	NIST F	In Tolerance	230
.5 lb	BS97	BS97	13	13	28	2.002	NIST F	In Tolerance	230
.5 lb	BS97	C	-5	-5	28	2.002	NIST F	In Tolerance	230
.5 lb	BS97	D	-84	-84	28	2.002	NIST F	In Tolerance	230
.5 lb	BS97	E	-89	-89	28	2.002	NIST F	In Tolerance	230
1 lb	BS97	A	14.8	14.8	8.3	2.004	NIST F	In Tolerance	70
1 lb	BS97	B	-15.3	-15.3	8.3	2.004	NIST F	In Tolerance	70
1 lb	BS97	C	0.4	0.4	8.3	2.004	NIST F	In Tolerance	70
1 lb	BS97	D	-2.8	-2.8	8.3	2.004	NIST F	In Tolerance	70
1 lb	BS97	E	-9.0	-9.0	8.3	2.004	NIST F	In Tolerance	70
8 oz	BS97	-	9.6	9.6	5.4	2.014	NIST F	In Tolerance	45
0.2 lb	BS97	-	3.6	3.6	2.1	2.01	NIST F	In Tolerance	18
0.2 lb	BS97	*	0.1	0.1	2.1	2.01	NIST F	In Tolerance	18
0.1 lb	BS97	-	-5.5	-5.5	1.1	2.005	NIST F	In Tolerance	9.1
0.05 lb	BS97	-	-1.38	-1.38	0.54	2.015	NIST F	In Tolerance	4.5
4 oz	BS97	-	-0.8	-0.8	2.7	2.007	NIST F	In Tolerance	23
2 oz	BS97	-	2.6	2.6	1.3	2.008	NIST F	In Tolerance	11
1 oz	BS97	-	1.25	1.25	0.65	2.004	NIST F	In Tolerance	5.4
0.02 lb	BS97	-	-0.27	-0.27	0.22	2.012	NIST F	In Tolerance	1.8
0.02 lb	BS97	*	0.43	0.43	0.22	2.012	NIST F	In Tolerance	1.8

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1 - 5500 lb Weight Cap

16 - 1000 lb Weights, 41 - 50 lb Weights

4 - 25 lb Weights, 3 - Weight Kits

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Average Humidity: 44.23 %

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:

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

▲ denotes a weight that was rejected.

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.

  
Lisa Corn  
Manager for Metrology Laboratory  
Agency Representative



Heather Exner  
Heather Exner  
Metrologist  
Approved Signatory



# 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

Calibration Number  
G-000009760

## SUBMITTED BY

Bastrop Scale Company, Incorporated  
PO Drawer 2100  
Bastrop, Texas 78602

### Inspection Checklist for Weight Cart

Date of Inspection: 12/4/2025

Model Number: WM-20

Date of Manufacture: 04/13/1986

Serial Number: 135-M31730-010693

Nominal of Weight Cart: 5500 lb

Suitable Marked: Yes

Powered by: Gas

Fluid Level:  Engine Oil

Sealed: No

Battery

Sealed: No

Liquid Fuel

Reference Level: Yes

Are all surfaces free from lubricants, scale, grit, dirty or any foreign matter? Yes

Do fluid drain tubes extend beyond the body of the cart? Yes

Are the tires in acceptable condition (free from major deformation?) Yes

Are drain holes present in locations where water may accumulate? Yes

Is the weight restraint railing permanently fixed and solid? Yes

Is the adjusting cavity accessible? Yes

Does the adjustment cavity have the capacity to adjust for tolerance? Yes

Was the adjustment cavity sealed? Yes

Were the fuel error weights submitted for calibration? No

General Condition at the time of calibration (note any debris, damage, lose parts or evidence of tampering)

Good

Lisa Corn

Manager for Metrology Laboratory

Heather Exner

Metrologist