



Calibration Number  
 G-000009544

# CALIBRATION CERTIFICATE

For  
 11 - 50 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.

Calibration Date: 06/27/2025	Received Date: 06/26/2025
Calibration Due: 06/30/2026	Condition Received: Acceptable
Issue Date: 06/27/2025	
Average Temperature: 20.72 °C	
Average Humidity: 54.23 %	
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.

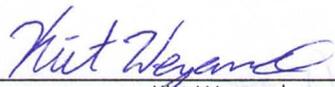
**Conversions:**

- 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



  
 Kirt Weyand  
 Metrologist  
 Approved Signatory



# TEXAS DEPARTMENT OF AGRICULTURE

COMMISSIONER SID MILLER

Metrology Laboratory - 1258 CR 226 / P.O. Box 1518 - Giddings, Texas 78942

## CALIBRATION CERTIFICATE

For

Calibration Date  
06/27/2025

11 - 50 lb Weights

Calibration Number  
G-000009544

Date Due  
06/30/2026

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

Average Temperature: 20.72 °C  
Average Humidity: 54.23 %  
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)
50 lb	BS602	-	-11330	-10	320	2.003	NIST F	In Tolerance	2300
50 lb	BS614	-	-4260	20	320	2.003	NIST F	In Tolerance	2300
50 lb	BS615	-	-750	-750	320	2.003	NIST F	In Tolerance	2300
50 lb	BS605	-	-7090	20	320	2.003	NIST F	In Tolerance	2300
50 lb	BS603	-	-3200	20	320	2.003	NIST F	In Tolerance	2300
50 lb	BS617	-	-3650	10	320	2.003	NIST F	In Tolerance	2300
50 lb	BS606	-	-5930	10	320	2.003	NIST F	In Tolerance	2300
50 lb	BS601	-	-5740	-10	320	2.003	NIST F	In Tolerance	2300
50 lb	BS610	-	-3190	20	320	2.003	NIST F	In Tolerance	2300
50 lb	BS76	-	-4540	0	320	2.003	NIST F	In Tolerance	2300
50 lb	BS121	-	-3490	0	320	2.003	NIST F	In Tolerance	2300

• 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



NVLAP Lab Code 600376-0

Kurt Weyand  
Metrologist  
Approved Signatory