



# 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

Test Number

G-000006020

## CALIBRATION CERTIFICATE

FOR

16 - 1000 lb, 15 - 50 lb, 2 - 25 lb

Test Weights

SUBMITTED BY

Bastrop Scale Company

P.O. Drawer 2100

Bastrop, Texas 78602

The standards of Texas are traceable to the National Institute of Standards and Technology (NIST) and are part of a comprehensive measurement assurance program for ensuring continued accuracy and measurement traceability within the level of the uncertainty reported by this laboratory. The data below applies only to the artifacts identified in this report at the time of test.

Test Date: 04/18/2017  
Calibration Due: 04/30/2018

Received Date: 04/17/2017  
Condition Received: Acceptable

Temperature Range: 18 °C to 27 °C  
Relative Humidity Range: 40 % to 60 %

Procedure: NISTIR 6969, SOP No. 8, Modified Substitution  
Balances: CCS600K-SN:21405144, CCE60K2-SN:26803155

Mass Standards: Giddings Metrology Laboratory Mass Echelon III Standards

The expanded standard uncertainty includes 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. No component is included in the expanded uncertainty for the effects of magnetism. The expanded uncertainty given here is in compliance with NIST Technical Note 1297 ("Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results") with a variable  $k$  representing a 95.45 % confidence level. Class F tolerance values are taken from NIST HB 105-1.

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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):  $lb = mg \times 0.00002204622621848776$   
milligram (mg) to ounce (oz):  $oz = mg \times 0.00003527396194958041$

Philip Lockwood  
Manager for Metrology Laboratory  
Agency Representative

Preston Adachi  
Metrologist  
Legal Signatory



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 04/18/2017

**Date Due**  
 04/30/2018

**Submitted by**  
 Bastrop Scale Company  
 P.O. Drawer 2100  
 Bastrop, Texas 78602

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

Temperature Range: 18 °C to 27 °C  
 Relative Humidity Range: 40 % to 60 %  
 SOP Used: NISTIR 6969, SOP No. 8, Modified Substitution

Nominal Value	Serial / ID #	As Found Mass Correction ( mg )	As Left Mass Correction ( mg )	Expanded Uncertainty ( mg )	Tolerance Class	Tolerance ( mg )
1000 lb	3613 -	18300	18300	7200	F	45000
1000 lb	3619 -	-3700	-3700	7200	F	45000
1000 lb	3612 -	11300	11300	7200	F	45000
1000 lb	3610 -	-14700	-14700	7200	F	45000
1000 lb	36HK -	300	300	7200	F	45000
1000 lb	3615 -	10300	10300	7200	F	45000
1000 lb	36HZ -	-16700	-16700	7200	F	45000
1000 lb	36HY -	-4700	-4700	7200	F	45000
1000 lb	3616 -	9300	9300	7200	F	45000
1000 lb	361C -	3300	3300	7200	F	45000
1000 lb	3614 -	-12700	-12700	7200	F	45000
1000 lb	3618 -	-2700	-2700	7200	F	45000
1000 lb	361A -	18300	18300	7200	F	45000
1000 lb	361B -	35300	-1700 ❖	7200	F	45000
1000 lb	3617 -	-6700	-6700	7200	F	45000
1000 lb	3611 -	36300	-4700 ❖	7200	F	45000
50 lb	BS 24	-11560	50 ❖	280	F	2300
50 lb	5PP D	-2060	80 ❖	280	F	2300
50 lb	BS 6209	1320	1320	280	F	2300
50 lb	BS 57	-5720	100 ❖	280	F	2300
50 lb	BS 124	-1820	-10 ❖	280	F	2300
50 lb	5PP B	-750	-750	280	F	2300
50 lb	BS 56A	-6300	-40 ❖	280	F	2300
50 lb	BS 76	-30600	80 ❖	280	F	2300
50 lb	BS 644	-2240	50 ❖	280	F	2300
50 lb	BS 61A	-5430	50 ❖	280	F	2300
50 lb	5PP 8	-2100	0 ❖	280	F	2300
50 lb	5PP A	-670	-670	280	F	2300
50 lb	5PP 9	5270	20 ❖	280	F	2300
50 lb	5PP C	-3750	90 ❖	280	F	2300
50 lb	BS 121	-25540	-20 ❖	280	F	2300

❖ denotes a weight that was adjusted IAW NISTIR 6969, SOP 8.

■ denotes a weight that was rejected.

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25 lb	BS 65	-410	-410	140	F	1100
25 lb	BS 67	-240	-240	140	F	1100

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