



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-000006623

CALIBRATION CERTIFICATE

FOR
1 - 3500 lb CART
4 - 2500 lb, 2 - 1000 lb, 22 - 50 lb
Test Weights
3 - Weight Kits

SUBMITTED BY
Bastrop Scale Company
P.O. Drawer 2100
Bastrop, Texas 78602

The standards and measurements of the Texas Department of Agriculture, Giddings Metrology Laboratory, are traceable to the SI 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. Only compliance with tolerance specifications were evaluated.

Test Date: 06/22/2018
Calibration Due: 06/30/2019
Received Date: 6/21/2018
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: CCS3000K-SN:26000005, CCT1000K-SN:25000006, XPE604KMC-SN: B740759674, CCE60K2-SN:26803155
CCE5003-SN:21411465, CCE2004-SN:28601871, MSA225S-SN:28512376, CCE36-SN:28601985
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 is in compliance with BIPM JCGM 100:2008, Guide to the Expression of Uncertainty in Measurement (GUM), 2008, 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 x 0.00002204622621848776
milligram (mg) to ounce (oz): oz = mg x 0.00003527396194958041

Philip Lockwood

Philip Lockwood
Manager for Metrology Laboratory
Agency Representative

Daniel Gibbons

Daniel Gibbons
Metrologist
Legal Signatory



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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)
3500 lb cart	3500-001	-	-1005000	88000	CART	450000
2500 lb	BS627	-	-54000	29000	F	110000
2500 lb	BS624	-	-40000	29000	F	110000
2500 lb	BS625	-	-14000	29000	F	110000
2500 lb	BS626	-	-81000	29000	F	110000
1000 lb	BS620	-	-31700	6300	F	45000
1000 lb	BS623	-	-53100	6300	F	45000
50 lb	BS 606	-9710	40	280	F	2300
50 lb	BS 605	-1480	-1480	280	F	2300
50 lb	BS 6217	-1070	-1070	280	F	2300
50 lb	BS 6206	-2230	60	280	F	2300
50 lb	BS 52	-1170	-1170	280	F	2300
50 lb	BS 601	-6800	-30	280	F	2300
50 lb	BS 608	-7640	40	280	F	2300
50 lb	BS 609	-259760	0	280	F	2300
50 lb	BS 603	-4690	70	280	F	2300
50 lb	BS 616	-6120	40	280	F	2300
50 lb	BS 59	-31830	30	280	F	2300
50 lb	BS 10	-7580	-20	280	F	2300
50 lb	BS 617	-4100	20	280	F	2300
50 lb	BS 76	-7050	50	280	F	2300
50 lb	BS 611	-520	-520	280	F	2300
50 lb	BS 45	-3120	30	280	F	2300
50 lb	BS 615	-1540	-1540	280	F	2300
50 lb	BS 121	-4050	-30	280	F	2300
50 lb	BS 614	-4360	60	280	F	2300
50 lb	BS 602	-9360	-10	280	F	2300
50 lb	BS 610	-8330	0	280	F	2300
50 lb	BS 612B	-4960	60	280	F	2300
5 lb	4VIW A	60	60	28	F	230
5 lb	4VIW B	57	57	28	F	230

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

■ denotes a weight that was rejected.

The expanded uncertainty given is in compliance with BIPM JCGM 100:2008, Guide to the Expression of Uncertainty in Measurement (GUM), 2008, with a variable *k* representing a 95.45 % confidence level.

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Nominal Value	Serial / ID #	As Found Mass Correction (mg)	As Left Mass Correction (mg)	Expanded Uncertainty (mg)	Tolerance Class	Tolerance (mg)
5 lb	4VIW C	62	62	28	F	230
5 lb	4VIW D	60	60	28	F	230
5 lb	4VIW E	64	64	28	F	230
5 kg	1LDU -	194	194	59	F	500
5 kg	4VJK -	193	193	59	F	500
1 lb	4VIW A	15.1	15.1	8.5	F	70
1 lb	4VIW B	15.1	15.1	8.5	F	70
1 lb	4VIW C	16.5	16.5	8.5	F	70
1 lb	4VIW D	17.2	17.2	8.5	F	70
1 lb	4VIW E	15.0	15.0	8.5	F	70
8 oz	4VIW -	11.9	11.9	5.4	F	45
2 kg	1LDU -	81	81	23	F	200
2 kg	1LDU **	89	89	23	F	200
2 kg	4VJK -	52	52	23	F	200
2 kg	4VJK *	58	58	23	F	200
1 kg	1LDU -	39	39	12	F	100
1 kg	4VJK -	19	19	12	F	100
500 g	1LDU -	20.4	20.4	8.4	F	70
500 g	4VJK -	19.1	19.1	8.4	F	70
.2 lb	4VIW -	5.6	5.6	2.1	F	18
.2 lb	4VIW *	4.0	4.0	2.1	F	18
.1 lb	4VIW -	2.1	2.1	1.1	F	9.1
.05 lb	4VIW -	1.15	1.15	0.53	F	4.5
200 g	1LDU -	14.4	14.4	4.7	F	40
200 g	1LDU *	8.4	8.4	4.7	F	40
200 g	4VJK -	2.6	2.6	4.7	F	40
200 g	4VJK *	13.4	13.4	4.7	F	40
100 g	1LDU -	6.3	6.3	2.3	F	20
100 g	1LDU *	3.1	3.1	2.3	F	20
50 g	1LDU -	3.8	3.8	1.2	F	10
50 g	4VJK -	3.0	3.0	1.2	F	10

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Nominal Value	Serial / ID #	As Found	As Left	Expanded	Tolerance	Tolerance
		Mass Correction (mg)	Mass Correction (mg)	Uncertainty (mg)	Class	(mg)
.02 lb	4VIW -	0.29	0.29	0.21	F	1.8
.02 lb	4VIW *	0.15	0.15	0.21	F	1.8
.01 lb	4VIW -	0.27	0.27	0.18	F	1.5
.005 lb	4VIW -	0.10	0.10	0.15	F	1.2
.002 lb	4VIW -	0.20	0.20	0.10	F	0.87
.002 lb	4VIW *	0.24	0.24	0.10	F	0.87
.001 lb	4VIW -	0.082	0.082	0.083	F	0.70
20 g	1LDU -	0.75	0.75	0.47	F	4.0
20 g	1LDU *	1.02	1.02	0.47	F	4.0
20 g	4VJK -	-0.29	-0.29	0.47	F	4.0
20 g	4VJK *	0.09	0.09	0.47	F	4.0
10 g	1LDU -	0.21	0.21	0.23	F	2.0
10 g	4VJK -	0.18	0.18	0.23	F	2.0
5 g	1LDU -	0.52	0.52	0.18	F	1.5
5 g	4VJK -	0.25	0.25	0.18	F	1.5
2 g	1LDU -	0.50	0.50	0.13	F	1.1
2 g	1LDU *	0.25	0.25	0.13	F	1.1
2 g	4VJK -	0.19	0.19	0.13	F	1.1
2 g	4VJK *	0.29	0.29	0.13	F	1.1
1 g	1LDU -	0.39	0.39	0.11	F	0.90
1 g	4VJK -	0.40	0.40	0.11	F	0.90

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