



# Laboratory Accreditation Bureau

## Certificate of Accreditation

ISO/IEC 17025:2005

Certificate Number L1141-1

**DC Martin & Son Scales, Inc.  
370 36<sup>th</sup> Street SE  
Grand Rapids, MI 49548**

has met the requirements set forth in L-A-B's policies and procedures, and all requirements of ISO/IEC 17025:2005  
"General Requirements for the competence of Testing and Calibration Laboratories." This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).

Accreditation valid through September 20, 2013



R. Douglas Leonard, Jr., Managing Director  
Laboratory Accreditation Bureau  
Presented the 2<sup>nd</sup> of November 2010

*\*Laboratory Accreditation Bureau is found to be in compliance with ISO/IEC 17011:2004 and recognized by ILAC (International Laboratory Accreditation Cooperation) and NACLA (National Cooperation for Laboratory Accreditation).*

## Scope of Accreditation For DC Martin & Son Scales, Inc.

370 36<sup>th</sup> Street SE  
Grand Rapids, MI 49548  
David Martin  
616-451-2079

In recognition of a successful assessment to ISO/IEC 17025:2005, accreditation is granted to **DC Martin & Son Scales, Inc.** to perform the following Calibrations:

Accreditation granted through: **September 20, 2013**

### Calibration

#### Mass – Scales and Balances

Calibration Parameter/Equipment	Range	Calibration and Measurement Capability(+/-)	Remarks
Class I Lab Balances and High Precision Scales: (1 mg Resolution)	1 mg to 1 kg	0.0044 g	ASTM E617 Class 1 Weights and NIST Handbook 44 utilized for the calibration of the Weighing System
(10 mg Resolution)	10 mg to 10 kg	0.044 g	
(50 mg Resolution)	50 mg to 37 kg	0.2 g	
(100 mg Resolution)	100 mg to 37 kg	0.35 g	
Class II Lab Balances and High Precision Scales: (10 mg Resolution)	10 mg to 1 kg	0.041 g	ASTM E617 Class 1 Weights and NIST Handbook 44 utilized for the calibration of the Weighing System
(100 mg Resolution)	100 mg to 10 kg	0.41 g	
(500 mg Resolution)	500 mg to 37 kg	2 g	
(1 g Resolution)	1 g to 37 kg	4.1 g	
High Resolution Unmarked Scales: (0.00002 lb Resolution)	(0.00002 to 6) lb	0.0007 lb	NIST Class F Weights and NIST Handbook 44 utilized for the calibration of the Weighing System
(0.00005 lb Resolution)	(0.00005 to 12) lb	0.0014 lb	
(0.0001 lb Resolution)	(0.0001 to 30) lb	0.0035 lb	
(0.0002 lb Resolution)	(0.0002 to 50) lb	0.0058 lb	
(0.0005 lb Resolution)	(0.0005 to 120) lb	0.014 lb	
(0.001 lb Resolution)	(0.001 to 200) lb	0.024 lb	

Calibration Parameter/Equipment	Range	Calibration and Measurement Capability(+/-)	Remarks
(0.002 lb Resolution)	(0.002 to 300) lb	0.036 lb	NIST Class F Weights and NIST Handbook 44 utilized for the calibration of the Weighing System
(0.005 lb Resolution)	(0.005 to 500) lb	0.061 lb	
(0.01 lb Resolution)	(0.01 to 1000) lb	0.12 lb	
(0.02 lb Resolution)	(0.02 to 3000) lb	0.36 lb	
(0.05 lb Resolution)	(0.05 to 5000) lb	0.61 lb	
(0.1 lb Resolution)	(0.1 to 10 000) lb	1.2 lb	
<b>Industrial Scales <sup>2</sup>:</b>			
(0.001 lb Resolution)	(0.001 to 10) lb	0.0025 lb	NIST Class F Weights and NIST Handbook 44 utilized for the calibration of the Weighing System
(0.005 lb Resolution)	(0.005 to 50) lb	0.012 lb	
(0.01 lb Resolution)	(0.01 to 100) lb	0.025 lb	
(0.01 lb Resolution)	(100 to 150) lb	0.028 lb	
(0.02 lb Resolution)	(0.02 to 200) lb	0.049 lb	
(0.05 lb Resolution)	(0.05 to 500) lb	0.12 lb	
(0.1 lb Resolution)	(0.1 to 1000) lb	0.25 lb	
(0.25 lb Resolution)	(0.25 to 2500) lb	0.62 lb	
(0.5 lb Resolution)	(0.5 to 5000) lb	1.2 lb	
(1 lb Resolution)	(1 to 10 000) lb	2.5 lb	
(5 lb Resolution)	(5 to 50 000) lb	12 lb	
(10 lb Resolution)	(10 to 100 000) lb	24 lb	
(20 lb Resolution)	(20 to 200 000) lb	53 lb	
<b>Vehicle Scales:</b>			
(10 lb Resolution)	(10 to 100 000) lb	24 lb	NIST Class F Weights and NIST Handbook 44 utilized for the calibration of the Weighing System
(20 lb Resolution)	(20 to 200 000) lb	53 lb	

Calibration and Measurement Capability (CMC) represents expanded uncertainties at approximately a 95% confidence level using a coverage factor of k=2.

Notes:

- 1) Laboratory offers calibration services at the laboratory's own facilities and at the client or other agreed upon facilities.
- 2) Industrial Scales include Bench Scales, Counting Scales, Portable Scales, Floor Scales, Crane/Hanging Scales, Tank and Hopper Scales and Forklift/Lift Truck Scales.

Approved by:   
**R. Douglas Leonard**  
 Chief Technical Officer

Date: October 13, 2011