



ANSI National Accreditation Board

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Indianapolis Scale Company, Inc.

d.b.a. River Region Scale Company

10262 Leases Corner Court

Camby, IN 46113

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317-856-6606

CALIBRATION

Valid to: **May 6, 2021**

Certificate Number: **L1091-1**

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Class I Lab Balances and High Precision Scales: (0.01 mg Resolution) (0.1 mg Resolution) (0.1 mg Resolution) (1 mg Resolution) (1 mg Resolution) (1 mg Resolution) (2 mg Resolution) (2 mg Resolution) (2 mg Resolution) (10 mg Resolution) (10 mg Resolution) (10 mg Resolution) (100 mg Resolution) (100 mg Resolution)	(0 to 100) g (0 to 400) g (401 to 1 000) g (0 to 210) g (211 to 1 000) g (1 001 to 10 000) g (0 to 210) g (211 to 1 000) g (1 001 to 10 000) g (0 to 3 000) g (3 001 to 32 000) g (32 001 to 48 000) g (0 to 32 000) g (32 001 to 48 000) g	0.000 34 g 0.001 7 g 0.003 4 g 0.003 2 g 0.004 4 g 0.014 g 0.006 3 g 0.007 g 0.015 g 0.033 g 0.046 g 0.054 g 0.31 g 0.32 g	ASTM E617 Class 1 weights and NIST Handbook 44 utilized for the calibration of the weighing system.
Class II Lab Balances and High Precision Scales: (10 mg Resolution) (20 mg Resolution) (100 mg Resolution) (500 mg Resolution) (1 g Resolution)	(0 to 1) kg (0 to 2) kg (0 to 10) kg (0 to 50) kg (0 to 100) kg	0.031 g 0.063 g 0.31 g 1.6 g 3.2 g	ASTM E617 Class 1 and Class 2 weights and NIST Handbook 44 utilized for the calibration of the weighing system.



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Class III & Equivalent: Industrial Scales (0.001 lb Resolution) (0.002 lb Resolution) (0.005 lb Resolution) (0.01 lb Resolution) (0.02 lb Resolution) (0.05 lb Resolution) (0.1 lb Resolution) (0.2 lb Resolution) (0.5 lb Resolution) (1 lb Resolution) (1 lb Resolution) (2 lb Resolution) (5 lb Resolution) (10 lb Resolution)	(0 to 10) lb (0 to 20) lb (0 to 50) lb (0 to 100) lb (0 to 200) lb (0 to 500) lb (0 to 1 000) lb (0 to 2 000) lb (0 to 5 000) lb (0 to 10 000) lb (10 001 to 20 000) lb (0 to 20 000) lb (0 to 50 000) lb (0 to 100 000) lb	0.002 5 lb 0.005 lb 0.012 lb 0.025 lb 0.05 lb 0.12 lb 0.25 lb 0.5 lb 1.2 lb 2.5 lb 3.2 lb 5 lb 12 lb 23 lb	NIST Class F weights and NIST Handbook 44 utilized for the calibration of the weighing system.
Vehicle Scales (10 lb Resolution) (20 lb Resolution) (20 lb Resolution)	(0 to 110 000) lb (0 to 110 000) lb (0 to 200 000) lb	26 lb 49 lb 52 lb	
Unmarked High Resolution Scales (0.000 01 lb Resolution) (0.000 02 lb Resolution) (0.000 05 lb Resolution) (0.000 1 lb Resolution) (0.000 2 lb Resolution) (0.000 5 lb Resolution) (0.001 lb Resolution) (0.002 lb Resolution) (0.005 lb Resolution) (0.01 lb Resolution) (0.02 lb Resolution) (0.05 lb Resolution) (0.1 lb Resolution) (0.2 lb Resolution) (0.5 lb Resolution)	(0 to 1) lb (0 to 2) lb (0 to 5) lb (0 to 10) lb (0 to 20) lb (0 to 50) lb (0 to 100) lb (0 to 200) lb (0 to 500) lb (0 to 1 000) lb (0 to 2 000) lb (0 to 5 000) lb (0 to 10 000) lb (0 to 20 000) lb (0 to 50 000) lb	0.000 13 lb 0.000 25 lb 0.000 63 lb 0.001 3 lb 0.002 5 lb 0.006 3 lb 0.013 lb 0.025 lb 0.063 lb 0.13 lb 0.25 lb 0.63 lb 1.3 lb 2.5 lb 6.3 lb	



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Force Measurement – Tension and Compression: (0.000 1 to 0.005 lbf Resolution) (0.000 1 to 0.01 lbf Resolution) (0.000 5 to 0.02 lbf Resolution) (0.001 to 0.05 lbf Resolution) (0.005 to 0.1 lbf Resolution) (0.01 to 0.2 lbf Resolution) (0.01 to 0.5 lbf Resolution) (0.01 to 1 lbf Resolution) (0.01 to 2 lbf Resolution) (0.01 to 5 lbf Resolution)	(0 to 50) lbf (0 to 100) lbf (0 to 200) lbf (0 to 500) lbf (0 to 1 000) lbf (0 to 2 000) lbf (0 to 5 000) lbf (0 to 10 000) lbf (0 to 20 000) lbf (0 to 25 000) lbf	0.031 lbf 0.062 lbf 0.12 lbf 0.31 lbf 0.62 lbf 1.2 lbf 3.1 lbf 6.2 lbf 12 lbf 31 lbf	ASTM E617 Class 6 Test Weights used for comparison
Force Measurement – Tension and Compression: (0.1 lbf Resolution) (0.5 lbf Resolution) (1.0 lbf Resolution) (10.0 lbf Resolution) (0.1 lbf Resolution) (0.5 lbf Resolution) (1 lbf Resolution) (2 lbf Resolution) (10 lbf Resolution) (1 lbf Resolution) (2 lbf Resolution) (5 lbf Resolution) (10 lbf Resolution) (20 lbf Resolution)	(0 to 1 000) lbf (0 to 1 000) lbf (0 to 1 000) lbf (0 to 1 000) lbf (0 to 10 000) lbf (0 to 10 000) lbf (0 to 10 000) lbf (0 to 10 000) lbf (0 to 10 000) lbf (0 to 22 000) lbf (0 to 22 000) lbf (0 to 22 000) lbf (0 to 22 000) lbf (0 to 22 000) lbf	1.7 lbf 1.8 lbf 1.9 lbf 8.8 lbf 18 lbf 18 lbf 18 lbf 18 lbf 20 lbf 38 lbf 38 lbf 38 lbf 39 lbf 42 lbf	Load Cells used for comparison
Mass Artifacts Class F and lower class or unclassified Mass Standards (oz)	1/32 oz 1/16 oz 1/8 oz 1/4 oz 1/2 oz 1 oz 2 oz 4 oz 8 oz	0.052 mg 0.075 mg 0.085 mg 0.11 mg 0.17 mg 0.32 mg 0.65 mg 1.4 mg 3 mg	Medium Accuracy using Modified Substitution



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Mass Artifacts Class F and lower class or unclassified Mass Standards (lb)	0.001 lb 0.002 lb 0.003 lb 0.005 lb 0.01 lb 0.02 lb 0.03 lb 0.05 lb 0.1 lb 0.2 lb 0.3 lb 0.5 lb 1 lb 2 lb 3 lb 5 lb 10 lb 20 lb 25 lb 30 lb 50 lb 100 lb 200 lb 300 lb 400 lb 500 lb 1 000 lb	0.042 mg 0.052 mg 0.07 mg 0.08 mg 0.10 mg 0.11 mg 0.17 mg 0.27 mg 0.53 mg 1.1 mg 2 mg 3 mg 4.4 mg 11 mg 26 mg 37 mg 38 mg 0.11 g 0.13 g 0.18 g 0.25 g 1.4 g 1.8 g 2.7 g 2.7 g 4.2 g 6.8 g	Medium Accuracy using Modified Substitution
Mass Artifacts Class F and lower class or unclassified Mass Standards (metric)	1 mg 2 mg 3 mg 5 mg 10 mg 20 mg 30 mg 50 mg 100 mg 200 mg 300 mg 500 mg	0.014 mg 0.015 mg 0.015 mg 0.016 mg 0.018 mg 0.02 mg 0.022 mg 0.024 mg 0.028 mg 0.034 mg 0.038 mg 0.044 mg	Medium Accuracy using Modified Substitution



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Mass Artifacts Class F and lower class or unclassified Mass Standards (metric)	1 g	0.065 mg	Medium Accuracy using Modified Substitution
	2 g	0.075 mg	
	3 g	0.085 mg	
	5 g	0.1 mg	
	10 g	0.13 mg	
	20 g	0.25 mg	
	30 g	0.36 mg	
	40 g	0.47 mg	
	50 g	0.59 mg	
	80 g	1 mg	
	100 g	1.2 mg	
	200 g	2.7 mg	
	300 g	3.8 mg	
	500 g	4.5 mg	
	1 kg	12 mg	
	2 kg	26 mg	
	3 kg	27 mg	
	5 kg	33 mg	
	10 kg	87 mg	
	20 kg	0.22 g	
	25 kg	0.33 g	
	30 kg	0.35 g	
	50 kg	1.4 g	
	100 kg	1.8 g	
	200 kg	3.3 g	
	250 kg	5.1 g	
	300 kg	5.2 g	
	400 kg	5.2 g	
	500 kg	7.4 g	
	600 kg	7.6 g	

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 ($k=2$), corresponding to a confidence level of approximately 95%.

Notes:

1. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope.
2. This scope is formatted as part of a single document including Certificate of Accreditation No. L1091-1.