



CERTIFICATE OF ACCREDITATION

ANSI National Accreditation Board

11617 Coldwater Road, Fort Wayne, IN 46845 USA

This is to certify that

Industrial Bolting Technologies, Inc.
#6 McCown Circle
Charleston, WV 25313

has been assessed by ANAB and meets the requirements of international standard

ISO/IEC 17025:2017

while demonstrating technical competence in the field of

CALIBRATION

Refer to the accompanying Scope of Accreditation for information regarding the types of activities to which this accreditation applies

L2403

Certificate Number


ANAB Approval

Certificate Valid Through: 11/04/2021
Version No. 002 Issued: 10/09/2019



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. 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 April 2017).



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Industrial Bolting Technologies, Inc.

#6 McCown Circle
 Charleston, WV 25313
 Mike McCown
 304-744-9489

CALIBRATION

Valid to: **November 4, 2021**

Certificate Number: **L2403**

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Manual Torque Wrench	(10 to 100) lbf·in (50 to 500) lbf·in (25 to 250) lbf·ft (75 to 750) lbf·ft	1.01 lbf·in 3.17 lbf·in 4.59 lbf·ft 7.88 lbf·ft	AWS MTMDP-4 Torque Calibration System utilizing ISO 6789
	(100 to 1 000) lbf·ft	17.45 lbf·ft	AKO Torque Master Calibration System: Torque Transducer TSD20011, Display TSD6500-2
Hydraulic Torque Wrench	(100 to 2 500) lbf·ft (1 250 to 25 000) lbf·ft	29.78 lbf·ft 62.39 lbf·ft	AWS Model 41012-HYDP AWS Model 41025
	(50 to 20 000) lbf·ft	60.99 lbf·ft	AKO Torque Master Calibration System TSD20011, Pressure Transducer TSD10KPT Display TSD6500-2
Pneumatic Torque Wrench	(100 to 2 500) lbf·ft (375 to 7 500) lbf·ft	22.69 lbf·ft 63.12 lbf·ft	AWS Model 41012-HYRD AWS Model 41014-HYRD



Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Pneumatic Torque Wrench	(100 to 10 000) lbf·ft	28.24 lbf·ft	AKO Torque Master Calibration System: Torque Transducer TSD20011, Display TSD6500-2
Pressure Gauge	(0 to 100) psi (0 to 1 000) psi (0 to 5 000) psi (0 to 10 000) psi	0.78 psi 6.86 psi 33.14 psi 65.07 psi	Crystal Engineering Gauge CalXP Pressure Calibrators 100PSIXP2i, 1KPSIXP2i, 5KPSIXP2i and 10KPSIXP2i

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. L2403.



Vice President