



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005
& ANSI/NCSL Z540.3-2006

WRENTHAM TOOL GROUP, LLC
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 Bellingham, MA 02019
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CALIBRATION

Valid To: April 30, 2019

Certificate Number: 4180.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations¹:

I. Dimensional/Fastener Industry Specific Gages

Parameter/Equipment	Range	CMC ² (±)	Comments
Hexlobe Geometry - Circumscribed Ø	Up to 1 in	20 µin	P&W Supermicrometer™
Inscribed Ø	Up to 1 in	39 µin	Height comparator
Hexagon Geometry - Across Corners	Up to 1 in	33 µin	P&W Supermicrometer™
Across Flats	Up to 1 in	33 µin	P&W Supermicrometer™
Penetration Points, Master Plugs and GO NOGO Plug Gages	Type 1, Type 1A Phillips, PoziDriv®, Phillips II®, PSD®, Type 3 Square Drive Quadrex®	86 µin 3.2"	Nikon microscope Starrett video comparator

Parameter/Equipment	Range	CMC ² (±)	Comments
Penetration Points, Master Plugs and GO NOGO Plug Gages	Mortorq®	86 μin	Nikon microscope
Penetration Points, Master Plugs and GO NOGO Plug Gages	Off set cruciform, Torq-Set®, Tri-Wing®, BNAE	33 μin 3.2"	P&W Supermicrometer™ Starrett video comparator
Fastener Recess External GO NOGO Gages	12 Point, Mortorq®, Hexlobe®	86 μin	Nikon microscope, P&W Supermicrometer™
Driver Bit Gages	Type1, Type 1A, Phillips®, Pozidriv®	190 μin 33 μin	Indicator with master plugs P&W Supermicrometer™
Driver Bit Test Blocks	Type1, Type 1A, Phillips®, Pozidriv®, Type 3 Square, Hexstix®	86 μin	Nikon microscope

¹ This laboratory offers commercial calibration service.

² Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.



Accredited Laboratory

A2LA has accredited

WRENTHAM TOOL GROUP, LLC

Bellingham, MA

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of ANSI/NCSL Z540.3-2006 and R205 – *Specific Requirements: Calibration Laboratory Accreditation Program*. 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 8 January 2009).



Presented this 9th day of February 2017.

A handwritten signature in black ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 4180.01
Valid to April 30, 2019
Revised on February 21, 2017

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.