

CALIBRATION LABORATORIES

NVLAP LAB CODE 200405-0

**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017**

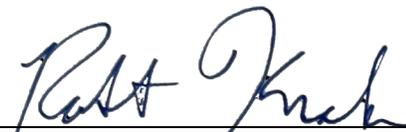
<p><b>Dwight Calibration &amp; Instrument LLC</b>                  10 Stuyvesant Avenue                  Lyndhurst, NJ 07071-0909                  Mrs. Carolyn Howe                  Phone: 201-438-3334 Fax: 201-438-0594                  E-mail: <a href="mailto:chowe@dwightcalibration.com">chowe@dwightcalibration.com</a>                  URL: <a href="http://www.dwightcalibration.com">http://www.dwightcalibration.com</a></p>	<p><b>Fields of Calibration</b>                  Dimensional                  Mechanical</p> <p>This laboratory is compliant to ANSI/NCSL Z540-1-1994; Part 1. (NVLAP Code: 20/A01)</p>
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**CALIBRATION AND MEASUREMENT CAPABILITIES (CMC) <sup>Notes 1,2</sup>**

Measured Parameter or Device Calibrated	Range	Expanded Uncertainty <sup>Note 3, 5, 7</sup>	Remarks
<b>DIMENSIONAL</b>			
<b>GAGE BLOCKS (20/D03)</b>			
Steel	0 in to 4 in	3.5 μin + 2L μin	Master gage blocks and gage block comparator
<b>LENGTH &amp; DIAMETER; STEP GAGES (20/D05)</b>			
Field calibrations available <sup>Note 4</sup>			
Micrometers	> 0 in to 24 in	40 μin + 2L μin	
Dial Indicators With Fixture	> 0 in to 2 in	30 μin 82 μin	
Optical Comparators	> 0 in to 12 in	150 μin	
Calipers	> 0 in to 36 in	85 μin + 2L μin	
Height Gages	> 0 in to 36 in	85 μin + 3L μin	
Single Axis Length	> 0 in to 36 in	20 μin + 2L μin	Comparison to gage blocks
ID Gage	> 0 in to 24 in	40 μin + 2L μin	Gage Blocks
	> 0 in to 8 in	65 μin + 4L μin	Plain Rings

2025-08-26 through 2026-09-30

Effective dates



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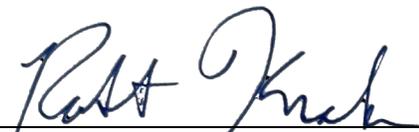
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CALIBRATION AND MEASUREMENT CAPABILITIES (CMC) <sup>Notes 1,2</sup>

Measured Parameter or Device Calibrated	Range	Expanded Uncertainty <sup>Note 3, 5, 7</sup>	Remarks
<b>MEASURING WIRES (20/D07)</b>			
Thread Measuring Wires	Up to 80 pitch	15 $\mu$ in	Lightwave Micrometer
<b>SPHERICAL DIAMETER; PLUG/RING GAGES (20/D11)</b>			
Plain Rings	> 0 in to 8 in	20 $\mu$ in + 5L $\mu$ in	Lightwave Supermic.
Plain Plugs	> 0 in to 1 in > 1 in to 4 in	15 $\mu$ in 25 $\mu$ in	
Class ZZ	> 0 in to 1 in	45 $\mu$ in	
Spheres	> 0 in to 2 in	24 $\mu$ in	
<b>SURFACE TEXTURE (20/D12)</b>			
Granite Surface Plates Field calibrations available <sup>Note 4</sup> Repeat Readings Flatness	> 0 in to 0.002 in > 0.5 in to 12 ft  > 0.5 in to 12 ft	31 $\mu$ in 30 $\mu$ in/ft  50 $\mu$ in/ft	Repeat-a-Meter BlueLEVEL  Autocollimator
<b>SURVEYING RODS AND TAPES (20/D13)</b>			
Rulers	> 0 in to 48 in	4000 + 100L $\mu$ in	
<b>THREADED PLUG &amp; RING GAGES (20/D14)</b>			
Threaded Plug Gages – Pitch Diameter	> 0 in to 4 in	60 $\mu$ in	
Threaded Ring Gages – Functional Diameter	> 0 in to 4 in	89 $\mu$ in	
Pitch Diameter	> 0 in to 6 in	144 $\mu$ in	

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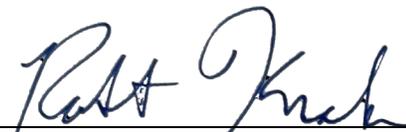
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CALIBRATION AND MEASUREMENT CAPABILITIES (CMC) <sup>Notes 1,2</sup>

Measured Parameter or Device Calibrated	Range	Expanded Uncertainty <sup>Note 3, 5, 7</sup>	Remarks
<b>COORDINATE MEASURING MACHINES (20/D16)</b> <sup>Note 4</sup>			
Repeatability		25 $\mu$ m	
Volumetric		220 $\mu$ m	
Linearity	> 0 in to 19 in > 19 in to 26 in > 26 in to 37 in > 37 in to 74 in	20 $\mu$ m + 13L $\mu$ m 260 $\mu$ m + 6.5L $\mu$ m 420 $\mu$ m + 3L $\mu$ m 520 $\mu$ m + 19L $\mu$ m	
<b>MECHANICAL</b>			
<b>TORQUE (20/M15)</b>			
Torque Wrenches <sup>8</sup> With loader	> 0 in·ozf to 50 in·ozf > 0 in·lbf to 30 in·lbf > 0 in·lbf to 600 in·lbf > 0 ft·lbf to 250 ft·lbf	1.5 % 1.5 % 1.5 % 1.5 %	Compared to transducers
Without loader	> 0 in·ozf to 50 in·ozf > 0 in·lbf to 30 in·lbf > 0 in·lbf to 600 in·lbf > 0 ft·lbf to 250 ft·lbf	2.0 % 2.0 % 2.0 % 2.0 %	Compared to transducers
<b>END</b>			

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Notes

**Note 1:** A Calibration and Measurement Capability (CMC) is a description of the best result of a calibration or measurement (result with the smallest uncertainty of measurement) that is available to the laboratory's customers under normal conditions, when performing more or less routine calibrations of nearly ideal measurement standards or instruments. The CMC is described in the laboratory's scope of accreditation by: the measurement parameter/device being calibrated, the measurement range, the uncertainty associated with that range (see note 3), and remarks on additional parameters, if applicable.

**Note 2:** Calibration and Measurement Capabilities are traceable to the national measurement standards of the U.S. or to the national measurement standards of other countries and are thus traceable to the internationally accepted representation of the appropriate SI (Système International) unit.

**Note 3:** The uncertainty associated with a measurement in a CMC is an expanded uncertainty with a level of confidence of approximately 95 %, typically using a coverage factor of  $k = 2$ . However, laboratories may report a coverage factor different than  $k = 2$  to achieve the 95 % level of confidence. Units for the measurand and its uncertainty are to match. Exceptions to this occur when marketplace practice employs mixed units, such as when the artifact to be measured is labeled in non-SI units and the uncertainty is given in SI units (Example: 5 lb weight with uncertainty given in mg).

**Note 3a:** The uncertainty of a specific calibration by the laboratory may be greater than the uncertainty in the CMC due to the condition and behavior of the customer's device and specific circumstances of the calibration. The uncertainties quoted do not include possible effects on the calibrated device of transportation, long term stability, or intended use.

**Note 3b:** As the CMC represents the best measurement results achievable under normal conditions, the accredited calibration laboratory shall not report smaller uncertainty of measurement than that given in a CMC for calibrations or measurements covered by that CMC.

**Note 3c:** As described in Note 1, CMCs cover calibrations and measurements that are available to the laboratory's customers under *normal conditions*. However, the laboratory may have the capability to offer special tests, employing special conditions, which yield calibration or measurement results with lower uncertainties. Such special tests are not covered by the CMCs and are outside the laboratory's scope of accreditation. In this case, NVLAP requirements for the labeling, on calibration reports, of results outside the laboratory's scope of accreditation apply. These requirements are set out in Annex A.5. of NIST Handbook 150, Procedures and General Requirements.

**Note 4:** Uncertainties associated with field service calibration may be greater as they incorporate on-site environmental contributions, transportation effects, or other factors that affect the measurements. (This note applies only if marked in the body of the scope.)

**Note 5:** Values listed with percent (%) are percent of reading or generated value unless otherwise noted.

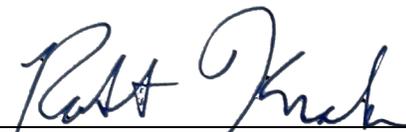
**Note 6:** NVLAP accreditation is the formal recognition of specific calibration capabilities. Neither NVLAP nor NIST guarantee the accuracy of individual calibrations made by accredited laboratories.

**Note 7:** Where  $L$  is the numerical value of the measurand in the same units shown in the range.

**Note 8:** Add 0.5 % for torque tools other than a torque wrench, such as torque drivers, screwdrivers and t-handles.

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