

**Dorsey Metrology Calibration Laboratory**53 Oakley Street
Poughkeepsie, NY 12601**Scope of Accreditation¹**
(ISO/IEC 17025:2005 & ANSI/NCSL Z540-1-1994)

I. Dimensional

Parameter/Equipment	Range	CMC ^{2,3} (±)	Comments
Dial Indicator – High Amplification (high resolution) Course Graduation (low resolution)	Up to 0.050 in	23 µin + 0.6R	5P01WI1 Mitutoyo Calibration Tester
Digital Indicator	Up to 1 in	39 µin	5P01WI2 Gage Blocks
ID/OD Gage and Set Master	Up to 12 in (12 to 24) in (24 to 35) in	190 µin 220 µin 250 µin	5P01WI3 Gage Blocks
Thickness Gage and Set Master	Up to 6 in	150 µin + 0.6R	5P01WI6 Gage Blocks
Depth Gage and Set Master	Up to 12 in	190 µin + 0.6R	5P01WI7 Gage Blocks
Bore Gage – 0.0001 in (0.0025 mm) Graduation 0.00025 in (0.0064 mm) Graduation 0.0005 in (0.0127 mm) Graduation 0.001 in Graduation	(1 to 36) in (1 to 36) in (1 to 36) in (1 to 36) in	70 µin 160 µin 290 µin 580 µin	5P01WI6 Bore Gage Calibrator

¹ We offer commercial calibration services. Please refer to our valid Scope and Certificate of Accreditation at www.dorseymetrology.com.

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.

³ In the statement of CMC, R is the resolution of the unit under test.



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I. Dimensional

Parameter/Equipment	Range	CMC ² (±)	Comments
Optical Comparator ³ –			5P01W14
Squareness	Up to 8 in	140 µin	Perpendicular Master and Dial Test Indicator
Magnification	Up to 24 in (X and Y Axis)	100 µin	Magnification Glass Master
X,Y Linear Measurement	Up to 12 in (12 to 24) in (X and Y Axis)	70 µin 120 µin	Projection Glass Master

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³ Field calibration service is available for this calibration and this laboratory meets A2LA R104 – General Requirements: Accreditation of Field Testing and Field Calibration Laboratories for these calibrations. Please note the actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the CMC found on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the uncertainty introduced by the item being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the actual measurement uncertainty achievable on a customer's site being larger than the CMC.