



Certificate of Accreditation: Supplement

Sharp Precision Calibration, inc.

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Accreditation is granted to the facility to the following calibration:

Dimensional

MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (\pm)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED
Optical Comparator Axis Linearity	304.8 mm Maximum (12 in Maximum)	4.572 μ m (180 μ in)	Ending Measuring Rods, Gage Block Set, Glass Master, Glass Scale
Magnification	10X	0.015% of magnification	Glass Master, Glass Scale
	20X	0.015% of magnification	
	31.25X	0.015% of magnification	
	50X	0.015% of magnification	
	62.5X	0.015% of magnification	
	100X	0.015% of magnification	
Axis Squareness	76.2 mm Maximum (Up to 3.0 in) Maximum	3.403 μ m (134 μ in)	Glass Scale
Chart Angularity	0° to 360°	0.018°	Glass Scale
Machine Tool - Linear Axis	304.8 mm Maximum (12 in Maximum)	23.622 μ m (930 μ in)	Standard Reference Bar, Test Indicator
Toolmakers Microscope	304.8 mm maximum (12 in Maximum)	4.318 μ m (170 μ in)	Pin Gage, Glass Block, Glass Master, Glass Scale
Surface Plate Flatness	0.1524 m to 7.62 m (0.5 ft to 25 ft)	(1.894 + 3.04 x 10 ⁻³ L) μ m [(74.55 + 3.04L) μ in]	Electronic Levels
Surface Plate Repeat Reading	0.0508 mm (0.002 in)	2.794 μ m (110 μ in)	Rahn Repeat-O-Meter

1. The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represent the smallest measurement uncertainties attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is expressed at a confidence level of 95 % using a coverage factor *k* (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.
2. The term L represents length in inches or millimeters appropriate to the uncertainty statement.