

Calibration Services for “Standard Scale, Stage Micrometers and Calibration Charts”

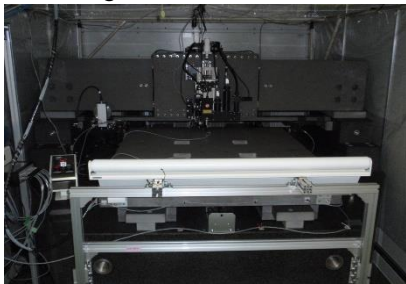
SINTOKOGIO, Ltd. offers calibration services for “standard scale, objective micrometers and calibration charts” as a JCSS accredited laboratory in the field of “length measuring instruments”. The measuring scope ranges up to 1000mm. Our calibration conforms to ISO/IEC 17025:2017.

Type of Service		Calibration Item			Maximum Measuring Capacity (Confidence Level:95%) (L: nominal length (mm))
		Scope Category	Specification of Calibration Item	Support Method	
Length Measuring Instrument	Standard Scale	High-precision	Material: Glass Precision: 0.5µm or less Thickness: 15mm or more (Thickness of 10mm or more for objects with measuring length of 500mm or less)	Airy point Bessel point	1000mm or less: 0.10+(0.23·L/1000) µm
			Material: Metal	Airy point Bessel point	1000mm or less: 1.0+(0.3·L/1000) µm
		Stage micrometer	Measuring length of 10mm or less Conforms to JIS B 7137: 1990	Flat	0.22 µm
		Calibration chart	Measuring length over 100mm and not exceeding 1000mm External dimension 1050mmx800mm or less	Flat	Measurement of central position of scale: 0.39 µm Measurement of edge position: 0.39 µm

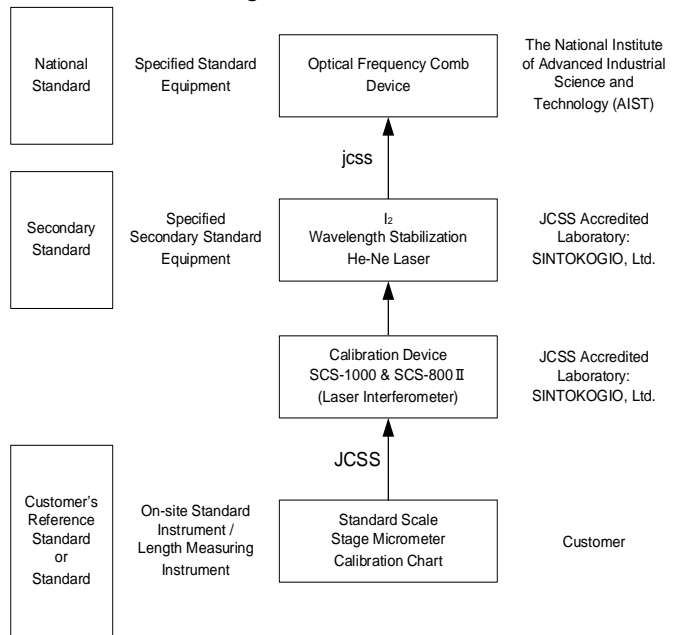
We offers adjustment, inspections, calibrations of machines based on a calibrated “standard scale” for industrial measuring instruments including 2D and 3D coordinate measuring machines that we manufacture and sell.

Standard Scale Calibration Device “SCS-1000” and “SCS-800 II ”


We use the laser interferometer to calibrate high-precision standard scales. The laser wavelength of the laser interferometer is calibrated with our specified secondary standard equipment; the “I₂ wavelength stabilization He-Ne laser device”. The value obtained from the laser interferometer is used as the calibrated value of the standard scale, using the calibrated laser wavelength as its standard of length.



SCS-1000



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