

Laboratory's Scopes of Calibration

Field of Calibration	Properties of Measured	Range	Calibration Methods
Gauge Block	Gauge Blocks [Steel, Ceramic, Carbide] Grade: 0, 1, 2	0.1 mm-100 mm	- JIS B 7506-1997 Cal. central deviation only and variation in length
	Gauge Blocks [Steel, Ceramic, Carbide] Grade: 0, 1, 2	0.1 mm-100 mm	- JIS B 7506-1997 Cal. central deviation and variation in length
	Long Gauge Blocks [Steel, Ceramic, Carbide] Grade: 0, 1, 2	> 100 mm-300 mm	Comparison method Cal. central deviation only.
	Long Gauge Blocks [Steel, Ceramic, Carbide] Grade: 0, 1, 2	> 100 mm-300 mm	Comparison method Cal. central deviation only.
Dimensional	Dial Gauges / Digital Indicators	Up - 25 mm Up - 50 mm Up - 75 mm Up - 100 mm	JIS B 7503-1997
	Dial Test Indicators	Up - 1 mm	JIS B 7533-1990
	Microindicators	Up - 0.5 mm	JIS B 7519-1976
	Cylinder Gauges / Bore Gauges	6 mm - 300 mm	JIS B 7515-1982
	Outside / Inside Micrometers	Up - 25 mm 25 mm - 200 mm 200 mm -1000 mm	JIS B 7502-1994
	Indicating Micrometer	Up - 25 mm 25 mm - 100 mm 100 mm -1000 mm	JIS B 7520-1981
	Depth Micrometer	Up - 300 mm	JIS B 7544-1994

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Dimensional	Vernier Caliper (Vernier, Dial, Digital Types)	Up - 300 mm Up - 600 mm Up - 1000 mm Up - 1500 mm	JIS B 7507-1993
	Gear Tooth Vernier Calipers	Up - 100 mm	JIS B 7531-1982
	Height Gauges (Vernier, Dial, Digital Types)	Up - 300 mm Up - 600 mm Up - 1000 mm Up - 1500 mm	JIS B 7517-1993
	Depth Gauges (Vernier, Dial, Digital Types)	Up - 500 mm	JIS B 7518-1993
	Feeler Gauges	0.01 mm - 20 mm	JIS B 7524-1992
	Thickness Gauges (Dial, Digital Types)	Up - 100 mm	Direct measurement to gauge block
	Coating Thickness Plates (Film/Copper)	Up - 10 mm	Direct measurement to Laser Hologauge
	Coating Thickness Gauges (without customer thickness plate)	17 μm - 251 μm	Direct comparison to Laser Hologauge
	Holtests	2 mm - 100 mm	Direct measurement to Standard Ring Gauge
	Electrical Comparators / Mu-Checkers (include: Probe and Display Unit)	Up - 500 mm	JIS B 7536-1982
	Universal Length Machines (ULM)	Up - 500 mm	Comparison to Gauge Blocks
	Electric Levels	Full range	JIS B 7510-1993
	Spirit Levels	Full range	JIS B 7510-1993
	Precision Squares (up to 100mm)	Grade 1, 2	JIS B 7526-1977
	Precision Squares (up to 1,000mm)	Grade 1, 2	JIS B 7526-1977
	Bevel Protactors (Analog / Digital)	0-360°	Direct measurement by angle gauge standard
Combination Sets (Analog / Digital)	Full range	Direct measurement by angle gauge standard	
Setting Rod for Micrometers	Up - 1000 mm	Comparison to Gauge Blocks	

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Dimensional	Micrometer Heads	Up - 50 mm	JIS B 7502-1994
	Calibration Testers (Analog / Digital)	Up - 50 mm	Direct measurement by Laser Hologauge
	Measuring Microscopes	Up - 300 mm	JIS B 7153-1995 by standard scale
	Micrometer Microscopes	Up - 10 mm	JIS B 7150-1977 by Objective Micrometer
	Profile Projectors	Up - 300 mm	JIS B 7153-1995 and JIS B 7184-1972
	Scale Lubes	Up - 100 mm	Comparison to Standard Scale
	Digimatic Scale Units	Up - 1000 mm	Comparison to Standard Gauge Block
	Metal Rules	Up - 1000 mm Up - 2000 mm Up - 5000 mm (above)	JIS B 7516-1987
	Steel Tape Measures	Up - 1000 mm Up - 2000 mm Up - 5000 mm (above)	JIS B 7512-1993
	Textile Tape Measures	Up - 1000 mm Up - 2000 mm Up - 5000 mm (above)	JIS B 7522-1993
	Height Masters (Analog / Digital)	Up - 300 mm Up - 600 mm	ISO 7863-1984 comparison gauge block
	Riser Blocks	Up - 150 mm Up - 300 mm Up - 600 mm	ISO 7863-1984 comparison gauge block
	Caliper Checkers	Up - 300 mm Up - 600 mm	ISO 7863-1984 comparison gauge block
	Depth Micro Checkers	Up - 300 mm	ISO 7863-1984 comparison gauge block

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Dimensional	Surface Plates [Site calibration available] [Excluded on-site expenses]	≤ 300 mm x 300 mm ≤ 500 mm x 500 mm > 500 mm x 500 mm (above)	JIS B 7513-1992 by Electric Level
	Steel Straightedges	as JIS B 7514-1977	JIS B 7514-1977
	Go-No Go Plain Plug Gauges	Up - 100 mm	JIS B 7420-1997
	Go-No Go Thread Plug Gauges	as JIS B 0261-1978	JIS B 0261-1978 by 3-wire
	3-Wires	as JIS B 0271-1992	JIS B 0271-1992
	Pin Gauges	Up - 100 mm	JIS B 0261-1978
	Laser Scan Micrometers	0.1 mm - 25 mm	Comparison to Standard pin gauge
	Flatness Testers	Up - 600 mm	Comparison to Surface Straightedge
	CMMs [Site calibration only]	10 mm - 610 mm	ISO 10360-2

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