

Laboratory

Standard Room, Elecon Engineering Company Limited, Anand-
Sojitra Road, Vallabh-Vidyanagar, Dist Anand, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number

CC-2501 (In lieu of C-1002)

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Validity

26.11.2017 to 25.11.2019

Last Amended on 26.12.2017

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
I.	DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)			
1.	Caliper ^s L.C. 0.01 mm	0 to 600 mm 0 to 1000 mm	12 μ m 16 μ m	Using Caliper Checker by Comparison Method
2.	Height Gauge ^s L.C. : 0.01 mm L.C. : 0.02 mm	0 to 600 mm 0 to 1000 mm	15 μ m 21 μ m	Using Caliper Checker and Granite Surface Plate by Comparison Method
3.	Depth Gauge ^s L.C. : 0.01 mm L.C. : 0.02 mm	0 to 300 mm 0 to 600 mm	9 μ m 21 μ m	Using Depth Micrometer Checker by Comparison Method
4.	External Micrometer ^s L.C. : 0.001 mm L.C. : 0.01 mm	0 to 100 mm >100 mm to 300 mm >300 mm to 500 mm >500 mm to 1000 mm	1.2 μ m 3.0 μ m 6 μ m 8 μ m	Using Slip Gauge & Length Bars by Comparison Method
5.	Internal Micrometer ^s L.C. : 0.01 mm Micrometer Screw Error	50 mm to 63 mm	3 μ m	Using Slip Gauge Accessories & Slip Gauge Set by Comparison Method

Rajeshwar Kumar
Convenor

Avijit Das
Program Director

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6.	Error in length of each extension rod when thimble reads zero ^s	50 mm to 1500mm	17 μ m	Using Caliper Checker & Length Bars by Comparison Method
	Depth Micrometer L.C. : 0.01 mm Micrometer Screw Error	0 to 25 mm	2.5 μ m	Using Slip Gauge Set and Granite Surface Plate by Comparison Method
	Error in length of each extension rod when thimble reads zero	0 to 150 mm	5 μ m	Using Depth Micrometer Checker by Comparison Method
7.	Plunger Type Dial Gauge ^s L.C. : 0.001 mm L.C. : 0.01 mm	0 to 5 mm	3 μ m	Using Electronic Dial Calibration Tester by Comparison Method
		0 to 10 mm	4 μ m	
8.	Lever Type Dial Gauge ^s L.C. : 0.001 mm L.C. : 0.002 mm L.C. : 0.01 mm	0 to 0.140 mm	3.1 μ m	Using Electronic Dial Calibration Tester by Comparison Method
		0 to 0.200 mm	3.1 μ m	
		0 to 0.80 mm	4 μ m	
9.	Bore Dial Gauge ^s L.C. : 0.001 mm (for Transmission Error only)	1 mm stroke	8 μ m	Using Electronic Dial Calibration Tester & Master Dial by Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
10.	Electronic probe with DRO ^s L.C. : 0.1 μ m	0 to 2 mm	0.8 μ m	Using Slip Gauge Set and Granite Base Comparator by Comparison Method
11.	Plain Ring Gauge ^s	Dia.12-300	3.9 μ m	Using ULM & Master Setting Ring by Comparison Method
12.	Plain Plug Gauge ^s	Dia.1-100	2.6 μ m	Using ULM by Comparison Method
13.	Thread Plug Gauge for effective diameter only ^s	M5 to M135	2.8 μ m	Using ULM & Thread Measuring Wires by Comparison Method
14.	Thread Ring Gauge for Effective diameter only ^s	M12 to M180	3.2 μ m	Using ULM & Master Setting Ring by Comparison Method
15.	Snap Gauge ^s	12 mm to150 mm	2.7 μ m	Using ULM & Master Setting Ring by Comparison Method
16.	Feeler Gauge ^s	0.01 mm to 1.00mm	2 μ m	Using Digital Outside Micrometer by Comparison Method
17.	Setting Rod ^s (Flat End)	0 to 300 mm >300 mm to 500 mm >500 mm to 975 mm	3 μ m 5 μ m 7 μ m	Using Slip Gauge Set, Length Bars & Comparator by Comparison Method

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Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
18.	Measuring Pin [§]	0.5 mm to 20 mm	2 μ m	Using Slip Gauge Set & Comparator by Comparison Method
19.	Radius Gauge [§]	Upto R25	113 μ m	Using Profile Projector by Comparison Method
20.	Thread Pitch Gauge [§]	0.4 mm to 6.0 mm	22 μ m	Using Profile Projector by Comparison Method
21.	Bevel Protractor [§] L.C. : 1' L.C. : 5'	0-180°-360° 0-90°-0	0.71 Min. 3.4 Min	Using Angle Gauge Set by Comparison Method
22.	Width Gauge [§]	Upto 100 mm	2.8 μ m	Using Slip Gauge Set & Comparator by Comparison Method

* Measurement Capability is expressed as an uncertainty (\pm) at a confidence probability of 95%

§ Only in Permanent Laboratory

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