



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : M-TECH ENTERPRISES, FLAT-105, CHANDRAPUSHP APPT LANDEWADI CHOWK, PIMPRI, PUNE, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3203 **Page No** 1 of 10

Validity 05/01/2021 to 04/01/2023 **Last Amended on** 08/01/2022

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor L. C.: 5 min	Using Angle gauge blocks by comparison method	0 - 90 - 90 °	3.5 min of arc
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore gauge with dial (for transmission accuracy) L.C 0.001 mm	Using Dial calibration tester and Plunger dial by comparison method:	0 to 1 mm	3.2µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier / Dial / Digital) L.C.: 0.01 mm	Using Caliper Checker, Long Slip Gauges & Slip Gauge Set By Comparison Method	0 to 1000 mm	17.0µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper (Vernier / Dial / Digital) L.C.: 0.01 mm	Using Caliper Checker & Slip Gauge Set By Comparison Method	0 to 600 mm	13.3µm



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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating thickness meter / DFT meter LC 0.0001 mm or above	Using coating thickness foils by comparison method	0.01 to 2 mm	3.7µm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness)	Using Electronic Probe and Surface Plate by comparison method:	200 mm to 200 mm	2µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator with stand LC 0.0001 mm	Using Slip gauge set by comparison method	0 mm to 25 mm	0.9µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical measuring pin	Slip and electronic comparator with stand by comparison method	0.17 to 20 mm	1.5µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical setting master (concentricity)	Using FCDM by comparison method	3 to 100 mm	2.8µm



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10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical setting master (Diameter)	Using Slip gauge and electronic comparator with stand by comparison method	3 to 100 mm	2.7µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth gauge (Vernier / Dial / Digital) L.C.10µm	Using caliper checker and long slip gauge by comparison method	0 to 600 mm	14.6µm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth micrometer L.C.10 µm	Using Slip gauge set / Long Gauge Set by comparison method:	0 to 300 mm	7.9µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial snap Gauge (Parallelism)	Using slip gauge and plunger dial by comparison method	0 to 200 mm	3.70µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial thickness Gauge LC: 1 µm	Using slip gauges by comparison method	0 to 25 mm	1.7µm



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15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineers Square (Perpendicularity)	Using Granite L Square Plunger and lever Dial by compassion method:	upto 300 mm	12 μ m
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineers Square (parallelism/Straightness/Flatness)	Using Granite L square,Plunger and lever dial by compassion method:	upto 300 mm	9 μ m
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External micrometer L.C.1 μ m	Using slip gauge set and long slip gauge by comparison method	0 to 500 mm	7 μ m
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External micrometer L.C.10 μ m	Using slip gauge set and long slip gauge by using comparison method	> 300 to 500 mm	10.5 μ m
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	feeler gauge / Coating thickness foils	Slip gauge and electronic comparator with stand by comparison method	0.01 to 2 mm	1.6 μ m



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20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height gauge (Vernier / Dial / Digital) L.C.10µm	Using slip gauge, Caliper Checker & Surface Plate by comparison method	0 to 600 mm	13.2µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height gauge (Vernier / Dial / Digital) L.C.10µm	Using Caliper Checker, Long Slip Gauges, Surface Plate & Slip Gauge Set By Comparison Method	0 to 1000 mm	17.9µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever dial gauge L.C.1 µm & above	Using dial calibration tester by comparison method:	0 to 1.2 mm	1.5µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting rod / Sticks (only flat end face)	Using slip gauge set, Long slip gauge and Electronic comparator with stand by comparison method	> 300 to 475 mm	10.6µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer setting stick / Height block	Using slip gauge and electronic comparator with stand by comparison method	1 to 275 mm	3.6µm



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25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper LC: 0.1 mm	Using slip gauge set by comparison method	0 to 50 mm	99µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plug gauge / Width gauge / Setting master	Using Slip gauge and electronic comparator with stand by comparison method	> 100 to 300 mm	3.8µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plug gauge / Width gauge / Setting master	Slip gauge and electronic comparator with stand by comparison method:	1 to 100 mm	2.7µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger dial/ digital indicator / Comparator L.C.1 µm or above	Using dial calibration tester by comparison method:	0 to 25 mm	3.1µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap gauge / Gap gauge	Using slip gauge set by comparison method	100 to 300 mm	3.4µm



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30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap gauge / Gap gauge	Slip gauge set by comparison method	2 to 100 mm	2.5µm
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plug gauge	Using Slip gauge, sine center, lever dial, surface plate, FCDM, OD setting master by comparison method:	Upto 100 mm	5.5µm
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plug gauge (angle)	Using Slip gauge, sine center, lever dial, surface plate, FCDM, OD setting master	Upto 25 °	15sec
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper thread Plug gauge (Effective Dia.)	Using FCDM, TMW, Setting masters, slip gauge set by comparison method	upto 100 mm	5.1µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge / Wear Check Plug (Parallel Thread-Major & Effective Diameter)	Using FCDM with Electronic Probe, Cylindrical Setting Master & Thread Measuring Wires By Comparison Method	2.0 mm to 100 mm	5.2µm



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35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic thickness gauge LC: 0.1 mm	Using Slip gauge by comparison Method	0 to 200 mm	71µm
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Parallelism/symmetry)	Using Plain mandrel, Granite L square, lever dial plunger dial, surface plate by comparison method:	Upto 200 mm	8.15µm
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (squareness)	Using Plain mandrel, Granite L square, lever dial plunger dial, surface plate by comparison method:	Upto 200 mm	12µm



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Site Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre	Using Plain Mandrel, Taper mandrel & Plunger dial by comparison method:	0 mm to 300 mm	12µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Precision spirit level LC 0.01mm/mtr by comparison method:	Up to 3000 x 3000 mm	3.1 Sqrt (L + W / 125)µm Where L & W in mm
3	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height gauge LC:0.1µm	Using Long slip gauge by comparison method	Up to 600 mm	15.2µm
4	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (angular scale), L.C 1 sec.	Using angle gauge blocks by comparison method	0 ° to 360°	2.0min
5	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (linear error) LC: 0.1 µm	Using Glass scale by comparison method:	Up to 300 mm	23.6µm
6	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector (Magnification)	Using slip gauge and vernier caliper by comparison method:	Up to 100X	1.0%



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* CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of $k = 2$.

