

SCOPE OF ACCREDITATION

Laboratory Name : Accreditation Standard Certificate Number Validity M-TECH ENTERPRISES, FLAT-105, CHANDRAPUSHP APARTMENT, LANDEWADI CHOWK, PIMPRI, PUNE, MAHARASHTRA, INDIA

CC-3203

05/01/2025 to 04/01/2029

ISO/IEC 17025:2017

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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)(±)
		The las	Permanent Facility	an Dr	
1	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor (L.C: 5')	Using Angle Gauge Blocks by Comparison method	0° to 90°	3.8 '
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 Compassion method	0 to 1.2 mm	2.05 μm
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	18.3 µm
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	10 µm
5	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Foils	Using Slip Gauge and Electronic Comparator with Stand by Comparison Method	0.01 mm to 5 mm	1.6 μm
6	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Meter/ DFT meter (L.C: 0.0001 mm)	Using Coating Thickness Foils by Comparison method	0.01 mm to 2 mm	1.65 μm



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7	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Meter/ DFT meter (L.C: 0.0001 mm)	Using Coating Thickness Foils by Comparison method	2 mm to 5 mm	3.51 μm
8	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness)	Using Electronic Probe and Surface Plate by Compassion method	200 mm	2 μm
9	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Measuring Pin	Using LMM by Comparison Method	0.17 mm to 20 mm	0.7 μm
10	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master (Concentricity)	Using FCDM by Comparison method	3 mm to 100 mm	1.8 μm
11	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master (Diameter)	Using Slip gauge and Electronic comparator with stand by Comparison method	3 mm to 100 mm	2.7 μm
12	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge (Vernier/ Dial/ Digital) (L.C: 10 μm)	Using Caliper checker and long slip gauge by Comparison method	0 to 600 mm	16.4 μm



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13	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C: 10 μm)	Using Slip gauge set/ Long Gauge Set by Compassion method	0 to 300 mm	5 μm
14	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge (Parallelism)	Using Slip gauge and Plunger dial by Comparison method	0 to 200 mm	3.70 μm
15	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L C: 1 μm)	Using Slip gauges by Comparison method	0 to 25 mm	1.7 μm
16	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineers Square (Perpendicularity)	Using Granite L Square Plunger and lever Dial by Comparison method	Up to 300 mm	12 µm
17	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineers Square (Parallelism/Straight ness)	Using Granite L square,Plunger and lever dial by Comparison method	Up to 300 mm	9 µm
18	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C: 1 µm)	Using Slip Gauge set and long Slip Gauge by Comparison method	0 to 500 mm	7 μm



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19	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C: 10 μm)	Using Slip Gauge set and Long Slip Gauge by Comparison method	>300 mm to 500 mm	10.5 µm
20	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Slip Gauge and Electronic Comparator with Stand by Comparison Method	0.01 mm to 1 mm	1.6 μm
21	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flush Pin Gauge/ Depth gauge	Using Slip gauge set and Electronic comparator with stand by comparison method	0.1 mm to 150 mm	5 μm
22	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Form Gauge/ Weld gauge/ Angle Gauge/ Industrial Template (Angle)	Using Digital Profile Projector by comparison method	0° to 90°	157 s of arc
23	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Form gauges/ Radius Gauge/ WFT Gauge/ Weld fillet gauge- Radius	Using Digital Profile Projector by comparison method	0.5 mm to 50 mm	15 µm
24	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Form gauges/ Standard wire gauge/ Industrial Template/ Weld Gauge- Linear	Using Digital Profile Projector by comparison method	0.5 mm to 50 mm	15 µm



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25	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Blocks / Height Masters	Using Slip Gauge set, Long Slip Gauge and Electronic comparator with stand by Comparison method	1 mm to 200 mm	2.8 μm
26	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/ Dial/ Digital) (L.C: 10 µm)	Using Caliper Checker, Long Slip Gauges, Surface Plate & Slip Gauge Set By Comparison Method	0 to 1000 mm	17.9 µm
27	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/ Dial/ Digital) (L.C: 10 µm)	Using Slip Gauge, Caliper Checker & Surface Plate by Comparison method	0 to 600 mm	13.2 µm
28	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	ID Caliper (L.C: 0.01 mm)	Using Slip Gauge Long slip and accessories by comparison method	0 to 300 mm	10 µm
29	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (L.C: 0.01 mm)	Using Slip gauge and Electronic Comparator by comparison method	13 mm to 63 mm	6.16 μm
30	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (L.C: 0.01 mm) (Stick not more than 300 mm)	Using Slip gauge/Long slip gauge and Electronic Comparator with stand by comparison method	50 mm to 1500 mm	6.83 μm

This is annexure to 'Certificate of Accreditation' and does not require any signature.



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31	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C: 1 µm)	Using Dial calibration tester by Comparison method	0 to 1.2 mm	1.5 μm
32	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale (L.C: 1 mm)	Using Measuring tape and Scale Calibrator by comparison method	0 to 1000 mm	130 µm
33	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape/ Pie tape (L.C: 1 mm)	Using Measuring tape and Scale Calibrator by comparison method	0 to 100 m	130 sqrt (L)µm, where L is in meter
34	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting rod / Sticks	Using Slip gauge set, Long Slip Gauge and Electronic comparator with stand by Comparison method	>300 mm to 475 mm	5 μm
35	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer setting stick	Using Slip gauge and Electronic comparator with stand by Comparison method	25 mm to 300 mm	3.6 µm
36	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper/ Outside caliper (L.C: 0.01 mm)	Using Slip gauge set by Comparison method	0 to 50 mm	99 µm





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37	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge/Setting Ring Gauge / ID Gauge	Using LMM and Master setting ring by Comparison method	100 mm to 300 mm	2.8 μm
38	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge/Setting Ring Gauge / ID Gauge	Using LMM and Master setting ring by Comparison method	2 mm to 100 mm	1.8 μm
39	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 mm to 300 mm	2.18 µm
40	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plug gauge / Width gauge / Setting master	Using Slip gauge and Electronic comparator with stand by Comparison method	0.5 mm to 100 mm	1.7 μm
41	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial (Analog/Digital) (L.C: 1 μm)	Using Dial Calibration Tester by Comparison Method	0 to 12.5 mm	1.7 μm
42	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial/ Digital Dial/ LVDT Probe (L.C: 0.001 mm)	Using LMM by Comparison Method	0 to 50 mm	1.5 μm



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43	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap gauge / Gap gauge	Using Slip Gauge set by Comparison method	100 mm to 300 mm	3.4 μm
44	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap gauge / Gap gauge	Using Slip gauge set by Comparison method	2 mm to 100 mm	2.3 μm
45	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Plug Gauge (DOP)	Using FCDM by Comparison Method	5 mm to 100 mm	4.7 μm
46	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Ring gauge (DBP)	Using Grade '0' Slip Gauge by Comparison method	15 mm to 100 mm	2.5 μm
47	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plug Gauge (Angle)	Using ULM & Thread Measuring Wire by comparison method	Up to 25°	15 "
48	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plug Gauge (Diameter)	Using ULM & Thread Measuring Wire by comparison method	Upto 150 mm	5.5 μm



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49	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper thread Plug gauge (Effective Dia / Step)	Using LMM by Comparison method	100 mm to 150 mm	4.4 μm
50	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper thread Plug gauge (Effective Dia./ Step)	Using FCDM, TMW, Setting masters, Slip gauge set by Comparison method	Up to 100 mm	5.1 μm
51	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire	Using LMM by Comparison Method	0.17 mm to 6.35 mm	0.7 μm
52	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge	Using Digital Profile Projector by comparison method	0.3 mm to 7 mm	15 µm
53	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge Flank Angle	Using Digital Profile Projector by comparison method	55 ° to 60 °	160 s of arc
54	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	5.2 μm



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55	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug gauge / Wear check Plug (Effective Diameter & Major Diameter)	Using LMM, Thread measuring wire, Gauge Block by Comparison method	100 mm to 300 mm	3.5 μm
56	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge / Wear Check Plug (Parallel Thread- Major & Effective Diameter)	Using ULM & Thread Measuring Wire by comparison method	2 mm to 100 mm	1.8 µm
57	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring gauge (Effective diameter)	Using ULM and Master Setting Ring by Direct method	100 mm to 300 mm	3.5 μm
58	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Diameter)	Using LMM & Master setting ring by Comparison method	3 mm to 100 mm	1.7 μm
59	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Two Pin Dial caliper/Inside Dial caliper (L.C: 10 μm)	Using Slip Gauge Long slip and accessories by comparison method	0 to 150 mm	15 µm
60	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic thickness gauge (L.C: 0.1 mm)	Using Slip Gauge by Comparison method	0 to 200 mm	71 µm



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61	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Parallelism)	Using plunger dial, Surface plate by Comparison Method	Upto 200 mm	8.15 μm
62	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (squareness)	Using Granite L square, Lever dial, Surface plate by Comparison Method	Upto 200 mm	12 µm
63	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Symmetricity of V- Axis)	Using Plain mandrel, Granite L Square, Plunger Dial, Surface Plate by Comparison Method	Upto 200 mm	8.15 μm





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1	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Co- Axiality)	Using Straight Mandrel and Plunger Dial by Comparison Method	0 to 300 mm	12 μm
2	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Parallelism)	Using Taper Mandrel & Plunger Dial by Comparison Method	0 to 300 mm	12 µm
3	MECHANICAL- DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate	Using Precision Spirit level LC 0.01mm/m by Comparison method	Up to 3000 mm x 3000 mm	3.1xSqrt(L+W/125) μm, where L & W in mm
4	MECHANICAL- PRESSURE INDICATING DEVICES	Analog / Digital Pressure Gauge	Using Digital pressure gauge and Hydraulic Pump by comparison Method as per DKD-R6-1	0 to 700 bar	1.9 bar
5	MECHANICAL- PRESSURE INDICATING DEVICES	Analog/ Digital Vacuum Gauge	Using Digital pressure Gauge & Pneumatic pressure pump by comparison Method as per DKD- R6- 2	-0.85 bar to 0 bar	0.004 bar
6	MECHANICAL- PRESSURE INDICATING DEVICES	Digital/ Analog Pressure gauge	Using Digital pressure gauge & Pressure Pump by comparison Method as per DKD-R6-1	0 to 40 bar	0.2 bar

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