National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : MT CALIBRATION SERVICES PRIVATE LIMITED, FLAT-105, CHANDRAPUSHP APARTMENT, LANDEWADI CHOWK, PIMPRI, PUNE, MAHARASHTRA, INDIA

Accreditation Standard 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)(±)
Permanent Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protractor (L.C: 5 min. of arc)	Using Angle Gauge Blocks by Comparison method	0° to 90°	3.8 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 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

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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
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

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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
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

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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/Straightness)	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
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

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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

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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
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

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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
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

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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
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

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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
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

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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

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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
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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Site Facility					
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

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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.**