



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	S.V. ENGINEERING CENTRE, PLOT NO. E-3, SANJAY COLONY, SECTOR-23, FARIDABAD, HARYANA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2472	Page No	1 of 42
Validity	11/02/2023 to 10/02/2025	Last Amended on	03/06/2023

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.)	Reference Sphere / Steel Ball	Using Laser Measuring System with LMM By Comparison Method	Upto 100 mm	0.05µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge Unit (L.C: 0.002 mm) (Digital/Dial type)	Using Plain Plug / Ring Gauge (Type A,B,C) By Comparison Method	± 0.08 mm	1.41µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge Unit (L.C: 0.0005/0.001 mm)	Using Plain Plug/ Ring Gauge (Type A,B,C) By Comparison Method	+/- 0.04 mm	0.25µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge Unit (Digital type) L.C: 0.0001 mm	Using Plain Plug / Ring Gauge (Type A,B,C) By Comparison Method	± 0.1 mm	0.16µm



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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Gauge	Using Sine Bar, Gauge Block, Master Cylinder & 2D height Gauge (By Comparison Method)	0° to 90° to 0°	1.1s
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Gauge	Using CMM (By Comparison Method)	0° to 90° to 0°	1.33s
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate	Using Gauge Blocks & Cylindrical Square. (By Comparison Method)	Upto 450 mm	6.0µm/m
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate	Using CMM (By Comparison Method)	Upto 500 mm	3.6µm/m
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Co-axiality and Parallelism)	Using Level, Standard Mandrels & Lever Type Dial Gauge. (By Comparison Method)	Upto 1500 mm	4.4 µm



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10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Angle Protector (Digital / Manual) L.C. 0.1 min / 5 min	Using Standard Angle Gauge (By Comparison Method)	0°-180°-0°	0.3min
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Angle Protector (Digital / Manual) L.C: 0.1 min / 5 min	Using CMM (By Comparison Method)	0° to 180° to 0°	1.5s
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (2 Point)	Using Dial Calibrator Tester/ Gauge Blocks (By Comparison Method)	Travel upto 2 mm	0.7µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (3 Point)	Using Master Ring Gauge (By Comparison Method)	Upto 300 mm	0.9µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Box Plate	Using Gauge Blocks & Cylindrical Square. (By Comparison Method)	Upto 450 mm	6.0µm/m



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15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Box Plate.	Using CMM (By Comparison Method)	Upto 500 mm	3.6µm/m
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Clinometers / Inclinometers (L.C: 1 min)	Using Sine Bar, Gauge Blocks (By Comparison Method)	0 ° to 360 °	35s
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CNC Machine Tools	Using Laser Measuring System (By Comparison Method)	Upto 30 m	(0.5+L/1000 µm, where L is in mm)
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Meter /Gauge (L. C - 0.0001 mm)	Using Standard Foils. (By Comparison Method)	0 to 10 mm	0.5µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set (L.C: 30 min / 1°)	Using Sine Bar / Gauge Block & Angle Gauges (By Comparison Method)	0° to 180 °	35min



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20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator stand (Flatness)	Using Gauge Block , Optical Flat, Dial Gauge Spirit Level 10µm/m (By Comparison Method)	500 mm x 500 mm	2µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cone (Angle)	Using CMM (By Comparison Method)	Upto 360 °	1.42s
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Square/ Master Cylinder	Using CMM (By Comparison Method)	Upto 700 mm	4µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Square/Master Cylinder	Using Gauge Blocks & Cylindrical Square. (By Comparison Method)	Upto 450 mm	6µm/m
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge/Depth Vernier L.C 0.001 mm	Using Gauge Blocks & Length Bars. (By Comparison Method)	Upto 500 mm	5.1 µm



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25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth/Inside Micro Checker	Using Gauge Block & Electronic Probe. (By Comparison Method)	Upto 300 mm	0.82µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth/Inside Micro Checker	Using 2 D Height Gauge with Laser Measuring System By Comparison Method	Upto 300 mm	1.8µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Gauge / Plunger Lever Type Dial L.C 0.001 mm	Using Dial Calibrator Tester/ Gauge Blocks (By Comparison Method)	Upto 25 mm	0.292µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge L.C-0.001 mm	Using Gauge Blocks. (By Comparison Method)	Upto 200 mm	1µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge/ Flush Pin Gauge L.C 0.001 mm	Using Gauge Blocks (By Comparison Method)	0 to 25 mm	0.8µm



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30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial/Digital Plunger / Lever Type Dial Gauge L.C 0.0001 mm	Using Laser Measuring System (By Comparison Method)	Upto 25 mm	0.22µm/m
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital / Dial External Micrometer (Flange Type/Ball Type/V-Type/Pointed Type) L.C 0.0001 mm	Using Gauge Blocks/ Setting Masters & Optical Flat.(By Comparison Method)	Upto 50 mm	0.2µm
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital / Dial Plunger/ Lever Type Gauge L. C 0.0001 mm	LMM (By Comparison Method)	0 to 25 mm	0.14µm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Digital /Manual Type Depth Micrometer L.C. 0.001 mm	Using Gauge Blocks. (By Comparison Method)	Upto 300 mm	1.1µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Square/ Tri Square, (Straightness/Parallelism/Squareness).	Using CMM (By Comparison Method)	Upto 500 mm	3.6µm/m



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35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Square/ Tri Square, (Straightness/Parallelism/Squareness)	Using Gauge Blocks & Cylindrical Square. (By Comparison Method)	Upto 450 mm	6.0µm/m
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer L.C. 0.001mm	Using Gauge Block & Electronic Probe. (By Comparison Method)	Upto 150 mm	0.4µm
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer Calibrator/Micrometer Head L.C. 0.1µm	Using Gauge Block & Electronic Probe. (By Comparison Method)	Upto 50 mm	0.11µm
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C 0.001 mm	Using Gauge Blocks ,optical flat & Length Bars. (By Comparison Method)	300 mm to 500 mm	1.55µm
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C 0.01 mm	Using Length Bar. (By Comparison Method)	500 mm to 1500 mm	4.24µm



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40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C 0.001 mm	Using Gauge Block, Length Bar & Optical Flat. (By Comparison Method)	100 mm to 300 mm	1.30µm
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Filler Gauge (Thickness)	Using Digital Micrometer (By Comparison Method)	0.01 mm to 10.0 mm	1.4µm
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge L.C-0.01 mm	Gauge Blocks / Length Bar & Electronic Probe. (By Comparison Method)	Upto 1500 mm	5.66µm
43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inside Dial Caliper (L C -0.010 mm)	Using Caliper Checker. (By Comparison Method)	5 mm to 95 mm	8.0µm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer L.C 0.001 mm	Using Caliper Checker , Gauge Blocks & Optical Flat. (By Comparison Method)	5 mm to 50 mm	0.8µm



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45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer L.C 0.001 mm	Using Gauge Blocks,Optical Flat,Lever Type Dial Gauge. (By Comparison Method)	50 mm to 600 mm	1.8µm
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Standard - (i) Setting Rods	Using Gauge Block, Electronic Probe & Length Bar. (By Comparison Method)	500 mm to 1000 mm	3.9µm
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Length Standard - Level Calibrator	Using CMM (By Comparison Method)	0 to 500 mm	2.7µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale (L.C -0.5 mm)	Using Scale Tape & Calibrator. (By Comparison Method)	Upto 1000 mm	35µm
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape/PI Tape/ Count Meter (L.C: 0.1 mm)	Using Scale & Tape Calibrator by Comparison Method	Upto 50 m	35XL/1000 µm Where, L is in mm



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50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Notch	Using CMM (By Comparison Method)	Upto 500 mm	2.5+L/250 μm (L is in mm)
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Notch (Check Angle)	Using Profile Projector/ Vision Measuring Machine (By Comparison Method)	Upto 300 mm	5.8 s
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Notch (Radius)	Using Profile Projector/ Vision Measuring Machine (By Comparison Method)	Upto 300 mm	1.50 μm
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Gauge-Flank Angle	Using Profile Projector/ Vision Measuring Machine (By Comparison Method)	Upto 60 °	5.81s
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch Gauge-Pitch	Using Profile Projector/ Vision Measuring Machine (By Comparison Method)	0 to 7 mm	1.77 μm



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55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Cylindrical Setting Masters (Diameter, Variation in diameter, Runout/parallelism)	Using Gauge Block & Electronic Probe. (By Comparison Method)	Upto 100 mm	0.25µm
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Cylindrical-Measuring Prism (Error between angles of adjacent faces , Cumulative Error between Faces)	Using Gauge Blocks & Electronic Probe (By Comparison Method)	Upto 100 mm	0.7µm
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Cylindrical-Plug Gauge /Setting Masters.	Using CMM (By Comparison Method)	100 to 500 mm	(1.5+L/350) µm(where L is in mm)
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Cylindrical-Plug Gauge/ Cylindrical Pins / Measuring Prism / Wires /Setting Masters. (Diameter, Variation in diameter, Runout/ parallelism)	Using CMM (By Comparison Method)	0 to 100 mm	(1.5+L/350) um (where L is in mm)



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59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Cylindrical-Plug Gauge/ Cylindrical Pins / Measuring Prism / Wires /Setting Masters. (Diameter, Variation in diameter, Runout/ parallelism)	Using Laser Measuring System (By Comparison Method)	0 to 100 mm	0.22µm/m
60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Cylindrical-Plug Gauge/ Setting Masters (Diameter, Variation in diameter, Runout/parallelism)	Using Gauge Blocks & Electronic Probe (By Comparison Method)	100 mm to 500 mm	1.3µm
61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Cylindrical-Plug Gauge/Setting Masters.	Using Laser Measuring System with LMM By Comparison Method	100 mm to 400 mm	0.22µm
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Cylindrical-Plug/ Pin Gauge (Diameter)	Using Gauge Blocks & Electronic Probe. (By Comparison Method)	Upto 500 mm	1.3µm



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63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Cylindrical-Plug Gauge / Pin Gauge/ wires (Diameter)	Using Gauge Blocks & Electronic Probe / LMM (By Comparison Method)	Upto 100 mm	0.25µm
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge (Diameter at four positions , Roundness)	Using Gauge Block & Electronic Probe/ LMM (By Comparison Method)	2 mm to 100 mm	0.32µm
65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge (Diameter at four positions , Roundness)	Using CMM By Comparison Method	2 mm to 500 mm	2 + L/250µm
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge (Diameter at four positions, Roundness)	Using Laser Measuring System with LMM By Comparison Method	2 mm to 400 mm	0.22µm/m
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge (Diameter at four positions, Roundness)	Using Gauge Block & Electronic Probe / LMM (By Comparison Method)	100 mm to 400 mm	1.68µm



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68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Snap Gauge (Gap Size, Parallelism)	Using Gauge Blocks/ LMM (By Comparison Method)	Upto 200 mm	0.76µm
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Snap Gauge (Gap Size, Parallelism)	Using Gauge Blocks/ LMM (By Comparison Method)	Upto 200 mm to 400 mm	1.26µm
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Snap Gauge (Gap Size, Parallelism)	Using CMM (By Comparison Method)	Upto 500 mm	4.0µm
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Gauge (Ring / Plug)	Using Sine Bar, Gauge Blocks, Standard Pins & Micrometer (By Comparison Method)	0 ° to 180 °	1.5s
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Gauge (Ring / Plug)	Using CMM (By Comparison Method)	0 ° to 180 °	1.2s



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73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain/Taper Mandrel (Variation Of Diameter , Total Run out ,Straightness, Length)	Using Gauge Blocks , Sine Centre & Electronic Probe (By Comparison Method)	Upto 500 mm	1.21µm
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain/Taper Mandrel (Cone Angle)	Using CMM (By Comparison Method)	Upto 500 mm	2s
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain/Taper Mandrel (Cone Angle)	Using Gauge Blocks , Sine Centre & Dial Indicator. (By Comparison Method)	Upto 500 mm	1.1s
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain/Taper Mandrel (Variation Of Diameter, Total Run out, Straightness, Length)	Using CMM (By Comparison Method)	Upto 500 mm	1.5 + L/300µm; L is in mm
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauges / Radius Chart (concave and convex profiles), (Radius)	Using Profile Projector/ Vision Measuring Machine (By Comparison Method)	0.05 mm to 300 mm	1.4 µm



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78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauges / Radius Chart (concave and convex profiles), (Radius)	Using CMM (By Comparison Method)	Upto 700 mm	1.5+L/300 μm(L is in mm)
79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius gauges, Radius chart, Welding Fillet Gauge, Angle, Profile Templates, Vickers/Knoop/ Rockwell Diamond Cone Indenter, Part Drafting / Weld/ Hi-Lo gauge, bridge cam gauge / Traverse of cupping mach	Using Vision Measuring Machine (By Comparison Method)	Upto 300 mm	0.3μm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Raiser Block (Mean height of raiser blocks)	Gauge Block & Electronic Probe. (By Comparison Method)	Upto 300 mm	0.8μm



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81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Receiver Gauge/ C.D Gauge/ Jig Fixtures/ Width Gauge/Limit Gauge/Nozzle/Hegmann gauge/Weld Fillet Gauge/ Straightness / Roundness/Reference Discs/ Concentricity Gauge/ Components 3D. Vickers/Knoop/	Using CMM (By Comparison Method)	Upto 500 mm	1.5+L/300µm(L is in mm)
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (Parallelism / Flatness / Centre Distance)	Using CMM (By Comparison Method)	Upto 500 mm	3.06 µm
83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (Parallelism / Flatness / Centre Distance)	Using Gauge Block & Electronic Probe (By Comparison Method)	Upto 500 mm	0.76 µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (Angle)	Using Gauge Blocks & Electronic Probe. (By Comparison Method)	Upto 90 °	0.3 s



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85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Bar (Angle)	Using CMM (By Comparison Method)	Upto 90 °	1.56s
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Centre (Parallelism / Flatness / Centre Distance)	Using CMM (By Comparison Method)	Upto 500 mm	3.06 µm
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Centre (Angle)	Using CMM (By Comparison Method)	Upto 90 °	1.56 s
88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Centre (Parallelism / Flatness / Centre Distance)	Using Gauge Block & Electronic Probe (By Comparison Method)	Upto 500 mm	0.76 µm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Centre (Angle)	Using Gauge Block & Electronic Probe (By Comparison Method)	Upto 90 °	0.3 s



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90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Slip Gauge Accessories (Flatness, Parallelism)	Using Gauge Block , Electronic Probe & Optical Flat. (By Comparison Method)	Upto 300 mm	1.4µm
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Plug Gauge (Diameter over Pins)	Using Standard Pin , Floating Carriage. (By Comparison Method)	2 mm to 100 mm	3.3µm
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Ring Gauge (Diameter over Pins)	Using Standard Pins & Gauge Blocks (By Comparison Method)	5 to 100 mm	0.41µm
93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Ring Gauge/ Spline Plug Gauge (Diameter over Pins / between Center pins)	Using CMM, Standard Pins. (By Comparison Method)	Upto 500 mm	1.5+L/300µm(L is in mm)
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Ring Gauge/ Spline Plug Gauge (Diameter over Pins)	Using standard Pins, LMM & Gauge Blocks. (By Comparison Method)	5 mm to 300 mm	1µm



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95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Squareness (L.C: 0.01 μm) (Flatness, Squareness)	Using Cylindrical Square & electronic Probe (By Comparison Method)	Upto 450 mm	3.21μm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Standard Foil Set (Thickness)	Using Gauge Blocks & Electronic Probe. (By Comparison Method)	0.01 mm to 10.0 mm	0.5μm
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straightness, Parallelism)	Using CMM (By Comparison Method)	Upto 2000 mm	3.9μm
98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straightness, Parallelism)	Using Level (By Comparison Method)	Upto 2000 mm	1.9SQRT(L/100)μm (where L is in mm)
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate(Flatness)	Using Level (By Comparison Method)	6000 x 2000 mm	1.3 SQRT(L+W/100)/1/2 μm(L & W is in mm)



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100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve (Aperture size)	Using Digital Caliper (By Comparison Method)	4 mm to 100 mm	7.6µm
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieve (Aperture size)	Using Profile projector/ Vision Measuring Machine (By Comparison Method)	0.02 mm to 4 mm	2.24µm
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Theodolite (Level)	Using Level Calibrator (By Comparison Method)	5 µm/m	0.7 s
103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness & Elongation Gauge (Dimension Only)	Using Digital Caliper (By Comparison Method)	14.7 mm to 81.0 mm	10.58µm
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness & Elongation Gauge (Dimension Only)	Using Digital Caliper (By Comparison Method)	4.8 mm to 33.90 mm	10.58µm



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105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Micrometer L.C: 0.001 mm (Error in micrometer screw)	Using Standard Wear Check Plug (By Comparison Method)	0.7 mm to 2.5 mm	1.97µm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge/ WCP (Plain / Taper type) (Major/ Minor/ Pitch Diameter)	Using FCDMM, Cylinder Setting Master/ Standard Wires & Prisms (By Comparison Method)	1 mm to 100 mm	3.1 µm
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge/ WCP(Plain/Taper) (Effective Dia.)	Using LMM,Cylinder Setting Master/Standard Wires. (By Comparison Method)	1 mm to 100 mm	0.51µm
108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge/ WCP(Plain/Taper) (Effective Dia.)	Using LMM, Cylinder Setting Master/Standard Wires. (By Comparison Method)	100 mm to 400 mm	1.3µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge/ Taper Thread Ring Gauge (Minor Diameter, Simple Effective Diameter)	Using LMM Machine, Master Setting Ring (By Comparison Method)	Upto 100 mm	0.51µm



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110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tool Maker / Universal Measuring Microscope (L.C: 0.001 mm) (Linear)	Using Glass Scale by Comparison Method	Upto 100 mm	0.8 μm
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tool Maker / Universal Measuring Microscope (L.C: 0.001 mm-Linear Dimension)	Using Laser Measuring System by Comparison Method	Upto 1000 mm	(0.21xL/1000) μm; Where L is in mm
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tool Maker / Universal Measuring Microscope (Magnification)	Using Glass Scale by Comparison Method	Upto 180X	0.06 %
113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Angle "V")	Using CMM (By Comparison Method)	Upto 90 °	2s
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Angle of "V")	Using Angle Gauges & Electronic Probe (By Comparison Method)	Upto 90 °	1.5s



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115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Parallelism/ Flatness/ Squareness / Symmetry)	Using CMM (By Comparison Method)	Upto 200 mm	1.63 μm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Parallelism/ Flatness/ Squareness / Symmetry)	Using Gauge Block, Cylindrical Square, Mandrel & Electronic Probe (By Comparison Method)	Upto 150 mm	1.82μm
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper L.C 0.01 mm (Error- External Jaws, Error- Internal Jaws, Error- Depth, Parallelism of Ext Jaws, Parallelism of Int. Jaws)	Using Length Bar, Caliper Checker & Gauge Blocks (By Comparison Method)	Upto 1000 mm	6μm
118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper L.C 0.01 mm (Error- External Jaws, Error- Internal Jaws, Error- Depth, Parallelism of Ext Jaws, Parallelism of Int. Jaws)	Using Caliper Checker (By Comparison Method)	Upto 300 mm	5.1μm



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119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Caliper (L.C: 0.01 mm)	Gauge Blocks & Length Bars. (By Comparison Method)	0 to 2000 mm	13µm
120	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	3D Co - ordinate Measuring Machine (Length Measuring Error)	Using Laser Measuring system (By Comparison Method)	Up to 2000 mm	0.50µm/m
121	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	3D Co-ordinate Measuring Machine (Probing Error, Length Measuring Error)	Using Step gauge, Gauge Blocks, Test Sphere (By Comparison Method)	Upto 1m x 1m x 1m	6x L µm(where L is in m)
122	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Angular Graticule (L.C: 1s) (Angle)	Using Profile Projector/Vision Measuring Machine (By Comparison Method)	0 ° to 360 °	5.8 arc s
123	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Ball Bar System -Ball Bar Calibrator. (Linear displacement, Center Distance)	CMM (By Comparison Method)	Upto 300 mm	1.5+ L/300 µm (L is in mm)
124	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Ball Bar System -Ball Bar Transducer. (Linear displacement)	LMM / ULM (By Comparison Method)	Travel ± 1.0mm(Range upt	0.18µm



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125	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker (Length)	Using Length Bar & Electronic Probe (By Comparison Method)	Upto 1000 mm	2.9µm
126	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker (Length)	Using Gauge Block & Electronic Probe. (By Comparison Method)	Upto 600 mm	1.5µm
127	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker (Length)	Using 2D Height Gauge with Laser Measuring System By Comparison Method	1000 mm	0.22µm/m
128	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker (Length)	Using CMM by Comparison Method	600 mm	5µm
129	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Gauge / Plunger/ Lever Type (L.C: 0.0005 mm) (Error in Band)	Using LMM by Comparison Method	Up to ± 0.025 mm	0.09µm
130	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Digital / Dial Calibration Tester (L.C: 0.0001mm) (Drum Error)	Using Laser Measuring System/Optical Flat (By Comparison Method)	0 to 25 mm	0.08µm
131	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Digital / Dial Calibrator Tester L.C.-0.0001 mm (Drum Error)	Using Gauge Blocks. (By Comparison Method)	Upto 25 mm	0.17µm



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132	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Level (Sensitivity: 0.001 mm/m) (Error, Bubble Measuring Error, Flatness of Base)	Using Level Calibrator (By Comparison Method)	5 mm/m	2.74 µm
133	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe L.C 0.01 µm / 0.1 µm (Error in Length Measurement)	Using Gauge Block. (By Comparison Method)	Upto 25 mm	0.12µm
134	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Probe L.C 0.01 µm / 0.1 µm (Error in Length Measurement)	Using Laser Measuring System (By Comparison Method)	Upto 25 mm	0.22µm/m
135	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage DMM L.C 0.1 µm Straightness/ Concentricity / Micrometer Travel / Flatness of Measuring Faces. (Micrometer Head Error, Alignment of centres to base, Parallelism of micrometer face)	Using Gauge Blocks / Electronic Probe / Cylindrical Setting Master. (By Comparison Method)	175 mm	0.8µm
136	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Glass Scales / Glass Grid (Error between graduation lines over entire length)	Using Laser Measuring System with UMM by comparison method	0 to 400 mm	0.22µm/m



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137	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Gauge (Digital Electronic Comparator L.C 0.0001 mm) (Measuring Error along working length)	Using Gauge Block & Electronic Probe. (By Comparison Method)	Upto 600 mm	2.0µm
138	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Gauge (Digital Electronic Comparator) L.C: 0.0001 mm	Using Gauge Block, Electronic Probe & Length Bar. (By Comparison Method)	0 to 1000 mm	2.85µm
139	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Gauge / 2 D Height Gauge L.C 0.0001 mm (Linear Error/ Squareness)	Using Laser Measuring System (By Comparison Method)	Upto 2000 mm	0.22µm/m
140	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Micrometer / Check Master Depth/Inside Micro-Checker L.C. 0.001 mm (Length)	Using Gauge Blocks & Electronic Probe. (By Comparison Method)	Upto 600 mm	1.67µm
141	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length / Universal Measuring Machine (L.C: 0.01 µm- Length Measuring error over entire range)	Using Laser Measuring System by Comparison Method	Upto 5000 mm	$(0.12+(L/10))\mu\text{m}$; where L is in m



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142	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length / Universal Measuring Machine (L.C: 0.01µm-Length Measuring error over entire range)	Using Gauge Blocks by Comparison Method	Upto 100 mm	0.12µm
143	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length / Universal Measuring Machine (L.C: 0.01µm-Length Measuring error over entire range)	Using Gauge Blocks by Comparison Method	Upto 500 mm	(0.12+(L/10))µm; where L is in m
144	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Standard - (i) Length Bar (Long Gauge Blocks) (ii) Micrometer Setting Rods. (iii) Setting Masters (Length, Diameter of Setting rods)	Using Gauge Blocks & Electronic Probe (By Comparison Method)	Upto 1000 mm	1.3µm
145	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Standard - (i) Length Bar (Long Gauge Blocks) (ii) Micrometer Setting Rods. (iii) Setting Masters	Using Gauge Blocks & Electronic Probe. (By Comparison Method)	Upto 300 mm	0.45 um



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146	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Standard - (i) Length Bar (Long Gauge Blocks) (ii) Micrometer Setting Rods. (iii) Setting Rods (Length, Diameter of Setting rods)	Using 2D Height Gauge with Laser Measuring System by comparison method	Upto 1000 mm	0.22µm/m
147	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Level Calibrator (Length)	2d Height Gauge & Gauge Blocks (By Comparison Method)	Upto 500 mm	0.44µm
148	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Micrometer Head (L.C: 0.0001 mm & coarser)- (Linear Error, Flatness of Anvils)	Using Laser Measuring System/Optical Flat (By Comparison Method)	0 to 25 mm	0.12µm
149	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Optical Flat Type A (Flatness)	Using Monochromatic Light, Master Optical Flat. (By Comparison Method)	Upto 100 mm	0.084µm
150	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Optical Parallel / Optics Flats Type B (Flatness of Both Faces)	Using Monochromatic light, Master Optical Flat (By Comparison Method)	Upto 45 mm	0.084µm



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151	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Vision Measuring Machine (VMM) Linear Scale - L.C: 0.001 mm	Using Glass Scale / Gauge Blocks by Comparison Method	Up to 400 mm	3.1 μm
152	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Vision Measuring Machine (VMM) - Angular Scale (L.C: 1 arc s)	Using Angle Gauges by Comparison Method	Upto 360 °	2.1 arc s
153	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Vision Measuring Machine (VMM) - Magnification	Using Glass Scale / Gauge Blocks / Angle Gauges (By Comparison Method)	Upto 180x	0.06 %
154	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Vision Measuring Machine (VMM) X,Y Axis (Linear Scale: L.C. 0.001 mm)	Using Glass Scale (By Comparison Method)	Up to 400 mm	1μm
155	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Vision Measuring Machine(VMM) X,Y Axis (Linear Scale-L.C. 0.001 mm) (Linear Error)	Using Laser Measuring System (By Comparison Method)	Upto 1000 mm	0.22μm/m
156	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ Vision Measuring Machine (VMM) (Angular Scale - L.C: 1 arc s), (Angle)	Using Angle Gauges (By Comparison Method)	Upto 360 °	2.1 s



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157	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Scale / Tape Calibrator	Using Gauge Blocks & Length Bar.	Up to 1000 mm	11µm/m
158	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Scale / Tape Calibrator	Using Laser Measuring System	Upto 5000 mm	0.22µm/m
159	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Step Gauge	Using 2D Height Gauge with Laser Measuring System By Comparison Method	Upto 1000 mm	0.22µm/m
160	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Step Gauge	Using Length Bar & Electronic Probe.	Upto 1000 mm	3µm
161	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Step Gauge	Using Gauge Block & Electronic Probe.	Upto 600 mm	1.5µm
162	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Step Gauge	CMM	Upto 600 mm	4.0µm
163	MECHANICAL-DUROMETER	Rubber Hardness Calibrator	Using Weights by comparison method	0 to 100 Shore A	0.15 Shore A
164	MECHANICAL-DUROMETER	Rubber Hardness Calibrator	Using Weights by comparison method	0 to 100 Shore D	0.044 Shore D



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165	MECHANICAL-DUROMETER	Rubber Hardness Tester	Using Rubber Hardness Calibrator	0 to 100 Shore D	0.08Shore D
166	MECHANICAL-DUROMETER	Rubber Hardness Tester (Shore A/ AO/ AM/ IRHD)	Using Rubber Hardness Calibrator	0 to 100 Shore A /AO/ AM/ IRHD	0.3 Shore A



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Site Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge Unit (L.C: 0.002 mm) (Digital/Dial type)	Using Plain Plug / Ring Gauge (Type A,B,C) By Comparison Method	± 0.08 mm	1.41µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge Unit (L.C: 0.0005/0.001 mm)	Using Plain Plug/ Ring Gauge (Type A,B,C) By Comparison Method	+/- 0.04 mm	0.25µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge Unit (Digital type) L.C: 0.0001 mm	Using Plain Plug / Ring Gauge (Type A,B,C) By Comparison Method	± 0.1 mm	0.16µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate	Using Gauge Blocks & Cylindrical Square. (By Comparison Method)	Upto 450 mm	6.0µm/m



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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Co-axiality and Parallelism)	Using Level, Standard Mandrels & Lever Type Dial Gauge. (By Comparison Method)	Upto 1500 mm	4.4 µm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Box Plate	Using Gauge Blocks & Cylindrical Square. (By Comparison Method)	Upto 450 mm	6.0µm/m
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	CNC Machine Tools	Using Laser Measuring System (By Comparison Method)	Upto 30 m	(0.5+L/1000 µm, where L is in mm)
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Square/Master Cylinder	Using Gauge Blocks & Cylindrical Square. (By Comparison Method)	Upto 450 mm	6µm/m
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Square/ Tri Square, (Straightness/Parallelism/Squareness)	Using Gauge Blocks & Cylindrical Square. (By Comparison Method)	Upto 450 mm	6.0µm/m



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10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Extensometer L.C. 0.001mm	Using Gauge Block & Electronic Probe. (By Comparison Method)	Upto 150 mm	0.4µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straightness, Parallelism)	Using Level (By Comparison Method)	Upto 2000 mm	1.9SQRT(L/100)µm (where L is in mm)
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate(Flatness)	Using Level (By Comparison Method)	6000 x 2000 mm	1.3 SQRT(L+W/100)/1/2 µm(L & W is in mm)
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tool Maker / Universal Measuring Microscope (L.C: 0.001 mm) (Linear)	Using Glass Scale by Comparison Method	Upto 100 mm	0.8 µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tool Maker / Universal Measuring Microscope (L.C: 0.001 mm-Linear Dimension)	Using Laser Measuring System by Comparison Method	Upto 1000 mm	(0.21xL/1000) µm; Where L is in mm



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15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Tool Maker / Universal Measuring Microscope (Magnification)	Using Glass Scale by Comparison Method	Upto 180X	0.06 %
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Angle of "V")	Using Angle Gauges & Electronic Probe (By Comparison Method)	Upto 90 °	1.5s
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Parallelism/ Flatness/ Squareness / Symmetry)	Using Gauge Block, Cylindrical Square, Mandrel & Electronic Probe (By Comparison Method)	Upto 150 mm	1.82µm
18	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	3D Co - ordinate Measuring Machine (Length Measuring Error)	Using Laser Measuring system (By Comparison Method)	Up to 2000 mm	0.50µm/m
19	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	3D Co-ordinate Measuring Machine (Probing Error, Length Measuring Error)	Using Step gauge, Gauge Blocks, Test Sphere (By Comparison Method)	Upto 1m x 1m x 1m	6x L µm(where L is in m)



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20	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Digital / Dial Calibration Tester (L.C: 0.0001mm) (Drum Error)	Using Laser Measuring System/Optical Flat (By Comparison Method)	0 to 25 mm	0.08µm
21	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Digital / Dial Calibrator Tester L.C.-0.0001 mm (Drum Error)	Using Gauge Blocks. (By Comparison Method)	Upto 25 mm	0.17µm
22	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage DMM L.C 0.1 µm Straightness/ Concentricity / Micrometer Travel / Flatness of Measuring Faces. (Micrometer Head Error, Alignment of centres to base, Parallelism of micrometer face)	Using Gauge Blocks / Electronic Probe / Cylindrical Setting Master. (By Comparison Method)	175 mm	0.8µm
23	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Gauge (Digital Electronic Comparator L.C 0.0001 mm) (Measuring Error along working length)	Using Gauge Block & Electronic Probe. (By Comparison Method)	Upto 600 mm	2.0µm



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24	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Gauge (Digital Electronic Comparator) L.C: 0.0001 mm	Using Gauge Block, Electronic Probe & Length Bar. (By Comparison Method)	0 to 1000 mm	2.85µm
25	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length / Universal Measuring Machine (L.C: 0.01 µm- Length Measuring error over entire range)	Using Laser Measuring System by Comparison Method	Upto 5000 mm	$(0.12+(L/10))\mu\text{m}$; where L is in m
26	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length / Universal Measuring Machine (L.C: 0.01µm-Length Measuring error over entire range)	Using Gauge Blocks by Comparison Method	Upto 100 mm	0.12µm
27	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length / Universal Measuring Machine (L.C: 0.01µm-Length Measuring error over entire range)	Using Gauge Blocks by Comparison Method	Upto 500 mm	$(0.12+(L/10))\mu\text{m}$; where L is in m
28	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Vision Measuring Machine (VMM) Linear Scale - L.C: 0.001 mm	Using Glass Scale / Gauge Blocks by Comparison Method	Up to 400 mm	3.1 µm
29	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Vision Measuring Machine (VMM) - Angular Scale (L.C: 1 arc s)	Using Angle Gauges by Comparison Method	Upto 360 °	2.1 arc s



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30	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Vision Measuring Machine (VMM) - Magnification	Using Glass Scale / Gauge Blocks / Angle Gauges (By Comparison Method)	Upto 180x	0.06 %
31	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Vision Measuring Machine (VMM) X,Y Axis (Linear Scale: L.C. 0.001 mm)	Using Glass Scale (By Comparison Method)	Up to 400 mm	1µm
32	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Vision Measuring Machine(VMM) X,Y Axis (Linear Scale- L.C. 0.001 mm) (Linear Error)	Using Laser Measuring System (By Comparison Method)	Upto 1000 mm	0.22µm/m
33	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ Vision Measuring Machine (VMM) (Angular Scale - L.C: 1 arc s), (Angle)	Using Angle Gauges (By Comparison Method)	Upto 360 °	2.1 s
34	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Roundness Tester / Radial / Axial /Straightness. (Roundness)	Using Gauge Blocks /Master Cylinder /Test sphere by Comparison Method)	300 mm x 350 mm	4.0 µm
35	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Scale / Tape Calibrator	Using Gauge Blocks & Length Bar.	Up to 1000 mm	11µm/m



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36	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Scale / Tape Calibrator	Using Laser Measuring System	Upto 5000 mm	0.22µm/m

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