National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CALIBER GAUGES AND INSTRUMENTS LABORATORY LLP, S. NO. 14/1, DATTADIGAMBER COLONY B, 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.)	Square Master / Right angle / Engineer Square / Square Cylinder - (Squareness)	Using Square Master and Gauge Block by comparison method	0 to 600 mm	7.8 µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge Unit	Using Master setting ring gauge along with air plug by comparison method	-0.045 mm to 0.045 mm	1.7 um
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Gauge (Industrial type)	Using Video Measuring Machine by direct Method	0 ° to 90 °	25. 3 arc sec
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Gauge Block	Using Auto collimator and angle gauge block by comparison method	0 ° to 90 °	3 arc sec

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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Parameter - Flatness)	Using Electronic level meter by comparison method	Up to 600 mm	7.8 µm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Parallelism)	Using Lever dial with transfer stand and surface plate by comparison method.	Up to 600 mm	7.8 µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angle Plate (Parameter Squareness)	Using Square master with Gauge block by comparison method	Up to 600 mm	7.8 µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Angular Scale - (L.C: 5 arc min)	Using Video Measuring Machine by Direct Method	0 ° to 360 °	7 arc sec
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ball Indentor (Radius)	Using Video Measuring Machine by direct method	1 mm to 15 mm	3 µm

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10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center Parameter - Coaxiality of Centres	Using Plain Mandrel with Lever Dial by comparison method	Up to 600 mm	2.5 µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench centre Parameter - Parallelism of Axis of Centres with Respect to Guideways.	Using Taper Mandrel with lever dial by comparison method.	0 to 600 mm	2.5 µm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector / Inclinometer / clinometer (L.C: 0.01°)	Using Angle Gauge Block, by comparison method	0 ° to 360 °	3.1 arc sec
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Gauge (Transmission Accuracy only) L.C 0.001 mm	Using LMM by direct method	0 to 2 (Transmission error) mm	3.5 µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	C.D / PCD gauge	Using Electronic Height Gauge - 2D (L.C 0.0001 mm) By Comparison Method.	300 mm to 600 mm	5.0 µm

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15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers (Vernier/dial/digital) L.C 0.02 mm	Long gauge block, Length bar & Gauge Blocks by comparison method	0 to 2000 mm	24 µm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers (Vernier/Dial/Digital) L.C 0.01 mm	Using caliper checker & Length bar by comparison method	0 to 1000 mm	22 µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Calipers (Vernier/Dial/Digital) L.C 0.01 mm	Using Caliper Checker & Gauge block by comparison method	0 to 600 mm	16 µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.00001 mm)	Using Coating Thickness Foils by Comparison Method.	0 to 500 µm	1.25 µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.00001 mm)	Using Coating Thickness Foils by Comparison Method.:	500 µm to 3000 µm	7.5 µm

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20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination set (Square head and centre head angle)	Using VMM by comparison method	up to 90 °	2 arc min
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Base (metal) - Flatness	Using Optical Flat & Monochromatic Light Source by comparison method	up to 100 mm	0.32 µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Base - Flatness	Using Electronic Probe and Surface Plate by comparison method	Up to 200 mm	1.2 µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cube mould / Beam mould / Cylindrical mould / Bar mould (Height, Width, Lengh & Diameter)	Using Electronic height gauge by comparison method	Up to 300 mm x 300 mm	16.46 µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master / Cylindrical Disc (Concentricity)	Using Sine center and FCDM by comparison method	100 mm to 200 mm	1.5 µm

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25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master / Cylindrical Disc / O.D Master/Height Master (Diameter)	Using Electronic Probe and Gauge Block by comparison method	100 mm to 200 mm	1.5 µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master / Cylindrical Disc / O.D Master/Height Master (Diameter)	Using Electronic Probe and Gauge Block by comparison method	Up to 100 mm	0.91 µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master / Cylindrical Disc / OD master/Height Master (Concentricity)	Using Sine center and FCDM by comparison method	Up to 100 mm	0.91 µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Degree protector / Combination set (L.C 1 °)	Using Angle Gauge Block by comparison method:	0 ° to 360 °	3.1 arc sec
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Caliper (Vernier/Dial/Digital) L.C. 0.01 mm	Using Gauge Block, Long Gauge Block, Surface Plate by comparison method	0 to 600 mm	16 µm

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30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth master (Roughness)	Using Surface Roughness Tester by comparison method	0 to 0.01 mm	6.8 %
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C: 0.001 mm	Using Gauge Block, Long Gauge Block and Surface plate by comparison method	0 to 300 mm	4.2 µm
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge (Parameter-Flatness, parallelism)	Using Optical Flat & Gauge Block by comparison method	0 to 200 mm	2.5 µm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge L.C. 0.001 mm	Using Gauge Block by Comparison Method	0 to 100 mm	5.9 µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Height Gauge (Parameter - Linear) L.C: 0.0001mm	Using Long Gauge Block, surface plate by Comparison Method	0 to 1000 mm	3.0 µm

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35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Height Gauge (Parameter - Squareness)	Using Square master and surface plate by comparison method	0 to 600 mm	5.6 µm
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic level L.C: 1 µm/m	Using Auto colimator by comparison method	Up to 2 mm/m	1.1 µm/m
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probe L.C: 0.0001mm	Using Gauge Block by comparison method	0 to 25 mm	0.3 µm
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Parallel (Parallism)	Using Lever Dial, Surface Plate by comparison method	Up to 100 mm	2 µm
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineering Parallel (width / Thickness)	Using Electronic Probe and Slip Gauge Set by comparison method	Up to 100 mm	2 µm

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40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Length measuring machine by direct method	0.005 mm to 3 mm	1.0 µm
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flakiness Gauge / Elongation Gauge	Using Electronic Height Gauge/ Vernier Caliper by Comparison method	Up to 300 mm	19.22 µm
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) L.C. 0.01 mm	Using Caliper Checker, Length Bar, Surface Plate by comparison method	0 to 600 mm	11 µm
43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Vernier/Dial/Digital) L.C: 0.01 mm	Using Caliper Checker, Length Bar, Surface Plate by comparison method	0 to 1000 mm	22 µm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inspection fixture / Relation Gauge / CD / PCD Gauge (Parameter- Length, Height, Depth, CD)	Using Electronic Height Gauge by Comparison Method	1 mm to 300 mm	8.7 µm

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45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal / Inside Caliper L.C: 0.001 mm	Using LMM by direct method	0 to 150 mm	6.0 µm
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (Micrometer Head Extension Rod) L.C: 0.001mm	Using Electronic probe with Comparator Stand and long slip by comparison method	0 to 1000 mm	9.5 µm
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (Micrometer Head, Extension Rod) L.C: 0.001mm	Using Length measuring machine by comparison method	0 to 100 mm	2 µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (Micrometer Head, Extension Rod) L.C: 0.001mm	Using Electronic probe with Comparator Stand and long Gauge block by comparison method	0 to 400 mm	4.0 µm
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Laser distance meter	Using Measuring Tape & Scale machine by comparison method	0 to 1000 mm	22.2 µm

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50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial L.C: 0.0001mm	Using UMM and Laser interferometer by comparison method	0 to 2 mm	0.08 µm
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial L.C: 0.01mm	Using Length Measuring Machine by direct method	0 to 2 mm	3.0 µm
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial L.C 0.001 mm	Using Length Measuring machine by direct method.	0 to 0.2 mm	1.0 µm
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using Length measuring machine by direct method.	0.05 mm to 20 mm	0.8 µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale L.C: 1/ 0.5 mm	Using Tape & Scale Measuring Machine by comparison method	0 to 2000 mm	(80 x Sq. root L) µm Where L in m

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55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape/ Pie Tape L.C: 1 mm/ 0.1 mm	Using Tape & Scale Measuring Machine by comparison method	0 to 50000 mm	(80 x Sq. root L) µm Where L in m
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Electronic Probe with comparator stand and Gauge Block by comparison method	2.5 mm to 200 mm	2.0 µm
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Electronic Probe with comparator stand, Long Gauge Block and Gauge block by comparison method	200 mm to 500 mm	5.2 µm
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Rod	Using Electronic Probe with comparator stand, Long Gauge Block and Gauge block by comparison method	500 mm to 1000 mm	5.46 µm
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Micrometer L.C. 0.001 mm	Using Gauge Block, Length Bar, Micrometer Stand by comparison method	0 to 100 mm	2.0 µm

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60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Micrometer L.C: 0.001 mm	Using Gauge Block, Length Bar, Micrometer Stand by comparison method	100 mm to 300 mm	2.8 µm
61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Micrometer L.C: 0.001 mm	Using Gauge Block, Long Gauge Block, Length Bar, Micrometer Stand by comparison method	300 mm to 500 mm	7.4 µm
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Outside Micrometer L.C: 0.01 mm	Using Gauge Block, Length Bar, Micrometer by comparison method	500 mm to 1000 mm	14.5 µm
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Paint Thickness foil / Coating Thickness Foil / Thickness Foil.	Using length measuring machine by direct method	0.005 mm to 3 mm	1 µm
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper L.C. 0.1 mm	Using Gauge Block by Comparison Method	0 to 100 mm	60 µm

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65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Setting Ring Gauge	Using Length measuring machine, Plain ring gauge by comparison method	1 mm to 100 mm	1.7 µm
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain / Setting Ring Gauge	Using LMM, plain ring gauge by comparison method	100 mm to 300 mm	2.9 µm
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Mandrel (Diametrical Variation, Total Run Out)	Using Sine Center, Dial Snap Gauge, bench center, lever dial by comparison method	5 mm to 300 mm	3.0 µm
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Width / Depth / Flush Pin Gauge (Diameter / Width / Depth)	Using Electronic Probe & Gauge Block by comparison method	0.1 mm to 100 mm	1.3 µm
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Width / Depth / Flush Pin Gauge (Diameter / Width / Depth)	Using Electronic Probe with comparator stand and Gauge Block comparison method	100 mm to 300 mm	3.0 µm

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70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Width / Depth / Flush Pin Gauge (Diameter / Width / Depth)	Using Electronic Probe with comparator stand and Gauge Block comparison method	300 mm to 500 mm	5.0 µm
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain taper plug gauge (Angular)	Using LMM, Measuring pin, Gauge block by comparison method	Up to 90 °	37 arc sec
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Plug Gauge (Major, Minor, Diameter,Step)	Using LMM, Measuring pin, Gauge block by comparison method	2 mm to 200 mm	3.22 µm
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Ring Gauge (Angle)	Using LMM, plain ring gauge by comparison method	Up to 90 °	24 arc sec
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Ring Gauge (Major, Minor, Diameter, Step)	Using LMM, Plain ring gauge by comparison method	2 mm to 100 mm	3 µm

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75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial (Digital / Analogue) L.C. 0.001mm	Using LMM by direct method	0 to 25 mm	1 µm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial (Digital / Analogue) L.C. 0.01mm	Using UMM by direct method	0 to 50 mm	4.2 µm
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial (Digital/ Analogue) L.C: 0.0001mm	Using UMM and Laser Interferometer by comparison method	0 to 25 mm	0.08 µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using Video Measuring Machine by direct method	0.2 mm to 30 mm	6 µm

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79	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Rivet Gauge (Parameter-Rivet Length) Drill Gauge (Parameter - Diameter) Wire Gauge, Wet film thickness gauge, Cross hatch cutter	Using Video Measuring Machine by direct method	0.5 mm to 50 mm	5.1 µm
80	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sin Center/Sine Bar (Angle)	By using angle gauge block comparison method	Up to 45 °	8 arc sec
81	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Center (Co-axiality)	Using Test mandrel and lever dial by comparison method	Up to 300 mm	2.6 µm
82	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Center/ Sine Bar (Parallelism)	Using Electronic Height Gauge by comparison method	Up to 300 mm	2.6 µm

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83	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Sine Center/ Sine Bar (Center distance)	Using Electronic Height Gauge by comparison method	Up to 300 mm	2.6 µm
84	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Gauge Block, Long Gauge block by comparison method	100 mm to 600 mm	5.3 µm
85	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Gauge Block by comparison method	2 mm to 100 mm	3.14 µm
86	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spirit Level (Type-Flat, Vee, Frame) L.C: 0.01 mm/m	Using Electronic Level Meter using Tilting Fixture by comparison method	0 to 0.120 mm/m	10 µm/m
87	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Gauge (over pin and major diameter)	Using Floating Carriage micrometer and measuring pin by comparison method	1 mm to 100 mm	3.32 µm

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88	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Square Master / Right angle / Engineer Square / Square Cylinder - (Parallelism)	Using Lever dial with transfer stand by using comparison method	0 to 600 mm	7.8 µm
89	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Square Master / Right angle / Engineer Square / Square Cylinder - (Straightness)	Using Lever dial with transfer stand by using comparison method	0 to 600 mm	7.8 µm
90	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Parallelism)	Using lever dial and surface plate by comparison method	Up to 2000 mm	1.7 x (SQRT L/125) µm to (L in mm)
91	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Parallelism)	Using Lever dial Gauge and transfer stand surface plate by comparison method	Up to 3500 mm	1.7 x (SQRT L/125) µm (Lin mm)
92	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straightness)	Using Electronic Level Meter (width more than 40 mm) by comparison method	Up to 2000 mm	1.7 x (Sq. root L/125) µm Where L in mm

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93	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straightness)	Using lever dial and surface plate (width less than 40 mm) by comparison method	Up to 2000 mm	1.7 x (SQRT L/125) µm to (L in mm)
94	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straightness)	Using Electronic Level Meter by comparison method	Up to 3500 mm	(1.7 x Sq. root L/125) µm (Where L is in mm)
95	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Parameter-Flatness)	Using Electronic Level Meter by comparison method	200 mm x200 mm to 1000 mm x1000 mm	(0.9 x Sq. root L+W/125) µm Where L& W in mm
96	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper mandrel (Angle)	Using length measuring machine, gauge block and measuring pin by comparison method.	0 ° to 90 °	15 arc sec
97	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper mandrel - (Diametrical variation)	Using Dial snap gauge by Comparison Method	5 mm to 300 mm	3.0 µm

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98	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper mandrel - (Major diameter)	Using Length Measuring machine, Measuring pin, gauge block by comparison method	5 mm to 300 mm	3.0 µm
99	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper mandrel - (Total runout)	Using Bench Center and lever dial by Comparison Method	5 mm to 300 mm	3.0 µm
100	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale	Using VMM by comparison Method	Up to 50 mm	7.8 µm
101	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Parameter-Effective Dia./Step)	Using length measuring machine, thread measuring wire, setting master by comparison method.	100 mm to 204 mm	4.2 µm
102	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Parameter-Effective Dia./Step)	Using Floating Carriage Micrometer, Thread measuring wire, setting master by comparison method	2 mm to 100 mm	4.0 µm

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103	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Parameter-Effective Dia./Step)	Using Length Measuring Machine/ check plug stand off method by comparison method	2 mm to 100 mm	4.0 µm
104	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Template / Form gauge (Parameter - Length, Radius, depth)	Using Countour measuring machine by direct method	0 to 120 mm	3.22 µm
105	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Template / Form gauge (Parameter - Length, Diameter, Radius, Center distance)	Using video measuring machine direct method	Up to 300 mm	2.8 µm
106	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Template / Form gauge/ Inspection fixture (Parameter - Angle)	Using video measuring machine, by comparison method	0 ° to 90 °	18 arc sec
107	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture Size)	Using video measuring machine by direct method	0.032 mm to 10 mm	3.9 µm

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108	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Sieves (Aperture Size)	Using Vernier caliper by comparison method	10 mm to 125 mm	25.98 µm
109	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Gauge (External - Plug / Internal - Ring) Parameter (Angle)	Using Contour measuring equipment direct method.	20 ° to 60 °	5 arc sec
110	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Gauge (External - Plug/ Internal - Ring) Parameter (Pitch)	using contour measuring equipment by direct method	0.2 mm to 10 mm	2.4 µm
111	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring prism (Flatness)	Using optical flat by comparison method	Up to 1 mm	1 µm
112	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring prism (radius)	Using Video Measuring machine by direct method	Up to 10 mm	1.78 µm

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113	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Prism (Width)	Using electronic probe with comparison method	Up to 10 mm	1 µm
114	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire	Using Length measuring machine by comparison method	0.1 mm to 6.35 mm	0.3 µm
115	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Parameter - Pitch)	Using Video measuring machine by direct method	0.2 mm to 10 mm	3.5 µm
116	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Parameter- Angle)	Using Video measuring machine by direct method	Up to 90°	1 arc min
117	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread pitch Micrometer L.C 0.001 mm	Using Gauge block by comparison method	0 to 25 mm	2.0 µm

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118	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Micrometer (L.C: 0.001mm) Flank Angle	Using VMM by Direct method	Up to 60°	30 arc sec
119	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective Diameter)	Using Length measuring machine and Long Gauge block by comparison method	100 mm to 400 mm	3.5 µm
120	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective, Major and Minor Diameter, pitch)	Using Floating carriage micrometer, Thread measuring wire, Setting Master, Thread Measuring Prism by comparison method	1 mm to 100 mm	3.0 µm
121	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major diameter)	Using Length measuring machine and Long Gauge block by comparison method	100 mm to 400 mm	3.5 µm

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122	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Minor diameter)	Using Length measuring machine, Thread measuring prism and Long Gauge block by comparison method	100 mm to 400 mm	3.5 µm
123	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Parameter-Effective & Minor Diameter)	Using Length measuring machine, Setting ring gauge, Thread measuring wire (1 to 3 mm with thread check plug) by comparison method	1 mm to 100 mm	1.8 µm
124	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Parameter-Effective & Minor Diameter)	Using UMM by comparison method	100 mm to 400 mm	2.8 µm
125	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Three Point Internal Micrometer L.C: 0.001mm	Using Plain Ring Gauge at step of 2mm	2 mm to 100 mm	6.5 µm

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126	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Ultrasonic Thickness Gauge	Using setting round master by Comparison Method	0 to 200 mm	10 µm
127	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Parallelism)	Using lever dial with transferred stand and surface plate by comparison method	Up to 250 mm	7.5 µm
128	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Squareness)	Using Square Master and Gauge block by comparison method	Up to 250 mm	7.5 µm
129	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block (Symmetricity)	Using Test mandrel and lever dial by comparison method	0 to 250 mm	7.5 µm
130	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet Gauge, Bridge cam, weld gauge (Angle)	Using Video measuring machine, Angle Gauge block by comparison method	0 ° to 90 °	26 arc sec

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131	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet Gauge, Bridge cam, weld gauge (Radius, Scale and depth)	Using Video measuring machine and Gauge block by comparison method	0 to 100 mm	7.8 µm
132	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker	Using Digital Lever Dial with transfer stand, Long Gauge Block and Surface plate by comparison method	0 to 1000 mm	4.2 µm
133	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker/Step Checker/Check Master/Depth Checker	Using Digital Lever Dial with transfer stand, Long Gauge Block, Surface plate by comparison method	0 to 630 mm	3.2 µm
134	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Measuring equipment / Contracer / Contourecord (Horizontal)	Using Gauge Block and Depth / Radius master by comparison method	Up to 120 mm	1.54 µm
135	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Measuring equipment / Contracer / Contourecord (Vertical Axis)	Using Gauge Block set by comparison method:	Up to 50 mm	3.2 µm

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136	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Measuring Machine (Parameter -Straightness)	Using Optical Flat by comparison method	Up to 120 mm	0.46 µm
137	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester L.C: 0.0001mm	Using Electronic Probe by comparison method	0 to 25 mm	0.8 µm
138	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial calibration Tester L.C 0.00001 mm	Using Laser Interferometer with comparison method	0 to 100 mm	(0.08 + 0.2L) µm (L in meter)
139	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Micrometer (L.C.:0.0001 mm)	Using Laser Interferometer with comparison method	0 to 150 mm	(0.08 + 0.3 L) µm (L in meter)
140	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Micrometer L.C: 0.0001mm (Overall Accuracy, Micrometer Head, dial, probe Error, Flatness, parallelism of Faces, dia. variation)	Using Cylindrical Setting Master, Mandrel, Gauge Block, Optical Flat by comparison method	100 mm to 200 mm	2 µm

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141	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Micrometer L.C: 0.0001mm (Parameter -Overall Accuracy, Micrometer Head, dial, probe error, Flatness, dia. variation, parallelism of faces)	Using Cylindrical Setting Master, Mandrel, Gauge Block, Optical Flat by comparison method	0 to 100 mm	1.2 µm
142	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Calibrator L.C 0.00001 mm	Using K grade Gauge block by comparison method	0 to 100 mm	0.03 µm
143	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Glass Graticule / Microscope Glass eye piece (L.C: 0.01 mm)	Using UMM by comparison method	0 to 10 mm	2 µm
144	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Glass Graticule L.C: 0.01 mm & coarser	Using UMM by comparison method	0 to 300 mm	2.2 µm
145	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Glass Scale / Glass Graticule (L.C: 0.01 mm & Coarser)	Using laser interferometer by comparison method	0 to 400 mm	(0.21 + 1.17 L) µm where L is in m
146	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Gauge - 1D (L.C: 0.0001 mm)	Using Laser Interferometer by Comparison Method:	0 to 1000 mm	(0.08+0.3 L) µm to (Where L in mm)

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147	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar / Long Gauge Block	Using Digital Lever Dial with transfer stand, Long Gauge Block, Surface plate by comparison method	Up to 600 mm	2.56 µm
148	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bar / Long Slip Block	Using Lever Dial Gauge and Laser interferometer by Comparison method	0 to 1000 mm	(0.22 + 2.1 L) µm (Where L in m)
149	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine (L.C: 0.000001 mm)	Using Laser Interferometer by Comparison Method	0 to 350 mm	(0.08+0.3 L) µm (Where L in m)
150	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine - Angular (L.C.: 0.01 arc sec)	Using Angular Scale by comparison method	0 ° to 360 °	5 arc sec
151	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine / Microscope (Parameter - Magnification)	Using Glass Scale, Eye piece graticule, Digital Vernier caliper by comparison method	10 X to 100 X	1.8 %
152	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ Video Measuring Machine (Parameter - Linear) L.C: 0.0001 mm	Using laser Interferometer by comparison method	0 to 1000 mm	(0.18+ 2.5 L) µm (L in mm)

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153	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ Video Measuring Machine/ Microscope (Parameter-linear) L.C: 0.0001 mm	Using Glass Scale by comparison method	0 to 300 mm	3.5 µm
154	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge (Carbide/ Ceramic)	Using Gauge Block Calibrator & K Grade Gauge Block comparison method	0.5 mm to 25 mm	0.12 µm
155	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge (Carbide/ Ceramic)	Using Gauge Block Calibrator & K Grade Gauge Blocks by comparison method	25 mm to 75 mm	0.14 µm
156	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge (Carbide/ Ceramic)	Using Gauge Block Calibrator & K Grade Gauge Blocks by comparison method.	75 mm to 100 mm	0.18 µm
157	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge (Steel)	Using Gauge Block Calibrator & K Grade Gauges Block by comparison method	0.5 mm to 25 mm	0.12 µm
158	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge (Steel)	Using Gauge Block Calibrator & K Grade Gauge Blocks by comparison method.	25 mm to 75	0.14
159	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge (Steel)	Using Gauge Block Calibrator & K Grade Gauge Blocks by comparison method	75 mm to 100 mm	0.20 µm

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160	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Slip Gauge Accessories (Flatness, height of base, width, Parallelism)	Using Electronic probe, Lever dial by comparison method	0 to 100 mm	1 µm
161	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Master (Parameter Ra)	Using Surface Roughness Tester by comparison method	Ra: Up to 6 µm	Ra: 6 %
162	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester (Parameter Ra) L.C: 0.000001mm	Using Surface Roughness Master and Roughness Depth Master by comparison method	Ra: Up to 6.0 µm Depth: Up To 9.0 µm	6 %
163	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Tape & Scale Measuring Machine L.C: 0.0001mm	Using Laser Interferometer by Comparison Method	0 to 5000 mm	(0.7+0.64 L) µm (Where L in m)
164	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	UMM, Metroscope (L.C.: 0.00001 mm)	Using Laser Interferometer by Comparison Method:	0 to 1000 mm	(0.08+0.3 L) µm
165	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transmitter, Pressure Transducers & Pressure Switch (Hydraulic)	Using Hydraulic pump & Digital Pressure Indicator, DMM as per DKD R-6-1	0 to 10 bar	0.2 bar

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166	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transmitter, Pressure Transducers & Pressure Switch (Hydraulic)	Using Hydraulic pump & Digital Pressure Indicator, DMM as per DKD R-6-1	0 to 350 bar	0.92 bar
167	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transmitter, Pressure Transducers & Pressure Switch (Hydraulic)	Using Hydraulic pump & Digital Pressure Indicator, DMM as per DKD R-6-1	0 to 700 bar	0.9 bar

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Site Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center Parameter - Coaxiality of Centres	Using Plain Mandrel with Lever Dial by comparison method	Up to 600 mm	2.5 µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench centre Parameter - Parallelism of Axis of Centres with Respect to Guideways.	Using Taper Mandrel with lever dial by comparison method.	0 to 600 mm	2.5 µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Height Gauge (Parameter - Linear) L.C: 0.0001mm	Using Long Gauge Block, surface plate by Comparison Method	0 to 1000 mm	3.0 µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Parallelism)	Using Lever dial Gauge and transfer stand surface plate by comparison method	Up to 3500 mm	1.7 x (SQRT L/125) µm (Lin mm)

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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge (Straightness)	Using Electronic Level Meter by comparison method	Up to 3500 mm	(1.7 x Sq. root L/125) µm (Where L is in mm)
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Parameter - Flatness)	Using Electronic Level Meter by comparison method	200 mm x 200 mm to 5000 mm x5000 mm	(0.9 x Sq. root (L+W)/125) µm Where L & W in mm
7	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	CNC Machine/ Machine Tool / Actuator (Positioning Accuracy)	Using Laser interferometer by Comparison method	0 to 10000 mm	(2.9 + L)µm (L is in m)
8	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Measuring equipment / Contracer / Contourecord (Horizontal)	Using Gauge Block and Depth / Radius master by comparison method	Up to 120 mm	1.54 µm
9	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Measuring equipment / Contracer / Contourecord (Vertical Axis)	Using Gauge Block set by comparison method:	Up to 50 mm	3.2 µm
10	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Contour Measuring Machine (Parameter -Straightness)	Using Optical Flat by comparison method	Up to 120 mm	0.46 µm

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11	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial calibration Tester L.C 0.00001 mm	Using Laser Interferometer with comparison method	0 to 100 mm	(0.08 + 0.2L) µm (L in meter)
12	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Micrometer L.C: 0.0001mm (Overall Accuracy, Micrometer Head, dial, probe Error, Flatness, parallelism of Faces, dia. variation)	Using Cylindrical Setting Master, Mandrel, Gauge Block, Optical Flat by comparison method	100 mm to 200 mm	2 µm
13	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Micrometer L.C: 0.0001mm (Parameter -Overall Accuracy, Micrometer Head, dial, probe error, Flatness, dia. variation, parallelism of faces)	Using Cylindrical Setting Master, Mandrel, Gauge Block, Optical Flat by comparison method	0 to 100 mm	1.2 µm
14	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Gauge Block Calibrator L.C 0.00001 mm	Using K grade Gauge block by comparison method	0 to 100 mm	0.03 µm
15	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Height Gauge - 1D (L.C: 0.0001 mm)	Using Laser Interferometer by Comparison Method:	0 to 1000 mm	(0.08+0.3 L) µm to (Where L in mm)

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16	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine (Vertical & Horizontal Axis) L.C: 0.00001mm	Using Laser Interferometer By Comparison Method	0 to 10000 mm	(0.08+0.3 L) µm (Where L in m)
17	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Measuring Machine (L.C: 0.000001 mm)	Using Laser Interferometer by Comparison Method	0 to 350 mm	(0.08+0.3 L) µm (Where L in m)
18	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine - Angular (L.C.: 0.01 arc sec)	Using Angular Scale by comparison method	0 ° to 360 °	5 arc sec
19	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine / Microscope (Parameter - Magnification)	Using Glass Scale, Eye piece graticule, Digital Vernier caliper by comparison method	10 X to 100 X	1.8 %
20	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ Video Measuring Machine (Parameter - Linear) L.C: 0.0001 mm	Using laser Interferometer by comparison method	0 to 1000 mm	(0.18+ 2.5 L) µm (L in mm)
21	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector/ Video Measuring Machine/ Microscope (Parameter-linear) L.C: 0.0001 mm	Using Glass Scale by comparison method	0 to 300 mm	3.5 µm

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22	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Tape & Scale Measuring Machine L.C: 0.0001mm	Using Laser Interferometer by Comparison Method	0 to 5000 mm	(0.7+0.64 L) µm (Where L in m)
23	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	UMM, Metroscope (L.C.: 0.00001 mm)	Using Laser Interferometer by Comparison Method:	0 to 1000 mm	(0.08+0.3 L) µm
24	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transmitter, Pressure Transducers & Pressure Switch (Hydraulic)	Using Hydraulic pump & Digital Pressure Indicator, DMM as per DKD R-6-1	0 to 10 bar	0.2 bar
25	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transmitter, Pressure Transducers & Pressure Switch (Hydraulic)	Using Hydraulic pump & Digital Pressure Indicator, DMM as per DKD R-6-1	0 to 350 bar	0.92 bar
26	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transmitter, Pressure Transducers & Pressure Switch (Hydraulic)	Using Hydraulic pump & Digital Pressure Indicator, DMM as per DKD R-6-1	0 to 700 bar	0.9 bar

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