National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

GERMAN CALIBRATION LAB LLP

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

PLOT NO. 10B, UMAKANT PANDIT, UDHYOG NAGAR 2, RAJKOT, GUJARAT, INDIA

in the field of

CALIBRATION

Certificate Number: CC-4038

Issue Date: 28/08/2025 **Valid Until:** 27/08/2029

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of thislaboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: GERMAN CALIBRATION LAB LLP

Signed for and on behalf of NABL

Anita Rani
Director

N. Venkateswaran
Chief Executive Officer

National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

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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-ACOUSTICS	Sound Level Meter @1 kHz	Using Sound Calibrator by Direct Method	94 dB & 114 dB	1.1 dB
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineer's Square - Squarness	Using Granite Square & Dial Indicator , Gauge Blocks , CMM by Comparison Method	Up to 600 mm	7.8 µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge Unit L.C.: 0.1 µm	Using Ring Gauges and Air Plug Gauge by Comparison Method	+/- 0.080 mm	1.5 µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector (L.C.: 1 minute)	Using Angle Gauge Set by Comparison Method	0° to 90°	1.5 minute of arc
5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bore Dial Gauge (LC.: 0.001 mm) Transmission Error	Using EDCT by Comparison Method	0 to 2 mm	1.77 µm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Electronic (L.C.: 0.01 mm & coarser)	Using Caliper Checker by Comparison Method	0 to 600 mm	10 µm

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7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Electronic (L.C.: 0.01 mm & Coarser)	Using Length Bar & Gauge Block Set by Comparison Method	0 to 1000 mm	12 µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Electronic (L.C.: 0.01 mm & coarser)	Using Length Bar & Gauge Block Set by Comparison Method	0 to 2000 mm	15 µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.0001 mm & coarser)	Using Thickness Foils by Comparison Method	10 µm to 3000 µm	1 µm
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set / Angle Protractor (L.C.: 1°)	Using Angle Gauge Set by Comparison Method	0° to 90°	34.7 minute of arc
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Base - Flatness	Using Electronic Probe and Surface Plate by comparison method	0 to 200 mm	5.18 µm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge - Vernier / Dial / Electronic (L.C.: 0.01 mm & coarser)	Using Gauge Block Set & Surface Plate by Comparison Method	0 to 600 mm	10 µm

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13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Masters - Groove Depth	Using Surface Roughness Tester by comparison method	0 to 0.01 mm	8.23 %
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C.: 0.001 mm)	Using Gauge Block & Long Gauge Block By Comparison Method	0 to 300 mm	10 µm
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Comprator (L.C.: 0.0001 mm)	Using Gauge Blocks (Grade-K) & Comparator Stand by Comparison Method	± 0.050 µm to	0.8 µm
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge (L.C.: 0.001 mm)	Using Gauge Block set by comparison method	25 mm to 200 mm	3.0 µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 0.001 mm)	Using Gauge Block Set by comparison method	0 to 50 mm	1.15 µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm & coarser)	Using Long Gauge block & surface plate by comparison method	300 mm to 500 mm	5 µm

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19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Gauge Block set by comparison method	0 to 100 mm	1.2 µm
20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm)	Using Long Gauge Block set with Stand by comparison method	100 mm to 300 mm	4.66 µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.01 mm & coarser)	Using Gauge Block Set & Length Bar Set by Comparison Method	500 mm to 1000 mm	14 µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Electronic Comparator by Comparison Method	0.001 mm to 3 mm	2.5 µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Form Gauge / Lead Gauge (Radius , Distance , Depth , Pitch)	Using CMM By Comparison Method	Up to 300 mm	6 µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Form Gauge / Lead Gauge Angle	Using by CMM by Comparison Method	0° to 90°	5 minute

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25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Granite Square - Squareness	Using CMM By Comparison Method	0 to 600 mm	5 µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Electronic (L.C.: 0.01 mm & coarser)	Using Length Bar & Gauge Block Set, Caliper checker , Surface Plate by Comparison Method	0 to 1000 mm	13 µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Electronic (L.C.: 0.01 mm & coarser)	Using Caliper Checker & Surface Plate by Comparison Method	0 to 600 mm	11 µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inspection fixture / Relation Gauge / CD / PCD Gauge (Parameter- Length, Height, Depth, CD, Concentricity)	Using CMM By Comparison Method	1 mm to 300 mm	5 µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Inspection fixture / Relation Gauge / CD / PCD Gauge (Parameter- Length, Height, Depth, CD, Concentricity)	Using CMM By Comparison Method	300 mm to 600 mm	7 µm
30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal / Inside Caliper L.C.: 0.001 mm	Using ULM by Comparison Method	0 to 300 mm	3.5 µm

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31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (L.C.: 0.001 mm)	Using Gauge Block Set, Long Gauge Block & Comparator Stand by Comparison Method	5 mm to 300 mm	5 µm
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (Micrometer Head, Extension Rod) L.C: 0.001mm	Using ULM by Comparison Method	0 to 100 mm	2.3 µm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Dial Gauge (L.C.: 0.001 mm)	Using EDCT by comparison method	0 to 0.2 mm	2.0 µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using Electronic Probe by Comparison Method	0.1 mm to 20 mm	1.05 µm
35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Long Gauge Block set and Electronic comparator stand by comparison method	100 mm to 300 mm	5.23 µm
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer setting standard	Using Gauge Block set and Electronic comparator stand by comparison method	25 mm to 100 mm	2.55 µm

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37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Electronic Comparator, Slip Gauge & Length Bar by Comparison Method	300 mm to 500 mm	5.46 µm
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Electronic Comparator, Slip Gauge & Length Bar by Comparison Method	500 mm to 775 mm	13.5 µm
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Parallel Thread Plug Gauge / Wear Check Plug Gauge (Effective & Major Diameter)	Using ULM and TMW by comparison method	1 mm to 100 mm	2.0 µm
40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Parallel Thread Plug Gauge / Wear Check Plug Gauge (Effective & Major Diameter)	Using ULM and TMW by comparison method	100 mm to 300 mm	2.8 µm
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Parallel Thread Plug Gauge / Wear Check Plug Gauge (Effective & Major Diameter)	Using CMM By Comparison Method	300 mm to 500 mm	5 µm
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C.: 0.01 mm)	Using Gauge Block Set By Comparison Method	0 to 100 mm	7.9 µm

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43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge - Diameter	Using Electronic gauge & Gauge Block set by comparison method	100 mm to 300 mm	2.5 µm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge - Diameter	Using Electronic Gauge & Gauge Block Set By Comp. Method	300 to 500 mm	5 µm
45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge / Width /Depth / Flush Pin / Height / Diameter / Key Way Gauge	Using Electronic gauge & Gauge Block set by comparison method	0.1 mm to 100 mm	1.12 µm
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using ULM & Setting Ring Gauge By Comparison Method	1 mm to 100 mm	2.1 µm
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using ULM & Setting Ring Gauge By Comparision Method	100 mm to 300 mm	2.5 µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Snap Gauge	Using Gauge Block set by comparison method	1 mm to 100 mm	2.0 µm

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49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Snap Gauge	Using Gauge Block set & Long gauge Block by comparison method	100 mm to 300 mm	3.0 µm
50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Snap Gauge	Using Gauge Block Set, Long Gauge Block & Comparator Stand by Comparison Method	300 mm to 500 mm	4.89 µm
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Snap Gauge	Using Gauge Block Set, Long Gauge Block & Comparator Stand by Comparison Method	500 mm to 800 mm	6 µm
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Plug gauge - Angle	Using ULM, Gauge Block Set by Comparison Method	Up to 45 °	4 minutes of arc
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Plug gauge - Diameter	Using ULM, Gauge Block Set by Comparison Method	2 mm to 200 mm	3 µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Ring Gauge - Angle	Using ULM, Gauge block set with comparison set by comparison method	Up to 45 °	4 minutes of arc

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55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Ring Gauge - Diameter	Using ULM, Gauge block set with comparison set by comparison method	2 mm to 100 mm	3 µm
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial - Digital / Analogue (L.C.: 0.5 µm)	Using EDCT by Comparison Method	0 to 25 mm	1.1 µm
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial / LVDT Probe L.C.: 0.0001 mm	Using ULM by Comparison Method	0 to 50 mm	2.3 µm
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Dial / LVDT Probe L.C.: 0.0001 mm	Using ULM by Comparison Method	0 to 25 mm	1.77 µm
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Plug gauge-Major Diameter / Diameter Over Pin	Using ULM & Pin by comparison method	1 mm to 100 mm	3.5 µm
60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Ring gauge-Minor Diameter / Diameter Inner Pin	Using ULM & Pin Gauge by comparison method	3 mm to 100 mm	3.5 µm

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61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Square Master / Square Cylinder - Squareness	Using CMM By Comparison Method	0 to 600 mm	7.8 µm
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge-Flatness	Using Gauge Block Set and Surface Plate by Comparison Method	0 to 600 mm	6 µm
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Granite / Cast Iron	Using Electronic Level By Comparision Method	Up to 2000 mm x 2000 mm	2.1 sqrt (L+ W / 125) µm, where L and W are in mm.
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge - (Effective Pitch dia)	Using ULM & Pin Gauge by comparison method	100 mm to 300	4.0 µm
65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge - (Effective Pitch Dia)	Using ULM & Pin Gauge by comparison method	6 mm to 100 mm	3 µm
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge - (Effective Pitch dia)	Using ULM & Setting Ring Gauge by comparison method	100 mm to 200 mm	6.1 µm

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67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge - (Effective Pitch dia)	Using ULM & Setting Ring Gauge by comparison method	6 mm to 100 mm	3.0 µm
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Template / Form gauge (Parameter - Length, Radius, depth)	Using CMM By Comparison Method	0 to 200 mm	3.5 µm
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Template / Form gauge/ Inspection fixture (Parameter - Angle)	Using CMM By Comparison Method	0 ° to 90 °	18 arc sec
70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Foil	Using Electronic Comparator by Comparison Method	0.01 mm to 2 mm	2.47 µm
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire	Using ULM by comparison method	0.1 mm to 20 mm	1.5 µm
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Micrometer (L.C.: 0.001 mm)	Using Gauge Block Set by Comparison Method	0 to 300 mm	4 µm

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73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge - Effective Pitch / Minor Diameter	Using CMM By Comparison Method	300 mm to 500 mm	5 µm
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge - Effective Pitch / Minor Diameter	Using ULM and Ring by comparison method	3 mm to 100 mm	1.5 µm
75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge - Effective Pitch/ Minor Diameter	Using ULM and Ring by comparison method	100 mm to 300 mm	4.0 µm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block - Parallelism	Using by CMM Comparison Method	0 to 300 mm	5 µm
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V Block - Squareness	Using CMM By Comparison Method	Up to 300 mm	5 µm
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V block - Synnetricity	Using CMM By Comparison Method	0 to 300 mm	5 µm

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79	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Caliper Checker	Using Long Gauge Block Set / Electronic Gauge by Comparison method	0 to 670 mm	6.4 µm
80	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Dial Calibration Tester L.C: 0.0001 mm	Using Electronic Probe by Comparison method	0 to 25 mm	1.5 µm
81	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge (L.C.: 0.0001 mm & coarser) - Linear Error	Using Long Gauge Block set & Surface plate by comparison method	0 to 600 mm	5.4 µm
82	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge (L.C.: 0.0001 mm & coarser) - Squareness	Using Squareness master & Surface plating by comparison method	0 to 600 mm	6.7 µm
83	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine (L.C.: 0.0001 mm & coarser) Magnification	Using Measuring Pin & Digital Caliper by Comparison Method	10 X to 100 X	0.5 %
84	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine - (L.C.: 0.0001 mm & coarser) Linear	Using Glass Scale by comparison method	0 to 300 mm	3.4 µm
85	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine - Linear (L.C.: 1 Sec & coarser) Angular	Using Angular Scale by Comparison Method	0 ° to 360 °	2 minute
86	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Reference Sphere (Diameter measurement)	Using ULM by Comparison Method	Up to 50 mm	0.7 µm

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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)(±)
87	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Master - Ra/ Rz / R Max	Using Surface Roughness Tester by comparison method	Ra 350 µm	10.3 %
88	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester L.C: 0.000001 mm	Using Surface Roughness Master by Comparison Method	Up to 6 µm	10.5 %
89	MECHANICAL-PRESSURE INDICATING DEVICES	Dial / Digital Gauge, Pressure Transmitter with Indicator, Pressure Switch - Pneumatic	Using Digital Pressure Gauge & Pneumatic Pressure Comparator by Comparison Method as per DKD R-6-1	0 to 25 bar	0.052 bar
90	MECHANICAL-PRESSURE INDICATING DEVICES	Dial / Digital Pressure Gauge, Pressure Transmitter with Indicator, Pressure Switch - Hydraulic	Using Digital Pressure Gauge & Pressure Comparator by Comparison Method as per DKD R-6-1	0 to 700 bar	0.8 bar
91	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge, Vacuum Transmitter with Indicator, Vacuum Switch	Using Digital Vacuum Gauge & Vacuum Comparator by Comparison Method as per DKD R-6-1	(-) 0.85 bar to 0	0.011 bar

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Site Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Air Gauge Unit L.C.: 0.1 µm	Using Ring Gauges and Air Plug Gauge by Comparison Method	+/- 0.080 mm	1.5 µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Center (Parallelism of axis of centers)	Using Taper Mandrel & Dial Indicator by comparison method	0 to 300 mm	7.2 µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bench Centre (Coaxially of centre)	Using Straight Mandrel & Dial Indicator by Comparison Method	0 to 300 mm	7.1 µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Electronic (L.C.: 0.01 mm & coarser)	Using Length Bar & Gauge Block Set, Caliper checker , Surface Plate by Comparison Method	0 to 1000 mm	13 µm
5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Electronic (L.C.: 0.01 mm & coarser)	Using Caliper Checker & Surface Plate by Comparison Method	0 to 600 mm	11 µm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Straight Edge-Flatness	Using Gauge Block Set and Surface Plate by Comparison Method	0 to 600 mm	6 µm

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7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate - Granite / Cast Iron	Using Electronic Level By Comparision Method	Up to 2000 mm x 2000 mm	2.1 sqrt (L+ W / 125) µm, where L and W are in mm.
8	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge (L.C.: 0.0001 mm & coarser) - Linear Error	Using Long Gauge Block set & Surface plate by comparison method	0 to 600 mm	5.4 µm
9	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge (L.C.: 0.0001 mm & coarser) - Squareness	Using Squareness master & Surface plating by comparison method	0 to 600 mm	6.7 µm
10	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine (L.C.: 0.0001 mm & coarser) Magnification	Using Measuring Pin & Digital Caliper by Comparison Method	10 X to 100 X	0.5 %
11	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine - (L.C.: 0.0001 mm & coarser) Linear	Using Glass Scale by comparison method	0 to 300 mm	3.4 µm
12	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector / Video Measuring Machine - Linear (L.C.: 1 Sec & coarser) Angular	Using Angular Scale by Comparison Method	0 ° to 360 °	2 minute
13	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Surface Roughness Tester L.C: 0.000001 mm	Using Surface Roughness Master by Comparison Method	Up to 6 µm	10.5 %

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14	MECHANICAL-PRESSURE INDICATING DEVICES	Dial / Digital Gauge, Pressure Transmitter with Indicator, Pressure Switch - Pneumatic	Using Digital Pressure Gauge & Pneumatic Pressure Comparator by Comparison Method as per DKD R-6-1	0 to 25 bar	0.052 bar
15	MECHANICAL-PRESSURE INDICATING DEVICES	Dial / Digital Pressure Gauge, Pressure Transmitter with Indicator, Pressure Switch - Hydraulic	Using Digital Pressure Gauge & Pressure Comparator by Comparison Method as per DKD R-6-1	0 to 700 bar	0.8 bar
16	MECHANICAL-PRESSURE INDICATING DEVICES	Vacuum Gauge, Vacuum Transmitter with Indicator, Vacuum Switch	Using Digital Vacuum Gauge & Vacuum Comparator by Comparison Method as per DKD R-6-1	(-) 0.85 bar to 0	0.011 bar

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