National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

INSPATECH CALIBRATION 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

J/PAP-158, J-BLOCK, PUNE, MAHARASHTRA, INDIA

in the field of

CALIBRATION

Certificate Number: CC-3624

Issue Date: 06/07/2023 **Valid Until:** 05/07/2025

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 this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : INSPATECH Calibration LLP

Signed for and on behalf of NABL

N. Venkateswaran
Chief Executive Officer

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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.)	Angle Gauge / Angle Templet	Using VMM by Comparison Method	0 to 90 degree	2.5minute
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Bevel Protector / Inclinometer (L.C.: 1 minute)	Using Angle Gauge Block Set by Comparison Method	0 to 360 degree	1.1minute
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Electronic (L.C.: 0.01 mm & coarser)	Using Long Gauge Blocks by Comparison Method	0 to 1000 mm	14µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Caliper - Vernier / Dial / Electronic (L.C.: 0.01 mm & coarser)	Using Long Gauge Block & Gauge Block Set by Comparison Method	0 to 2000 mm	22µm

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5	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	12µm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Coating Thickness Gauge (L.C.: 0.0001 mm & coarser)	Using Thickness Foils by Comparison Method	0 to 2 mm	1.4µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Combination Set / Angle Protractor (L.C.: 1 degree)	Using Angle Gauge Set & Comparison Method	0 to 180 degree	37minute
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness of Base)	Using Optical Flat by Comparison Method	Up to 100 mm	1µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Comparator Stand (Flatness of Base)	Using Electronic Probe by Comparison Method	Up to 300 mm x 300 mm	2.2µm

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10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master (Concentricity)	Using Electronic Comparator & FCDM by Comparison Method	3 mm to 100 mm	1.4µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master (Diameter)	Using Electronic Comparator by Comparison Method	3 mm to 100 mm	2µm
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 300 mm	9.8µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Gauge - Vernier / Dial / Electronic (L.C.: 0.01 mm & coarser)	Using Long Gauge Block Set, Caliper Checker & Surface Plate by Comparison Method	0 to 600 mm	15µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer (L.C.: 0.001 mm & coarser)	Using Gauge Block Set & Surface Plate by Comparison Method	0 to 300 mm	8µm

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15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Bore Gauge (for transmission mechanism) L.C. 0.001 mm & Coarser	Dial Calibration Tester, Master Plunger type Dial Gauge by Comparison method	0 to 2 mm	2.0um
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Comparator (L.C.: 0.0005 mm & coarser)	Using Gauge Blocks & Comparator Stand by Comparison Method	Up to ± 0.050 mm	0.5µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Snap Gauge - Parallelism (L.C.: 0.001 mm & coarser)	Using Gauge Blocks by Comparison Method	0 to 250 mm	3.2µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Dial Thickness Gauge (L.C.: 0.001 mm & coarser)	Using Gauge Block Set by Comparison Method	0 to 25 mm	1µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Electronic Probe with Comparator Stand (L.C.: 0.0001 mm)	Using Gauge Block Set by Comparison Method	0 to 25 mm	0.4µm

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20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Engineers Square - Squareness	Using Granite Squareness by Comparison Method	0 to 600 mm	10.5µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm & coarser)	Using Micrometer Check Set by Comparison Method	0 to 100 mm	2µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm & coarser)	Using Micrometer Check Set & Long Gauge Block Set by Comparison Method	100 mm to 300 mm	4µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm & coarser)	Using Micrometer Check Set & Long Gauge Block by Comparison Method	300 mm to 500 mm	7µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C.: 0.001 mm & coarser)	Using Micrometer Check Set & Long Gauge Set by Comparison Method	500 mm to 1000 mm	11.5µm

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25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Feeler Gauge	Using Electronic Comparator by Comparison Method	0.01 mm to 2 mm	0.7µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Glass Angle Graticule (L.C.: 1 degree)	Using VMM by Comparison Method	0 to 360 degree	17second
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge - Vernier / Dial / Electronic (L.C.: 0.01 mm & coarser)	Using Long Gauge Blocks & Surface Plate by Comparison Method	0 to 1000 mm	15µm
28	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	13µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer (Extension Rods)	Gauge Block Set , Long Gauge Block, Comparator stand by Comparison method	13 mm to 1000 mm	8µm

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30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer - Micrometer Head (L.C.: 0.001 mm & ccoarser)	Using Gauge Block Set, Long Gauge Block & Comparator Stand by Comparison Method	50 mm to 100 mm	3.5µm
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Internal Micrometer - Micrometer Head (L.C.: 0.001 mm & coarser)	Using Gauge Block Set & Long Gauge Block & Comparator Stand by Comparison Method	5 mm to 300 mm	5.5µm
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.001 mm & coarser)	Using Dial Calibration Tester by Comparison Method	0 to 0.14 mm	1.8µm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.002 mm & coarser)	Using Dial Calibration Tester by Comparison Method	0 to 0.2 mm	1.8µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauge (L.C.: 0.01 mm & coarser)	Using Dial Calibration Tester by Comparison Method	0 to 1.6 mm	3.8µm

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35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pins	Using Electronic Comparator & Gauge Block Set by Comparison Method	0.1 mm to 20 mm	0.6µm
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Scale (L.C.: 0.5 mm & coarser)	Using Tape & Scale Calibrator by Comparison Method	0 to 2000 mm	116 x sqrt (L)µm (L in meter)
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Tape / Pie Tape (L.C.: 1 mm & coarser)	Using Tape & Scale Calibrator by Comparision Method	0 to 50 meter	116 x sqrt (L)µm (L in meter)
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Electronic Comparator & Gauge Block Set by Comparison Method	100 mm to 300 mm	2.8µm
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Electronic Comparator & Long Gauge Block Set by Comparison Method	300 mm to 500 mm	4.5µm

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40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Electronic Comparator & Long Slip Gauge Set by Comparison Method	500 mm to 1000 mm	8µm
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Micrometer Setting Standard	Using Electronic Comparator & Slip Gauge by Comparison Method	Up to 100 mm	1.5µm
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Parallel Thread Plug Gauge, Wear Check Plug Gauge - Diameter (Effective & Major)	Using Universal Length Measuring Machine by Comparison Method	100 mm to 200 mm	2.3µm
43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Parallel Thread Plug Gauge, Wear Check Plug Gauge - Diameter (Effective & Major)	Using Electronic Floating Carriage Diameter Measuring Machine by Comparison Method	2 mm to 100 mm	3.6µm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Parallel Thread Plug Gauge, Wear Check Plug Gauge - Diameter (Effective & Major)	Using Universal Length Measuring Machine by Comparison Method	200 mm to 300 mm	2.8µm

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45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pistol Caliper (L.C.: 0.01 mm & Coarser)	Using Gauge Block Set by Comparison Method	0 to 100 mm	10µm
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using ULM & Master Ring Gauge by Comparison Method	1 mm to 100 mm	1.5µm
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using ULM & Master Ring Gauge by Comparison Method	100 mm to 200 mm	2µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using ULM & Master Ring Gauge by Comparison Method	200 mm to 300 mm	2.8µm
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plug Gauge	Using Gauge Block Set & Electronic Comparator by Comparison Method	1 mm to 100 mm	1.5µm

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50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plug Gauge	Using Gauge Block Set & Electronic Comparator by Comparison Method	100 mm to 250 mm	2.8µm
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plug Gauge	Using Long Gauge Block & Electronic Comparator by Comparison Method	250 mm to 500 mm	4µm
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge (L.C.: 0.001 mm & coarser)	Using Dial Calibration Tester by Comparison Method	0 to 25 mm	2µm
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauge (L.C.: 0.001 mm & coarser)	Using Dial Calibration Tester by Comparison Method	0 to 50 mm	2.5µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Radius Gauge	Using VMM by Comparison Method	0.4 mm to 40 mm	6.8µm

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55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Gauge Block Set by Comparison Method	100 mm to 250 mm	2.8µm
56	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Gauge Block Set By Comparison Method	2 mm to 100 mm	1.4µm
57	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Snap Gauge	Using Gauge Block Set & Long Gauge Block by Comparison Method	250 mm to 500 mm	3.8µm
58	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Plug Gauge	Using Electronic Floating Carriage Diameter Measuring Machine & Measuring Pin by Comparison Method	5 mm to 100 mm	3.7µm
59	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Spline Ring Gauge	Using Gauge Block Set & Measuring Pin by Comparison Method	10 mm to 100 mm	1.8µm

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60	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Flatness)	Using Precision Spirit Level (0.01 mm/m) by Comparison Method	Up to 3000 mm x 3000 mm	1.49 x sqrt {(L + W) / 125)}µm (L & W in mm)
61	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Roughness Master	Using Surface Roughness Tester by Comparison Method	Ra: up to 6 µm	7%
62	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Scale (L.C.: 0.01 mm)	Using VMM by Comparison Method	1 mm to 15 mm	6.8µm
63	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge	Using Universal Length Measuring Machine by Comparison Method	100 mm to 200 mm	3.5µm
64	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge	Using Universal Length Measuring Machine by Comparison Method	200 mm to 300 mm	4.2µm

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65	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge	Using Electronic Floating Carriage Diameter Measuring Machine by Comparison Method	3 mm to 100 mm	5.1µm
66	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Seives (Aperture Size)	Using VMM by Comparison Method	0.032 mm to 3.35 mm	6.8µm
67	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Test Seives (Aperture Size)	Using Digital Caliper by Comparison Method	3.35 mm to 125 mm	40µm
68	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thickness Foils	Using Electronic Comparator by Comparison Method	0.005 mm to 2 mm	0.7µm
69	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Angular	Using VMM by Comparison Method	55 Deg & 60 Deg	2.5minute

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70	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge - Linear	Using VMM by Comparison Method	0.17 mm to 6.35 mm	6.8µm
71	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge, Wear Check Ring Gauge (Effective Diameter)	Using ULM & Master Ring Gauge by Comparison Method	100 mm to 200 mm	2.1µm
72	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge, Wear Check Ring Gauge (Effective Diameter)	Using ULM & Master Ring Gauge by Comparison Method	200 mm to 300 mm	3.2µm
73	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge, Wear Check Ring Gauge (Effective Diameter)	Using ULM & Master Ring Gauge by Comparison Method	3 mm to 100 mm	1.5µm
74	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Parallelism)	Using Straight Mandrel & Electronic Comparator by Comparison Method	Up to 200 mm	8µm

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75	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Squareness)	Using Granite L Square & Gauge Block Set by Comparison Method	Up to 200 mm	11µm
76	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	V-Block (Symmetricity)	Using Straight Mandrel & Electronic Comparator by Comparison Method	Up to 200 mm	8µm
77	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet, CAM Gauge, Industrial Gauge, Templet (Angle)	Using VMM by Comparison Method	0 to 90 degree	7.1minute
78	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Weld Fillet, CAM Gauge, Industrial Gauge, Templet (Length & Radius)	Using VMM by Comparison Method	0 to 100 mm	6.8µm
79	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Articulated Arm CMM - Articulated Location Error (Ldia.)	Using Test Sphere as per ISO 10360-12 by Comparison Method	Up to 30 mm	4.2µm

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80	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Articulated Arm CMM - Length Measurement (Error Unidirectional / Unidirectional - Euni / EBi)	Using Long Slip Gauge as per ISO 10360-12 by Direct Method	0 to 2.5 meter	3 + 3.8Lµm (L in meter)
81	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Articulated Arm CMM - Probing Form Error (Pform)	Using Test Sphere as per ISO 10360-12 by Comparison Method	Up to 30 mm	4µm
82	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Articulated Arm CMM - Probing Size Error (Psize)	Using Test Sphere as per ISO 10360-12 by Comparison Method	Up to 30 mm	1µm
83	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Co-ordinate Measuring Machine (L.C.: 0.0001 mm & coarser)	Using Long Gauge Block Set & Reference Sphere by Comparison Method	Up to 1100 mm	0.54 + L/210µm (L in mm)
84	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Co-ordinate Measuring Machine (L.C.: 0.0001 mm & coarser)	Using Combination of Long Gauge Block Set & Reference Sphere by Comparison Method	Up to 2000 mm	0.54 + L/240µm (L in mm)
85	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Linear (L.C.: 0.0001 mm & coarser)	Using Long Gauge Block Set by Comparison Method	0 to 1000 mm	8.3µm

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86	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Squareness (L.C.: 0.0001 mm & coarser)	Using Granite L Square by Comparison Method	0 to 600 mm	10.7µm
87	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Microscope - Magnification	Using Measuring Pin, Digital Caliper & Glass Scale by Comparison Method	10 X to 1000 X	0.1%
88	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Video Measuring Machine (L.C.: 1 second & coarser)	Using Angular Scale by Comparison Method	0 to 360 degree	20second
89	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Video Measuring Machine, Microscope (L.C.: 0.0001 mm & coarser)	Using Glass Scale by Comparison Method	0 to 200 mm	2.2µm
90	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Video Measuring Machine, Microscope (L.C.: 0.0001 mm & coarser)	Using Long Gauge Block Set by Comparison Method	200 mm to 300 mm	3.1µm

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Site Facility					
1	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Surface Plate (Flatness)	Using Precision Spirit Level (0.01 mm/m) by Comparison Method	Up to 3000 mm x 3000 mm	1.49 x sqrt {(L + W) / 125)}µm (L & W in mm)
2	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Articulated Arm CMM - Articulated Location Error (Ldia.)	Using Test Sphere as per ISO 10360-12 by Comparison Method	Up to 30 mm	4.2µm
3	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Articulated Arm CMM - Length Measurement (Error Unidirectional / Unidirectional - Euni / EBi)	Using Long Slip Gauge as per ISO 10360-12 by Direct Method	0 to 2.5 meter	3 + 3.8Lµm (L in meter)
4	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Articulated Arm CMM - Probing Form Error (Pform)	Using Test Sphere as per ISO 10360-12 by Comparison Method	Up to 30 mm	4µm
5	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Articulated Arm CMM - Probing Size Error (Psize)	Using Test Sphere as per ISO 10360-12 by Comparison Method	Up to 30 mm	1µm
6	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Co-ordinate Measuring Machine (L.C.: 0.0001 mm & coarser)	Using Long Gauge Block Set & Reference Sphere by Comparison Method	Up to 1100 mm	0.54 + L/210µm (L in mm)

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7	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Co-ordinate Measuring Machine (L.C.: 0.0001 mm & coarser)	Using Combination of Long Gauge Block Set & Reference Sphere by Comparison Method	Up to 2000 mm	0.54 + L/240µm (L in mm)
8	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Linear (L.C.: 0.0001 mm & coarser)	Using Long Gauge Block Set by Comparison Method	0 to 1000 mm	8.3µm
9	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Electronic Height Gauge - Squareness (L.C.: 0.0001 mm & coarser)	Using Granite L Square by Comparison Method	0 to 600 mm	10.7µm
10	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Microscope - Magnification	Using Measuring Pin, Digital Caliper & Glass Scale by Comparison Method	10 X to 1000 X	0.1%
11	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Video Measuring Machine (L.C.: 1 second & coarser)	Using Angular Scale by Comparison Method	0 to 360 degree	20second
12	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Video Measuring Machine, Microscope (L.C.: 0.0001 mm & coarser)	Using Glass Scale by Comparison Method	0 to 200 mm	2.2µm

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13	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Profile Projector, Video Measuring Machine, Microscope (L.C.: 0.0001 mm & coarser)	Using Long Gauge Block Set by Comparison Method	200 mm to 300 mm	3.1µm

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