National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SIZE CONTROL GAUGES & TOOLS PRIVATE LIMITED, D-5, MIDC INDUSTRIAL AREA, AHMEDNAGAR, MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 08/10/2024 to 07/10/2028 **Last Amended on** -

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.)	Caliper (Vernier/Dial/Digital) (L.C: 10 µm)	Using Gauge Block by Comparison Method	0 to 150 mm	13 µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth (Standoff & Height)	Using CMM By Comparison Method	0 to 25 mm	2.6 µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer (L.C: 1 µm)	Using Gauge Block by Comparison Method	0 to 25 mm	1.5 µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using ULM by Comparison Method	0.1 mm to 20 mm	1.3 µm
5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using ULM by Comparison Method	>20 mm to 100 µm	1.4 µm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using ULM by Comparison Method	100 mm to 200 mm	1.8 µm

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7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using ULM by Comparison Method	2 mm to 20 mm	1.3 µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using ULM & Master Ring Gauge by Comparison Method	>100 mm to 200 mm	2.8 µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using ULM & Thread Measuring Wire by Comparison Method	200 mm to 300 mm	3.2 µm
10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using ULM & Master Ring Gauge by Comparison Method	300 mm to 400 mm	3.6 µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using ULM & Master Ring Gauge by Comparison Method	4 mm to 100 mm	2.5 µm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Snap Gauge	Using Gauge Block by Comparison Method	4 mm to 125 mm	1.8 µm

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13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Plug Gauge (Diameter at small end)	Using CMM By Comparison Method	200 mm to 300 mm	4.0 µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper plug Gauge (Diameter at small end)	Using CMM By Comparison Method	6 mm to 100 mm	2.6 µm
15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Plug Gauge (Taper Angle)	Using CMM By Comparison Method	6 mm to 400 mm	17 s of arc
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Ring Gauge (Diameter at large end)	Using CMM By Comparison Method	100 mm to 200 mm	3.3 µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Ring Gauge (Diameter at Large End)	Using CMM By Comparison Method	200 mm to 300 mm	4.0 µm
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Ring Gauge (Diameter at Large End)	Using CMM By Comparison Method	300 mm to 400 mm	4.7 µm

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19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Ring Gauge (Diameter at large end)	Using CMM By Comparison Method	6 mm to 100 mm	2.6 µm
20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Ring Gauge (Taper Angle)	Using CMM By Comparison Method	6 mm to 400 mm	17 s of arc
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PlainTaper Plug Gauge (Diameter at Small end)	Using CMM By Comparison Method	300 mm to 400 mm	4.7 µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	PlainTaper Plug Gauge (Diameterat small end)	Using CMM By Comparison Method	100 mm to 200 mm	3.3 µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective Dia. & Major Dia.)	Using CMM By Comparison Method	>30 mm to 100 mm	2.6 µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective Dia. & Major Dia.)	Using CMM By Comparison Method	100 mm to 200 mm	3.3 µm

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25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective Dia. & Major Dia.)	Using FCDM, Cylindrical Setting Master & Thread Measuring Wire by Comparison	2 mm to 30 mm	2.2 µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective Dia. & Major Dia.)	Using CMM By Comparison Method	200 mm to 300 mm	4.0 µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Effective Dia. & Major Dia.)	Using CMM By Comparison Method	300 mm to 400 mm	4.7 µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Taper Angle)	Using CMM By Comparison Method	>30 mm to 350 mm	17 "
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauges (Taper Angle)	Using FCDM Cylindrical Setting Master & Thread Measuring Wire by Comparison Method	2 mm to 30 mm	17 "
30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Effective Dia.)	Using CMM By Comparison Method	100 mm to 200 mm	3.3 µm

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31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Effective Dia.)	Using CMM By Comparison Method	200 mm to 300 mm	4.0 µm
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Effective Dia.)	Using CMM By Comparison Method	25 mm to 100 mm	2.6 µm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Effective Dia.)	Using CMM By Comparison Method	300 mm to 400 mm	4.7 µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Taper Angle)	Using CMM By Comparison Method	25 mm to 350 mm	17 "
35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Height	Using Contourecord Machine by Direct Method	0 to 10 mm	3.8 µm
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire	Using ULM by Comparison Method	0.17 mm to 6.35 mm	1.3 µm

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37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Flank Angle)	Using Contourecord Machine by Direct Method	0° to 60°	2.0 '
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Pitch)	Using Contourecord Machine by Direct Method	0 to 15 mm	3.6 µm
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective Dia.)	Using ULM & Thread Measuring Wire by Comparison Method	100 mm to 200 mm	2.2 µm
40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective Dia.)	Using ULM & Thread Measuring Wire by Comparison Method	2 mm to 100 mm	1.9 µm
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective Dia.)	Using ULM & Thread Measuring Wire by Comparison Method	200 mm to 300 mm	2.6 µm
42	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Effective Dia.)	Using ULM & Thread Measuring Wire by Comparison Method	300 mm to 400 mm	3.2 µm

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43	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major Dia)	Using ULM, & Thread Measuring Wire by Comparison Method	300 mm to 400 mm	2.5 µm
44	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major Dia.)	Using ULM & Thread Measuring Wire by Comparison Method	100 mm to 200 mm	1.7 µm
45	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major Dia.)	Using ULM & Thread Measuring Wire by Comparison Method	2 mm to 100 mm	1.6 µm
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major Dia.)	Using ULM & Thread Measuring Wire by Comparison Method	200 mm to 300 mm	2.1 µm
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Dia)	Using ULM & Master Ring Gauge by Comparison Method	100 mm to 200 mm	2.8 µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Dia)	Using ULM & Master Ring Gauge by Comparison Method	300 mm to 400 mm	3.6 µm

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49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Dia)	Using ULM & Master Ring Gauge BY Comparison Method	4 mm to 100 mm	2.5 µm
50	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Dia.)	Using ULM & Master Ring Gauge by Comparison Method	200 mm to 300 mm	3.1 µm
51	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Minor Dia)	Using ULM & Master Ring Gauge by Comparison Method	200 mm to 300 mm	3.2 µm
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Minor Dia)	Using ULM & Master Ring Gauge by Comparison Method	300 mm to 400 mm	3.6 µm
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Minor Dia)	Using ULM & Master Ring Gauge by Comparison Method	4 mm to 100 mm	2.5 µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Minor Dia.)	Using ULM & Master Ring Gauge BY Comparison Method	>100 mm to 200 mm	2.8 µm

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55	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Diameter Measuring Machine Micrometer Head (L.C: 0.2 µm)	Using Gauge Block by Comparison Method	0 to 25 mm	0.56 µm

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