



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

SIZE CONTROL GAUGES AND TOOLS PVT LTD, D-5 MIDC, AHMEDNAGAR,
MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-2608

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Validity

08/10/2022 to 07/10/2024

Last Amended on

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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.)	Caliper (Vernier/Dial/Digital) L.C. : 10 µm	Using Gauge Block by Comparison Method	0 to 150 mm	13µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master (Diameter)	USING ULM BY COMPARISON METHOD	100 mm to 200 mm	1.70µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master (diameter)	Using ULM by Comparison Method	2 mm to 20 mm	1.25µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Cylindrical Setting Master (Diameter)	Using ULM by Comparison Method	20 mm to 100 mm	1.51µm



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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth (Standoff & Height)	Using CMM by Comparison Method	up to 25 mm	3.5µm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C. : 1 µm	Using Gauge Block by Comparison Method	0 to 25 mm	1.5µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Flank Angle of Thread for pitch	Using Profile Projector by comparison method	up to 60 °	4.0minute
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Measuring Pin	Using ULM by Comparison Method	0.1 mm to 20 mm	1.3µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Pitch	Using CMM By comparison method	up to 15 mm	3.6µm



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10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Plug Gauge (Taper Angle)	Using CMM by Comparison Method	6 mm to 400 mm	17sec
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Plug Gauge (Diameter at small end)	Using CMM by Comparison Method	100 mm to 200 mm	4.4µm
12	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	4.9µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Plug Gauge (Diameter at small end)	Using CMM by Comparison Method	300 mm to 400 mm	5.5µm
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	3.7µm



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15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Taper Ring Gauge (Taper Angle)	Using CMM by Comparison Method	6 mm to 400 mm	17sec
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	4.31µm
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	4.9µm
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	5.51µm
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	3.7µm



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20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using ULM by Comparison Method	2 mm to 20 mm	1.3µm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using ULM by Comparison Method	>20 mm to 100 mm	1.4µm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauge	Using ULM By Comparison Method	100 mm to 200 mm	1.8µm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using ULM & Master Ring Gauge BY Comparison Method	>100 mm to 200 mm	2.8µm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using ULM & Master Ring Gauge BY Comparison Method	200 mm to 300 mm	3.2µm



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25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using ULM & Master Ring Gauge BY Comparison Method	300 mm to 400 mm	3.6µm
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge	Using ULM & Master Ring Gauge BY Comparison Method	4 mm to 100 mm	2.5µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Snap Gauge	Using Gauge Block by Comparison Method	4 mm to 125 mm	1.8µm
28	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 Method	2 mm to 30 mm	2.2µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Taper Angle)	Using FCDM, Cylindrical Setting Master & Thread Measuring Wire by Comparison Method	2 mm to 30 mm	17"



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30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Taper Angle)	Using CMM by Comparison Method	>30 mm to 350 mm	17"
31	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	3.7µm
32	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	4.5µm
33	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	4.9µm
34	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	5.7µm



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35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Taper Angle)	Using CMM by Comparison Method	25 mm to 350 mm	17"
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Effective Dia.)	Using CMM by Comparison Method	100 mm to 200 mm	4.52µm
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Effective Dia.)	Using CMM by Comparison Method	200 mm to 300 mm	4.9µm
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Effective Dia.)	Using CMM by Comparison Method	25 mm to 100 mm	3.7µm
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Effective Dia.)	Using CMM by Comparison Method	300 mm to 400 mm	5.5µm



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40	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Height	Using ULM Machine by Comparison Method	up to 10 mm	2.4µm
41	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire	Using ULM by Comparison Method	0.17 mm to 6.35 mm	1.3µm
42	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	2.2µm
43	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	1.9µm
44	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	2.6µm



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45	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	3.6 µm
46	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major Dia)	Using ULM by Comparison Method	100 mm to 200 mm	1.7µm
47	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major Dia)	Using ULM by Comparison Method	2 mm to 100 mm	1.6µm
48	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major Dia)	Using ULM by Comparison Method	200 mm to 300 mm	2.1µm
49	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Major Dia)	Using ULM by Comparison Method	300 mm to 400 mm	2.52µm



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50	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	3.2µm
51	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
52	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Dia)	Using ULM BY Comparison Method	100 mm to 200 mm	2.8µm
53	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Dia)	Using ULM BY Comparison Method	200 mm to 300 mm	3.12µm
54	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Dia)	Using ULM BY Comparison Method	300 mm to 400 mm	3.6µm



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55	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective Dia)	Using ULM BY Comparison Method	4 mm to 100 mm	2.5µm
56	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	2.5µm
57	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	2.8µm
58	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Diameter Measuring Machine Micrometer Head L.C. : 0.2µm	Using Gauge Block by Comparison Method	0 to 25 mm	0.56µm

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