



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	TRUTHREAD GAUGES & TOOLS PVT. LTD., T-83 , M.I.D.C. BHOSARI, PUNE, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	CC-2842	Page No	1 of 9
Validity	24/11/2022 to 23/12/2024	Last Amended on	20/12/2022

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.)	Calipers (Digital, Dial, Vernier) L.C.: - 10 µm	Using caliper checker by comparison method	0 to 600 mm	17.4 µm
2	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Depth Micrometer L.C.: - 10 µm	Using gauge block by comparison method	0 to 50 mm	6.0 µm
3	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: - 1 µm	Using gauge block set by comparison method	0 to 100 mm	1.5 µm
4	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	External Micrometer L.C.: - 10 µm	Using gauge block set by comparison method	> 100 mm to 200 mm	3.5 µm



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5	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Height Gauge (Digital, Dial, Vernier) L.C.:- 10 µm	Using caliper checker surface plate by comparison method	0 to 600 mm	17.0 µm
6	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Lever Type Dial Gauges L.C.:- 10 µm	Using Dial Calibration tester by comparison method	0 to 1 mm	2.7 µm
7	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauges	Using Electronic Comparator and Length Bars by Comparison Method	> 200 mm to 350 mm	2.8 µm
8	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauges	Using Electronic Comparator and Length Bars by Comparison Method	>100 mm to 200 mm	2.5 µm
9	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Plug Gauges	Using Electronic Comparator and Slip Gauge Set by Comparison Method	0.1 mm to 100 mm	1.7µm



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10	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge (Internal Dia.)	Using Length Measuring Machine and Master Setting Ring by Comparison Method	> 100 mm to 400 mm	2.2 µm
11	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Ring Gauge (Internal Dia.)	Using ULM SIP by comparison method	2.5 mm to 100 mm	1.6 µm
12	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Snap Gauge	Using Gauge blocks by comparison method	> 200 mm to 300 mm	3.0 µm
13	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plain Snap Gauge	Using Gauge blocks by comparison method	1 mm to 200 mm	2.1 µm
14	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Plunger Type Dial Gauges L.C.:- 1 µm	Using ULM by comparison method	0 to 25 mm	1.0 µm



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15	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge (Taper Angle)	Using Length Measuring Machine and Roller Pins by Comparison Method	0 to 30°	82sec of arc
16	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Plug Gauge (Diameter At Small End/ Larger End)	Using Length Measuring Machine and Roller Pins by Comparison Method	5 mm to 200 mm	4.1 µm
17	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring Gauge (Taper Angle)	Using Length Measuring Machine and Master Setting Ring by Comparison Method	5 mm to 100 mm	59Sec of arc
18	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Plain Ring Gauge (Internal Taper Diameter)	Using Length Measuring Machine and Setting ring by comparison method	5 to 100 mm	1.7 µm
19	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Major & Effective Dia.)	Using Length Measuring Machine and Thread Measuring Wires By Comparison Method	100 mm to 300 mm	2.6 µm



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20	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Major & Effective Diameter)	Using Length Measuring Machine and Thread Measuring Wires by Comparison Method	5 mm to 100 mm	1.37 μm
21	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Minor Diameter)	Using Length Measuring Machine and Thread Measuring Prism	5 to 100 mm	3.3 μm
22	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Plug Gauge (Stand Off) for API gauges	Using Electronic Comparator and Master Ring Gauge by Comparison Method	Up to 50 mm	3.7 μm
23	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Effective Diameter)	Using Length Measuring Machine and master setting ring by Comparison Method	5 mm to 100 mm	2.0 μm
24	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Taper Thread Ring Gauge (Stand Off) for API gauges	Using Electronic Comparator and Master Plug Gauge by Comparison Method	up to 50 mm	3.7 μm



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25	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Gauge (Angle)	Using Contour Measuring Machine by comparison method	55 ° to 60 °	5'
26	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Gauge (Pitch Error)	Contour Measuring Machine by Comparison Method	0.25 mm to 12 mm	4µm
27	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Prism (A,B,C,D Type) (Height of the Prism)	Using Length Measuring Machine by Comparison Method	3 mm to 5 mm	0.7µm
28	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Measuring Wire/ Cylindrical Pin	Using Electronic comparator by comparison method	0.15 mm to 20 mm	1.0 µm
29	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge (Pitch)	Using Profile Projector By Comparison Method	0.4 mm to 6 mm	13 µm



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30	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Pitch Gauge Angle (55° & 60°)	Using Profile Projector By Comparison Method	55° & 60°	17 min
31	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge Major/Effective Diameter	Using Length Measuring Machine and Thread Measuring Wires by Comparison Method	>100 mm to 400 mm	2.6 µm
32	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Minor Diameter)	Using Length Measuring Machine and Thread Measuring Prism by Comparison Method	> 100 mm to 400 mm	3.3 µm
33	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge Major and Effective Diameter	Using Length Measuring Machine and Thread Measuring Wires by Comparison Method	1 mm to 100 mm	1.4 µm
34	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Plug Gauge (Minor Diameter)	Using Length Measuring Machine and Thread Measuring Prism by Comparison Method	1 mm to 100 mm	3.3 µm



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35	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Effective /Minor Diameter)	Using Length Measuring Machine and Master Setting Ring by Comparison Method	2 mm to 100 mm	1.8 µm
36	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge Effective Diameter/Minor Diameter	Using Length Measuring Machine and Master Setting Ring by Comparison Method	> 100 mm to 350 mm	2.6 µm
37	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Thread Ring Gauge (Stand Off)	Using Electronic Comparator , Master Plug Gauge by Comparison Method	Up to 150 mm	3.7 µm
38	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Vernier Depth Gauge (L.C.:- 20 µm)	Using Gauge block sets by comparison method	0 to 150 mm	15.3 µm
39	MECHANICAL-DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)	Width Gauge (Width)	Using Electronic Comparator by Comparison Method	1 mm to 100 mm	1.3 µm



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40	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Diameter (Parallelism of Measuring Faces)	Using Thread Measuring Wire	Up to 0.003 mm	1.2 μm
41	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Floating Carriage Diameter Measuring Machine (L.C. 0.0001 mm) (Accuracy of Scale, Instrumental Error of Machine, Parallelism of measuring faces, Flatness)	Using Gauge Blocks set ,Thread Measuring Wire and Cylindrical setting master by comparison method	0 to 25 mm	1.7 μm
42	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bars	Using Electronic comparator, master length bars or gauges blocks by comparison	>100 mm to 200 mm	1.6 μm
43	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bars	Using Electronic comparator, master length bars or gauges blocks by comparison	>200 mm to 350 mm	2.1 μm
44	MECHANICAL-DIMENSION (PRECISION INSTRUMENTS)	Length Bars	Using Electronic comparator, master length bars or gauges blocks by comparison	25 to 100 mm	1.4 μm

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