

Laboratory	Truthread Gauges & Tools Pvt. Ltd., T- 83, MIDC, Bhosari, Pune, Maharashtra		
Accreditation Standard	ISO/IEC 17025:2005		
Discipline	Mechanical Calibration	Issue Date	21.10.2016
Certificate Number	C-0675	Valid Until	20.10.2018
Last Amended on	23.11.2016	Page	1 of 4

Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
I. DIMENSION (Basic Measuring Instrument, Gauge etc.)			
1. CALIPERS[§] (Digital, Dial, Vernier) L.C.: 10 μm ^Φ	Upto 600 mm	17.4 μm	Using Caliper Checker by Comparison Method
2. HEIGHT GAUGES[§] (Digital, Dial, Vernier) L.C.: 10 μm ^Φ	Upto 600 mm	17.0 μm	Using Caliper Checker & Surface Plate by Comparison Method
3. VERNIER DEPTH CALIPER[§] L.C.: 20 μm	Upto 150 mm	15.3 μm	Using Gauge Block Sets by Comparison Method
4. EXTERNAL MICROMETER[§] (Digital, Dial, Vernier) L.C.: 1 μm L.C. : 10 μm	0 to 100 mm 0 to 200 mm	1.5 μm 3.5 μm	Using Gauge Blocks by Comparison Method
5. DEPTH MICROMETER[§] L.C.: 10 μm	0 to 50 mm	6.0 μm	Using Gauge Blocks by Comparison Method
6. PLUNGER TYPE DIAL GAUGES[§] L.C.: 1 μm ^Φ	Upto 25 mm	1 μm	Using ULM & Dial Calibration Tester by Comparison Method

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7. LEVER TYPE DIAL GAUGES ^{\$} L.C.: 10 μ m	Upto 10 mm	4.1 μ m	Using Dial Calibration Tester by Comparison Method
8. LENGTH BARS ^{\$}	Upto 100 mm 100 mm to 200 mm 200 mm to 350 mm	2.0 μ m 2.4 μ m 3.3 μ m	Using Electronic Comparator, Master Length Bars or Gauge Blocks by Comparison Method
9. THREAD MEASURING WIRE/CYLINDRICAL PIN	\varnothing 0.15 mm to \varnothing 20 mm	1.0 μ m	Using Electronic Comparator by Comparison Method
10. THREAD MEASURING PRISMS ^{\$} (Parallelism)	A, B,C & D Type	1.5 μ m	Using ULM by Comparison Method
11. PLAIN PLUG GAUGES/ CYLINDRICAL SETTING MASTER ^{\$}	Upto \varnothing 100 mm \varnothing 100 mm to \varnothing 200 mm \varnothing 200 mm to \varnothing 350 mm	1.7 μ m 2.5 μ m 2.8 μ m	Using Electronic Comparator by Comparison Method
12. PLAIN RING GAUGE ^{\$} (Internal Diameter)	\varnothing 2.5 mm to \varnothing 100 mm > \varnothing 100 mm to \varnothing 300 mm	1.6 μ m 2.0 μ m	Using ULM SIP by Comparison Method
13. PLAIN SNAP GAUGE ^{\$}	1 mm to 200 mm >200 mm to 300 mm	2.1 μ m 3.0 μ m	Using Gauge Block. by Comparison Method
14. TAPER PLAIN PLUG GAUGE ^{\$} (Diameter at Small End \ Large end Taper Angle)	1 mm to 200 mm Upto 30°	3.7 μ m 25.4" arc	Using ULM

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	Quantity Measured/ Instrument	Range / Frequency	*Calibration Measurement Capability (\pm)	Remarks
15.	TAPER PLAIN RING GAUGE^s (Internal Taper Diameter)	> \emptyset 5 mm to \emptyset 100 mm	1.7 μ m	Using UMM
	Taper Angle		59 " arc sec	
16.	THREAD PLUG GAUGE^s Major/ Effective Diameter Minor Diameter	\emptyset 1 mm to \emptyset 100 mm	1.7 μ m 3.4 μ m	Using FCDM, Cylindrical setting Master & Thread Pin Gauge
	Major/ Effective Diameter Minor Diameter	> \emptyset 100 mm to \emptyset 300 mm	2.6 μ m 3.0 μ m	Using ULM by Comparison Method
17.	THREAD RING GAUGE^s (Effective & Minor Diameter) EFFECTIVE DIAMETER	\emptyset 3 mm to \emptyset 100 mm \emptyset 100 mm to \emptyset 300 mm	1.8 μ m 2.6 μ m	Using ULM Using ULM by Comparison Method
18.	TAPER THREAD PLUG GAUGE^s (Major & Effective Diameter Minor Diameter)	\emptyset 5 mm to \emptyset 100 mm	2.0 μ m 3.1 μ m	Using FCDM, Cylindrical setting Master & Thread Pin Gauge
	(Major & Effective Diameter Minor Diameter)	\emptyset 100 mm to \emptyset 300 mm	3.6 μ m	Using ULM by Comparison Method
19.	TAPER THREAD RING GAUGE^s (Effective Diameter)	\emptyset 5 mm to \emptyset 100 mm	2.0 μ m	Using UMM by Comparison Method

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20. BORE GAUGE ^{\$} (Transmission)	Upto 2 mm	2.6 μ m	Using Dial Calibration Tester by Comparison Method
21. FEELER GAUGE/ THICKNESS GAUGE ^{\$}	0.02 mm to 2 mm	1.3 μ m	Using Electronic Comparator by Comparison Method
22. RADIUS GAUGE ^{\$}	R 0.6 mm to R 25 mm	35.9 μ m	Using Profile Projector by Comparison Method
23. THREAD PITCH GAUGE ^{\$} ANGLE PITCH	55° & 60° 0.4 mm to 6 mm pitch	17' arc 13 μ m	Using Profile Projector by Comparison Method
24. FLOATING CARRIAGE DIAMETER ^{\$}	0 to 25 mm		
Linear X-axis Measurement		1.7 μ m	Using Gauge Blocks
Measuring faces parallelism		1.2 μ m	Using Thread Measuring Wire

* Measurement Capability is expressed as an uncertainty (\pm) at a confidence probability of 95%

^{\$}Only in Permanent Laboratory

[®] Laboratory can also calibrate instruments/devices of coarser resolution / least count within the accredited range using same reference standard/ master equipment under the scope of accreditation.

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