

Laboratory

Baker Gauges India Private Limited (HIP Division), 37-40, Nagar Road, Viman Nagar, Pune, Maharashtra

Accreditation Standard

ISO/IEC 17025: 2005

Certificate Number

CC-2763 (in lieu of C-0390)

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Validity

30.06.2018 to 29.06.2020

Last Amended on 04.07.2018

Sl.	Quantity Measured / Instrument	Range/Frequency	*Calibration Measurement Capability (\pm)	Remarks
<u>MECHANICAL CALIBRATION</u>				
1.	DIMENSION (BASIC MEASURING INSTRUMENT, GAUGE ETC.)			
1.	Parallel Thread Plug Gauge Simple Pitch Diameter & Major Diameter [§]	1 mm to 15 mm 15 mm to 100 mm 50 mm to 400 mm	1.7 μ m 2.1 μ m 2.5 μ m	Using Floating Carriage Diameter Measuring Machine by 2 Wire Method Using Length Measuring Machine by 2 Wire Method
2.	Parallel Thread Ring Gauge Simple Pitch Diameter [§]	Nominal dia. below 3 mm or Pitch < 0.5 mm	1.7 μ m	Using Check Plugs & Wear Check Plug / LMM
3.	Parallel Thread Ring Gauge Simple Pitch Diameter [§] (For pitch \geq 0.5 mm)	3 mm to 100 mm 100 mm to 350 mm	1.4 μ m 1.7 μ m	Using Length Measuring Machine by 2 Ball Method
4.	Taper Thread Plug Gauge Simple Pitch Diameter [§]	5 mm to 100 mm 100 mm to 225 mm	2.4 μ m 2.4 μ m	Using Floating Carriage Diameter Measuring Machine by 2 Wire & Spotting Method Using Length Measuring Machine by 2 Wire & Spotting Method
5.	Taper Thread Ring Gauge Simple Pitch Diameter [§]	5 mm to 100 mm 5 mm to 60 mm	2.3 μ m 2.5 μ m	Using Length Measuring Machine by 2 Ball Method

Dheeraj Chawla
Convenor

Avijit Das
Program Manager

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		5 mm to 225 mm	2.6 μ m	Using IAC Master Scanner by 2D Scanning Using Check Plug & Lever Dial Gauge by Comparison Method
6.	Internal Diameter of Plain Taper Ring [§]	5 mm to 100 mm (Taper angle $\leq 9^\circ$) 5 mm to 60 mm (Taper angle $\leq 9^\circ$)	1.8 μ m 2.54 μ m	Using Length Measuring Machine by 2 Ball Method Using IAC Master Scanner by 2D Scanning
7.	External diameter of Plain Taper Plug [§]	5 mm to 60 mm (Taper angle $\leq 9^\circ$)	1.7 μ m	Using Length Measuring Machine Calculation By Direct Measurement
8.	External Micrometer [§] L.C.: 0.001 mm	0 to 100 mm 100 mm to 150 mm	2.1 μ m 2.4 μ m	Using Gauge Blocks by Comparison Method
9.	External Micrometer [§] L.C.: 0.01 mm	0 to 300 mm	6.3 μ m	Using Gauge Blocks by Comparison Method
10.	Micrometer Setting Standards [§]	25 mm to 100 mm 100 mm to 300 mm 300 mm to 600 mm	0.9 μ m 2.2 μ m 4.2 μ m	Using Length Measuring Machine by Direct Measurement
11.	Outer Diameter of Plugs, Master Setting Discs, Measuring Pins [§]	0.5 mm to 10 mm 10 mm to 100 mm 100 mm to 300 mm 300 mm to 400 mm	0.7 μ m 1.1 μ m 1.6 μ m 2.8 μ m	Using Length Measuring Machine by Direct Measurement
12.	Thread Measuring Wires [§]	0.14 mm to 10 mm	0.7 μ m	Using Length Measuring Machine by Direct Measurement

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13.	Internal Diameter of Rings [§]	2.4 mm to 100 mm 100 mm to 350 mm	1.2 μ m 1.3 μ m	Using Length Measuring Machine by Comparison Method

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

[§]Only in Permanent Laboratory

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