



NABL

Department of Science & Technology, India

SCOPE OF ACCREDITATION

Laboratory	Baker Gauges India Private Limited, (BML DIV.), Pune		
Accreditation Standard	ISO/IEC 17025: 2005		
Field	Mechanical Calibration	Issue Date	15.03.2010
Certificate Number	C-0081	Valid Until	14.03.2012
Last Amended on	-	Page	1 of 2

Quantity Measured / Instrument	Range	* Calibration Measurement Capability (μ)	Remarks
1. INTERNAL DIAMETER (Ring Gauges, Internal steps)	Upto ϕ 100 mm ϕ 100 mm to ϕ 200 mm ϕ 200 mm to ϕ 300 mm ϕ 300 mm to ϕ 400 mm	0.70 μ m 0.89 μ m 1.19 μ m 1.41 μ m	Using Reference Ring Gauge, S/P - ULM 550
2. EXTERNAL DIAMETER (Setting Disc, Plug Gauge, External Step Gauge)	Upto ϕ 100 mm ϕ 100 mm to ϕ 200 mm	0.45 μ m 0.69 μ m	Using Reference Gauge Blocks, Sigma Comparator
3. PLUNGER TYPE DIAL GAUGES L.C. 0.010 mm L.C. 0.001 mm	Upto 25.4 mm Upto 25.4 mm	2.5 μ m 2.0 μ m	Using Dial Gauge Calibrator
4. LEVER TYPE DIAL GAUGES L.C. 0.010 mm L.C. 0.001 mm	Upto 2 mm Upto 2 mm	2.5 μ m 2.0 μ m	Using Dial Gauge Calibrator
5. ELECTRONIC PROBE L.C. 0.0001 mm	25.4 mm	0.14 μ m	Using Gauge Blocks
6. BORE GAUGE	Upto 1.2 mm (For Transmission Error)	2.0 μ m	Using Dial Gauge Calibrator

In-charge



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Quantity Measured / Instrument	Range	* Calibration Measurement Capability (\pm)	Remarks
7. DIGITAL/DIAL/VERNER CALIPER L.C. 0.020 mm L.C. 0.010 mm	Upto 300 mm Upto 500 mm	14 μ m 10 μ m	Using Caliper Checker
8. EXTERNAL PLAIN TAPER GAUGE	Max. Included Angle 60° (over the length of 2 mm) Max. 120 mm dia.	Angle: 41 \pm of Arc Dia: 1.6 μ m	Using Taper Measuring Machine
9. SURFACE ROUGHNESS	Upto 0.006 Ra mm	0.75 %	Using Sontronic - Taylor Hobson Roughness Tester
10. ROUNDNESS	Upto 500 mm Dia. & 1.00 mm Roundness	0.16 μ m	Using Sontronic - Taylor Hobson Roughness Tester
11. 3-POINT MICROMETER L.C. 0.001 mm L.C. 0.005 mm	6 mm to 200 mm 6 mm to 200 mm	3.0 μ m 5.0 μ m	Using Setting Ring Gauges
12. GAUGE BLOCK	Upto 25 mm 25 mm to 50 mm 50 mm to 75 mm 75 mm to 100 mm	0.15 μ m 0.18 μ m 0.23 μ m 0.31 μ m	Using K' Grade Gauge Blocks & Calibrator

* Measurement Capability is expressed as an uncertainty (2 σ) at a confidence probability of 95%.

Director