

**GAUGE BLOCK COMPARATOR**



Gauge Block Comparator is highly precision instrument to calibrate precision gauge block from 0.50 to 100mm length. It is an advance technology of gauge block comparison method & now widely adopted through out the world wide calibration laboratories of national metrology institutes of various countries & ISO/IEC 17025 accredited laboratories. While using this instrument it require a reference master gauge block whose exact centre point deviation has to be known before.

With this instrument we have used 2 high precision measuring probes. 1) at the Top & 2) at the base plate which ensure reliable and accurate results. We have also provided a Gauge Block Holding Fixture, which guides the probe to trace 5 different Points on the surface to calculate the Parallelism of the gauge block. All these measurement takes place with reference to centre deviation of reference master. This instrument comes with a Pneumatic Lifting System, which helps to move and calibrate the Gauge Block without any Jerk and interference caused due to Body Heat.

**Features**

- Rigid cast stand for temperature stability
- Centre deviation
- Parallelism by measuring at 5 points and there by selection of grade
- User friendly on handed operation to position the gauge blocks under the measuring probe
- Precision ball bearing guides for smooth control actuation

**This Instrument Consist of**

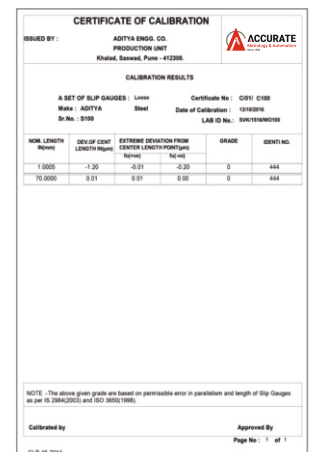
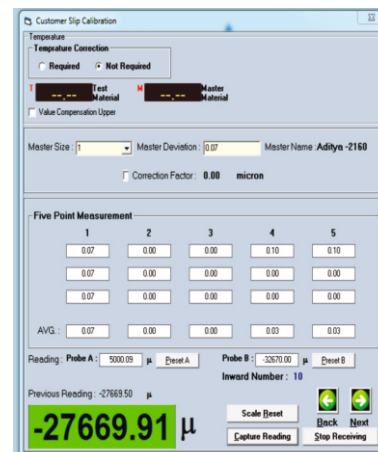
- Gauge block comparator stand with two templates
- Pair of LVDT probe (top & bottom)
- Pneumatic lifting system
- Heat resistance shield
- User friendly software
- Dust cover for comparator
- Operation manual

**Software : Version 1.0.0**

- User friendly software to calculate the grade of gauge blocks
- Stores all measured results
- Certificates can be printed and it compensates the temperature variations automatically, with reference to Thermal Co-efficient

**Technical Specifaaction**

Measuring Range	0.5 - 100mm
Measuring System	Digital
Repeatability	0.02µm
Accuracy	0.03 µm.
Display	Digital Read out with RS232 Port
Resolution	0.001mm, 0.0001mm, 0.00001mm
Lifting Device	Pneumatic pump to be operated manually
Software	Suitable for calibration of gauge block from 0.5 to 100mm in metric & Imperial



# LINE MEASURE 1000

Line measure is an ideal calibration solution for measuring scale & tape. In the field of engineering measuring tapes & scales play an important role & precision are important for marking large components correctly. Scales & tape are widely used for measurement in the field of civil, mechanical & teextile industry. The instrument calibrates different sizes of tapes & scales with high precision for maintaining high standards and measurement upto 1000mm.



**Application :**  
For checking scale & measuring tapes

## Features

- Meets IS 1269 Part 2 requirement
- Higher accuracy & repeatability
- High precision digital measuring system with 0.001mm resolution as reference
- The machine base is designed to ensure friction less when tapes are stretched under tension of 50 N & above
- High Accuracy CCD camera
- Compact & user friendly

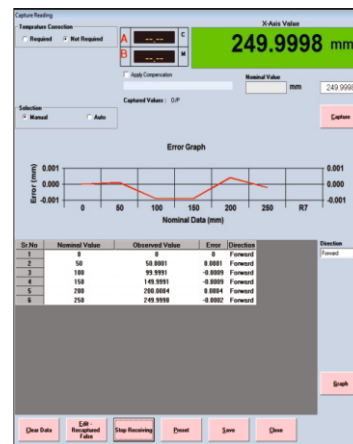
## Software : Version 1.0.0

- Data Acquisition
- Graphical Representation
- Selectable measuring steps
- Summary of measurement results

## Technical Specification

Range	0 to 1000mm
Resolution	0.001/0.005 mm(selectable)
Accuracy	± 0.015 mm./ meter
Microscope Magnificaation	20X*
Overall Dimension	approx. 1500 x 300 x 400mm
Display System	PC Based

\*Different microscope magnification option available on request.



Nominal Value	Observed Value	Error	Direction
0	0.0000	0.0000	Forward
10	10.0002	0.0002	Forward
20	20.0001	0.0001	Forward
30	30.0003	0.0003	Forward
40	40.0000	0.0000	Forward
50	50.0001	0.0001	Forward

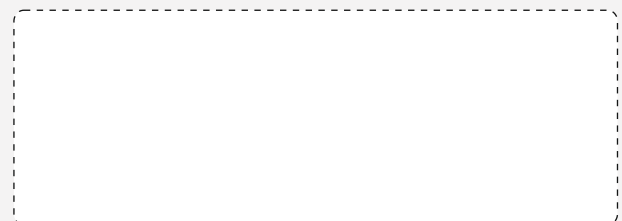


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Note : Due to continuous Improvements at our end, Specifications are subject to change without prior notice.