

Gauge Block Calibration

Length Standards Brought to You by Mitutoyo

Gauge Block Comparator GBCD-100A SERIES 565 - Automatic Comparator with Dual Gage Heads



SPECIFICATIONS

Metric

Range	Resolution (μm)	Accuracy in narrow range (20 °C) $\pm(0.03 + 0.3L/1000) \mu\text{m}^*$ L=Gauge block length (mm)	Upper gaging head		
			Type	Measuring force	Contact point
0.5 mm - 100 mm	0.01		Mu-Checker	1 N	Carbide contact point of radius 20 mm

Type	Lower gaging head		Operating conditions 20 °C ± 1 °C Humidity: 58 % RH ± 15 % RH (Under less temperature change, and hot or cold direct air flow should be avoided.)
	Measuring force	Contact point	
Mu-Checker	0.6 N	Carbide contact point of radius 5 mm	

* Uncertainty of measurement at the 95 % confidence level (not including the calibration error of the reference gauge block).



An inspection certificate is supplied as standard. Refer to page U-11 for details.

- Measures the length of rectangular gauge blocks in the size range 0.5 mm to 100 mm. It automatically compares a test block with an appropriate reference gauge block.
- The compensation result is not affected by any warping of thinner gauge blocks due to the use of upper and lower gage heads (dual-head system).
- Measurement configuration: 1 cycle of automatic comparison measurement with a standard gauge block.

- Gauge block set for comparator calibration (optional)
Standard type **516-145-E2**



Special bridge-type block

516-145-E2