

Gauge Block Calibration

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

- 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 gage 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 Reference gage block.



SPECIFICATIONS

Metric					
Range	Resolution	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 μm		Mu-Checker	1 N	Carbide contact point of radius 20 mm
Lower gaging head			Operating conditions 20 °C \pm 1 °C Humidity: 58% RH \pm 15% RH (Under less temperature change, and hot or cold direct air flow should be avoided.)		
Type	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 gage block).



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



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