## **Gauge Block Calibration**



## **Gauge Block Comparator GBCD-250 SERIES 565 — Manual Comparator with Dual Gage Heads**

- Measures Rectangular Gauge Blocks and Square Gauge Blocks through manual comparison with an appropriate Reference gauge block in the size range 0.1 mm to 250 mm.
- The measurement result is not affected by any warping of thinner gauge blocks due to the use of upper and lower gage heads (dual-head system).



## **SPECIFICATIONS**

Metric										
Range	Resolution (Effective indication)	Accuracy (95% confidence interval) [Comparison measurement of the same nominal length	Accuracy (95% confidence interval)  [ Dimensional deviations between Reference gauge block and measurement gauge block: ±3 mm]							
0.1 mm - 250 mm	0.001 μm (0.01 μm)	±(0.03 + 0.3L/1000) µm* L=Gauge block length (mm)	±(0.06 + 0.3L/1000) µm* L=Gauge block length (mm)							

	Upper gaging head		Lower gaging head			Operating conditions
Туре	Measuring force	Contact point	Туре	Measuring force	Contact point	Operating conditions
Linear Gage		Carbide contact point of radius 20 mm		0.2 N	Carbide contact point of radius 5 mm	20 °C±1 °C Humidity: 30% RH to 60% RH (Under less temperature change, and hot or cold direct air flow should be avoided.)

<sup>\*</sup> Not including the uncertainty of reference gauge block and influence of temperatures.

