

One-stop PURCHASE

Perfect price-performance ratio products

Professional SER VICE



A ccording to the actual application requirements, Biuged offers three different types of thickness gauges which combine the Hall effect and Eddy current principles to measure the thickness of non-ferromagnetic coatings on ferromagnetic metal substrates (iron, cobalt, nickel and gadolinium) and the thickness of non-conductive coatings on non-magnetic metal substrates (copper, aluminum, magnesium, zinc, chromium, etc). The instrument is widely used in metal processing, coating, hardware, shipbuilding, aerospace and other fields.

- Iron and aluminum dual use. Identify substrate automatically, and fast automatic conversion. (BGD 545&BGD 546)
- ♦ Sensitive response, and the data can be measured in 0.5 seconds.
- With simple design and small size, it is easy to carry and operate.
- Ruby probe has abrasion and corrosion resistance, which ensures long service life and can avoid errors caused by wear.
- ◆ Two units of µm/mil can be selected.
- ◆ The advanced digital probe is used to keep the zero position stable for a long time without drifting. The test data is stable after testing the same position for multiple times.
- ♦ The thickness gauge adopts unique algorithm to solve the linearity of the instrument and ensure measurement accuracy. It doesn't need to be calibrated, only need zero adjustment.
- The good repeatability to ensure that it passes the inspection of Chinese national metrological testing.
- Available in three different modes: Fe mode, NFe mode and Fe/NFe mode (BGD 545&BGD 546)
- ◆ Conform to standards: ISO 2178, ISO 2360, DIN/EN/ISO 2808, ASTM D1186, ASTM D1400, ASTM D7091, DIN 50981, DIN 50984 etc.
- ◆ BGD 547 is specially designed for measuring the thickness of ultra-thin coatings or platings below 10 µm, and it adopts ultra-thin probe design, which is especially suitable for measuring coatings on small workpieces such as screws and bolts. The probe adopts digital oscillation technology and high-speed ADC acquisition, which ensure that the instrument has ultra-high measurement accuracy and repeatability. In addition, BGD 547 also has the function of data statistics, which can store up to 9 measurement values and automatically calculate the maximum, minimum, average and standard deviation of the measured data.







BGD 546



BGD 547



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Ordering Information → Technical Parameters ↓	BGD 545	BGD 546	BGD 547
Probe	Integrated probe External ca		able probe
Substrate	Metal materials		Magnetic metal
Measuring Range	0.0–5,000µm		0.0-500µm
Resolution	0.1µm (< 100µm); 1µm (100µm ~ 999µm); 10µm (> 1000µm)		
Accuracy	≤ ± (3% reading+2µm)		≤ ± (2% reading+0.3µm)
Minimum Curvature	Convex: 5mm / Concave: 25mm		Convex: 1.5mm / Concave: 10mm
Minimum Measuring Area	6mm²		Diameter: 7mm
Minimum Substrate Thickness	Fe:0.2mm / NFe: 0.05mm		0.1mm
Display	128 × 48 dot matrix LCD		240 × 160 dot matrix LCD
Power Supply	2pcs of 1.5V AAA alkaline battery		4pcs of 1.5V AAA alkaline battery
Dimension	101mm × 62mm × 28mm		148mm × 76mm × 26mm
Weight	79g (with battery)		194g (with battery)
Optional Accessories			Hand test fixture





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