

Digital Precise Dry Film Thickness Gauge - Ferro & Non

Ferro

BGD 542-S

Product Description

According to the actual application requirements, we offer 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.



Standards

ISO 2178, ISO 2360, DIN/EN/ISO 2808, ASTM D1186, ASTM D1400, ASTM D7091, DIN 50981, DIN 50984 etc

Technical Specification

- iron and aluminium dual use. Identify substrate automatically, and fast automatic conversion.
- 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 $\mu\text{m}/\text{mil}$ 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.
- Conform to standards: ISO 2178, ISO 2360, DIN/EN/ISO 2808, ASTM D1186, ASTM D1400, ASTM D7091, DIN 50981, DIN 50984 etc.

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Main Technical Parameters

Technical Parameters:

- Probe: Internal probe *
- Substrate: Metal materials
- Measuring Range: 0.0-2000µm
- Resolution: 0.1µm (<100µm); 1µm (100µm~999µm); 10µm (>1000µm)
- Accuracy: $\leq (\pm 3\% \text{ reading} + 2\mu\text{m})$
- Minimum Curvature: Convex: 5mm / Concave: 25mm
- Minimum Measuring Area: Diameter: 6 mm²
- Minimum Substrate Thickness: Fe: 0.2 mm / NFe: 0.05mm
- Display: 128x48 dot matrix LCD
- Power Supply: 2pcs of 1.5V AAA alkaline battery
- Dimension/Weight: 101mmx62mmx28mm/79g (with battery)
- Optional Accessories: USB online cable and software, Bluetooth adapter and software

*BGD 543/S External cable probe

Disclaimer

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