

## **Digital Dry Film Thickness Gauge - Ferro & Non Ferro - built-in probe: 0 -2,000 micron**

**BGD 545**

### **Product Description**

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Tailored to specific application requirements, Solvica offers distinct types of thickness gauges that leverage the Hall effect and Eddy current principles. These gauges are designed 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 finds wide applications in metal processing, coating, hardware, shipbuilding, aerospace, and other industries.



- Iron and aluminum dual use. Automatically identifies the substrate and facilitates fast automatic conversion (BGD 545 & BGD 546)
- Sensitive response with data measured in 0.5 seconds
- Simple design and compact size for easy portability and operation
- Ruby probe ensures abrasion and corrosion resistance, ensuring a long service life and minimizing errors due to wear
- Two units of  $\mu\text{m}/\text{mil}$  can be selected
- Advanced digital probe maintains a stable zero position for extended periods without drifting. Stable test data after multiple tests on the same position
- Unique algorithm ensures instrument linearity and measurement accuracy without the need for frequent calibration; only requires zero adjustment
- Good repeatability ensures compliance with Chinese national metrological testing inspection

### **Standards**

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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

	<b>BGD 545</b>	BGD 546
Probe	Integrated probe	External cable probe
Substrate	Metal materials	
Measuring Range	0.0-2000µm	
Resolution	0.1µm (<100µm); 1µm (100µm-999µm); 10µm (>1000µm)	
Accuracy	≤±(3% reading + 2µm)	
Minimum Curvature	Convex: 5mm / Concave: 25mm	
Minimum Measuring Area	6mm <sup>2</sup>	
Minimum Substrate Thickness	Fe: 0.2mm / NFe: 0.05mm	
Display	128×48 dot matrix LCD	
Power Supply	2pcs of 1.5V AAA alkaline battery	
Dimension / Weight	101mm×62mm×28mm/79g (with battery)	

**Ordering information:** BGD 545 Digital Dry Film Thickness Gauge

## Disclaimer

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