

Paint Inspection Gauge (P.I.G)

BGD 548 is a paint inspection gauge which is suitable for use wherever conventional electro-magnetic measuring techniques are ineffective, namely for coatings on wood, concrete, plastics and other non-metallic substrates.

Testing with the BGD 548 is based on the standardized wedge cut procedure: The coating is cut through at a defined angle in such a way that the cut penetrates the substrate. The layer thickness (t) is calculated on the basis of the slope projection (b) of the cut face, determined using a measuring microscope, and the cutting angle (α). Similarly, the individual layer thickness of multilayer systems can be ascertained.

The BGD 548 consists of a black painted aluminium block which accommodates the following functional elements:

- ◆ Exchangeable carbide tip with precision-ground angular cutting blade (come with 4 cutters)
 - No.1 Cutter: Measuring range: 20-2,800 μ m (Factor: 20 μ m)
 - No.2 Cutter: Measuring range: 10-1,400 μ m (Factor: 10 μ m)
 - No.3 Cutter: Measuring range: 5-700 μ m (Factor: 5 μ m)
 - No.4 Cutter: Measuring range: 2-280 μ m (Factor: 2 μ m)
- ◆ Measuring microscope with a magnification of 30 and a reticle (2.8mm with 1/140 division), which is also suitable for inspection tasks.
- ◆ With two wheels design let cutting working is more stable and uniform.
- ◆ Battery compartment for 1.5 V battery block.
- ◆ Combination of LED and fibre-optic light guide for optimum specimen illumination at low current consumption.

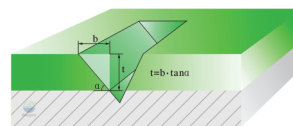
It complies with ASTM D 4138, AS 1580 Meth 408.1

Main Technical Parameters:

- ★ Measuring range (standard): 2 ~ 2,800 μ m
- ★ Power supply: 1 pc 1.5V battery
- ★ Overall Size: 110 × 85 × 25mm
- ★ Weight: 0.5 KG

★ Ordering Information:

- BGD 548--- Paint Inspection Gauge
- BGD 548/1P--- No.1 Cutter (20-2,800 μ m)
- BGD 548/2P--- No.2 Cutter (10-1,400 μ m)
- BGD 548/3P--- No.3 Cutter (5-700 μ m)
- BGD 548/4P--- No.4 Cutter (2-280 μ m)



Measuring Theory