Biuged ®

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PURCHASE
Perfect price-performance ratio products
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Paint Inspection Gauge (P.I.G)

B GD 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 (s) 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: 20-2,800ì m（Factor: 20 ì m）

No.2 Cutter: Measuring range: 10-1,400ì m（Factor: 10 ì m）

No.3 Cutter: Measuring range: 5-700ì m（Factor: 5 ì m）

No.4 Cutter: Measuring range: 2-2,80ì m（Factor: 2ì 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.

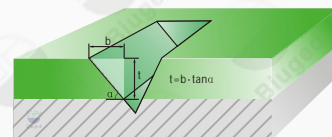**It complies with ASTM D 4138, AS 1580 Meth 408.1**

Main Technical Parameters：
★ Measuring range (standard)： 2 ~ 2,800ì m
★ Power supply： 1 pc 1.5V battery
★ Overall Size： 110mm × 85mm × 25mm
★ Weight： 0.5 KG
★ **Ordering Information:**
  BGD 548--- Paint Inspection Gauge
  BGD 548/1P--- No.1 Cutter（20-2,800ì m）
  BGD 548/2P--- No.2 Cutter（10-1,400ì m）
  BGD 548/3P--- No.3 Cutter（5-700ì m）
  BGD 548/4P--- No.4 Cutter（2-280ì m）

Scan for video

$t = b \cdot \tan\alpha$

Mearsuing Theory