

# Automatic Digital Pull-Off Adhesion Tester

## BGD 500-S

### Product Description

Automatic Digital Pull-off Adhesion Tester

BGD 500/S automatical digital pull-off adhesion tester is a portable, hand-operated instrument which is used to measure the force required to pull a specified test diameter of coating away from its substrate using hydraulic pressure. The pressure is displayed on a digital LCD and represents the coating's strength of adhesion to the substrate.

It evaluates the adhesion (pull-off strength) of a coating by determining the greatest tensile pull-off force that it can bear before detaching. Breaking points, demonstrated by fractured surfaces, occur along the weakest plane within the system consisting of dolly, adhesive, coating layers and substrate.



### Technical Specification

- Portable design, can be used anywhere.
- Built-in rechargeable lithium battery, no need any external power source.
- Selectable directly four different sizes dolly for different resolution and testing range
- Get the testing results from LCD directly.
- Includes all tools needed for testing
- Each PsiaTester's pressure system is calibrated to within 1% accuracy by NIST traceable load cells
- High-precise professional sensor ensures 0.01MPa resolution
- Self-aligning dollies ensure to get a reliable testing results for smooth or uneven surfaces.
- Supplied with calibration certificate
- Stores all test results (includes Max. pull-off power, pull-off rate, dolly size and timer) automatically
- Two units (MPa and psi) for selection and can be converted automatically.
- No software required, the PsiaTester also includes memory storage, when connecting the computer, the operator can read all data directly which is recorded during testing.
- Showing pull-off rate allows users to monitor and adjust the pull speed according to different test requirements
- Waterproof, dustproof and shockproof design meets any harshest operating environment
- Strong plastic carrying case
- Two year warranty

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### **Main Technical Parameters**

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- Dolly Size: 20mm (Standard); 10mm, 14 mm, 50mm (Optional)
- Resolution: 0.01MPa (1psi)
- Accuracy:  $\pm 1\%$  Full scale
- Max. Pull-off Pressure:
  - $\Phi$  10mm dolly: 0-80MPa
  - $\Phi$ 14mm dolly: 0-40MPa
  - $\Phi$ 20mm dolly: 0-20MPa
  - $\Phi$ 50mm dolly: 0-3.5MPa
- Power: Built-in rechargeable lithium battery, and standard configuration charging adapter.
- Adhesion Tester Size: 360mm×75mm×115mm (L x W x H)
- Adhesion Tester Weight: 3KG
- Packing List:
  - Adhesion Tester with digital display
  - 20mm Aluminum test dollies (20 pcs)
  - Cutting toll for 20mm dollies
  - 3M Adhesive and glue gun
  - Micro-USB cable
  - Operation Manual
  - Carrying case

#### Ordering Information:

- BGD 500/S: Automatic Digital Pull-off Adhesion Tester
- BGD 1520: 10mm Dolly (10 pcs/package)
- BGD 1521: 14mm Dolly (10 pcs/package)
- BGD 1522: 20mm Dolly (10 pcs/package)
- BGD 1523: 50mm Dolly (10 pcs/package)
- BGD 1524: Dolly-base for 50mm dollies
- BGD 1525: Cutting Tool 50 mm (for 50mm dollies)
- BGD 1526: Cutting Tool 20 mm (for 10mm, 14mm and 20mm dollies)
- BGD 1527: 3M Adhesive

## **Automatic Digital Pull-Off Adhesion Tester**

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#### **Accessoires**

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- BGD 1520 - Dolly 10 mm
- BGD 1521 - Dolly 14 mm
- BGD 1522 - Dolly 20 mm
- BGD 1523 - Dolly 50 mm
- BGD 1526 - Cutting Tool 20 mm for Pull-off Adhesion Tester
- BGD 1527 - 3M Epoxy Adhesive (Scotch-Weld DP410)
- BGD 1525 - Cutting Tool 50 mm for Pull-off Adhesion Tester
- BGD 1524 - Dolly-base 50 mm

#### **Disclaimer**

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