

One-stop PURCHASE Perfect price-performance ratio products

SER VICE

Professional

Digital Pull off Adhesion Tester (PsiaTester)

n order to perform satisfactorily, coatings must adhere to the substrates on which they are applied. There are three different adhesion test procedures to assess the resistance of paints to separate from the substrate. The cross cut test, also described as cross-hatch, uses a blade to cut through the coating to the substrate. At least two cuts are made that intersect at 90 degrees to get a right angle lattice pattern. The cross-cut area is observed for any adhesion failure. The second method to test the coating adhesion is using a stylus or loop that an increasing amount of weight is applied until the coating off the substrate. At dolly is glued to the coating surface, after the glue is cured, a testing apparatus is attached to the loading fixture and aligned to apply tension perpendicular to the test surface. The force applied is gradually increased and monitored until either a plug of coating material is detached, or a specified value is reached.

BGD 500 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.

BGD 500 Digital Pull-off adhesion Tester conforms to ASTM D 4541, ASTM D 7234, EN 13144, ISO 4624, ISO 16276 etc.



BGD 500

Characters

CONVENIENT

- 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

شرکت درنیکا ویژن آریا (نماینده انحصاری فروش و خدمات پس از فروش در ایران)

نشانی: تهران ، خیابان جلال آل احمد ، نرسیده به خیابان اشرفی اصفهانی ، شماره ۴۳۱ ، طبقه ۲ ، واحد ۴ تلفکس: ۵۷ و۵۶ و۵۳ و ۴۴۲۹۹۸۵۲–۲۱

ه سایت: www.dornicaco.com واتساپ(موبایل) : ۲۴۶۰۵۸۰–۹۱۲



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PRECISE

Each PsiaTester's pressure system is calibrated to within 1% accuracy by NIST traceable load cells

One-stop

- High-precise professional sensor ensures 0.01MPa resolution
- Self-aligning dollies ensure to get a reliable testing results for smooth or uneven surfaces.
- Come with calibration certificate

INTELLIGENT

- Store all test results (includes Max. Pull-off power, pull-off rate, dolly size and time) automatically
- Two units (MPa and psi) for selection and can be converted automatically.
- USB interface as standard, no need any software, PsiaTester is also a U disk, when connecting the computer, operator can read all data directly which is recorded during testing.
- Showing pull-off rate allows users monitor and adjust pull speed according to different test requirements.

DURABLE

- Waterproof, dustproof and shockproof design meets any harshest operating environment
- Strong plastic carrying case
- Two year warranty

FOR AUTOMATIC TYPE

Originated in China, it can test automatically adhesion between coating and substrate by pull-off way and get good repeatable test results.

• Electronically controlled hydraulic pump automatically applies smooth and continuous pull-off pressure. Greatly red-uces user effort and the risk of influencing the pulling process.

- Internal memory stores maximum pull-off pressure, rate of pull, test time, dolly size.
- Pull rate is controlled by PID closed-loop, stable and adjustable.
- Can set a constant pull force to judge if the coating could be separated from substrate under a certain force.
- ◆ 5.0 inch big touch screen, display pull-off force curve, operator can see clearly how it change throughout the test.



شر کت درنیکا ویژن آریا (نماینده انحصاری فروش و خدمات پس از فروش در ایران) نشانی: تهران ، خیابان جلال آل احمد ، نرسیده به خیابان اشرفی اصفهانی ، شماره ۴۳۱ ، طبقه ۲ ، واحد ۴ تلفکس: ۵۷ و۵۶ و۵۳ و ۴۴۲۹۹۸۵۲–۲۱ وب سابت: www.dornicaco.com واتساب(موبایا،) : ۰۵۱۰۶۰–۹۱۲



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BGD 1527---3M Adhesive

BGD 500 BGD 500/S Ordering Information-Technical Parameters **Digital Pull-off Adhesion Tester** Automatical Digital Pull-off Adhesion Tester Dolly Size 20mm (standard); 10mm, 14mm, 50mm (optional) Resolution 0.01MPa (1psi) ±1% full scale Accuracy Max. Pull-off Pressure 2.8-80 (10mm dolly); 1.4-40 (14mm dolly) 4.0-80 (10mm dolly) ; 2.0-40 (14mm dolly) (MPa/s) 0.7-20 (20mm dolly); 0.4-3.5 (50mm dolly) 1.0-20 (20mm dolly); 0.2-3.2 (50mm dolly) Pull-off Rate Set Range 0.4-6.0 (10mm dolly); 0.2-3.0 (14mm dolly) 0.1-1.5 (20mm dolly); 0.02-0.24 (50mm dolly) (MPa/s) Size/Weight 360mm × 75mm × 115mm/3KG 240mm × 138mm × 81mm/4KG Power Built-in rechargeable lithium battery, and standard configuration charging adapter. ① Adhesion Tester ② 20mm Aluminum test dollies (20 pcs) ③ Cutting toll for 20mm dollies Standard Packing List ④ 3M Adhesive and glue gun ⑤ Micro-USB cable ⑥ Operation Manual ⑦ Carrying case BGD 1520---10mm Dolly (10 pcs/package) BGD 1521----14mm Dolly (10 pcs/package) Accessories Ordering BGD 1522----20mm Dolly (10 pcs/package) BGD 1523---50mm Dolly (10 pcs/package) Information BGD 1524---50mm Dolly Base BGD 1525---Cutting Tool for 50mm dolly

BGD 1526---Cutting Tool for 20mm dolly