PosiTest Family

Pull-Off Adhesion Test

The PosiTest pull-off adhesion testers measure paint adhesion on metal, wood and other rigid substrates. This easy-to-use, reliable and versatile instrument uses hydraulic pressure and a revolutionary self-aligning dolly to ensure uniform pull distribution over the surface being tested, preventing a one-sided pull-off. This is done using a ring of small ball bearings to engage the articulating dolly head.

There are two models available. The model AT-A Automatic Pull-Off Adhesion Tester and Model AT manual version. Both models have the following features:

- Portable, hand-operated instrument can be used in any position and requires no external power source-ideal for the lab and on-site
- Large scale reads clearly and easily in PSI and MPa
- Inexpensive, single-use dollies eliminate the need for heating, cleaning, or brushing for re-use
- Self-aligning dolly enables measurement on smooth or uneven surfaces without adversely affecting the test results.
- Heavy-duty hydraulic pump with safety valve helps prevent damage to pressure system
- Quick-coupling makes securing dollies in actuator simple, fast and trouble-free
- Multi-purpose, high-tensile two-part adhesive suitable for use with a wide variety of coatings and coating thicknesses
- Cutting tool for isolating test area is included
- Coating adhesion tester pressure system is calibrated and certified to 1 % accuracy (full-scale) and comes with a two-year warranty
- Internal memory stores up to 200 pulls. This includes maximum pull-off pressure, rate of pull, test duration, and dolly size
- Optional PosiSoft software available to upload test results
- USB Port PC interface
- 10, 14, 20, and 50mm dollies to maximize the measurement resolution and test range

Model AT

Model ATA-20

PosiTest Model ATA-20

The automatic model has a electronically controlled hydraulic pump that applies continuous pressure. The pull-off rate is user-selectable. Simple push button operation, eliminates the need to close values or reset scales. A rechargeable NiMH battery is built-in providing up to 200 tests per charge. A universal AC Adapter is supplied. The Model ATA-20 has a high resolution screen, a wireless connection to a smart device, and records the nature of the failure: cohesion, adhesion, or glue failure.

Standards

ASTM	D 4541, D 7234
ISO	4624, 16276-1

Ordering Information

Cat. No.	Description
2201	PosiTest AT
5142	PosiTest ATA-20

Comes complete with:
Adhesion Tester with digital display
Hydraulic pump and actuator
Aluminum test dollies (20 mm)
Cutting tool for 20 mm dollies
Adhesive, 1.5 meter (5 ft.) flexible hose
Adhesive mixing sticks and palettes (5 each)
2-year warranty and carrying case
USB Cable
Certificate of calibration

Technical Specifications

Adhesion Strength	Resolution	Dolly Size
0-20 MPa (0-3000 psi)	± 0.01 MPa (± 1.0 psi)	20 mm
0-20 MPa (0-3000 psi)	±0.01 MPa (±1.0 psi)	20 mm
Case Dimensions	43 x 33 x 15 cm (17 x 13 x 6 in)	
Unit Weight	5.5 kg (12 lbs)	

PosiTest AT Verifer

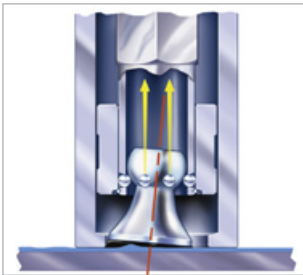Allows the user to verify the accuracy of PosiTest Adhesion Testers

- High precision load cell and hand-held smart sensor
- Fitted with a permanent 20 mm dolly
- A conversion factor is used to verify the other dolly sizes
- Portable – requires no external power supply
- Comes with a NIST traceable certificate of calibration for load cell and smart sensor
- Range 34.5 MPa (5,000 psi), accuracy ± 0.044 MPa (±6.33 psi)

Dollies

Several dolly sizes are available: 10, 14, 20, and 50 mm.
The larger surface area dolly provides improved low range repeatibility.

Dolly Size (mm)	Maximum Pull-off Pressure
10	70 MPa (10,000 psi)
14	40 MPa (6,000 psi)
20	20 MPa (3,000 psi)
50	3.5 MPa (500 psi)

Self-aligning dolly

Ordering Information		Accessories
Cat. No.	**Description**	
0032	Adhesive Kit	Includes adhesive, mixing sticks, palettes, cotton swabs
0035	Accessory Kit 50 mm	Includes 50 mm stand-off, hole saw, and test dollies (12)
5138	Dolly Set 10 mm	set of 10pcs
0030	Dolly Set 20 mm	set of 10pcs
5139	Dolly Set 14 mm	set of 10pcs
0031	Dolly Set 50 mm	set of 4pcs
0033	Cutting Tool, 50mm	For 50 mm dollies
0036	Cutting Tool, 14mm	For 14 mm dollies
5141	PosiTest Verifier Kit	Includes load cell, smart sensor, certificates, carry case, AC adapter