

# 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 valves 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

<b>ASTM</b>	D 4541, D 7234
<b>ISO</b>	4624, 16276-1

### Ordering Information

Cat. No.	Description
<b>2201</b>	PosiTest AT
<b>5142</b>	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
<b>Case Dimensions</b>	43 x 33 x 15 cm (17 x 13 x 6 in)	
<b>Unit Weight</b>	5.5 kg (12 lbs)	

## PosiTest AT Verifier

Allows the user to verify the accuracy of PosiTest Adhesion Testers

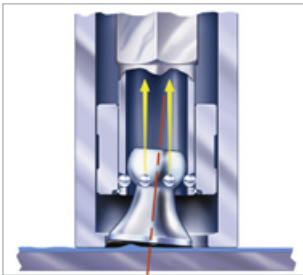
- High precision load cell and hand-held smart sensor
- Fitted with a permanent 20 mm dolly
- A conversion factor is used to verify the other dolly sizes
- Portable – requires no external power supply
- Comes with a NIST traceable certificate of calibration for load cell and smart sensor
- Range 34.5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

## Dollies

Several dolly sizes are available: 10, 14, 20, and 50 mm.

The larger surface area dolly provides improved low range repeatability.

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

Cat. No.	Description
0032	Adhesive Kit
0035	Accessory Kit 50 mm
5138	Dolly Set 10 mm
0030	Dolly Set 20 mm
5139	Dolly Set 14 mm
0031	Dolly Set 50 mm
0033	Cutting Tool, 50mm
0036	Cutting Tool, 14mm
5141	PosiTest Verifier Kit

### Accessories

Includes adhesive, mixing sticks, palettes, cotton swabs
Includes 50 mm stand-off, hole saw, and test dollies (12)
set of 10pcs
set of 10pcs
set of 10pcs
set of 4pcs
For 50 mm dollies
For 14 mm dollies
Includes load cell, smart sensor, certificates, carry case, AC adapter