

PosiTest® Pull-Off Adhesion Testers

AT Series Measures the force required to pull a specified test diameter of coating away from its substrate using hydraulic pressure.

Conforms to international standards including ASTM D4541/D7234, ISO 4624/16276-1, AS/NZS 1580.408.5 and others



Features

All Model Features



- Environmentally sealed enclosure - weatherproof, dustproof and shockproof - meets or exceeds IP65
- Inexpensive, single-use dollies eliminate cleaning for re-use and can be kept as a permanent record
- 10, 14, 20 or 50 mm dollies maximize capability and measurement resolution across a wide range of bond strengths
- Calibrated and certified to $\pm 1\%$ accuracy using a NIST traceable load cell
- Self-aligning aluminum dolly enables accurate measurements on smooth or uneven surfaces

PosiTest AT-A Automatic

- Electronically controlled hydraulic pump automatically applies smooth and continuous pull-off pressure. Greatly reduces user effort and the risk of influencing the pulling process
- User adjustable pull rate, pull limit and hold time
- Built-in rechargeable battery performs over 200 tests per charge.
- Continue testing with AC power while the battery recharges
- Internal memory stores maximum pull-off pressure, rate of pull, test duration, dolly size, pass/fail, the nature of fracture and user notes for 100,000 pulls in up to 1,000 batches
- New graphical display
- Compatible with PosiSoft desktop software, PosiSoft.net and PosiTector App
- PosiSoft USB Drive - stored readings and graphs can be accessed using universal PC/Mac web browsers or file explorers
- No software required
- WiFi technology wirelessly communicates with PosiSoft.net and downloads software updates
- Rubberized, shock absorbing grips also provide a stable, skid-resistant footing
- Impact and scratch resistant color touch screen with keypad for operation with or without gloves

PosiTest AT-Manual

- Manual hydraulic pump designed to apply smooth and continuous pressure with a single stroke
- Pull Rate Indicator to manually monitor and adjust the rate of pull
- Internal memory stores maximum pull-off pressure, rate of pull, test duration and dolly size for up to 200 pulls
- Compatible with PosiSoft desktop software
- New graphical display
- Compatible with PosiSoft desktop software, PosiSoft.net and PosiTector App
- PosiSoft USB Drive - stored readings and graphs can be accessed using universal PC/Mac web browsers or file explorers
- No software required
- WiFi technology wirelessly communicates with PosiSoft.net and downloads software updates
- Rubberized, shock absorbing grips also provide a stable, skid-resistant footing
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Technical Data

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Ordering Guide	20 mm Kit	50 mm Kit	50 mm ² Tile Kit (BS EN 12004-2)	50 mm C1583 Kit (ASTM C1583)
Automatic Models:	0.7 - 24 MPa 100 - 3500 psi 100 - 7550 N	0.4 - 3.8 MPa 50 - 560 psi 100 - 7550 N	0.4 - 3.033 MPa 50 - 440 psi 100 - 7550 N	0.4 - 3.8 MPa 50 - 560 psi 100 - 7550 N
Manual Models:	0.7 - 20 MPa 100 - 3000 psi	0.4 - 3.5 MPa 50 - 500 psi	0.4 - 2.585 MPa 50 - 375 psi	0.4 - 3.5 MPa 50 - 500 psi
Included Dollies:	Ø20 mm (qty 20) Aluminum	Ø50 mm (qty 8) Aluminum	50 mm ² Plate (qty 4) with threaded post Steel	Ø50 mm (qty 4) with > 25 mm thickness Steel
Typical Application:	Higher bond strength coatings on metals	Lower bond strength coatings on wood, concrete and plastic	Cementitious adhesive for tiles	ASTM C1583 Concrete surfaces and overlays
Cutting Tool:	20 mm hole saw	50 mm hole saw	-	50 mm diamond grit hole saw with arbor
Adhesive:	ResinLab EP11HT 2- Part Epoxy	ResinLab EP11HT 2- Part Epoxy	ResinLab EP11HT 2- Part Epoxy	ResinLab EP11HT 2-Part Epoxy [^]
Resolution:	0.01 MPa (1 psi)			
Accuracy:	±1% Full Scale			

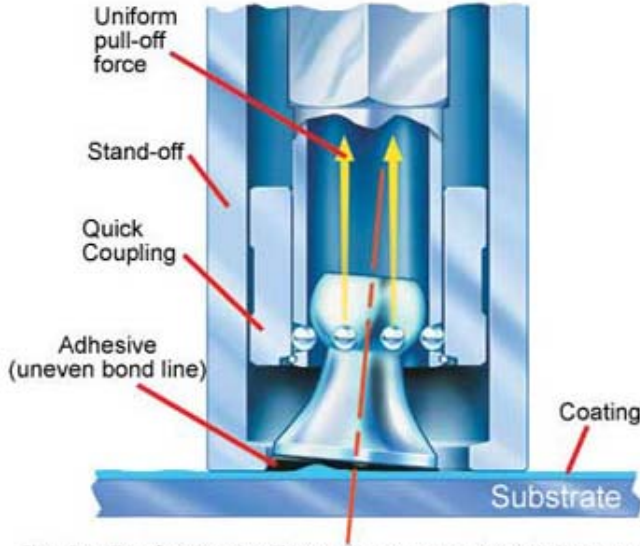
Test Dollies



The PosiTest® Adhesion Tester uses inexpensive single-use aluminum dollies designed according to internationally accepted standards and practices. Available with full 10, 14, 20 or 50 mm surface dimensions for different shapes and bond strengths.

The uniquely spherical articulating dolly head is engaged into a ring of small ball bearings, ensuring correct alignment. This feature is found only on the PosiTest® Adhesion Tester.

Self-Alignment Feature



The PosiTest® Adhesion Tester compensates for misalignment.

Unequal pulling force during testing caused by uneven adhesive bond lines and coating surfaces can result in random, unexplainable readings.

To obtain more repeatable and meaningful adhesion measurements, it is imperative that the pulling force applied to the test dolly is uniformly distributed over the surface being tested.

The Self-Aligning Dolly enables uniform distribution of the pulling force over the surface being tested, preventing a one-sided pull-off.

Digital LCD

Large, easy-to-read LCD displays pressure during measurement and holds maximum value

Low Battery indicator

Memory Mode icon indicates readings are in memory

On/Start prepares tester for next pull

One-Touch save feature stores and reviews readings in memory

Select dolly Size

Pull Rate Indicator to easily monitor and adjust the state of pull (psi/s or MPa/S)

Change measurement units



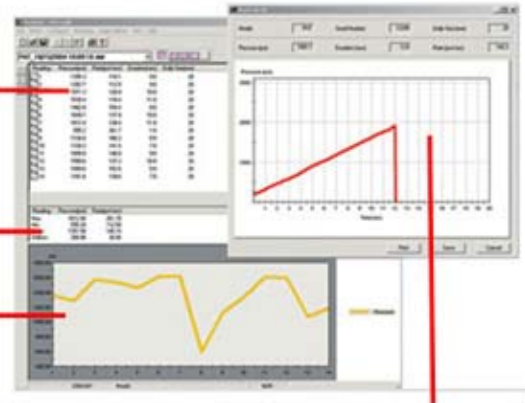
PosiSoft® Software (Free Download)

- Ideal solution for those who wish to download for printing or archiving
- Allows entry of notes & annotations
- Multi-language support including English, German, Italian, Spanish & French
- Exports to a document or spreadsheet

Displays pressure, rate, test duration and dolly size for up to 200 pulls

Calculates max, min, mean and standard deviation

Prints and displays charts and diagrams



Real-time graphing of individual pulls for a more detailed analysis of applied pressure over time

Options

- **50 mm Accessory Kit**
- Interchangeable standoff allows a PosiTest ATM20 or ATA20 to pull 50 mm dollies
- Ideal for lower bond strength finishes such as coatings on wood, concrete and plastic
- Larger surface area of dolly provides improved low range precision and repeatability
- Includes 50 mm stand-off, 50 mm hole saw and 50 mm aluminum test dollies (12)
- **20 mm Accessory Kit**
- Interchangeable standoff allows a PosiTest ATM50 or ATA50 to pull 10, 14 and 20 mm dollies
- Ideal for high bond strength finishes such as coatings on metal
- Includes 20 mm stand-off, 20 mm hole saw and 20 mm aluminum test dollies (20)



Accessory Kit



Dolly Multipack

- **500 mm² Accessory Kit**
- Ideal for measuring the tensile strength of ceramic tile cementitious, dispersion and reaction resin adhesives
- Conforms to BS EN 12004-2
- Includes 50 mm x 50 mm steel dollies (4), and 50 mm x 50 mm stand-off

- **50mm C1533 Accessory Kit**
- Ideal for measuring the tensile strength of concrete surfaces and concrete repairs and overlay materials
- Conforms to ASTM C1583
- Includes 50 mm C1583 steel dollies (4), 50 mm diamond grit cutting tool with arbor and 50 mm C1583 stand-off NOTE: Drill required (not included)

