PosiTest®
Pull-Off Adhesion Tester

Measures adhesion of coatings to metal, wood, concrete and other substrates – revolutionary self-alignment feature and pull rate indicator.

IP65

Available in 2 models...

Manual or Automatic

PosiTest **AT-A**
Automatic Adhesion Tester

DeFelsko®

The Measure of Quality

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

AT-A Automatic

Reach difficult areas with 5 ft (1.5 m) quality flex hose

Electronically controlled hydraulic pump automatically applies smooth and continuous pressure at a user-specified rate-of-pull

PosiTest AT-A
Automatic Adhesion Tester

DeFelsko

USB port for downloading

AC Adapter port charges batteries or powers instrument

Environmentally sealed, one-piece metal enclosure

Cutting tool for isolating test area

Self-aligning, quick-coupling secures dollies to actuator

Single-use, self-aligning dollies ensure even, consistent pull-offs

sales@calcert.com

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1.888.610.7664

Both Models Feature...

Simple
- Portable – requires no external power source – ideal for lab and field use
- Pull Rate Indicator allows operator to easily monitor and adjust the rate of pull in accordance with international test methods
- Easily select dolly sizes, change measurement units or store readings, with the touch of a button
- Conversion charts not required – tester automatically calculates pressure based on dolly size
- Inexpensive, single-use dollies eliminate cleaning for re-use and can be kept as a permanent record
- Each kit comes with everything needed for testing

Durable
- Environmentally sealed enclosure – weatherproof, dustproof and shockproof – meets or exceeds IP65
- Can be used in any position
- Rugged carrying case
- Two year warranty

Accurate
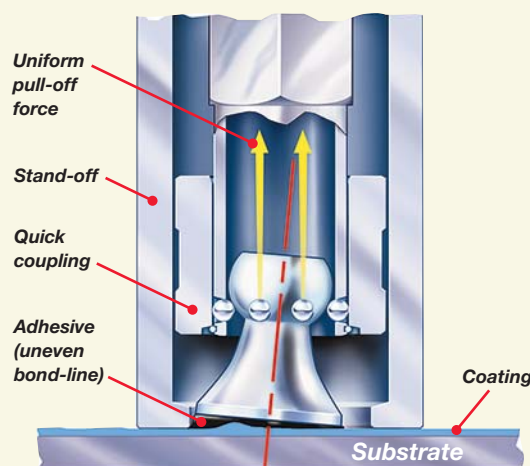- Every PosiTest Adhesion Tester pressure system is calibrated and certified to ± 1% accuracy using NIST traceable load cell
- Self-aligning aluminum dolly enables accurate measurements on smooth or uneven surfaces
- Hi-grade, industrial pressure sensor ensures continued accuracy
- Conforms to national and international standards including ASTM D4541/D7234, ISO 4624/16276-1, AS/NZS 1580.408.5 and others

Versatile
- Internal Memory stores maximum pull-off pressure, rate of pull, test duration and dolly size for up to 200 pulls
- Optional PosiSoft® software available for downloading
- 10, 14, 20 or 50 mm dollies maximize capability and measurement resolution across a wide range of bond strengths
- LCD displays pressure value in psi or MPa

Self-Alignment Feature
The PosiTest Adhesion Tester compensates for misalignment. The self-aligning, quick-coupling actuator and spherical articulating dolly head enable uniform distribution of the pulling force over the surface being tested, preventing a one-sided pull-off.

Uniform pull-off force

Stand-off

Quick coupling

Adhesive (uneven bond-line)

Coating

Substrate

PosiTest® **AT-M Manual** Adhesion Tester

AT-M Manual

- Heavy-duty manual hydraulic pump designed to apply smooth and continuous pressure with a single stroke
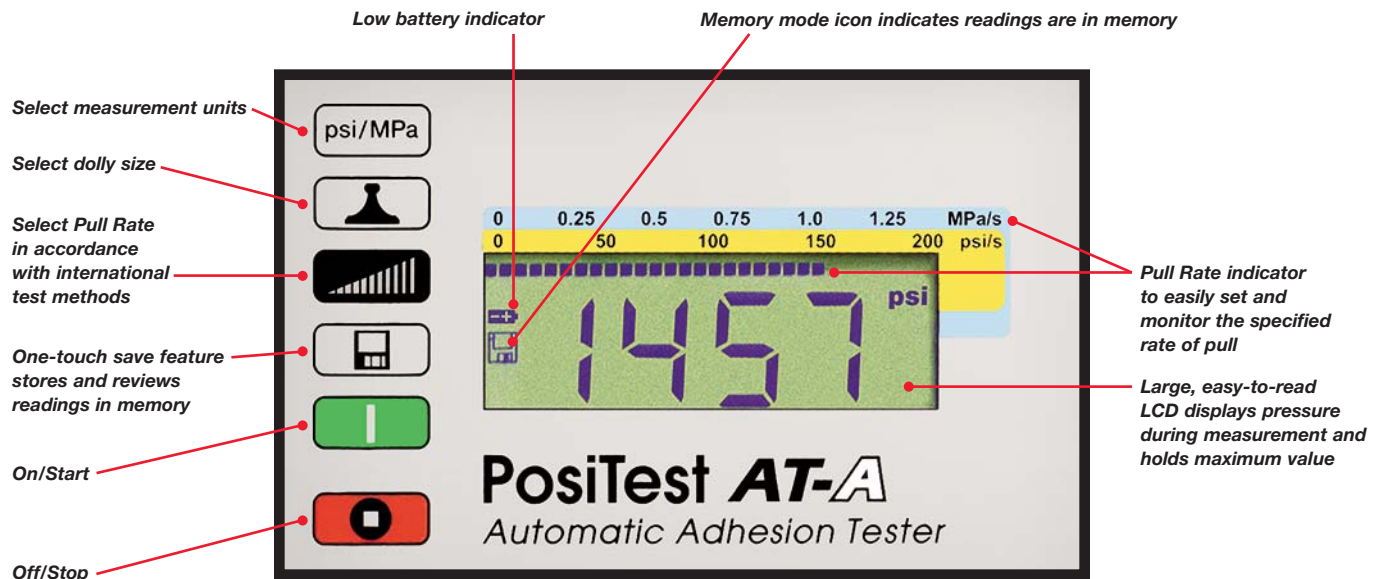- Pull Rate Indicator to manually monitor and adjust the rate of pull

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PosiTest® **AT-A Automatic** Adhesion Tester

- Electronically controlled hydraulic pump automatically applies smooth and continuous pull-off pressure at a user-specified rate
- Test with the simple push of a button. No twisting, pumping or cranking. No valves to close, needles to reset, or scales to adjust
- User selectable pull rates ensure compliance with international test methods for a variety of industries including metal, wood and concrete
- Built-in rechargeable batteries perform over 200 tests per charge. Continue testing with AC power while batteries recharge. Supplied with universal AC Adapter

AT-A Automatic
Rugged, portable instrument ideal for lab and field use

Low battery indicator

Memory mode icon indicates readings are in memory

Select measurement units — psi/MPa

Select dolly size

Select Pull Rate in accordance with international test methods

One-touch save feature stores and reviews readings in memory

On/Start

Off/Stop

Pull Rate indicator to easily set and monitor the specified rate of pull

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

PosiTest AT-A
Automatic Adhesion Tester

PosiTest AT-M Manual model

Specifications

Dolly Size (mm)*	20 mm
Resolution	1 psi (0.01 MPa)
Accuracy	± 1% Full Scale
Adhesion Strength**	100 – 3000 psi (0.7 – 20 MPa)

*Additional dolly sizes available to meet specific measuring needs – contact supplier for details. **Varies with dolly size
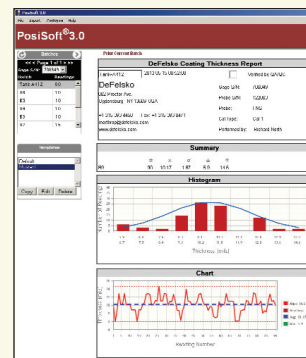
Both Kits include: Adhesion tester with digital display, built-in rechargeable NiMH batteries with charger, 20 mm aluminum test dollies (20), abrasive pad, cutting tool, adhesive with mixing sticks and palettes, cotton swabs, USB cable, downloadable PosiSoft Software, instruction booklet and video, Certificate of Calibration traceable to NIST, two-year warranty, and sturdy, lightweight carrying case

Kit Weight (with case): 13 lbs / 6 kg
Carrying Case Dimensions: L – 17 in / 43 cm x W – 13 in / 33 cm x H – 6 in / 15 cm

PosiSoft® 3.0 Desktop Software

- Import (download) measurement data via USB
- Customize reports by adding pictures, logos, screen captures, notes and more
- Measurement data is copied (imported) from the instrument to a user selectable location — ideal for storing and sharing data on a network or cloud drive
- Create custom layouts using a simple drag and drop Template Design toolbox; save layouts for future use
- Downloaded data is stored in comma-separated text files which can be easily imported into supporting applications such as documents, spreadsheets and databases

Options

50 mm Accessory Kit
- 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
- Range 0 – 500 psi (0 – 3.5 MPa)
- Includes 50 mm stand-off, 50 mm hole saw and 50 mm aluminum test dollies (12)

Drilling Template for 20 mm and 50 mm Dollies
- Drilling template and drill bits to isolate test area, ideal for thicker coatings on concrete

Adhesive Kit
- Additional adhesive, mixing sticks, palettes and cotton swabs

Dollies
- Additional supplies of 10, 14, 20 and 50 mm dollies

20 mm *10 mm* *50 mm*

DeFelsko®
The Measure of Quality

MADE IN THE USA

PosiTest® *AT* Verifier
Adhesion Tester Accuracy Verification Kit

Ideal for checking the accuracy and operation of adhesion testers and is an important component in fulfilling both ISO and in-house quality control requirements.

Features include...

- High precision load cell and handheld smart sensor indicator
- Peak hold and real time reading display
- Bonded foil strain gages are hermetically sealed for protection against industrial environments
- Ready to use with all PosiTest Pull-Off Adhesion Testers
- Ideal for field or laboratory use
- Fitted with a permanent steel 20 mm loading fixture (dolly). A conversion factor is used to verify other sizes.
- Portable — requires no external power source
- Comes with a Sample Certificate of Accuracy and Measurement Uncertainty Worksheet
- Certificates of Calibration showing traceability to NIST are included for both the load cell and smart sensor indicator
- One year warranty
- Made in USA

The PosiTest AT Verifier and included documents allow the user to certify the accuracy of adhesion testers in-house.

Handheld smart sensor indicator and high precision load cell

Range	0 - 5,000 psi
Resolution	1 psi
Accuracy*	$\pm$ 6.33 psi ($\pm$ 0.044 MPa)

* Worst case measurement system uncertainty. See included Measurement Uncertainty Worksheet for actual uncertainty.

Note: Device displays Imperial units only.

Shown with PosiTest AT-A (not included)

EASY OPERATION
Connect the adhesion tester's pull-off actuator to the PosiTest *AT* Verifier's loading fixture. Apply pressure using the adhesion tester's normal operating procedure. Compare values from the adhesion tester and the Verification Device.

DEVICE COMES COMPLETE with load cell, smart sensor indicator, built-in rechargeable Lithium Ion batteries with universal AC adaptor, instructions, Sample Certificate of Accuracy, Measurement Uncertainty Worksheet, hard shell carrying case, two (2) Certificates of Calibration traceable to NIST, one (1) year warranty.

CASE SIZE: 31 x 23 x 10 cm (12.3" x 8.8" x 3.9")

CASE WEIGHT: 3.44 kg (7.6 lbs.)

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