DeFelsko Corporation • 800 Proctor Ave. • Ogdensburg, New York 13669-2205 USA
Toll Free 1-800-448-3833 • Tel: +1-315-393-4450 • Fax: +1-315-393-8471
techsale@defelsko.com • www.defelsko.com

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Pelican Cases®

Heavy-duty, waterproof cases complete with custom foam insert to securely hold your instrument.

ORDERING GUIDE

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</tbody>
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* Upgrade to the Pelican Case by adding -P to the Ordering Code. ** Kits include everything needed to convert the adhesion tester to a different model. *** Kits include Qty. 12 450 mm dollies. --- ASTM C1583 specifies an ASTM C881 Type IV, Grade 3 epoxy. While the included ResinLab epoxy is suitable for many applications, it does not meet this specific requirement.

Options

Conversion Kits
Convert your adhesion tester to a different model with our choice of Conversion Kits. Choose from 20 mm, 50 mm, 50 x 50 mm Tile and 50 mm C1583 kits. Kits include the appropriate stand-off, holesaw (if applicable) and test dolly.

Adhesives

ResinLab EP11HT 2-Part Epoxy
ResinLab EP11HT 2-Part Epoxy
ResinLab EP11HT 2-Part Epoxy
ResinLab EP11HT 2-Part Epoxy

Dollies

Ø20 mm (qty 20) Aluminum
Ø15 mm (qty 8)/ Ø20 mm (qty 4) Aluminum
50 x 50 mm Plate (qty 4) with threaded post Steel
Ø50 mm (qty 4) with 25 mm thickness Steel

Resolution

0.01 MPa (1 psi)

Accuracy

±1% Full Scale

Conforms to international standards including ASTM C1583/D4541/D7234/D7522, ISO 4624/16276-1, EN 1543/12004-2, AS/NZS 1580.408.5 and others

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Measures the force required to pull a specified test diameter of coatings or material away from its substrate using hydraulic pressure

**Simple**

- **Portable** — requires no external power source - ideal for field or lab use
- Pull Rate Indicator allows operator to easily monitor and adjust the rate of pull in accordance with international test methods
- Easily select dollies, change measurement units or store readings with the touch of a button
- Conversion charts not required — tester automatically calculates pressure based on dollly or plate size
- Inexpensive, single-use dollies and plates 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
- Hard-shell carrying case included, with optional upgrade to a heavy-duty Pelican® case
- Two year warranty

**Accurate**

- Calibrated and certified to ±1% accuracy using a NIST traceable load cell.
- Certificate of Calibration showing traceability to NIST included
- Self-aligning dollies enable accurate measurements on smooth or uneven surfaces
- High-grade, industrial pressure sensor ensures continued accuracy
- Conforms to national and international standards including ASTM C1583/D4541/D7234/D7352, ISO 4624/16276-1, EN 1542/2004-2, AS/NZS 1800.406.5 and others

**Versatile**

- **NEW Select from four Stand-offs to meet your requirements**
- Internal memory stores maximum pull-off pressure, rate of pull, test duration and dollly size
- 10 mm, 14 mm, 20 mm, 50 mm, 50 mm x 50 mm Tile and 50 mm C1583 dollies maximize capability and measurement resolution across a wide range of bond strengths
- LCD displays pressure value in PSI, MPa and Newtons (10 mm, 14 mm, 20 mm, 50 mm x 50 mm, 50 mm C1583 dollies)
- Impact and scratch resistant color touch screen with keypad for operation with or without gloves
- User adjustable pull rate, pull limit and hold time
- Rotating display for horizontal and vertical use
- 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, dollly size, pass/fail, the nature of fracture and user notes for 100,000 pulls in up to 1,000 batches
- Compatible with PosiSoft desktop software, PosiSoft.net and PosiTest App
- PosiSoft USB Drive - stored readings and graphs can be accessed using universal PC/Mac web browsers or file explorers.
- No software required.
- Wi-Fi technology wirelessly communicates with PosiSoft.net and downloads software updates and allows access to stored measurement data using web browsers
- Rubberized, shock absorbing grips also provide a stable, skid-resistant footing

**Powerful**

- Sealed USB port for fast, simple connection to a PC
- Includes PosiSoft suite of software for viewing and reporting data
- Software Updates via web keep your instrument current

**Self-Alignment Feature**

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

**Select Manual or Automatic...**

**PosiTest AT-M 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 dollly size for up to 200 pulls
- Includes 20 mm aluminum dollies (20), 20 mm cutting tool and 20 mm stand-off
- Compatible with PosiSoft desktop software for viewing, printing and storing measurement data

**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.
- Impact and scratch resistant color touch screen with keypad for operation with or without gloves
- User adjustable pull rate, pull limit and hold time
- Rotating display for horizontal and vertical use
- 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, dollly size, pass/fail, the nature of fracture and user notes for 100,000 pulls in up to 1,000 batches
- Compatible with PosiSoft desktop software, PosiSoft.net and PosiTest App
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- No software required.
- Wi-Fi technology wirelessly communicates with PosiSoft.net and downloads software updates and allows access to stored measurement data using web browsers
- 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**

**Wirelessly connect the PosiTest AT-A to your smartphone using our free app**

- Add images and notes using camera and keyboard
- Create customized, professional PDF reports
- Share, backup, synchronize and report measurement data
- Auto-pairing Bluetooth (BLE) connection

**Select from four Stand-offs...**

**20 mm Kit**

- Ideal for measuring higher bond strength coatings on metals
- Can be used with optional 10 and 14 mm dollies
- Includes 20 mm aluminum dollies (20), 20 mm cutting tool and 20 mm stand-off

**50 mm Kit**

- **NEW Ideal for measuring the tensile strength of concrete surfaces and concrete repairs and overlay materials**
- 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)

**50 mm C1583 Kit**

- **NEW Ideal for measuring the tensile strength of concrete surfaces and concrete repairs and overlay materials**
- 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)

**50 x 50 mm Tile Kit**

- **NEW 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

**PosiTest AT-M with 50 mm C1583 Kit**

- Ideal for measuring the tensile strength of concrete surfaces, concrete repairs and overlay materials
- PosiTector AT-A Kit measures the tensile strength of concrete and fills repairs and overlay materials
- NOTE: Drill required (not included)

**PosiTector AT-A Automatic with 20 mm Kit Shown**

- Reach difficult areas with 6 ft. (1.5 m) quality flex hose
- Environmentally sealed, one-piece metal enclosure
- Single-use, self-aligning dollies ensure even, consistent pull-offs

**IP65**

- Self-aligning, quick-coupling secures dollies to actuator

**All Models Feature...**

- Electrically or manually controlled hydraulic pump applies smooth and continuous pressure at a user-specified rate-of-pull
- Impact and scratch resistant display with keypad for operation with or without gloves
- Color touch screen display (automatic only)
- USB port for downloading
- AC Adapter port charges batteries or powers instrument
- Environmentally sealed, one-piece metal enclosure
- Cutting tool for locating test area

For a complete list of product features and available options visit www.defelsko.com
PosiTest AT Series
Measures the force required to pull a specified test diameter of coatings or material away from its substrate using hydraulic pressure

All Models Feature...

Simple
- Portable — requires no external power source - ideal for field or lab 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 chart not required - tester automatically calculates pressure based on dolly or plate size
- Inexpensive, single-use dollies and plates 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
- Hard-shell carrying case included, with optional upgrade to a heavy-duty Pelican® case
- Two year warranty

Accurate
- Calibrated and certified to ±1% accuracy using a NIST traceable load cell.
- Certificate of Calibration showing traceability to NIST included
- Self-aligning dolly enables accurate measurements on smooth or uneven surfaces
- High-grade, industrial pressure sensor ensures continued accuracy
- Conforms to national and international standards including ASTM C1583, D4541/D7234, ISO 4624/16276-1, BS EN 12004-2, AS/NZS 1580.408.5 and others

Versatile
- NEW Select from four Stand-offs to meet your requirements
- Internal memory stores maximum pull-off pressure, rate of pull, test duration and dolly size for up to 200 pulls
- Conform to BS EN 12004-2
- NEW Ideal for measuring the tensile strength of concrete surfaces, concrete repairs and overlay materials
- NEW Ideal for measuring the tensile strength of concrete 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 tile kit

Powerful
- USB port for fast, simple connection to a PC
- Includes PosiSoft suite of software for viewing and reporting data
- Software Updates via web key per instrument current

For a complete list of product features and available options visit www.defelsko.com

Select Manual or Automatic...

PosiTest AT-M 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 for viewing,-printing and storing measurement data

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.
- Impact and scratch resistant color touch screen with keypad for operation with or without gloves
- User adjustable pull rate, pull limit and hold time
- Rotating display for horizontal and vertical use
- 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, passfail, the nature of fracture - cohesive, adhesive, and glue failures - using the app (left) or the instrument’s touch screen display (above)
- Impact and scratch resistant color touch screen with keypad for operation with or without gloves
-affles the ability to store readings with the touch of a button
- Auto-pairing Bluetooth (BLE) connection
- USB port for downloading
- EBPA allow for user defined data labels
- Indoor/Outdoor data DTI
- USB port for downloading
- EBPA allow for user defined data labels
- Indoor/Outdoor data
- Environmentally sealed, one-piece metal enclosure
- Self-aligning, quick-coupling secures dollies to actuator
- NEW Ideal for measuring the tensile strength of concrete surfaces, concrete repairs and overlay materials
- NEW Ideal for measuring the tensile strength of concrete 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 tile kit

Select from these Stand-offs...

PosiTest AT-M with 20 mm Kit
- 20 mm Kit
- Ideal for measuring higher bond strength coatings on metals
- Can be used with optional 10 and 14 mm dollies
- Includes 20 mm aluminum dollies (20), 20 mm cutting tool and 20 mm stand-off

PosiTest AT-A with 20 mm Kit
- 20 mm Kit
- Ideal for measuring higher bond strength coatings on metals
- Can be used with optional 10 and 14 mm dollies
- Includes 20 mm aluminum dollies (20), 20 mm cutting tool and 20 mm stand-off

PosiTest AT-M with 50 mm Kit
- 50 mm Kit
- NEW Ideal for measuring the tensile strength of concrete surfaces, concrete repairs and overlay materials
- Conforms to ASTM C1583 and EN 1542
- Includes 50 mm C1583 steel dollies (4), 50 mm diamond grit cutting tool with arbor and 50 mm C1583 stand-off
- NTE: Grit required (not included)

PosiTest AT-A with 50 mm Kit
- 50 mm Kit
- NEW Ideal for measuring the tensile strength of concrete surfaces, concrete repairs and overlay materials
- Conforms to ASTM C1583 and EN 1542
- Includes 50 mm C1583 steel dollies (4), 50 mm diamond grit cutting tool with arbor and 50 mm C1583 stand-off
- NTE: Grit required (not included)

PosiTest AT-SOT Kit
- 50 mm Kit
- Ideal for measuring the tensile strength of concrete surfaces, concrete repairs and overlay materials
- Conforms to ASTM C1583 and EN 1542
- Includes 50 mm C1583 steel dollies (4), 50 mm diamond grit cutting tool with arbor and 50 mm C1583 stand-off
- NTE: Grit required (not included)
**ORDERING GUIDE**

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<td>ATM50T 0.1 – 3.0 MPa 13 – 440 psi 220 – 7550 N</td>
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</tr>
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**Conversion Kit only**

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<tr>
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<td>-----</td>
<td>50 mm diamond drill hole saw with arbor</td>
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</tbody>
</table>

**Resolution**

0.01 MPa (1 psi)

**Accuracy**

±1% Full Scale

---

**Options**

**Conversion Kits**

Convert your adhesion tester to a different model with our choice of Conversion Kits. Choose from 20 mm, 50 mm, 50 x 50 mm Tile and 50 mm C1583 kits. Kits include the appropriate stand-off, hole saw (if applicable) and test dollies.

**Dollies**

Select from 10 mm, 14 mm, 20 mm, 50 mm, 50 mm C1583 and 50 x 50 mm tile dollies available in assorted quantities. Multipacks offer larger quantities at a reduced cost.

---

PosiTest AT Series

Pull-Off Adhesion Testers

Measures the adhesion of coatings to metal, wood, concrete and other rigid substrates.

Models available for conforming to ASTM C1583 (tensile strength of concrete overlays) and BS EN 12004 (cementsitious adhesives).

---

**Pelican Case**

(CASEATAB-P)

Heavy-duty, waterproof case complete with custom foam insert to securely hold your PosiTest AT-A.

**Glue Kit**

(GLUEKIT)

Additional glue, mixing sticks, palettes and cotton swabs.

**PosiTest AT Verifier**

(VERIFY)

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

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Adhesive testers include everything needed for testing: Adhesion Tester, built-in rechargeable NiMH battery with charger, dollies, abrasive pad, cutting tool, glue with mixing sticks and palettes, cotton swabs, USB cable, PosiSoft Software, instruction booklet, shoulder strap (AT-A only), Certificate of Calibration traceable to NIST, two-year warranty, and sturdy, lightweight carrying case.

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Conforms to international standards including ASTM C1583/D4541/D7234/D7522, ISO 4624/16276-1, EN 1542/12004-2, AS/NZS 1580.408.5 and others.