PosiTector® 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 (cementitious adhesives).

Available in Automatic or Manual models
Select from four Stand-offs to meet your requirements.

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

**Substrate**
- Using dolly or plate size

- Distribution of the pulling force over the surface being tested.
- Preventing a one-sided pull-off.

- Actuator and spherical articulation compensates for misalignment.

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.

**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 charts not required — tester automatically calculates pressure based on dolly or plate size.
- Intensive, 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.
- LCD displays pressure value in PSI, MPa and Newtons (10 mm, 14 mm, 20 mm, 50 mm, 50 x 50 mm Tile and 50 mm C1583 dollies)
- Conversion charts not required — tester automatically calculates pressure based on dolly or plate size.
- LCD displays pressure value in PSI, MPa and Newtons.
- 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.

**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.
- LCD displays pressure value in PSI, MPa and Newtons.
- 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.

**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.

**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 allows operator to easily 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, pass/fail, the nature of fracture and user notes for 100,000 pulls in up to 1,000 batches.
- 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 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 smart device 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.

For a complete list of product features and available options visit www.defelsko.com.
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**
- Ideal for measuring lower bond strength coatings on wood, concrete and plastic.
- Includes 50 mm aluminum dollies (8), 50 mm cutting tool and 50 mm stand-off

**50 mm C1583 Kit**
- NEW 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)

**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

All Models Feature...

- Electronically or manually controlled hydraulic pump applies smooth and continuous pressure at a user-specified rate-of-pull
- USB port for downloading
- AC Adapter port charges batteries or powers instrument
- Environmentally sealed, one-piece metal enclosure
- Self-aligning, quick-coupling secures dollies to actuator
- Cutting tool for isolating test area
- Single-use, self-aligning dollies ensure even, consistent pull-offs
- Reach difficult areas with 5 ft. (1.5 m) quality flex hose
- Impact and scratch resistant display with keypad for operation with or without gloves
- Color touch screen display (Automatic only)
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PosiTest AT-A Automatic with 20 mm Kit shown

PosiTest AT-M with 50 mm C1583 Kit

PosiTest AT 50T KIT converts the adhesion tester to measure the tensile strength of ceramic tile adhesives.

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

Ideal for measuring lower bond strength coatings on wood, concrete and plastic.
- Includes 50 mm aluminum dollies (8), 50 mm cutting tool and 50 mm stand-off

NEW 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)

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

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- Conforms to BS EN 12004-2
- Includes 50 mm x 50 mm steel dollies (4), and 50 mm x 50 mm stand-off

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

Ideal for measuring lower bond strength coatings on wood, concrete and plastic.
- Includes 50 mm aluminum dollies (8), 50 mm cutting tool and 50 mm stand-off

NEW 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)

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

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

Ideal for measuring lower bond strength coatings on wood, concrete and plastic.
- Includes 50 mm aluminum dollies (8), 50 mm cutting tool and 50 mm stand-off

NEW Ideal for measuring the tensile strength of concrete surfaces and concrete repairs and overlay materials
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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
### Pelican Cases

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

**ORDERING GUIDE**

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<th>Automatic Models with protective case*</th>
<th>Conversion Kit only**</th>
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<td>AT20KIT</td>
</tr>
<tr>
<td>ATM50 0.4 – 3.3 MPa 50 – 440 psi</td>
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<td>ATM50T 0.4 – 2.585 MPa 50 – 440 psi</td>
<td>ATA50T 0.4 – 3.033 MPa 50 – 440 psi</td>
<td>AT50TKit</td>
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<tr>
<td>ATM50C 0.4 – 3.3 MPa 50 – 440 psi</td>
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**Manual Models with protective case**

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### Manual Models

**Models**

- **ATM20**: 0.7 – 20 MPa, 100 – 3000 psi
- **ATM50**: 0.4 – 3.3 MPa, 50 – 440 psi
- **ATM50T**: 0.4 – 2.585 MPa, 50 – 440 psi
- **ATM50C**: 0.4 – 3.3 MPa, 50 – 440 psi

**Specifications**

- Resolution: 0.01 MPa (1 psi)
- Accuracy: ±1% Full Scale

**Included Items**

- NiMH battery with charger
- Dollies
- Adhesive
- Cutting tool
- Shoulder strap (AT-AT only)

**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**
  - 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.
- **Adhesive**
  - ResinLab EP11HT 2-Part Epoxy
- **Cutting Tool**
  - 20 mm hole saw
  - 50 mm hole saw
- **Glue Kit**
  - ResinLab EP11HT 2-Part Epoxy
- **PosiTest AT Verifier**

**ELECTROMATIC Equip’t Co., Inc.**

600 Oakland Ave, Cedarhurst, New York 11516 – USA

Tel: 800-645-4330 / 516-295-4300 Fax: 516-295-4399 Web: CheckLine.com Email: info@CheckLine.com

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