

Adhesive Peel Tester

This is multi-purpose instrument designed to test :

1. Adhesive Test :
 - 180° Peel Strength Test
 - 90° Peel Strength Test
 - Loop Tack Test
 - Unwind Force Test / Roll Peel Test
 - Release Force Test
2. Seal Strength Test of Heat Seal Joints of Pouches

Technical Specifications :

- Digital Model with Backlit LCD Display
- Capture test data on to the PC directly through the software and generate PDF test & calibration reports.
- Inter-Changeable Testing Fixtures.
- Peak hold facility for maximum load and deflection
- **Auto-Calibration facility for user-friendly calibration.**
- Choice of Measurement units : Kgf / gf / Lbf / N (User settable from Menu)
- Actuator Length : 750mm (Usable Stroke : 600mm)

Included with all models / SKUs :

- 1) Basic Machine with Mounts for Testing Fixtures.
- 2) Calibration Weight with Hook.
- 3) 4.5 lbs Rubber Roller and 25mm Sample Cutter (Dual Blade Type)

Excludes :

- 1) Testing Fixtures (to be ordered separately)

DQ/IQ/OQ Documentation are supplied with certain models.

RS-232 Data Cable with USB-Serial Converter are supplied with all models / SKUs.

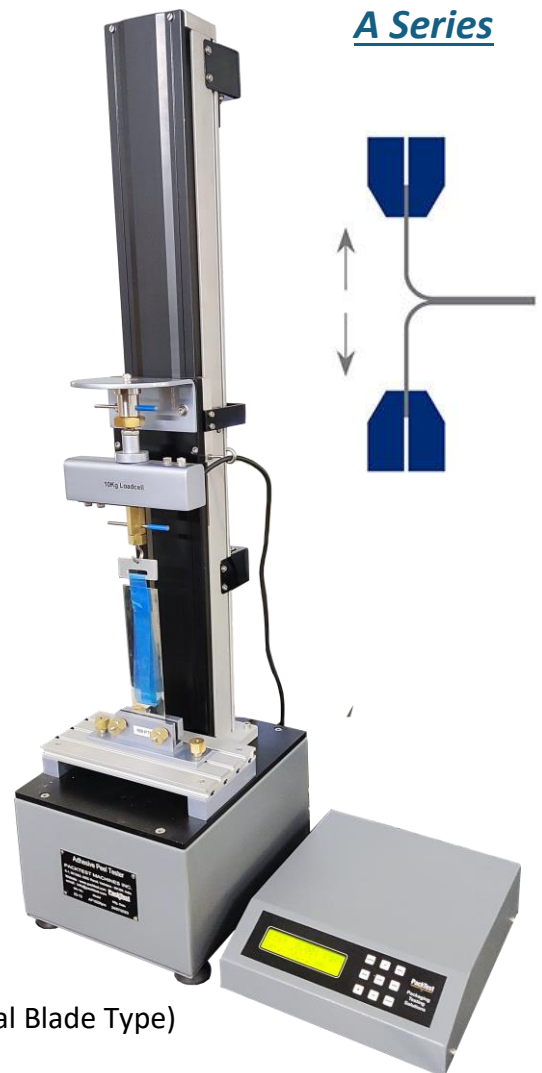
Software Options :

- 1) Regular Software (Not 21-CFR-11 Compliant)
- 2) 21-CFR-11 Compliant Software (*Vantage*).

Warranty : 12 Months (Ex-Factory)

Utilities Required :

1. Power Supply (Current : Max 5 Amps) :
 1. For India (Domestic Model) : 230 Volts A.C., 50 Hz. Clean power.
 2. For Outside India (Export Model) : As per your country's power rating.
2. Desktop / Laptop PC (Intel Core i3, 4gb RAM, Win10 OS, 1080p Monitor) or higher.



How to Order ?

Step 1 : Choose Capacity of the loadcell.

Loadcell Selection	Unit	1	5	10
Capacity :	Kgf	1	5	10
	gf	1000	5000	10000
	N	9.8	49	98
	Lbf	2.2	11	22
Working Range :	% of Cap.	0.5 – 100	0.5 – 100	0.5 – 100
	Kgf	0.005 – 1	0.025 – 5	0.05 – 10
	gf	5 – 1000	25 – 5000	50 – 10000
	N	0.05 – 9.8	0.245 – 49	0.49 – 98
	Lbf	0.01 – 2.2	0.055 – 11	0.11 – 22
Least Count :	Kgf	0.0001	0.0005	0.001
	gf	0.1	0.5	1
	N	0.001	0.05	0.1
	Lbf	0.0002	0.001	0.002
Accuracy :	% of Cap.	0.2%	0.2%	0.2%
	Kgf	0.002	0.01	0.02
	gf	2	10	20
	N	0.0196	0.098	0.196
	Lbf	0.0044	0.022	0.044

Step 2 : Select Part Number / Equipment SKU

Region Options	Industry Options	-	Equipment - Series	Loadcell Capacity (Kgf) Options	-	Software Options
D	N		APT - A	1		RS
E	P			5		CS
				10		

	Options	Description
Type	D	Domestic Model For Sale in India only. Warranty / Support valid only in India
	E	Export Model for Sale outside India only. Comes with a set of emergency spares. International Quality / Warranty / Support.

Industry	N	For Food / Beverage / FMCG Industry. Non-Pharma.
	P	For use in Pharmaceutical Industry. DQ/IQ/OQ documents are provided with machine.

Equipment - Series	APT – A	Adhesive Peel Tester for Adhesive Test Applications.
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Loadcell	1 / 5 / 10	1 Kgf / 5 Kgf / 10 Kgf
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Software	RS	Regular software. (Not 21-CFR-11 compliant) RS-232 Data Cable with USB-Serial Converter is provided.
	CS	21-CFR-11 compliant software. (<i>Vantage</i>). RS-232 Data Cable with USB-Serial Converter is provided.

Write down the part code / SKU you need :

Region	Industry	-	Equipment - Series	Loadcell Capacity (Kgf)	-	Software
			APT-A			

You can also use the [product selector](#) on our website and send us an enquiry directly from there.

Step 3 : Select Test Fixtures

Below Fixtures / Accessories are INCLUDED in the machine by default.

Sr	Item Name	Description
1	4.5 Lbs Rubber Coated Roller	Used for Sample Fixing on 180° and 90° Peel Test Module
2	25 mm Sample Cutter	Dual Blade type Sample Cutter to prepare 25mm wide samples.

Below Fixtures are optional and need to be ordered separately.

Sr	Item Name (SKU)	Description
1	180 PTM (TF-APT-180PTM)	180° Peel Test Module Consisting of : 1) Top Hook (1 pc) 2) Loop Clip (2 pcs) 3) SS Test Panels (2x8 inches) (2 pcs) 4) Glass Test Panels (2x8 inches) (2 pcs) 5) Panel Holder (1 pc)
2	90 PTM (TF-APT-90PTM)	90° Peel Test Module Generally used in cases where the Adhesive is stronger than the substrate and cannot be tested suitably by the 180° method. Consisting of : 1) Top Hook (1 pc) 2) Loop Clip (2 pcs) 3) SS Test Panels (3x9 inches) (2 pcs) 4) Glass Test Panels (3x9 inches) (2 pcs) 5) Sliding Panel Holder (1 pc)
3	Loop Tack (TF-APT-LTT)	Loop Tack Test Module Consisting of : 1) Top Grip (1 pc) 2) SS Test Panels (1x6 inches) (2 pcs) 3) Panel Holder (1 pc)

4	Unwind Force (AT-APT-UFT)	Unwind Force Test Module Consisting of : 1) Top Hook (1 pc) 2) Loop Clip (2 pcs) 3) Tape Roll Holder (3 Inch ID cores) (1 pc)
5	Release Force (AT-APT -RFT)	Release Force Test Module (to be used along with 180 PTM Module) Consisting of : 1 Kgf (~10N) Capacity Addon-Loadcell Applicable only for 10 Kgf Machine. Not for 1 or 5 Kgf machines.
6	TG-SK (TF-APT-TG-SK)	Tensile Grip – Single Knob Type. Set of Top + Bottom Grip. for Seal Strength Test on Pouches for Thin flexible material. Max Load : 8 Kgf (~80 N) force.
7	TG-DK (TF-APT-TG-DK)	Tensile Grip – Double Knob Type. Set of Top + Bottom Grip. for Seal Strength Test on Pouches for Thin or Thick material. Max Load : Should not exceed machine / loadcell capacity.

Visit us at www.PackTest.com




Manufactured by :

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Marketed by :

Sr No.	Feature	Regular Software (Not 21-CFR-11 Compliant)	Vantage Software (21-CFR-11 Compliant) 
1	User Login	No Login. Any user can access the software.	<p>Unlimited Users with individually configurable privileges</p> <p>Incorrect Logins are logged. If user enters 3 wrong passwords, user is SUSPENDED and cannot login again even with correct password. Event is logged as Critical. Only an admin (or user with appropriate privileges can Un-Suspend the suspended user.</p> <p>Auto - Logout after 15 mins of inactivity. (Timeout period can be defined)</p> <p>Auto - Shutdown (software) on inactivity. (Auto-Logout will also trigger Auto-Shutdown)</p>
2	User Rights / Privileges	Any user can : 1) Perform Test 2) Search Test 3) Calibrate Machine 4) Configure Software	<p>Software Admin or any user (with Modify user privileges) can create unlimited users with any of following privileges.</p> <ol style="list-style-type: none"> 1) Perform Test 2) Search Test 3) Calibrate Machine 4) View Audit Trail 5) Add / Edit / Delete users (User Management privilege) 6) Configure Software 7) Review and Approve Test / Calibration reports
3	User Levels	NA	<p>Unlimited Users with Unlimited variable privileges. User List (summary or detailed) can be printed.</p>
4	Software Configuration Options	1) Change Header	<ol style="list-style-type: none"> 1) Change Test Folder 2) Change Backup Folder 3) Set Auto Backup On/Off 4) Set Auto Backup Frequency 5) Set Password Expiry On/Off 6) Set Password Expiry Time (Days) 7) Change Header
5	User Password Expiry / Change	NA	<p>Upon user first login, user has to change password immediately.</p> <p>User can change his/her own password anytime.</p> <p>Users must change password after expiry date.</p> <p>Password expiry time can be defined in software config.</p>

6	Password Complexity	NA	<p>Password should be</p> <ol style="list-style-type: none"> 1) 8-20 characters long 2) Has to contain alphabets, numbers and &%#\$@. 3) Password should contain atleast 1 uppercase, 1 lower case and 1 special character 4) New password cannot be same as previous 3 passwords.
7	User Addition / Deletion	NA	<p>User can be added or deleted by Software Admin or anyone who has User Management privilege. User cannot delete himself. No one can delete the SUPER USER.</p>
8	User Suspension	NA	<p>User can be suspended/un-suspended by Software Admin or anyone who has User Management privilege. Suspended user cannot login to software. If he tries to login, a Critical Audit Trail entry will be passed.</p>
9	Data Storage	NA	<p>Data is stored in an internal database. PDF reports are generated as and when demanded.</p>
10	User Signature	User must type or select his / her name when the software starts.	<p>User's details captured from the login is posted on the report "analysis done by" section.</p>
11	Reviewer Signature	NA	<p>Reviewer can login with his credentials, review and approve Test and Calibration Data. Once approved, the report will carry his E-Sign.</p>
12	Backup Data	NA	<p>If Autobackup is ON, software will automatically backup all configuration files and test data as per frequency chosen in Software Configuration.</p> <p>Note : Backup Location has to be a local drive or a network location mapped as a Local Drive.</p>
13	Audit Trail Data	NA	<p>Software captures important events and logs them in the audit trail log. A PDF report can be generated as and when required. Critical Events will be flagged separately. Audit Trail Report can be pulled for a date range or user or event.</p>

14	Aborted Tests / Calibrations	NA	Aborted Tests and Calibrations are saved. These events are logged in Audit Trail as "Critical".
15	Ignore a Test Value	NA	<p>No test result can be avoided from being reported. But the user can mark a particular result as abnormal.</p> <p>Abnormal results are not considered in statistical calculations but will still be shown in report.</p> <p>User needs to justify the Abnormal values (if any) in the remarks section.</p> <p>A test report can have 10 normal samples + up to 5 abnormal samples.</p> <p>Only normal tests will be used for statistical calculations.</p>
16	Test / Calibration Report Format	Report Format is fixed in software. Not changeable by user.	
17	Report Header	Text Header with 3 lines of Text.	Image Header with Logo or Text Header with 3 lines of Text.
18	Other Features	NA	<p>Incorrect Shut Downs are logged in Audit Trail.</p> <p>Equipment ID is printed on all Test / Calibration / Audit Trail Reports</p> <p>Automatic Pre-Calibration Diagnostics of communication.</p> <p>Option of Pre-Analysis Diagnostics (10-15 seconds) to prevent communication errors.</p> <p>Enhanced data handling and communication with equipment.</p>

