

Pouch Compression Tester

(Static + Dynamic Load Tester)

P Series

Suitable to test Liquid Filled pouches for :

1) Dynamic Load Test (Destructive Mode)

Test Type : Press till failure

In this method, the sample is compressed with increasing force until the pouch bursts.

2) Static Load Test (Non-Destructive Mode)

(Also known as : Pressure Decay Test)

Test Type : Press till Load Setpoint. Hold till Time Setpoint.

In this method, the sample is compressed up to the Load setpoint pre-set by the user.

The applied force is held on the pouch for some time (pre-set by the user).

After the time elapses, the machine automatically returns to the original position.

However, if the pouch bursts before the set-point is achieved, then this becomes a destructive test.

The machine automatically stops on sample failure or when the preset-load-time is achieved. Whichever is earlier.



Note : The Static Load Test is done as per test specifications detailed in point # 4.1.2 of Chapter 4 of the “Flexible Retort Pouch Defects – Identification & Classification” by the [Canadian Food Inspection Agency](#).



As per Canadian Food Inspection agency, retort pouches should comply with the static load burst test. You will have to press the pouch with a force of 7.5 kg per 15mm of inner seal perimeter and hold this force for 15 seconds. If the pouch leaks or bursts or even if the seals show signs of stress during this period, the batch is considered failed.

Technical Specifications :

- Digital Model with Backlit LCD Display
- Safety Shield Cabinet with interlock. Machine will not operate if safety shield door is open.
- Electro-Pneumatic Model (Runs on Compressed Air)
- Auto-stop upon completion of Test.
- Testing Principle : Constant Rate of Loading
- Optional facility to capture test data on to the PC directly through the software and generate PDF test & calibration reports.
- Peak hold facility for registration of maximum compression force.
- **Auto-Calibration facility for user-friendly calibration.**
- Choice of Measurement units : Kgf / Lbf / N (User settable from Menu)

Safety Features :

Safety Shield Cabinet (Extruded Aluminium Structure) with Interlock

- A cabinet will enclose the moving part of the machine.
- All sides of the cabinet will have transparent Acrylic for natural illumination / visibility.
- The front door will have a magnetic latch or microswitch.
- Sample can be placed or removed by opening the front safety door.
- If the door is not closed completely, the machine will **NOT START**.
- If someone opens the door in the middle of the test sequence, the machine will stop and reverse automatically.

Included with all models / SKUs :

- 1) Safety Shield Cabinet with interlock
- 2) Air Filter + Pressure Regulator.
- 3) Zip-Lock pouches to contain spillovers during testing.

DQ/IQ/OQ Documentation are supplied with models specific for Pharmaceutical Companies.

RS-232 Data Cable with USB-Serial Convertor are supplied with models / SKUs with software.

Software Options :

- 1) No Software
- 2) Regular Software (Not 21-CFR-11 Compliant)
- 3) 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. Compressed Air @ 6 bar (87 psi)

For models with software

3. Desktop / Laptop PC (Intel Core i3, 4gb RAM, Win10 OS, 1080p Monitor) or higher.



Pouch Compression – Large Size

How to Order?

Step 1 : Choose Capacity of the loadcell.

Loadcell Selection	Unit	500	1000	1500
Capacity :	Kgf	500	1000	1500
	N	4900	9800	14700
	Lbf	1100	2200	3300
Working Range :	% of Cap.	10 – 100	10 – 100	10 – 100
	Kgf	50 – 500	100 – 1000	150 – 1500
	N	490 – 4900	980 – 9800	1470 – 14700
	Lbf	110 – 1100	220 – 2200	330 – 3300
Least Count :	Kgf	0.5	1	1
	N	5	10	10
	Lbf	1	2	2
Accuracy :	% of Cap.	0.2%	0.2%	0.2%
	Kgf	10	20	30
	N	100	200	300
	Lbf	20	40	60
Calibration Weight Required :		50 Kgs (20 + 20 + 10)	100 Kgs (20 kg x 5 pcs)	100 Kgs (20 kg x 5 pcs)

Step 2 : Choose Platform Size.

Platform Size	Dimensions	Max Pouch Size
S – Small Available in only with 500 Kgf Loadcell option.	200 x 200 mm ~ 8 x 8 inch	200 x 200 mm ~ 8 x 8 inch
M – Medium Available in only with 1000 Kgf Loadcell option.	300 x 200 mm ~ 12 x 8 inch	300 x 200 mm ~ 12 x 8 inch
L – Large Available in all Loadcell options. (500/1000/1500)	400 x 400 mm ~ 16 x 16 inch	400 x 400 mm ~ 16 x 16 inch

Step 3 : Select Part Number / Equipment SKU

Region	Industry	-	Equipment	-	Series	Loadcell	-	Size	-	Software
D	N		PCT		P	500		S or L		NS
E	P					1000		M or L		RS
						1500		L		CS

	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	PCT-P	Pouch Compression Tester – P Series
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Loadcell	500 / 1000 / 1500	500 Kgf / 1000 Kgf / 1500 Kgf
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Size of Platform	S or M or L	200 x 200mm or 300 x 200mm or 400 x 400mm
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Software	NS	No Software. No RS-232-Port. No Data Cable.
	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	-	Size	-	Software
			PCT		P					

Select the Equipment Part Code (SKU) and request for a quotation by sending an email to info@packtest.com

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

Visit us at www.PackTest.com




Manufactured by :

PackTest Machines Inc

K-1, 601/2&3, GIDC Ranoli
Vadodara - 391350 Gujarat. India.

Email : info@packtest.com

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 the 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 Shutdowns 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>

