

## Bottle Compression Tester

## M Series

An equipment to test the top load carrying capacity of Small Bottles.

### **Technical Specifications :**

- Digital Model with Backlit LCD Display
- Electro-Mechanical Model
- Ball Screw based Actuator for extremely low friction.
- Negligible maintenance needed.
- Table Top Model.
- Auto-stop upon completion of Test.
- Testing Principle : Constant Rate of Deflection
- With software to capture test data on to the PC directly and generate PDF test & calibration reports.
- Peak hold facility for maximum compression force.
- Deflection measurement with 0.1 mm resolution.
- **Auto-Calibration facility for user-friendly calibration.**
- Choice of Measurement units : Kgf / Lbf / N  
(User settable from Menu)

**Test Speed :** 10 – 500 mm/min (user settable)

**Jog / Rev Speed :** 250 mm/min

**Test Sample Diameter :** 10 – 100 mm

**Test Sample Height :** 50 – 300 mm



**DQ/IQ/OQ Documentation are supplied with pharma-specific models.**

**RS-232 Data Cable with USB-Serial Convertor 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) :
  - A. For India (Domestic Model) : 230 Volts A.C., 50 Hz. Clean power.
  - B. For Outside India (Export Model) : As per your country's power rating.
2. Calibration weights.
3. Desktop / Laptop PC (Intel Core i3, 4GB RAM, Win10 OS, 1080p Monitor) or higher specs.

## How to Order?

### Step 1 : Choose Capacity of the loadcell.

Loadcell Selection	Unit	20	50
<b>Capacity :</b>	Kgf	20	50
	N	196	490
	Lbf	44	110
<b>Working Range :</b>	% of Cap.	10 – 100	10 – 100
	Kgf	2 – 20	5 – 50
	N	19.6 – 196	49 – 490
	Lbf	4.4 – 44	11 – 110
<b>Least Count :</b>	Kgf	0.002	0.005
	N	0.02	0.05
	Lbf	0.005	0.01
<b>Accuracy :</b>	% of Cap.	0.2%	0.2%
	Kgf	0.04	0.1
	N	0.4	1
	Lbf	0.09	0.22
<b>Calibration Weight Required :</b>		5 Kgs	5 Kgs

**Step 2 : Select Part Number / Equipment SKU**

<b>Region</b>	<b>Industry</b>	-	<b>Equipment</b>	-	<b>Series</b>	<b>Loadcell</b>	-	<b>Software</b>
D	N		BOT		M	20		RS
E	P					50		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.

<b>Equipment - Series</b>	BOT – M	Bottle Compression Tester – M Series
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Loadcell	20	20 Kgf
	50	50 Kgf

Software	RS	Regular software. (Not 21-CFR-11 compliant) RS-232 Data Cable with USB-Serial Convertor is provided.
	CS	21-CFR-11 compliant software. ( <i>Vantage</i> ). RS-232 Data Cable with USB-Serial Convertor is provided.

Write down the part code / SKU you need :

<b>Region</b>	<b>Industry</b>	-	<b>Equipment</b>	-	<b>Series</b>	<b>Loadcell</b>	-	<b>Software</b>
			BOT		M			

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


Visit us at [www.PackTest.com](http://www.PackTest.com)



Manufactured by :  
**PackTest Machines Inc**  
 K-1, 601/2&3, GIDC Ranoli  
 Vadodara - 391350 Gujarat. India.  
 Email : [info@packtest.com](mailto: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"> <li>1) Perform Test</li> <li>2) Search Test</li> <li>3) Calibrate Machine</li> <li>4) View Audit Trail</li> <li>5) Add / Edit / Delete users (User Management privilege)</li> <li>6) Configure Software</li> <li>7) Review and Approve Test / Calibration reports</li> </ol>
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"> <li>1) Change Test Folder</li> <li>2) Change Backup Folder</li> <li>3) Set Auto Backup On/Off</li> <li>4) Set Auto Backup Frequency</li> <li>5) Set Password Expiry On/Off</li> <li>6) Set Password Expiry Time (Days)</li> <li>7) Change Header</li> </ol>
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"> <li>1) 8-20 characters long</li> <li>2) Has to contain alphabets, numbers and &amp;#%\$@.</li> <li>3) Password should contain atleast 1 uppercase, 1 lower case and 1 special character</li> <li>4) New password cannot be same as previous 3 passwords.</li> </ol>
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>

