

### **Closure Torque Tester**

This is an instrument designed to test :

- 1) Opening Torque of Screwed Closures.
- 2) Breaking strength of Pilfer-proof ROPP caps.

#### **Salient features:**

- 1) Good gripping power.
- 2) Peak Hold Facility for freezing of Max. Reading.
- 3) A Dead Weight type Calibration System provided on the equipment.
- 4) Auto-Calibration facility.
- 5) Multiple Measuring Units : Kgcm, Lbin, NM.

**Capacity :** 50 Kgcm with Least count of 0.01 Kgcm

#### **Benefits to the industry:**

On Automatic Production line involving Auto-Capping operation, this Equipment will help to set the machine for the Optimum Closing and Subsequent Opening Torque.

This will also help in designing the suitable Thread Profile of Plastic Caps for Plastic Bottles as well as for Glass Bottles.

Closing Torque is an important test for Pharmaceutical applications.

Opening Torque is a prime requirement from the User's point of view.



**Extra High Torque means extra effort by the consumer to open a bottle / jar.**

**Extra Low Torque means - loose caps. Causing spillage and leakage due to transit vibrations.**

Every product has to be designed with an Optimum Torque Value taking into consideration its end use. This Optimum Torque Value will lead to an Optimum Closing Torque which needs to be adjusted on your capping machine to give consistent performance of your package.

Emphasis on the Torque Values during Design & Development stages can easily predict Market Acceptability and Performance of your package.

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

## Models Available :

### Model # M50

Standard model with Manual Rotation of sample.

Digital Model with Backlit LCD Display for easy readability.

Suitable to test :

- Opening & Closing Torque of regular Screwed Closures.
- Opening & Closing Torque of Push-n-Twist (Child Resistant) Closures.
- Hinge-Twist test on Flip Top Caps.

With Universal Grip to enable hold bottle samples 25 - 125mm OD.

(Larger grips options are also available at additional cost).

Peak hold facility for registration of maximum closing / opening torque.

**Auto-Calibration facility for user-friendly calibration at site.**

Capacity : 0 - 50 Kgcm (0 - 43 Lbin)

Least count : 0.01 Kgcm (0.01 Lbin)

Accuracy : 0.25 Kgcm (0.5% of capacity) (0.22 Lbin)

Choice of Measurement units : Kgcm / Lbin / Nm / Ncm (User settable from Menu)

#### **Includes :**

- 1) Basic Machine
- 2) Calibration Kit with Pan

#### **Excludes :**

- 1) Calibration weights (0.5 + 0.5 + 1 + 1 Kg = Total 3 Kg)

#### **Optional :**

##### **Addon Fixture for Small Dia bottles (10-25mm)**

Please specify min-max size of your bottles.

##### **Addon Fixture for Large Dia bottles (125-200 mm)**

Please specify min-max size of your bottles.

#### **Squeeze Tube Mandrels / Inserts**

Individual mandrels are required for every specific Inner Diameter

Please specify diameter of the tube while ordering.

Suitable for testing of Laminated / Co-Extruded / Aluminum Collapsible Tubes.

#### **Utilities Required :**

- a) Power : 230/110 Volts A.C., 50/60 Hz. Clean power.
- b) Calibration weights : 3 Kg (0.5 + 0.5 + 1 + 1 Kg)

#### **IQOQ Documentation Set available for Pharmaceutical companies**

*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 :



## Models Available :

### Model # M50R

#### **RS-232 (PC) Port model with Manual Opening of Sample.**

Can be used with or without PC like the standard M50 model.

All basic features/specs/accessories are same as Model M50.

### **Software Options :**

- **TorqueView Software**

Facility to collect Torque Test data directly to PC and generate Report (PDF)

Test Report will contain up to 20 test results and statistical analysis (Max, Min, Avg)

Direct PDF output. Only Adobe Acrobat Reader (free) is required on the PC.

Software can even be customized as per your requirement for an extra charge.

- **TorqueView Pro Software**                      **21-CFR-11 compliant.**

- All features of the basic TorqueView Software, plus the below features.
- Unlimited users with individually configured permissions.
- You can add/edit/delete/suspend users.
- Compulsory Password Change on first login for every user.
- Passwords can be set to auto-expire after a preset number of days.
- Users can change their own passwords.
- 3 wrong password attempts lead to user suspension.
- Users can perform Tests and Calibrations (if permitted).
- Users can search for previous test and calibration reports.
- Advanced Audit Trail filtering and reporting (PDF and XLS file).
- All important events are logged in an extensive Audit Trail Log.
- Critical events are marked in the Audit Trail Log.
- Full Name of the user (Digital Signature) is captured from the Login.
- Test Data is compiled as a PDF Test Report and no raw data is saved on the PC.
- Auto-backup facility (if used) will save test and calibration reports in backup location.
- Password Complexity rules are applied.
- If user aborts a test or calibration, it still gets saved as "Aborted" and is logged.
- A test result can be avoided from being reported. But user can mark a result as abnormal.
  - Abnormal results are ignored in statistical calculations but will still show in report.
  - User needs to justify the Abnormal values (if any) in the remarks section.



### **Includes :**

- 1) Basic Machine with RS-232 Serial PC Port
- 2) Calibration Kit with Pan
- 3) Data Cable
- 4) Windows 7 PC Software.

### **Additional Utilities Required :**

- a) Desktop PC or Laptop PC with Windows 10  
With minimum 4 GB RAM  
Supporting Software : (Latest Version of)  
Adobe Acrobat Reader  
Microsoft Dot Net Framework

### **IQOQ Documentation Set available for Pharmaceutical companies**

*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 :

