

### **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.

**Note :** Printer Port Model and PC Software Models also available for high-end applications.

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Manufactured in INDIA by :  
**Test Techno Consultants**  
K-1, 23/2, G.I.D.C. Ranoli,  
Vadodara - 390350. India.  
Email : [info@packtest.com](mailto:info@packtest.com)  
Website : [www.PackTest.com](http://www.PackTest.com)

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## 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)

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## 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.

### **Additional Features of this model :**

#### **Data Transfer Feature :**

- **TorqueView Software**

Advanced software for professional grade reporting in PDF format.

Contains multiple User-Input Fields

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.

**Note : The Software is not fully 21-CFR-11 compliant.**

#### **Existing Security Features of the current software version:**

- 8 User Logins + 1 Admin Login.
- Only admin can add/delete users and change passwords.
- All users have individual Full Name, Username and Password.
- Full Name of the user (Digital Signature) is pasted on the Test Report automatically.
- Test Data is compiled as a PDF Test Report and no raw data is saved on the PC.

#### **Includes :**

- 1) Basic Machine with RS-232 Serial PC Port
- 2) Calibration Kit with Pan
- 3) Data Cable
- 4) Windows 7 PC Software (not 21-CFR-11 compliant).

### **Additional Utilities Required :**

- a) Desktop PC or Laptop PC running Windows 7 (Service Pack 1) or higher  
With minimum 2 GB RAM (preferably 4 GB)  
Supporting Software : Adobe Acrobat Reader (Latest Version).  
Microsoft Dot Net Framework (Latest Version)

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