



TORQUE TESTER - TORONTORQUE™

ASTM D2063, ASTM D3198, ASTM D3474

Torque Tester – ToronTorque™ is designed to measure both application and removal torque of bottle caps across a variety of containers, including penicillin bottles, beverage bottles, water bottles, and oil drums. Torque Tester supports both clockwise and counterclockwise rotation and automatically records the peak torque value. The ToronTorque is commonly used in quality control labs across the food, pharmaceutical, cosmetics, and related industries.

APPLICATIONS

- **Pharmaceutical Industry** – Ensures precise torque measurement for penicillin vials, tablet bottles, and other sealed containers. Supports compliance with **ASTM D2063** standards for secure and reliable packaging.
- **Food & Beverage Industry** – Validates application and removal torque of beverage bottles, water bottles, and oil containers. Assures closure integrity, leakage prevention, and consumer safety in line with **ASTM D3198**.
- **Cosmetics & Personal Care** – Provides accurate torque testing for creams, lotions, and liquid product bottles. Guarantees tamper-evident closures and consistent customer experience.
- **Chemical & Industrial Packaging** – Measures torque performance of caps and closures on oil drums, chemical bottles, and industrial fluids. Ensures secure sealing under demanding storage and transport conditions.
- **Quality Control & R&D Laboratories** – Widely used in packaging development and quality inspection to monitor closure torque performance. Helps optimize design, reduce material waste, and maintain compliance with **ASTM D3474**.

- **Regulatory Compliance Testing** – Provides documented, traceable torque measurement data to support ISO, ASTM, FDA, and GMP packaging standards. Assures product integrity across international markets.
- **Production Line Verification** – Supports routine torque checks during manufacturing to detect closure defects early. Prevents costly recalls, improves process efficiency, and enhances product reliability.
- **Academic & Research Institutes** – Suitable for packaging research, material testing, and closure performance studies. Offers precise, repeatable results for both training and experimental applications.

FEATURES

- Intuitive interface for easy operation
- Peak force hold function for maximum torque display
- Stores up to 1,000 test results
- High-precision torque sensor with $\pm 0.5\%$ FS accuracy
- High-resolution LCD screen
- Built-in micro printer for direct data output
- Integrated calibration program for simple setup and adjustments
- Three-level user access control for secure operation

TECHNICAL SPECIFICATIONS

Item	Specification
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Measuring Range	0-5.00 N·m (Customization available for other ranges)
Unit	N·m / kg·cm / lb·in
Measurement Accuracy	Level 0.5
Test Mode	Application Torque & Removal Torque
Clamping Size	3mm-180mm
Data Storage	1000 groups (any group statistics, printing)
Data Transmission	Connected to computer for operation, data storage and report printing (optional)
User Management	Password setting and 3-level permission management
Instrument Dimension	280 (L) × 335 (B) × 200 (H) mm
Weight	10kg
Voltage	AC220V±22V, 50Hz (Customization available)
Standard Configuration	Main Instrument, power cord, printing paper
Optional Configuration	Customization available for special fixtures and computer software



Torontech Inc.

251 Consumers Road, Suite 1200
Toronto, Ontario, M2J 4R3, Canada 

Phone: +1 416 368 2721 | Fax: +1 416 981 7652
Email: info@torontech.com

Torontech, LLC

601 Brickell Key Drive, Suite 700
Miami, FL 33131, USA 

Toll-Free: 1-866-383-7919
Email: sales@torontech.com

Torontech ME FZE

Meydan Grandstand, 6th Floor,
Meydan Road, Nad Al Sheba,
Dubai-261440, UAE 

Phone: +971 488 19252
Email: me@torontech.com

