

DTT-01 Cap Torque Tester

Brief Introduction

DTT-01 Digital Torque Tester is one professional testing instrument for determination of application torque and removal torque of bottle caps. This instrument is featured with high precision and stability of measured results. It is applicable to application torque and removal torque of closures of bottles, suction nozzle package and soft tube package, etc.



Technical Features

- ◆ Embedded micro-computer chips, simplified and efficient user interface provide users with comfortable and smooth operating experience
- ◆ Standard, modularized and systematic designs can meet personalized requirements of the users
- ◆ Well-designed user interface for touch screen operations
- ◆ 7 inch HD LCD, displaying test data and curves in real time
- ◆ Imported high-speed and high-precision chips guarantee the testing accuracy and efficiency
- ◆ Dual test modes for open force and lock force
- ◆ Three groups of torque unit switching function: Lbf-in, Kgf-cm, N·m
- ◆ Test curves are displayed in real time and peak values are maintained automatically, which ensure test results can be recorded precisely
- ◆ With a powerful data storage function, which can store up to 50,000 test records
- ◆ Intelligent configuration of overload protection, auto zeroing and alerts for malfunctions can guarantee the safety of operators.
- ◆ Low energy consumption makes the instrument environment-friendly

- ◆ Equipped with micro-printer and standard RS232 interface, which is convenient to data transmission

Test Principle

The specimen is clamped on a fixed plate to open or lock the specimen manually, and the torque applied to the specimen is collected by a sensor connected to the fixed plate to obtain the opening or locking force of the specimen.

Applications

Basic Application	Bottle Package	Open and lock force test of the bottle caps for bottled packages for food, pharmaceuticals, e.g. beverage or tablet bottles
	Flexible Tube Package	Open and lock force test of flexible tube packages for food, pharmaceuticals and cosmetics, e.g. eye-drop, hand cream and shoe polish
Extended Application	Application & Removal Torque of Screw Nut	Open and lock force test of the screws
	Vacuum Flask and Vacuum Cup	Open and lock force test of the caps of vacuum flasks and vacuum cups

Technical Specifications

Item	DTT-01
Load Cell Capacity	20 N·m (Standard)
	40 N·m, 50 N·m (Optional)
Accuracy	1% FS
Resolution	0.001 N·m
Clamp Range	Φ5 mm~Φ180 mm (Diameter)
Statistical Analysis Allowance	1~50000
Instrument Dimension	310 mm (L) × 390 mm (W) × 270mm (H)
Power Supply	AC 220V 50Hz /120V 60Hz
Net Weight	20 kg

Standards

ASTM D2063, ASTM D3198, ASTM D3474, GB/T 17876, BB/T 0025, BB/T 0034

Configuration

Standard Configuration	Instrument, Micro-printer
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Technical specifications are subject to change without further notice. Please visit our website at www.horizontester.com for latest information.