

DTT-01 Digital Torque Tester

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
 - Standardized, modularized and systematic designs can meet personalized requirements of the users
 - UI interface, 7-inch HD color touch screen, displaying test data in real time
 - Imported high-speed and high-precision chips guarantee the testing accuracy and efficiency
 - Three groups of torque unit switching function: Lbf·in, Kgf·cm, N·m
 - Dual test modes for open force and lock force
 - The measured peak value is automatically maintained to ensure that the test result is accurately recorded
 - Intelligent configuration of overload protection, automatic reset, power-down memory and trouble indication to ensure the safety of users' operations
 - Equipped with micro-printer and standard RS232 interface, which is convenient to data transmission
 - With a powerful data storage function, which can store up to 50,000 test records
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- Energy conservation and environmental protection design, ultra-low power consumption conforms to national energy-saving and environmental protection requirements

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

Technical Specifications

Specifications	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
Test Mode	Manual
Instrument Dimension	310 mm (L) × 390 mm (W) × 270mm (H)
Power Supply	AC 220V 50Hz /120V 60Hz

Net Weight	20 kg
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Standards

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

Configuration

Standard Configuration: Instrument, Micro-printer
