

DTT-02 Automatic Cap Torque Tester

DTT-02 Automatic Cap Torque Tester is a combination of a torque test and an automatic manipulator, which is suitable for the application torque and removal torque of bottles, spout bags and flexible tube package. Different from the ordinary cap torque tester, this is automatic instrument. This automated cap torque tester is an indispensable test equipment in the production process due to its high measurement accuracy and good stability.



Technical Features

High Configuration:

- Equipped with a small range sensors for more accurate testing
- Dual test modes including application torque test and removal torque test
- Manual test or automatic test can be selected
- The peak value can be maintained automatically, which ensures the recording of the accurate test results
- Newly designed manipulator with automatic, relaxation and rotation functions in one
- Gripping force, fastening force and rotation speed of the cap can be adjusted freely
- Intelligent designs of automatic zeroing, overload protection and error alert for safe test operation

Intelligence:

- Movable touch panel design and intuitive operation interface bring great improvement in operation experience
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- Real-time test curve display and group test statistics improve testing efficiency
- International common unit database with unit customization support
- Automatic data storage and power failure memory functions
- Support data playback, export, report printing
- Micro-printer and USB data ports for data output and transmission
- With a powerful data storage function, storing up to 50,000 test records
- Computer software fully complies with the requirements of GMP "computerized system", with user management, rights management, data audit tracking and other functions.

Applications

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|-----------------------------|---|---|
| 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

| Specifications | DTT-02 |
|------------------------------------|---|
| Load Cell Capacity | 5 N·m (Standard) 20N·m, 40N·m (Optional) |
| Accuracy | 0.5% FS |
| Resolution | 0.001N·m |
| Body Clamp Range | Φ5 mm ~ Φ170 mm |
| Cap Clamp Range | Φ10 mm ~ Φ80 mm |
| Bottle Height | 20 mm~400 mm |
| Maximum Removal/Application Torque | 2 Nm (customization) |
| Specimen Clamping and Turning Way | Pneumatic |
| Gas Supply | Air (Not in supply scope) |
| Gas Supply Pressure | 0.7 Mpa (101.5psi) |
| Statistical Analysis Allowance | 0 ~ 50000 |
| Instrument Dimension | 570 mm (L) × 375mm (W) × 1200mm (H) |
| Power Supply | AC 220V 50Hz /120V 60Hz |
| Net Weight | 38 kg |

Standards

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

Configuration

Standard Configuration: Instrument, Micro-printer, Auto Testing System

Optional Parts: Air Compressor

Note: 1.The gas supply port of the instrument is $\Phi 4$ mm PU Tubing;
2. Customers will need to prepare for gas supply.