

i-Process 1600 Torque Test and Data Processing System

i-Process 1600 Torque Test and Data Processing System is professionally designed for the on-site torque value determination of caps used in bottles, spout pouches and flexible tube packages. The open or lock force is the main parameter that seriously controlled by manufacturers in the production process. Both product transportation and end-market consumption are greatly influenced by this index. i-Process 1600 is featured with high test precision and repeatability, which makes it a necessary testing instrument for on-site torque value determination. Furthermore, the instrument supports DataShield™ system for comprehensive online data management.



Functionality

- 2 test modes for open force and lock force test are available
- Specimen clamping angle can be adjusted in a wide range of 0~90° to support various combinations of non-standard test conditions
- Automatic retaining of peak value facilitates the precise recording of test results
- Standard test unit is convenient for data reference and comparison
- Special designs of overload protection, automatic zeroing and error alert provide a safe test environment
- Intelligent reminder for sensor calibration guarantees the safety of operation
- Professional software can conduct statistics for instrument usage rate and test frequency, test result evaluation, and thorough display of test data
- Dust or water proof structure makes it more suitable for on-site measurement
- Equipped with barcode scanner and micro printer which is convenient for data input and transfer
- The instrument utilizes embedded computer control system and supports DataShield™ system to provide simplified and secure data management functions

Test Standards

This instrument conforms to many national and international standards: ASTM D2063, ASTM D 3198, ASTM D 3474, GB/T 17876, BB/T 0025, BB/T 0034 (GB/T 14803)

Applications

This instrument is used for torque value determination of the following items:

Basic Applications	Bottle Packages	Test open and lock force of bottle packages for food and pharmaceuticals, e.g. beverage and medicine bottles
	Flexible Tube Packages	Test open and lock force of flexible tube packages for food, pharmaceuticals and cosmetics, e.g. flexible tube packages for eye-drop, hand cream and shoe polish, etc.
	Vacuum Flasks and Vacuum Cups	Test open and lock force of caps used for vacuum flasks and vacuum cups
Extended Applications	Screw Threads	Test open and lock force between screw nuts and bolts

Technical Specifications

Items	Specifications
Load Cell Capacity	20 Nm (Standard)
	40 Nm (Optional)
	50 Nm (Optional)
Accuracy	1% FS
Resolution	0.001 Nm
Clamp Range	Φ31 mm ~ Φ32 mm (Standard)
	Φ5 mm ~ Φ100 mm (Optional)
Instrument Dimension	600 mm (L) x 450 mm (W) x 600 mm (H)
Power Supply	220VAC 50Hz / 120VAC 60Hz
Net Weight	30 kg

Configurations

Standard Configurations	Instrument, Professional Software, Micro-printer, Pedal Switch, Wireless Data Module, DataShield™ System (Optional. Providing data management functions for i-Process series instruments. Multiple instruments can share one DataShield™ system)
Optional Parts	High Gain Antenna

Please Note:

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