

SureTorque Model ST-Inline

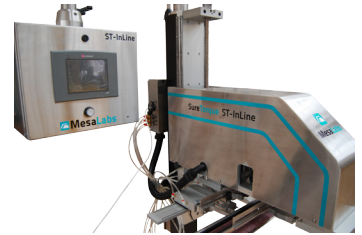
SureTorque Model ST-Inline

For Continuous-Thread, Child-Resistant and Tamper-Evident Band Closures

The Model ST-Inline torque tester is designed specifically for the pharmaceutical, beverage and food industries and will perform full testing to protocol including release, apply, release and re-apply, tamper-evident break and strip torque tests. All application and release torque is accurate and consistent. Data can be captured and down loaded for recall and reference. Servo drive and flexible PLC controls design allow programming possibilities that duplicate how your consumers use the product. The ST-Inline can also be used as a precision capper.

Features

- Stainless steel finish
- Servo drive control
- Fully automatic operation
- Position, speed and torque control
- Fast cycle time (~20bpm)
- Color touch screen interface
- Self-centering clamps
- Quick-change tooling
- Chuck Pressure Monitoring



All SureTorque testers are configurable to test various size and shape containers. Tooling is designed for quick, tool-free changeover. Design specific tooling provides secure 360 degree gripping of cap and container. Adjustable chuck pressure ensures appropriate cap squeezing. Existing SureTorque clamping sets can be used with the clamp adapter set.

Technical Specifications*

Testing	
Torque Tests	Cap tightening, Thread Break, Fatigue, Tamper evident break, Strip
Torque Range	0-88 lbf•in (0-10N•m)
Torque Transducer	Strain gauge
Accuracy	+/- 0.5% for static loads over full scale
Repeatability	+/- 0.2 lbf•in for one set up
Resolution	Min 0.1 lbf•in
Maximum Overload	150%
Rotation	0-500 RPM, CW and CCW, Infinite
Modes	Position, Speed or Torque control
Torque Units	d•Nm, N•m, kg•cm, kg•m, oz•in, lbf•in
Calibration	Certifiable (NIST)
Standards	Meets or exceeds NIST, ASTM, FDA, GMP
Electrical	
Control	PLC-based system
Analog Signal	14 bit, 1ms conversion
Response Time (avg)	<1ms
HMI Display	6" 256-Color Touch panel
Communication	RS-232/RS-485 (Ethernet optional)
Real-Time Clock	7-year typical battery backup
Utilities	
Air Source	80 PSI, 5 SCFM
Power Source	100-240VAC, ~2.5A, 50-60 Hz

*subject to change (without notice)

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Environment	
Temperature Range	32-122°F (0-50°C)
Relative Humidity	10% to 95% (non-condensing)
Mounting	Flat surface, over conveyor
Container Sizes	
Height Range	2.75" to 13.75"
Diameter Range	0.25" to 5.00"
Dimensions	
Dimensions	73" x 34" x 34 (HxWxD)
Weight	150 lbs
Materials of Construction	
Exterior	300 Series Stainless Steel Finish
Framework	Anodized Aluminum
Hardware	300 Series Stainless Steel
Guides	Delrin/UHMW
Tooling	Anodized Aluminum (Rubber molded)

Tooling and Options



Collets (Standard, Child-Resistant)



Clamps



Calibration Verification

Collet CT	Standard threaded cap collet
Collet CR	Child resistant cap collet
Angular Gripper	Spray type or odd shaped cap gripper
Spring Loaded	Serrated or non-threaded closures (beer cap)
Standard Clamp Set	Round container clamps (left and right)
Clamp Adapter Set	Adapts existing tooling to new design
"V" Clamp Set	Clamps for square or glass containers

DAQ Option 1	Captures peak torque, time and date stamp. Windows based software, version 1.10 – 1.12.
DAQ Option 2	Captures realtime Torque vs. Time or Angle vs. Torque. Windows based software, version 3.1.
DAQ Custom	Consult factory.
Serial Printer	For all torque tester models. Interface: RS-232. Paper dimensions: 57.5, 69.5, or 76.0 mm (W) x 83.0 mm dia. Reliability: MTBF-180,000 hour.
Laboratory Kit	ASTM Calibration kit in protective case with 3 weights and 4 pulleys for 25 points of calibration.
Portable Kit	ASTM Calibration kit in protective case with 1 weight and 2 pulleys for 3 points of calibration.
SureCheck™	For daily "Quick Check" of calibration, 2-24 lbf•in range.