



**SURETORQUE**  
**QUALITY ASSURANCE**  
**INSTRUMENTATION**

1461 TALLEVAST RD, SARASOTA, FL 34243  
 TEL: (941) 753-1095 - FAX: (941) 756-8432  
 EMAIL: INFO@SURETORQUE.COM



**Model ST-Inline**  
**Automatic Torque Tester**

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



**DESCRIPTION**

The Model SST-Inline torque tester is designed specifically for the pharmaceutical 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.

**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

**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: +/- 0.2 lbf•in for static loads over 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

**Environment**

Temperature range: 32-122° F (0-50° C)  
 Relative Humidity: 10% to 95% (non-condensing)  
 Mounting: On flat surface, pver conveyor

**Container Sizes**

Height Range: 2.75" (with base adapter) 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)

\*(subject to change without notice)


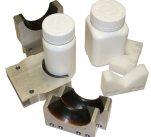





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All SureTorque testers are configurable to test various size and shape containers. Tooling is designed for quick, tool-free changeover. Design specific tooling provides secure 360 degree gripping of cap and container. Adjustable chuck pressure ensures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

| TOOLING        |   |                    |  |
|----------------|---|--------------------|--|
| <b>Collets</b> | Standard  | 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) |
| <b>Clamps</b>  | Child-Resistant   | 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        |

| OPTIONS   |   |                   |  |
|---|---|-------------------|--|
| <b>Data Acquisition (RS232, USB, Ethernet)*</b> |  | 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.   |
| <b>Printer</b>                                  |  | 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. |
| <b>Calibration Verification</b>                 |  | 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.   |
|   |   | <b>SureCheck™</b> | For daily "Quick Check" of calibration, 0-20 lbf•in range.   |