



SURETORQUE

QUALITY ASSURANCE
INSTRUMENTATION

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Model ST-S3

Automatic Torque Tester

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



DESCRIPTION

The Model ST-S3 benchtop 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 reporting torque is accurate and consistent. Data can be captured and downloaded for 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
- Infinite rotation programmability
- Position, speed or torque control
- Faster test cycle time with servo drive
- Self-centering clamps
- Quick-change tooling
- Color touch screen interface
- Chuck Pressure Monitoring
- Quiet operation

TECHNICAL SPECIFICATIONS*

Testing

Torque tests:	Cap release test, Final application, Fatigue, Tamper evident break
Torque range:	0-100 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:	0-60 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:	16 bit, 10ms acquisition
Response time (avg):	<10ms
HMI display:	3.5" 256-Color Touch panel
Communication:	RS-232/RS-485 (Ethernet optional)
Real-time clock:	7 year typical battery backup

Utilities

Air Source:	60-80 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:	Flat surface or desktop

Container Sizes

Height Range:	2.75" (with base adapter) to 13.75"
Diameter Range:	0.25" to 5.00"

Dimensions

Dimensions:	29" x 12" x 20" (HxWxD)
Weight:	65 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)