



# ST-M

## Manual Torque Tester

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

### Features

- Real time, automatic display
- NIST traceable calibration procedure
- Strain gauge transducer technology
- Store hundreds of measurements and graphs

### Testing Capabilities

- Primary and secondary peak torque during a release (or application) process
- Initial release torque and tamper evident band break torque (or application torque)

### Cap Torque Importance

- Consumer Safety
- Product Integrity
- Package Appearance
- Customer Satisfaction

### Benefits

- Fast and easy changeovers
- Test and record data in U.S. (lb-in) or S.I. (Nm)

### Optional Configuration

- ST-M-CR (ST-M + 2-channel combined torque / force transducer to measure torque and vertical load simultaneously. This configuration is ideal for testing child resistant closures.)



*Easily change samples with the unique quick-release clamping mechanism.*



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### Options

- Heavy-duty waterproof carrying case
- Data acquisition software for exporting data from memory to a PC in an Excel compatible format or graph



- Serial port printer (print date, time and peak torque result from memory – data remains in ST-H4 until print is triggered)



Serial Port Printer

*Our equipment meets or exceeds these standards and methodologies:*

- National Institute of Standards & Technology (NIST)
- American Society for Testing and Materials (ASTM)
- Food & Drug Administration's (FDA) Good Manufacturing Practice (GMP)
- Consumer Product Safety Compliance

### Specifications *(subject to change without notice)*

Power supply:	DC 6V with built in accumulator, charger for AC 230 V / AC 115V
Torque range:	-88 to 88 lb-in (-10 to 10Nm)
Resolution:	+/- 0.25%
Display resolution:	0.01 lb-in
Torque measurement:	lb-in, lb-ft, Nm, dNm, Ncm
Force measurement:	N, kg, lb (measured by ST-M-CR)
Sampling frequency:	100 Hz (10ms)
Display:	128 x 64 monochrome backlit LCD
Results:	Actual and peak torque on same screen; time-torque graphs display on ST-M-CR)
Internal memory:	Hundreds of records with 4-digit ID code (batch, machine/head nr)
Stored data:	Measurement nr, peak result, ID, date, time, graph and instrument serial number
Communication protocol:	RS232 serial port printer
Container sizes:	15 - 240 mm
Closure types:	Any twist closure
Dimensions (WxDxH)	240 x 230 x 120 mm
Resistance grade:	IP-65