

STAPLER BLADE SHARPNESS TESTER



Stapler Blade Sharpness Tester

Stapler Blade Sharpness Tester – ToronMed™ SBST01 is designed to measure the sharpness and cutting performance of medical stapler blades, including circular cutters, linear cutters, and round cutters. By providing accurate and repeatable results, this tester ensures that surgical stapler blades meet the required sharpness standards for safe and effective clinical use.

Why Choose Stapler Blade Sharpness Tester – ToronMed™ SBST01?

The Stapler Blade Sharpness Tester – ToronMed™ SBST01 delivers precision, automation, and compliance for evaluating the sharpness of medical stapler blades and scalpel blades. With its intelligent control system, large data storage capacity, and real-time reporting, this tester is trusted by medical device manufacturers, quality control labs, and R&D facilities.

By ensuring that surgical blades maintain sharpness and reliability, the Stapler Blade Sharpness Tester supports safer and more effective medical procedures.

APPLICATIONS

- Basic Applications
 - Stapler blades (circular, round, linear)
- Extended Applications
 - Other shaped blades
 - Scalpel blades



FEATURES

- 7-Inch Color Touchscreen
Intelligent interface with real-time data display and easy operation.
- Versatile Blade Testing
Capable of testing circular, linear, and round stapler blades, with automatic peak force calculation.
- Automatic Calibration
Simple operation process with reliable calibration for precise results.
- Data Storage & Printing
Stores up to 100,000 test records and includes a micro printer for real-time reporting.
- Power-Down Memory Function
Automatically retains stored data even during unexpected shutdowns.
- Enhanced Safety
Over-range shutdown function protects sensors and ensures stable testing.
- GMP-Compliant Data Security (optional)
Four-level password protection with GMP “Computerized System” compliance, including user management, authority management, and audit tracking.

THEORY & METHOD

Test Principle

The Stapler Blade Sharpness Tester fixes the stapler blade in position and aligns it with a surgical suture. With a controlled weight and test speed, the blade cuts through the suture, and the system measures the cutting force required. The tester then automatically calculates the peak force, providing objective results on blade sharpness.

TECHNICAL SPECIFICATIONS

Specification	Value
Test Item	Sharpness
Test Range	0-50 N (100 N / 250 N optional)
Accuracy	0.5% FS
Resolution	0.01 N
Testing Speed	0.05-600 mm/min
Cutting Material	Suture
Dimensions	460 × 400 × 770 mm
Net Weight	33.5 kg
Voltage	AC 220V 50Hz (110V is also available)

Standard Configuration

- Main instrument unit
- 7-inch touchscreen interface
- Micro printer
- Test fixtures for circular and linear cutters
- Standard weight set



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