SR1000

Stent Securement Testing Equipment

()

0

 \bigcirc

DEMO SAMPLE Test Data File Name

Resat



MSI designed the stent securement tester to work as a standalone unit with an optional submersible configuration for testing in an aqueous, temperaturecontrolled environment. The system can also be purchased as an add-on to the MSI Interventional Device Testing Equipment (IDTE2000).

The SR equipment is designed with international testing recommendations in mind. These include: the FDA guidance document titled "Non-Clinical Tests and Recommended Labeling for Intravascular Stents, and Associated Delivery Systems", ASTM F2394-07 Guidance Document for Stent Securement, and ISO Standard 25539-2: 2008.



Stent Securement Features

• Guide-type securement test.

24.1

4.060

- Proximal or distal displacement of stent.
- High speed data acquisition system.
- Quick set up.

0

- Repeatable and reproducible data.
- Quick, simple software controlled calibration.
- Graphical displaying of force vs. displacement in real time.
- Diameter control and force feedback on capture segments.
- Video assist with sample alignment & video capture of test.
- Data output setup for spreadsheet analysis.
- Data output includes: profile parameters, peak force and associated displacement.

SR1000

Stent Securement Testing Equipment

Summary of Spec Data

Capture Head Diameter Range	0.25 - 4.5mm
Capture Head Length	0.5mm
Gripper Head Diameter Range	0.25 - 4.5mm
Gripper Head Length	6.0mm
Diameter Accuracy	0.02mm
Diameter Resolution	0.01mm
Force Accuracy	0.1N
Force Resolution	0.1N
Pull Rate	0.01- 30.0in/min
Power Requirements	110 or 220 VAC
Capture Head Load Cell Size	10lb
Gripper Head Load Cell Size	10lb
Pull Load Cell Size	51b
Temperature Controlled Water Bath	Optional with submersible system
General Warranty	1 Year

SR1000 Machine Dimensions

- Machine Weight: 8.8lbs (4.0kg)
- Height: 10" (254mm)
- Width: 13" (330mm)
- Depth: 12" (305mm)

SR1000 Equipment Specifications

Stent Securement Base

- Stainless steel ten segment design.
- Interchangeable handling system for proximal or distal pull.
- Stepper motor driven linear actuators.
- Standard S beam integrated load cells.

Control Module Specifications

- High speed motion control system.
- High speed data acquisition (100 samples/second).
- Ethernet PC to control module connection.
- Custom cable connection between control module and base.

Software Specifications

- Windows PC based software.
- Adjustable testing parameters include: head close speed, capture diameter, capture maximum force, gripper force, pull speed and pull distance.
- Pull force and distance are measured, displayed, graphed and written to a CSV (Comma Separated Variable) file.
- Unlimited profile creation and storage.

SR1000 Control Module

- Machine Weight: 30lbs (13.6kg)
- Height: 17" (413mm)
- Width: 9" (229mm)
- Depth: 21" (534mm)

