



The MSI SC900/910 Self-Expanding Stent Crimping Equipment provides a reliable automated solution for the labor-intensive manual process of loading self-expanding stents and stent graft products. The SC900/910 is intended for use in medium and high volume manufacturing with operator touch screen interface and profile-based process control. Crimp force and quill force limit alarms provide critical process feedback to ensure acceptable product for downstream processing.

The SC900/910 is suitable for radial compression and loading of nitinol devices, collagen plugs and other self-expanding products. The crimp head chilling option reduces product contact and working temperatures for improved process repeatability with certain device designs.

### **SC900/910 Features**

- **Automated device crimping and loading.**
- **Process monitoring, feedback and limit alarms.**
- **Uniform radial compression.**
- **PC control with cycle data recording.**
- **Crimp head chilling configuration capable of -30°C.**

# SC900/910

## Stent Crimping Equipment



### Summary of Spec Data

<i>Crimp Diameter Range</i>	1.27 – 14.0mm
<i>SC900 Crimp Head Length</i>	140mm
<i>SC910 Crimp Head Length</i>	225 or 300mm
<i>Crimp Head Tip Material Options</i>	Teflon®, Delrin® AF, Ertalyte® TX, PEEK™, Corrax®
<i>Crimp Head Activation</i>	Servo
<i>Maximum Crimp Force</i>	50 lbs (standard)
<i>Maximum Quill Force</i>	50 lbs (standard)
<i>Force Display Accuracy</i>	±1 lb
<i>Catheter Clamp Set</i>	Pneumatic Open/Close, Servo Driven
<i>Push Quill</i>	Servo Driven
<i>Diameter Accuracy</i>	±0.0254mm
<i>Control System</i>	PC HMI
<i>Cycle Data Storage</i>	USB or Network Drive
<i>Power Requirements</i>	110 or 220 VAC
<i>General Warranty</i>	1 Year

### SC900/910 Equipment Specifications

#### Control Mode

- Crimp Diameter – PC controlled.
- Quill Position – Servo controlled.
- Quill Force – PC controlled.
- Catheter Clamp Position – Servo controlled.
- Catheter Clamp Open/Close – Pneumatic controlled.
- Crimp Head Bore Temperature – PC controlled.

#### Sensors

- Crimp Force – Load cell with overload protection.
- Crimp Diameter – Motor drive monitored by PC.
- Quill Force – Load cell with overload protection.
- Crimp, Quill and Catheter Clamp Speed – Monitored by PC.
- Crimp Head and Bore Temperature – Thermocouple.

#### Outputs

- Crimp Diameter, Crimp Speed, Quill Position, Quill Speed, Catheter Clamp Position, Catheter Clamp Speed – HMI touch screen.
- Process Parameter Alarms – Crimp force, quill force, temperature.
- Cycle Data Storage – USB or computer network drive.

#### Options

- Crimp Head Chilling.
- Crimp Head Bore Chilling.
- Foreign language HMI.

#### Safety Features

- Category III safety circuit.
- Polycarbonate safety covers with interlock switches.
- CE compliant.

### Machine Dimensions

#### SC900

- Shipping Weight: 313lbs (142kg)
- Machine Weight: 240lbs (109kg)
- Height: 14" (356mm)
- Width: 38" (965mm)
- Depth: 16" (406mm)

#### SC910

- Shipping Weight: 385lbs (175kg)
- Machine Weight: 297lbs (135kg)
- Height: 14" (356mm)
- Width: 48" (1219mm)
- Depth: 16" (406mm)