Machine Solutions Inc. (MSI) is the leading process and testing equipment supplier to device manufacturers worldwide. The proprietary MSI segmental compression mechanism provides an even, repeatable radial compression that has been proven for stent crimping, stent loading, catheter balloon folding, and marker band swaging applications. We offer the most advanced, automated and integrated solutions to the medical device manufacturing industry.

**STENT CRIMPING**

**HH100/200**
- Hand Held Stent Crimping Tool
- Grip force activated
- Polycarbonate or stainless steel construction
- Ertalyte TX or stainless steel crimp segments
- Positive close stop, set screw feature

**SC100/150**
**SC200/250**
- Bench Top Manual Stent Crimping
- Manual or pneumatic operation
- PTCA or PTA lengths
- Maximum diameter 6mm or 12mm
- Maximum length 60mm or 120mm

**SC500/600**
- Pneumatic Stent Crimping
- Activation force measurement
- Crimp head dwell timer
- Maximum diameter 5.0mm or 12mm
- Maximum length 50mm or 120mm

**SC700/800**
- Pneumatic Stent Crimping with Heat
- Heated crimp head
- Activation force measurement
- Crimp head dwell timer
- Same range as SC500/600

**SC775S/875S**
- Automated Stent Crimping
- PLC control with touchscreen HMI
- Servo motor activation
- Crimp-to-force and crimp-to-diameter capability
- Film Crimp Head option protects coatings and polymer scaffolds

**SC1775S/1875S**
- Automated Stent Crimping with Network Capability
- PLC control with industrial PC HMI
- Stores up to 999 recipes, 20 stages per recipe
- Optional dual axis laser micrometer and leak detection
- Networking capabilities

**STENT LOADING**

**SC990**
- R&D Stent Loading
- Pneumatic crimp head activation
- Micrometer controlled open/close diameter
- Custom catheter handling tray

**SC995**
- Neuro Stent Loading
- Pneumatic crimp head activation
- Accommodates thin wall strut geometries
- Custom roller system supports small diameter quills

**SE1900S**
- Automated Stent Loading with CrimpPulse™ Technology
- Repeatable loading of 150mm+ stents
- Self-aligning catheter clamps
- Crimp head chilling configuration capable of -40°C
**Device Concept Thru Volume Manufacturing**

- **LB1000**
  - Catheter Laser Bonder
  - 30 watt CO₂ laser
  - Closed-loop temperature control
  - Closed-loop power control
  - Drop in product loading

- **TB725**
  - Custom Thermal Bonder
  - Semi-automated thermal bonding and laminating
  - Automated product handling
  - Customizable heat zones
  - Heating capabilities to 750°

- **MS700S**
  - Mandrel Straightener
  - Auto pick and place product handling
  - Process multiple mandrel diameters without tooling changes
  - Works with bare and coated stainless steel mandrels
  - Recycle bent or bowed mandrels

- **VS1000**
  - Catheter Laminating
  - 4 station design
  - Programmable, accurate speed settings
  - 6 programmable heat zones
  - PC control and touch screen HMI

**Tube Processing**

**Device Performance Testing**

- **IDTE2000™**
  - Interventional Device Testing
  - Track force
  - Push efficiency
  - Torqueability
  - PC control and data capture

- **RX750/850**
  - Submersible Radial Expansion Force Testing
  - Radial reactive force
  - Radial stiffness
  - Temperature chamber option
  - PC control and data capture

- **RX550/650**
  - Radial Expansion Force Testing
  - Radial reactive force
  - Radial stiffness
  - Temperature chamber option
  - PC control and data capture

- **SR1000**
  - Stent Securement Testing
  - Guide-type securement test
  - Proximal or distal displacement
  - Video assist and capture of test
  - PC control and data capture

**Contract Testing Services**

**Heart Valve Crimping Tools**

- **HV200**
  - Durable Crimping Tool
  - Multi-use design
  - Easily disassembled and reassembled for cleaning

- **HV500**
  - Disposable Crimping Tool
  - Low cost, disposable, single procedure tool
  - Designed and configured for specific device

- **HV950**
  - Durable Crimping Tool with Quill
  - Stainless steel push quill
  - Screw advancement of quill