

Where manual operation struggles to produce consistent results, MSI's automated equipment is able to increase throughput and produce higher tolerance parts. The SW655S platform combines MSI's proprietary Element swaging technology and patented marker band positioning capability into a single machine. The optional pick and place system allows this machine to run without any operator support.

The PC interface with the PLC control system allows the user to quickly change, setup, or develop profiles for various size products. The system has been designed to run full length catheters or sub-assemblies based on manufacturing requirements. The segmental compression pre-swaging mechanism allows the unit to position and pre-swage various size products without any tooling changes.

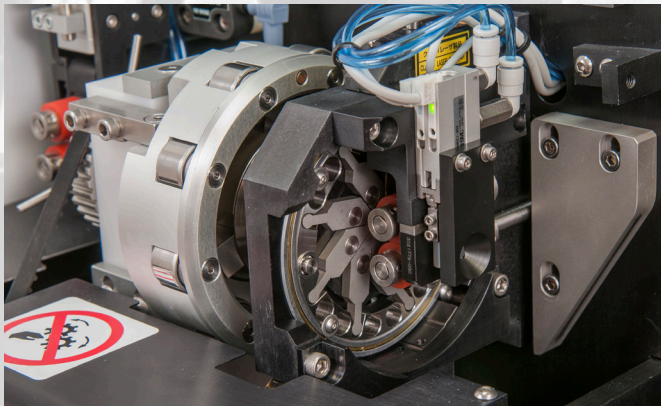
MSI's patented Element swaging technology produces extremely repeatable marker band diameter results. The mechanism continuously swages down to a fixed diameter without the need for shims or adjustment to achieve the desired results. The mechanism has been tested for hundreds of thousands of cycles without any geometrical changes or maintenance required. This swaging technique results in incredibly smooth band finish while maintaining the guidewire lumen integrity. The swaging mechanism does not use any greases or lubricants, so it is perfect for installation into a clean room environment. The SW655S equipment produces highly repeatable results in an efficient, operator-free process that has proven to provide immediate return on investment.

SW655S Features

- **Band to band positioning up to 350mm**
- **Automatically Pre-Swages and positions lots/batches of catheters with preloaded bands**
- **Designed for fast and easy change to different product sizes**
- **Accommodates product up to 205cm in length**
- **Positioning Accuracy is $\pm 0.15\text{mm}$ (Product and distance dependent)**
- **Ability to swage a wide range of marker band material**
- **Cleanroom ready**
- **No lubrication required**

SW655S

Marker Band Swaging Equipment



Summary of Spec Data

Control System	PLC control with Industrial PC HMI Stores up to 999 recipes
Noise Level	<80dBA
Auto-Loading tray	Holds up to 50 Product
Maximum Band Spacing	350mm
Band Size	0.020"-0.170"
Pre-Swage Method	Solenoid driven Segmental Compression
Swaging method	High Force Element Style
Pneumatic Requirement	Compressed Air 100psi @2CFM, clean and dry
Barcode Scanning	Optional
CE Certified	Yes
Units of measure	Selectable
General Warranty	1 Year

SW655S Machine Dimensions

- With full length tray
Height: 22" (559mm)
Width: 100.5" (2552.7mm)
Depth: 22.5" (572mm)
- With Standard short tray
Height: 22" (559mm)
Width: 36" (914mm)
Depth: 22.5" (572mm)

SW655S Equipment Specifications

Swage Base Unit Specifications

- Automated marker band positioning system.
- Servo actuated handling system.
- Automated product transfer system.
- Urethane product guide system.
- Manual marker band loading.

Programmable Parameters

- Band positions.
- Position and pre-swage power.
- Swage head insertion rate.
- Automatic detection of catheter tip and band for easy set up and positioning accuracy.
- Password protected areas: profiles, calibration and maintenance.

Pre-Swage Assembly Specifications

- Eight segment, solenoid driven segmental compression.
- One size for products from 0.020" to 0.170".

Swage Assembly Specifications

- Stainless steel electro-polished swaging elements (customer specified diameter).
- One anodized aluminum closer plate.
- One stainless steel electro-polished slider plate.

Options

- Pick and Place product handling.
- Integrated barcode scanning.

Line Voltage/Power

- 110 or 220 VAC 50/60Hz.

Operating Environment

- 60-75°F (15-24°C).
- 0-85% RH, non-condensing.

Storage Temperature

- 32-120°F (0-48°C).

Safety Features

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