



The MSI SWIS1100S Automated Marker Band Inspection Equipment inspects marker band swaged diameter and marker band position on the inner member. The SWIS1100S utilizes a Cognex 5 mega pixel high resolution camera and servo motor control to find and measure the inner member tip and marker bands. The system is equipped with a pneumatic pick and place system for hands-free processing of inner member batches of up to 50 pieces. Current inspection data is displayed live on the HMI along with the current batch summary data. The full data set for each batch is written to a csv file. The SWIS1100S is configured for use with inner members of various diameters and lengths utilizing a single camera profile.

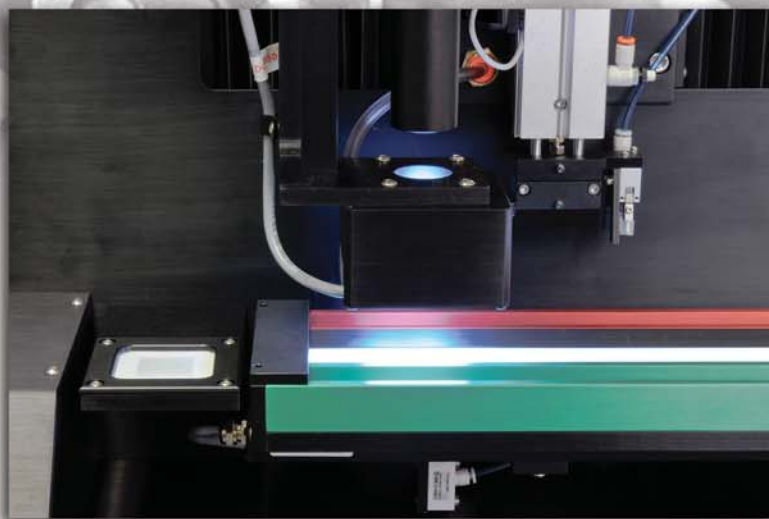
The Automated Marker Band Inspection Equipment features a touch screen interface and servo motor driven motion. The HMI allows for easy recipe setup, product change over, and equipment calibration. The software's auto recognition of product tips and marker bands eliminates the need to adjust any camera settings between products. These features combined with less than 30 second inspection time create a fast, versatile inspection system for a large product range.

### ***SWIS1100S Features***

- **Automated inspection of marker band diameter and position.**
- **Auto recognition of product tip and bands.**
- **Automated pick and place product handling.**
- **Automated batch processing.**
- **Inspection data written to a csv file.**
- **Clean room ready.**

# SWIS1100S

## Automated Marker Band Inspection Equipment



### Summary of Spec Data

<i>Control System</i>	PLC control, industrial PC HMI Stores up to 1,000 recipes
<i>Band Outer Diameter Inspection Accuracy</i>	±0.02mm (0.0008")
<i>Band-to-Band Inspection Accuracy</i>	±0.04mm (0.0016")
<i>Full Inspection Distance</i>	400mm (17.72")
<i>Standard Inspection Tray Length</i>	450mm for inner member including mandrel
<i>Product Outer Diameter Range</i>	0.020–0.250" (0.51–6.35mm)
<i>Units of Measure</i>	Selectable
<i>Pneumatic Requirement</i>	Standard shop air, clean & dry
<i>Power Requirement</i>	110 or 220 VAC 50/60Hz
<i>General Warranty</i>	1 Year

### SWIS1100S Equipment Specifications

- Cognex 5 mega pixel high resolution inspection camera.
- Servo motor controlled camera motion.
- Automated pick and place system.
- Back light & dome lighting for optimal image recognition.
- Inspected parts sorted into Pass/Fail trays.

#### Control System

- PLC control system with industrial PC HMI.
- Touch screen user interface.
- Process parameters stored and recalled via the HMI.
- Inspection camera image displayed live on the HMI.
- Selectable outside, inside or distal to distal edge band to band measurement.
- Password protected user manager.
- User defined Batch size.
- Full batch inspection data written to CSV file on hard drive
- Category III safety circuit.

#### Options

- Integrated barcode scanning.

### SWIS1100S Machine Dimensions

- Shipping Weight: 275 lbs (125 kg)
- Machine Weight: 195 lbs (89 kg)
- Height: 25" (635 mm)
- Width: 43" (1093 mm)
- Depth: 21" (534 mm)