



MSP-886 Automatic Screen Printer

Computer Controlled with Integrated Automatic Vision Alignment

This printer accommodates up to a 12" x 12" ID screen and includes an easy to use operator interface, unlimited recipe storage as well as automatic vision alignment of the substrate to the screen image.

HMI's MSP-886 is an automated precision screen printer equipped to interact with the operator or support the demands of an integrated production line.

The MSP-886 takes the [MSP-885PC](#) to the next level: full automation. All the precision elements of the MSP-885PC are now combined with a fully automated vision system. The manually adjusted X, Y, Ø micrometer stage is replaced by a precision motorized X, Y, Ø stage. Combined with an optional programmable print head, the entire printer can be controlled through the computer's graphical interface without any manual settings.

The MSP-886 can be a hand loaded and unloaded standalone printer, or fully integrated into an automated print line. Printer setup parameters can be saved and recalled from the industrial computer. Substrate to screen alignment is fully automatic. Optional programmable print heads eliminate any manual machine settings. The MSP-886 can easily interface with other interactive handling, inspection and processing equipment in an automated assembly line.



Key features include:

- Electric Servo Squeegee Drive
- Automatic Vision Alignment
- Motorized X, Y, Ø Positioning Stage
- Pneumatic Screen Frame Clamping
- Icon Driven Operator Interface
- Ergonomically Mounted Flat Screen Monitor, Optical Mouse, and Keyboard
- Computer Control w/ Unlimited Recipe Storage
- Standalone or Fully Automated Configuration

Specification:

Machine Dimensions (W x D x H)	44" x 45.5" x 60" (1.12m x 1.16m x 1.53m)
Machine Weight (Approximate)	900 lb (409 kg)
Controls	Computer Control
Vision Alignment	Automatic Vision Included
Print Head	Mark III Torsion bar squeegee head (other options available) See other options
Squeegee Drive	Electric servo motor
Substrate Transport	Reciprocating workholder carriage
Screen/Substrate Alignment Method	Motorized stage; micro-stepper motors for X, Y, Ø
Carriage Position Repeatability	±0.0002" (±0.005mm)
Screen Position Adjustment	N/A
Screen Frame Attachment	Pneumatic clamping
Operator Interface	Ergonomically mounted flat screen monitor, optical mouse, and keyboard
Configuration	Standalone or fully automated loading and unloading configuration

Maximum Print Capabilities

Maximum Screen Size (ID):	12" x 12" (304mm x 304mm)
Maximum Substrate Size:	8" x 8" (203mm x 203mm)
Maximum Print Area:	8" x 8" (203mm x 203mm)



Print Head Options:

	SLP-II	DS-IV	Mark-III
Printer Compatibility	Computer Controlled Printers Only	All	All
Pressure Control	4 Linear Servo Motors	Pneumatic	Torsion Bar
Set Pressure	Computer Input	Computer or Touchscreen	Micrometer
Dual Squeegee Capability	Yes	Yes	No
Flood Blade Capability	Yes	Yes	Yes
Adjustable Angle of Attack	Yes	Yes	Yes
Programmable Pressure	Yes	Yes	No
Programmable Downstop	Yes	No	No
Squeegee Leveling	Automatic	Manual	Manual

Automation

HMI has the ability to turn your stand-alone printer into a fully-automated system using our substrate handling line of products. Whether your system requires the integration of HMI manufactured processing equipment, such as an HMI IR Dryer, or other processing equipment, such as a furnace supplied by another manufacturer, HMI can provide the handling products to move a blank substrate through the system until it becomes a completed assembly.