



MSP-1825PC Precision Screen Printer



The MSP-1825PC is the next step up from the MSP-1825 introducing programmability and automation.

The MSP-1825PC has all the same features as the standard [MSP-1825](#), but is controlled instead by a computer. The introduction of a more complex computing system introduces the possibility of a more complex interaction with the printer and with the system surrounding the printer. The printer can save and recall setup recipes, it can handshake with handling equipment and produce statistics related to its operation.

Another advantage of the MSP-1825PC is the introduction of a Graphic User Interface (GUI). A monitor and a keyboard are available to the operator for interaction with the printer. The GUI is also the first step to introducing an automated vision alignment system. While the GUI is a significant enhancement for the MSP-1825PC, it also greatly reduces the cost and modification required down the road, should a vision system be required.

The MSP-1825PC includes a standard servo driven squeegee and a servo driven "Z" axis adjustment. This allows squeegee speed, squeegee lift and end points, as well as, screen snap off to be computer programed and adjusted through the GUI.



The computer allows the printer to be fitted with various optional squeegee print heads. The computer capability can interface with a number of the automated or feedback print heads available from HMI. Automating the print head allows the operator to program squeegee pressure, down stop and flood settings.

The MSP-1825PC provides the platform necessary to introduce automated print heads and allows for an easy upgrade to fully automated vision alignment.

Key features include:

- Electric Servo Squeegee Drive
- Manual X, Y, T Substrate Alignment
- Pneumatic Clamping Screen Frame Attach
- Graphic Operator Interface, Keyboard and Monitor
- Computer Control System w/Setup Recipe Save and Restore
- Stand-alone, In-Line Capable Configuration

Specification

Machine Dimensions (W x D x H)	66" x 75" x 60" (1.68m x 1.91m x 1.53m)
Machine Weight (Approximate)	1550 lb (705 kg)
Controls	PC Control
Vision Alignment	Manual
Print Head	Mark III Torsion bar squeegee head See other options
Squeegee Drive	Aqueous, closed system
Substrate Transport	Reciprocating workholder carriage
Screen/Substrate Alignment Method	Manual screen; Independent micrometers for X, Y; independent true Ø adjustment with dial indicator readout
Carriage Position Repeatability	±0.0002" (±0.005mm)
Screen Position Adjustment	N/A
Screen Frame Attachment	Bolt-on
Operator Interface	Color touchscreen
Configuration	Standalone or automated

Maximum Print Capabilities

Maximum Screen Size (ID):	29" x 29" (736mm x 736mm)
Maximum Substrate Size:	21" x 21" (533mm x 533mm)
Maximum Print Area:	18" x 20" (457mm x 508mm)