



MSP-1825PLC Precision Screen Printer



The MSP-1825 is a screen printer designed for SMT production applications that require the process control and registration demands HMI has always delivered to our core thick film electronics industry customer.

The MSP-1825 is a semi-automatic precision screen printer designed for the surface mount technology (SMT) market. Its ability to accommodate the industry standard 29×29 OD tubular aluminum stencil frame is a nod to the segment of the SMT production environment that requires enhanced print quality.

The MSP-1825 has a manually adjustable stage for holding, locating and aligning the board for print. The stage offers precise incremental changes in "X", "Y" and "T". The "T" or theta axis is a true rotation about the center of the stage. This allows for rotational adjustment without affecting the X and Y position settings.



The printer can be customized to accommodate large area wafer fabrication, fine pitch solder paste deposition, PCB imbedded components and flexible substrate production. The MSP-1825 is managed by a programmable logic controller (PLC) processing system. Various printer functions can be selected and set using the PLC interface. Other printer setup adjustments can be made manually where incremental, repeatable and lockable controls are provided. Custom designed vacuum hold down and tooling is available. The printer can also be fitted with a manual vision alignment system.

Key features include:

- Aqueous Squeegee Drive
- Manual Substrate Alignment X,Y,T Screen Alignment
- Bolt-on Screen Frame Attach
- LCD Programmable Touch Screen Operator Interface
- PLC Control System
- Stand-alone, In-Line Capable Configuration

Specification

Machine Dimensions (W x D x H)	61" x 66" x 60" (1.55m x 1.68m x 1.53m)
ine Weight (Approximate)	1400 lb (635 kg)
Controls	PLC
Vision Alignment	Manual
Print Head	Mark III Torsion bar squeegee head See other options
Squeegee Drive	Electric servo motor
Substrate Transport	Reciprocating workholder carriage
Screen/Substrate Alignment Method	Workholder stage adjustment
Carriage Position Repeatability	±0.0002" (±0.005mm)
Screen Position Adjustment	N/A
Screen Frame Attachment	Bolt-on
Operator Interface	GUI, computer keyboard and monitor
Configuration	Standalone

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)