

SP-2020

BI-DIRECTIONAL SOLDER PASTE PRINTER

Dual Squeegee Heads Allow Bi-Directional Print

FEATURES

Controllable Squeegee Pressure

- ✓ Eliminate Uneven Solder Paste Deposition

Dual Squeegee Heads

- ✓ Bi-Directional Printer Yields Accuracy and Speed

Multiple Adjustments

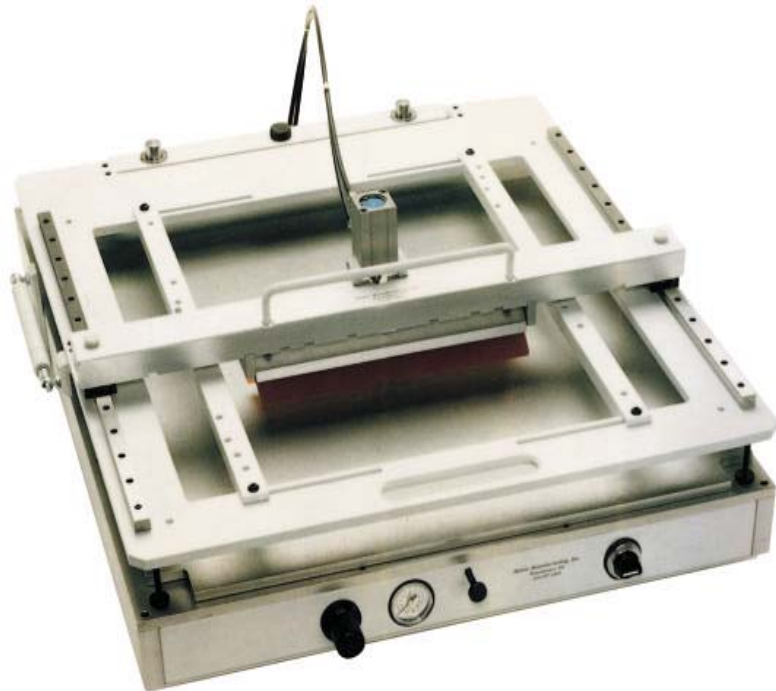
- ✓ X,Y,Z and Theta Controls Guarantee Repeatability

Variable Frame Holder

- ✓ Unique Frame Holder Adjusts for Various Sizes

Adjustable Board Registration

- ✓ Guaranteed PCB Alignment



The low cost, manual stencil printer from Manix Manufacturing, Inc. provides maximum flexibility with minimal investment. The model **SP-2020 Stencil Printer** applies solder paste on PCBs as large as 19" x 19".

The **SP-2020** accepts stencil frames from 4" x 4" to 20" x 20". A unique adjustable frame holder adjusts for various frame sizes in seconds. Two bi-directional print heads provide accurate solder paste deposition.

Most manual printers feature a handheld squeegee. Due to inconsistent operator pressure, the print application is uneven. The **SP-2020** offers dual squeegee heads mounted on precision linear slides. Both heads have controllable squeegee pressure eliminating inconsistent print.

Standard features include $\pm 5^\circ$ theta axis adjustment, and $\pm .002"$ X, Y and Z axis adjustment. Two 11-inch squeegees are included. An adjustable board registration holder aligns PCBs accurately.

Printers can be ordered with optional factory installed registration pins. Optional squeegees are available.

SP-2020

SOLDER PASTE PRINTER

METHOD OF OPERATION

Manix Manufacturing, Inc. provides the **SP-2020** to enable SMT assemblers to take advantage of high performance metal stencils and/or screens for applying solder paste to PCBs.

The stencil frame is attached to the adjustable frame holder incorporated in the top shell of the printer. The frame holder is fully adjustable and accepts stencil frames as small as 4" x 4" or as large as 20" x 20".

The board is placed on the tooling plate after stencil attachment. Alignment of the board to the stencil is made after the top clamshell is closed. X, Y, Z and theta positions are adjusted by a simple turn of the knobs. When the openings in the stencil match solder pad locations the print area is ready for paste.

To begin production the operator applies solder paste and pulls the handle in the direction of the print. The print head applies the paste. When finished in one direction, the operator activates a switch and the opposite squeegee lowers. The printer is ready to apply paste in the other direction.

STANDARD

- ✓ Heavy-Duty Base
- ✓ Two 11" Squeegees
- ✓ Controllable Squeegee Pressure
- ✓ PCB Alignment Holder
- ✓ Unique PCB Positioner

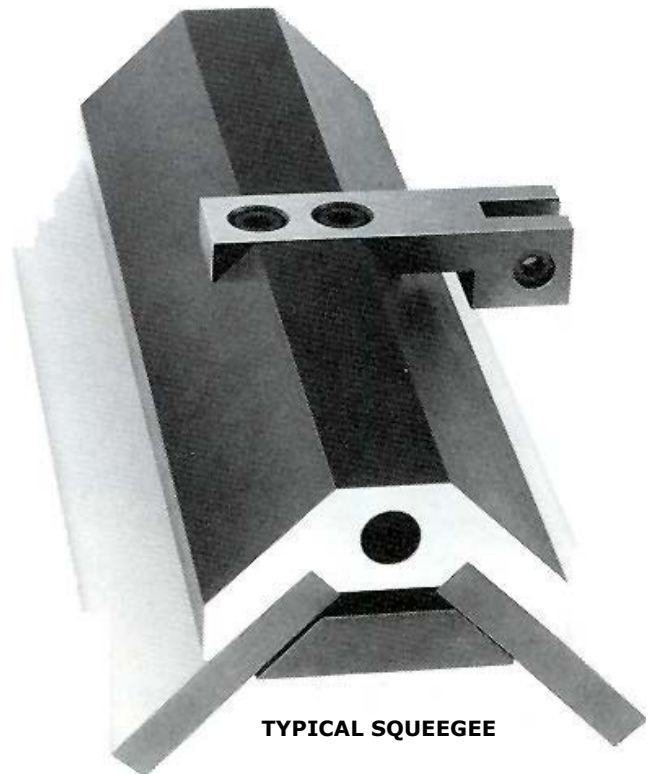
OPTIONS

Registration Pins

- ✓ Squeegee Assemblies
- SP-15-01-A = 11.312"
SP-15-02-A = 8.500"
SP-15-03-A = 6.500"
SP-16-04-A = 3.00"
SP-17-01-A = 19.00"

SPECIFICATIONS

Board Size:	19" x 19"
Alignment Control:	• X movement • Y movement • Z movement • Theta rotation
Dimensions:	30" L x 25" W x 9" H
Weight:	92 lbs.
Pneumatics:	40 psi max. required
Vacuum:	Venturi-style pump
Color:	Off-white base and top cover (clamshell) Clear anodized tooling plate/squeegee holders



TYPICAL SQUEEGEE



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