

MPS TF-100



STAND ALONE SCREEN AND STENCIL PRINTER FOR THICK FILM & SMT ASSEMBLY

MPS's TF-100 is a precision stand alone stencil and screen printer specifically designed for thick film circuitry in hybrid microelectronic applications. It is also ideal for surface mount (SMT) and through hole applications within its 6" X 6" (152mm x 152mm) print area format.

The TF100 provides the high degree of precision and repeatability required for R&D and prototype applications. Its simplicity of setup and operation, as well as its rugged design and construction, also make it well suited for demanding production environments.

Greater Flexibility and Control

The TF-100 control module allows users to make a variety of print parameter adjustments. For example, the Mode Selection Switch allows the operator to select any one of four automatic print cycles; print/print, alternate print, flood/print, and print/flood.

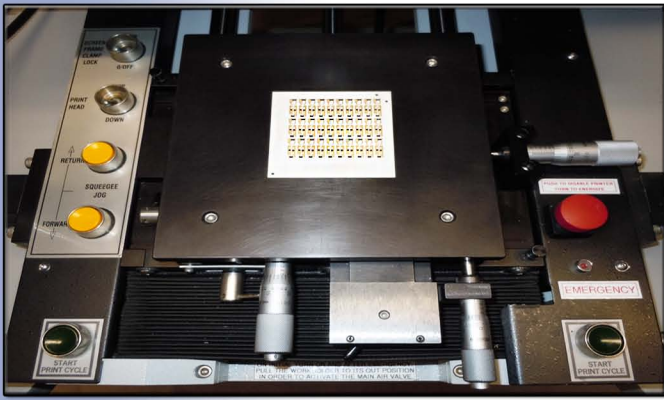
Solid state electronics provide years of reliable service with minimal maintenance.

A variable "squeegee up" delay (up to 2 seconds) allows the stencil to peel off behind the squeegee for off contact applications involving a viscous material. To help users obtain the best print images possible, an adjustable carriage return delay can be employed, depending on the specific characteristics of the materials used.



"PRECISION PRINTING TECHNOLOGIES"

CE CERTIFIED



The TF-100 is designed for a full spectrum of SMT and hybrid applications.

Compact, Versatile

Because of its tremendous flexibility, the TF-100 offers exceptional cost/ value advantages. The printer can accommodate a wide range of substrates, including ceramic and FR-4, and materials ranging from cermet and polymer thick film to solder paste, epoxies, and solder mask. Frame adapter plates for the TF-100 enable it to accept all standard stencil frames up to 12" x 12" (305mm x 305mm).

Fast, Easy Setup and Cleanup

The TF-100 offers two unique features that facilitate setup. MPS's unique mylar alignment system provides rapid one-print registration of any pattern. In addition, MPS's unique 3 point frame registration system simplifies stencil removal and cleaning. This feature permits the reinstallation of the same stencil after cleaning without pattern realignment. Independent dial adjustments for screen height (snap-off) and squeegee downstop further facilitate setup.

A pneumatically raised print head with a stencil "tilt-away" feature provides full access to the stencil and squeegee assembly for stencil replacement and cleanup. In addition, because the TF-100 is designed with a single squeegee and pre-set hop-over, setup and cleanup are fast and easy. The single squeegee design also increases the squeegee stroke length for maximum print area in all modes.

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SPECIFICATIONS

Print Area: Up to 6" x 6" (152mm x 152mm)
Board Size: Up to 6" x 6" (152mm x 152mm)
Frame Size: Up to 12" x 12"
 (305mm x 305mm) O.D.

Substrate Carriage:
Repeatability: ±0.0005" (12.7 microns)
X-Y Adjustments: ±0.500" (12.7mm)
Rotary Adjustment: ±10°
 Axis individually locked

Squeegee Head:
Print Stroke Adjustment: 1" to 9"
 (25mm to 229mm)
Speed: 0-15" (0-381mm) per second
Screen Height Adjustment Range: 1" (25mm)
Pressure: 2-30lbs. (.9-13.6kg)
 by calibrated springs
Angle of Attack Adjustment: ±5°
Squeegee Holder: Up to 7.5" (190mm)
 with 0.375" (9.5mm) square blade

Service:
Power: 115V, 60Hz, 1 amp, single phase
 (220V, 50Hz, 0.5 amp, single phase)
Air: 80-125 psi at 6 CFM
 (5.5 to 8.5 Bar @ .18 cubic meters)

Dimensions:
Machine Width: 16" (406mm)
Machine Depth: 41" (1041mm)
Machine Height: 45" (1143mm)
Table Width: 37" (940mm)
Table Length: 48" (1219mm)
Shipping Weight: 450 lbs. (205kg) crated

