

## High-Accuracy Screen Printer

# GP-551E



## High speed printing of PCBs of up to 20 x 18 inches.

High precision, high speed printing achieved with a hermetic squeegee unit in a compact design. This is the ideal combination for the prevention of deterioration using lead-free solders.

### ■ Hermetic Squeegee Head, Pushing the Borders of Fine Pitch Printing

The enclosed structure of this squeegee unit prevents exposure of the cream solder, reducing oxidization which leads to the formation of solder balls and solder bridging. This design also removes the need to roll the solder in front of the blade as it is applied under constant static pressure to the screen apertures from within the squeegee head. This combination of functions allows the GP-551E to deliver consistently high accuracy, high speed fine-pitch printing.



### Features

- **Hermetic Squeegee Unit.**  
The hermetic squeegee unit is Ideal for precision screen printing.
- **Flip Chip Solder Pattern Printing Capability.**
- **Adhesive Glue Printing Technology.**
- **Support for pusher pressure control.**  
(input range: 0.5 to 5 kgf/cm<sup>2</sup>)
- **Precision printing using Fuji's vision system.**
- **Fully programmable mask cleaning unit.**
- **Snap-off function for ultra-small chip and fine pitch apertures.**
- **Programmable squeegee pressure control.**
- **Automatic cream solder supply unit.**
- **Choice of a hermetic or double squeegee unit.**
- **The GP-551E can handle 508x457mm (20x18 inch) PCBs.**
- **Use Current FUJI and Third Party Screens on the GP-551E.**
- **Program data can be transmitted to the host.**

### Specifications

<b>PCB dimensions</b>	Max.: 508mm X 457mm Min.: 80mm X 50mm t = 0.5 to 4.0mm (Option required for handling PCBs of less than 0.8 mm in thickness)
<b>Screen frame compensation accuracy (fiducial mark reference)</b>	0.020 mm (3σ)
<b>Printing speed</b>	1 to 300 mm/sec.
<b>Squeegee pressure</b>	1 to 20 kgf (programmable / adjustable at the machine)
<b>Snap-off speed control</b>	0.01 to 80 mm/sec. (multi-step control / specified in program / transmission of programs to the host)
<b>Air supply</b>	0.5 Mpa ( 5 kgf/cm <sup>2</sup> ), 114N ℓ / min
<b>Power</b>	3-phase, 200 to 480 VAC, 2500VA
<b>Machine dimensions</b>	L: 1785 mm W: 1750 mm H: 1550 mm (H: excluding signal tower) (H: 1823 mm with temperature control unit)
<b>Weight</b>	Approx. 2600 kg
<b>Options</b>	● Air conditioning system ● Adapters for using third party frames. ● HELPS (computerized job change assistance system)

SECS / GEM Support (Option)