

# High Performance & Flexible Printer

## SP1-W

### A New Standard in High Performance and Flexible Printing

The SP1-W screen printer offers increased print size for large board applications while maintaining Industry leading accuracy specifications. With its high print quality and reduced cleaning time, the SP1-W screen printer increases productivity, maximizing throughput and ROI Available in a dual lane architecture it can also provide mixed production of 2 different PCB models at the same time.



- Printing Accuracy : 12.5 $\mu$ m@6 $\sigma$
- Printing Cycle Speed : 7 sec
- Applicable PCB : 510(L) x 460(W) (Single Lane)  
330(L) x 310(W) (Dual Lane)
- Stencil Size : Max. 736(L) x 736(W)
- Machine Size : 1,540(W) x 1,650(D)
- Mixed Production of Different Types of PCBs /  
Automatic Stencil Position Setting / SPI Feedback /  
Advanced Software Interface
- Options Include Dual Lane Configuration and  
Extension Conveyors

High Performance & Flexible Printer

# SP1-W



## Greater Range of PCB and Stencil Sizes

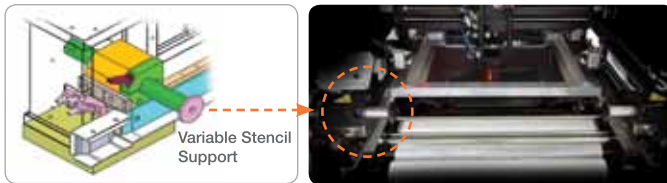
### Supports PCBs up to 510 x 460mm

- Allows dual mode operation up to 330 x 250mm.
- Provides printing accuracy of 12.5µm@6σ with a printing cycle time of 7 seconds.

### Multiple stencil sizes

- Supports sizes from 550 ~ 736mm and the variable support allows quick change between types with indexes at 550, 600, 650 and 736mm

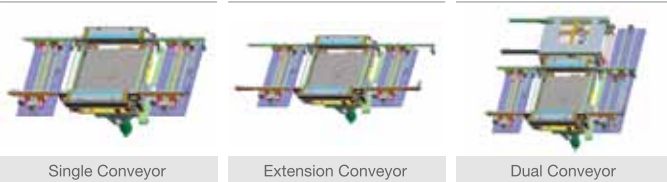
Length x Width(mm)	Minimum	550 x 650 650 x 550	Maximum	736 x 736
--------------------	---------	------------------------	---------	-----------



## Configurable with Various Conveyor Types

Allows conveyor configuration according to the user's production environment

- Single, dual and extension conveyors supported.



## Reduced Cleaning Time

Increases productivity by reducing the cleaning time by improving the cleaning sequence.

## One Touch Squeegee Replacement

Allows easy squeegee replacement by changing the manual screw attachment to an instant removal and installation method.



## Increased User Convenience

### Allows mixed production of different types of PCBs

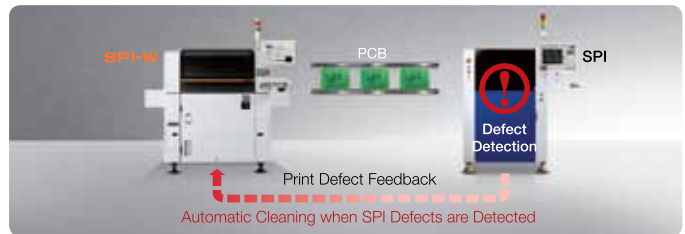
- Allows inline operation with two sets of printers by applying a dual-lane conveyor (bypass) for high speed and mixed production.

### 2D barcode tracking function

- Allows tracking of printing defects by recognizing the 2D barcode attached to a PCB and saving the PCB information.

### SPI feedback function

- Improves the printing quality and defect ratio by performing automatic inspection and cleaning of the mask openings after receiving feedback from SPI stage.



### Default PCB program

- Minimizes user operation requirements during printing conditions by providing a default PCB program.



### Automatic solder paste supply

### Automatic stencil position setting

### Automatic print height leveling

### Environmental control unit (External type)

### Circulation blower (Internal type)

## Specifications

Model		SP1-W	
Cycle Time		7sec	
Alignment		±12.5µm@6σ	
Wet Print		±25µm@6σ	
Board Handling	Minimum(mm)	50(L) x 50(W)	
	Maximum(mm)	Single	510(L) x 460(W)
		Dual	330(L) x 310(W)
	Board Thickness(mm)	0.4 ~ 5.0	
Stencil	Minimum(mm)	550(L) x 650(W) 650(L) x 550(W)	
	Maximum(mm)	736(L) x 736(W)	
	Frame Thickness(mm)	30 ~ 40	
	Matching	Center Standard	
Vision	Function	Fiducial Recognition Inspection	
	FOV(mm)	10.6 x 8.0	
	Fiducial Shape	●, ▲, ■, ◆, +	
Utility	Power	100/110/120/200/220/240V Single Phase(50/60Hz) Max. 4.5kVA	
	Air Supply	Pressure 4.5 ~ 7.0kgf/cm <sup>2</sup> Max. 600 ~ 700Nℓ/min	
Mass		Approx. 1,620kg	
External Dimension(mm)		1,540(W) x 1,650(D) x 1,447(H)	



SAMSUNG TECHWIN

### MMS Division SMT Overseas Business Dept.

#### Main Office

Samsungtechwin R&D Center, 701, Sampyeong-dong, Bundang-gu, Sungnam-Si, Gyeonggi-Do, 463-400, Korea

• Tel : +82-70-7147-5459, 6309 Fax : +82-31-8018-3723

• http : // www.samsung-smc.com

• Please note that specifications and product information in this catalog are subject to change without notice.