









Specifications

Model Name	SPI-D2	SPI-C	SP2-C	SPI-W
Alignment Repeatability	±12.5um @ μ+6σ	±12.5um @ μ+6σ	±12.5um @ μ+6σ	±12.5um @ μ+6σ
Wet Print	±25um @ μ+6σ	±25um @ μ+6σ	±25um @ μ+6σ	±25um @ μ+6σ
Cycle Time	5sec(Excl. Printing Time)	5sec(Excl. Printing Time)	5sec(Excl. Printing Time)	7sec(Excl. Printing Time)
Board Handling				
Max.Size(mm)	330(L)×250(W)(Single Lane) 330(L)×250(W) (Dual Lane/Option)	330(L)×250(W)(Single Lane) 330(L)×250(W) (Dual Lane/Option)	350(L)×250(W)(Single Lane) 350(L)×250(W) (Dual Lane/Option)	510(L)×460(W)(Single Lane) 330(L)×310(W) (Dual Lane/Option)
Min.Size(mm)	50(L)×50(W)	50(L)×50(W)	50(L)×50(W)	50(L)×50(W)
Thickness(mm)	0.38~4.0	0.4~4.0	0.4~4.0	0.4~5.0
Max.Weight(kg)	1.5	1.5	1.5	3.0
Stencil				
Min.Size(mm)	550(L)×650(W)	550(L)×650(W)	550(L)×650(W) 650(L)×550(W)	550(L)×650(W) 650(L)×550(W)
Max.Size(mm)	650(L)×550(W)	650(L)×550(W)	736(L)×736(W)	736(L)×736(W)
Frame Thickness(mm)	30~40	30~40	30~40	30~40
Matching	Center Standard	Center Standard	Center Standard	Center Standard
Vision				
Function	Fiducial Recognition, Inspection	Fiducial Recognition, Inspection	Fiducial Recognition, Inspection	Fiducial Recognition, Inspection
FOV(mm)	10.6×8.0	10.6×8.0	10.45mm ± 2%	10.6×8.0
Fiducial Types	●, ▲, ■, ♦, +	●, ▲, ■, ♦, +	●, ▲, ■, ◆, +	●, ▲, ■, ◆, +
Fiducial Size(mm)	0.5~4.0	0.5~4.0	0.5~4.0	0.5~4.0
Operator Interface				
Hard Ware	LCD Monitor, Mouse & Keyboard			
Software Operating System	Window XP Embedded	Window XP Embedded	Window 7 Embedded	Window XP Embedded
Utility				
Power Supply	100/110/120/200/220/240V (±5%)Single Phase	100/110/120/200/220/240V (±5%)Single Phase	100/110/120/200/220/240V (±5%)Single Phase	100/110/120/200/220/240V (±5%)Single Phase
	Max.4.5kVA, 50/60Hz	Max.4.5kVA, 50/60Hz	Max.4.5kVA, 50/60Hz	Max.4.5kVA, 50/60Hz
Air Supply	Pressure 4.5~7.0kgf/cm ²	Pressure 4.5~7.0kgf/cm ²	Pressure 4.5~7.0kgf/cm ²	Pressure 4.5~7.0kgf/cm ²
	Max. 700Nl/min	Max. 700Nl/min	Max. 700Nl/min	Max. 600~700Nℓ/min
Mass	Approx. 1,290kg	Approx. 1,250kg	Approx. 1,150kg	Approx. 1,620kg
External Dimension(L×D×H mm)	1,300×1,475×1,895	1,326×1,200×1,904	1,376×1,200×1,904	1,540×1,650×1,921
Option List				
SPI Auto Cleaning	Standard	Standard	Standard	Standard
Auto Printing Offset Control	Standard	Standard	Standard	Option
Dual Lane Conveyor(Bypass)	Option	×	×	Option
Dual Lane Conveyor (Conveyor In Common Use at the Front and Rear)	×	Option	Option	×
Air Conditioner(External)	Option	Option	Option	Option
Fan Blower(Internal)	Option(External)	Option	Option	Option
ASS(Auto Solder Supply)	Option	Option	Option	Option
Stage Auto Leveling	Standard	Standard	Option	Standard
PCB Temperature Sensor	Option	Option	Option	Option
Gerber Pad	Option	Option	Option	Option
Default PCB Program	Standard	Standard	Standard	Standard
2D Barcode Tracability	Option	Option	Option	Option

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



Experience Your SMART FACTORY



Compact High Performance

SP Series

Compact High Performance Screen Printer

A high performance printer of the SP series, created with the SMT technology of Hanwha. Provides the highest productivity as well as 6 SIGMA level high quality printing.



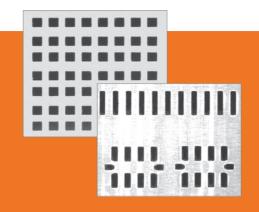
SP2-C

- Printing Accuracy: ±12.5μm@μ+6σ
- Printing Speed : 5sec
- Available for 03015 microchip printing
- Applicable PCB : 350(L)×250(W)
- Stencil Size : 736(L)×736(W)
- Machine Size : 1,376(L)×1,200(W)
- Dual Lane/ mixed production available (2 sets connected in parallel) / SPI feedback / Automatic mask setting and leveling / Providing various user conveniences

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Compact High Performance Screen Printer SP Series

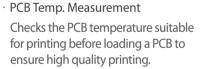


6 sigma level of high quality printing

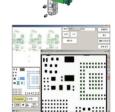
■ Alignment Accuracy: ±12.5μm@μ+6σ Applies new alignment mechanism for high quality printing.



· Mask Opening Inspection Function Prevents defective printing by inspecting masks in advance using the Gerber file after replacing or cleaning the mask.



■ Defective Print Feedback System

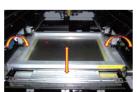




Rapid Job Change

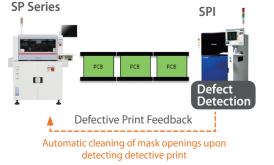
Automatic Mask Position Setting

automatically moving to the when loading the stencil mask.



Automatic Leveling of Printing Height

printing height using the height sensor.

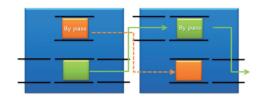


Improves print quality and the non-adjusted production ratio by automatically inspecting and cleaning mask openings by

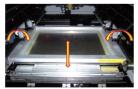
receiving the feedback of the SPI print defect information.

Support for Mixed Production

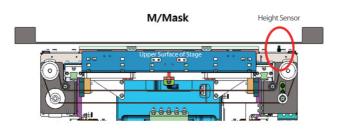
 Allows high speed mixed production by connecting two printers in series when applying the dual lane conveyor (bypass). (SP1-D2, SP1-W)



Allows rapid job change by printing position for print setting



Allows automatic leveling of printing height to the initial



Increased User Convenience

Maximized Operational Convenience

Operational convenience is maximized by monitoring a variety of information about production.

- · Display of Various Production Information: Printing cycle, cleaning, planned production quantity, vacuum/ printing pressure
- Visualization of Utilities: PCB/mask, temperature, solvent,
- Visualization of PCB Flow: PCB flow chart, print setup, manual PCB loading



Automatic Solder Supply Unit

Minimizes solder cream consumption by supplying solder automatically.





■ 2D Barcode Tracking Function

Tracks and manages each PCB through data interface necessary for the 2D barcode system.



Various Options Available

Air Conditioner (External Type)

Maintains constant printing temperature for a stable printing environment.

· Product Name: HTC-1380

· Set Temperature: 20°C~30°C(±0.5°C)

· Power Supply: 220V, 1Phase, 60Hz

· Size: 497(W)×610(D)×965(H)

· Weight: Approx. 67kg



■ Fan Blower Unit (Creating Mask Vacuum)

Allows high quality printing by creating a vacuum below the PCB when printing micro components (0402/03015, etc.) to improve lead dropping efficiency.

