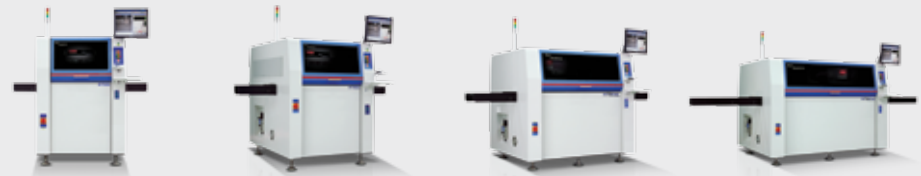


Compact & Optimal Design

# HIT520 Series



## Specifications

Model	HIT520	HIT520L	HIT520XL	HIT520H
Alignment Repeatability	±12.5µm@6σ			
Printing Accuracy	±25µm@6σ			
Cycle Time (Excl. Printing Time)	7 sec	9 sec	11 sec	15 sec
Product Changeover	2 min	2 min	2 min	2 min
New Product Set Up	5 min	5 min	5 min	5 min
<b>PCB</b>				
Minimum Size (Length x Width)	50mm x 50mm			
Maximum Size (Length x Width)	450mm x 300mm	610mm x 420mm	780mm x 420mm	1200mm x 500mm
Thickness	0.4mm ~ 6mm	0.4mm ~ 6mm	0.4mm ~ 6mm	0.4mm ~ 6mm
Maximum Weight	4 kg	4 kg	10 kg	10 kg
PCB Under Clearance	17 mm			
Clamping Type	Edge Clamp (STD), Top Clamp, Vacuum			
Board Support Methods	Back Up Pin, Back Up Block, Back Up Curtain, Vacuum Block			
Transport Direction	Left → Right, Right → Left (Option)			
Conveyor Width Adjustment	Stage: Auto, In/Out : Manual			
<b>Printer Parameters</b>				
Stencil Separation Speed	0.5 ~ 30 mm/sec	0.5 ~ 30 mm/sec	0.5 ~ 30 mm/sec	0.5 ~ 30 mm/sec
Stencil Separation Distance	0 ~ 5 mm	0 ~ 5 mm	0 ~ 5 mm	0 ~ 5 mm
Print Speed Range	1 ~ 300 mm/sec	1 ~ 300 mm/sec	1 ~ 300 mm/sec	1 ~ 300 mm/sec
Print Force	0 ~ 20 kgf	0 ~ 20 kgf	0 ~ 20 kgf	0 ~ 20 kgf
Squeegee Type	DLC Coating Metal Squeegee			
Squeegee Length	250mm, 350mm, 420mm, 600mm (User defined)			
Squeegee Moving Direction	Y Axis	Y Axis	X Axis	X Axis
Minimum Size	650mm x 550mm	650mm x 550mm	650mm x 550mm	736mm x 550mm
Maximum Size	650mm x 650mm	736mm x 736mm	970mm x 736mm	1500mm x 736mm
<b>Vision</b>				
Vision Field of View (FOV)	8.5mm x 8.0mm	8.5mm x 8.0mm	8.5mm x 8.0mm	8.5mm x 8.0mm
Fiducial Types	Circle, Triangle, Square, Diamond, Cross (●,▲,■,◆,+) )			
Fiducial Size	0.5mm ~ 3mm	0.5mm ~ 3mm	0.5mm ~ 3mm	0.5mm ~ 3mm
<b>Facilities</b>				
Operation System	Windows XP, Flash Memory Type HDD			
Air Supply	4 ~ 6 kg/cm <sup>2</sup>			
Power Supply	220V ±20V Single Phase, 2kW 50/60 Hz			
Weight	800 kg	900 kg	1,000 kg	1,200 kg
Size (Length x Width x Height)	1.610 x 1.605 x 1.430 (1.200 x 1.605 x 1.430)	2.000 x 1.755 x 1.430	2.580 x 1.755 x 1.430	3.824 x 1.582 x 1.430

Machine has the standard list as below :

- Back Up Pins/Blocks
- Vacuum Curtain/Block
- Top Clamp
- Auto Pressure Control
- PCB Temperature Sensor
- Automatic Mask Position
- 4 Fiducial Mark system
- 2D Inspection



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Compact & Optimal Design

# HIT520 Series



### Compact Design HIT520 High Performance

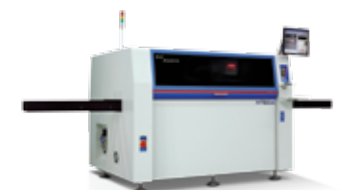
- Machine Size : 1.610(W)×1.605(D)  
[Compact Type : 1.200(W)×1.605(D)]
- Applicable PCB : 450(L)×250(W)
- Alignment Accuracy : 12.5 µm@6σ
- Print Cycle Time : 7 seconds  
[Excluding Printing Time]



**HIT520L**  
For Large PCB  
610mm(L) × 420mm(W)

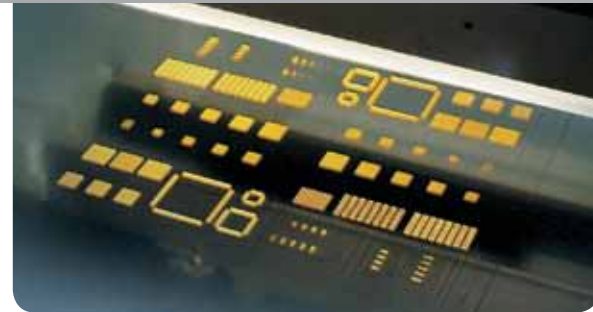


**HIT520XL**  
X-Axis Moving  
780mm(L) × 420mm(W)



**HIT520H for LED**  
X-Axis Moving  
1,200mm(L) × 500mm(W)

Compact & Optimal Design



# HIT520 Series

Compact & Optimal Design

Optimal design for low cost of ownership



Compact Design  
HIT520

### Optimal Design

Compact design for space efficiency

- Width: less than 1,200mm (Short in/out conveyor system)  
[Normal 3 stage conveyor system: 1,610mm]

### Outstanding Performance

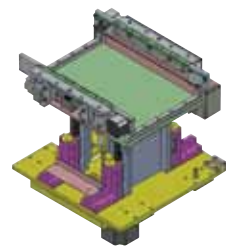
Robust designed stage unit and new alignment mechanism allows high printing quality.

- High accuracy stepping motor moving structure
- Vibration during separating time
- 4 position LM guide for flatness

### High Reliability

Simple board configuration for low maintenance costs

- Main PCB qty : 3 sets



Stage Unit



6 Channels Stepping Motor Drive PCB



Motion Vision Control Board



I/O Control Board

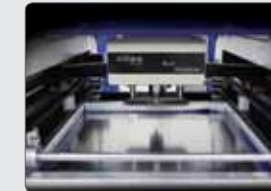
HIT Best Platform  
Screen Printer



Various convenient features for flexible printing application

### Automatic Stencil Moving Device

The new stencil moves to the printing position automatically.



### Precision Camera Module

2D solder paste printing quality inspection

- FOV : 8.5mm x 8mm
- Size : 0.3mm above

Robust structure

- driven by panasonic servo motor and accurate ball screw.
- Lighted by LED illumination panel



### Stencil Width Wide-Range Adjusting Device

Shaft with high precision scale helps to adjust in different size of stencil.  
[Available on HIT520L/XL/H]



### Excellent PCB Fixing System

Standard sets of back up pins and fixture blocks provide excellent fixing for different types of PCBs.



Back Up Pin/Block



Vacuum Block



Back Up Curtain



Vacuum Pump

### Unique Squeegee System

Squeegee pressure can be adjusted automatically. The printing temperature, humidity and pressure can be indicated by LED displays.  
[Available on HIT520/L]



Optimal Design & High Reliability for LED PCB & Flexible PCB

### Squeegee X Axis Moving Printing System

- For printing of LED panel size up to 1,200mm(X) x 500mm(Y)
- X Axis cleaning system
- Paper width = 500mm



### Squeegee X Axis Moving Printing System

- Flexible PCB
- Four fiducial marks can ensure more accurate printing.

