

## High Performance Vision screen printer with Best platform

High speed screen printer with excellent quality assurance. Robust design and the most convenient to the users.

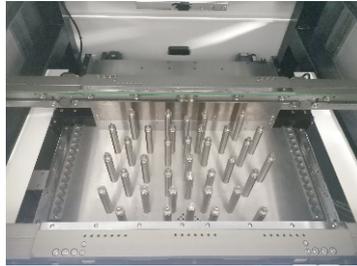
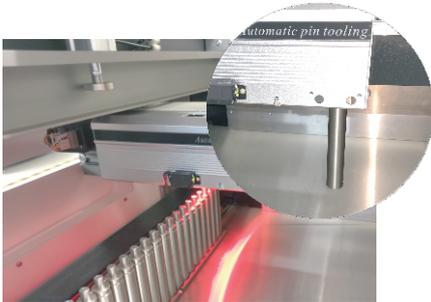
# HIT 520 S<sup>CE</sup> SERIES



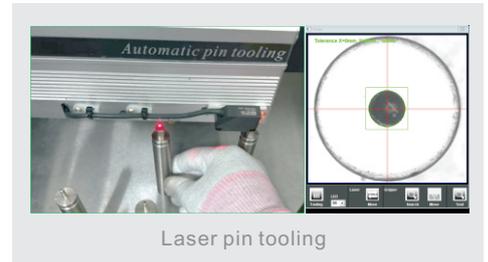
S1、S2

# HIT 520 S<sup>CE</sup> SERIES

## Main Function



Laser pin tooling



Laser pin tooling

### Auto gripper tooling

In the case that there are a large number of precision components and irregular components on both sides of PCB, PIN can not be placed by manual. Via Auto gripper tooling the PIN can be positioned conveniently and accurately.

### Large FOV scan camera

Scan the entire PCB image quickly.  
Set the mark and PIN position.  
No need to measure Mark coordinates by other tools.  
Save program production time and improve efficiency.



### Automatic solder paste supply

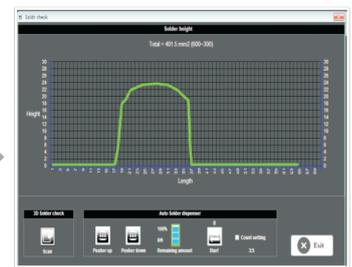
Large extrusion torque, adjustable extrusion distance and speed and controllable solder paste quantity.  
The software calculates the stroke according to the PCB size automatically.  
Self-defined adding solder paste.  
Set the range of adding solder paste according to the opening size of the mask.

### 3D laser solder paste scan

The 3D solder paste laser sensor can monitor the amount of solder paste on the stencil in real time.  
Remind operators to add solder paste in time according to the set parameters.



3D laser sensor



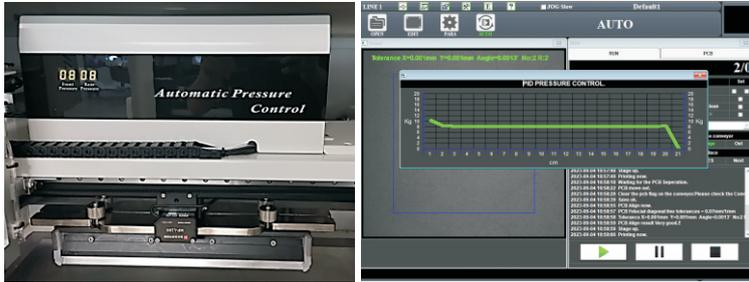
3D solder paste scan picture



### Standby function

One segment conveyor,  
One pieces of PCBs can standby,  
Save the cycle time and Improve productivity.

### Automatic squeegee pressure control

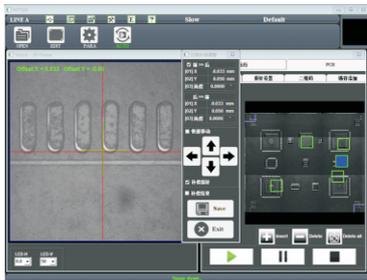


Squeegee pressure graph

With precision pressure sensor and HIT self-developed PID control system, set different pressure according to different products. Real-time adjustment is realized and the pressure of the squeegee is displayed on the panel.

### Visual offset Correction

For PCBs that have expanded and shrunk after printing, solder paste printing compensation can be adjusted by visual magnification image. The operation is simple and fast.

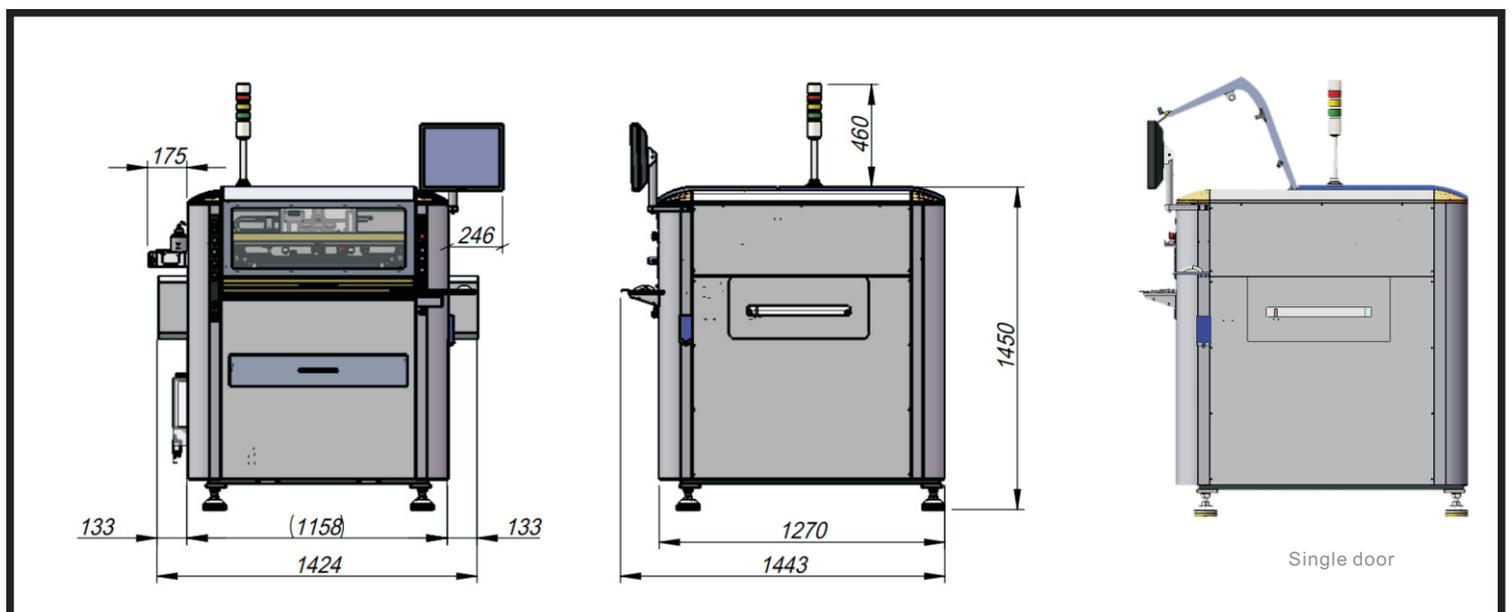


### Adjustable Squeegee

Adjustable type of side guide - Printing Area can be controlled easily for actual PCB size.



### S1 & S2 Appearance



Item	S1	S2	Mark
Mask	Min. size (mm)	650x550	
	Max. size (mm)	736x736	
	Fix method	Cylinder	
	Position	Automatic mask moving system	
PCB	Min. Size(mm)	50X50	
	Max. size(mm)	510x420	510x500 /600x500(Single sided pcb)
	Thickness(mm)	0.4 ~6	
	Max. weight(Kg)	5Kg	
	PCB Under Clearance(mm)	12~25	
	PCB Fix method	Side Clamp (The force the motor can be adjusted by 30~100%)	Top Clamp (0.15mm)
Print time	PCB Support	Magnet Support Pin (3mm,8mm); Magnet Support Curtain	
	Speed(mm/Sec)	1~300mm/Sec	
	Automatic Press Control(Kg)	4 ~ 20Kg (Squeegee PID Control)	
Squeegee	Cycle time(Sec)	8 Sec	8 Sec
	Squeegee type	Fix-squeegee	Option:Adjustable Squeegee
	Length (mm)	350mm 460mm 560mm Custom	L=400mm (50~360mm) L=460mm (50~420mm) L=460mm (50~420mm) Custom
Accuracy	Alignment Repeated	±12.5µm@6s	
	Printing repeatability	±25µm @ 6 Sigma, Cpk=2	
One segment Conveyor	Transmit direction	left ->left, right ->right, left ->right, right ->left	
	Transmit method	Gear timing belt transmission, Auto adjust width	
Fiducial Camera	Standby	One PCB can wait for loading	
	Type	User defined images	
	Mark Size	0.5~3mm	
	Mark Quantity	2, 3 or 4 Fiducial marks	
Stage	Mark search	Auto	
	Separation	Direct separation	
	Speed	0.5~30mm/Sec	
	Distance	0~5mm	
Cleaning system	Stage Vacuum	Vacuum 10%~100%	Adjustable
	Type	Dry, Wet, Vacuum, Air	
	Cleaning head	Silicon Pad	
	Direction	Y' Axis	
2DI Check	Vacuum	10%~100%	Adjustable
	Content	Small solder , No solder , Bridge	
	Size	Over 0.2mm	
PCB Scan Camera	Check Image Quantity	Over 500	
	PCB image scan	FOV 60X60mm	
SPI System	SPI Printing Offset Feedback	Received the feedback information of bad printing from SPI	
Display temperature and humidity	Temperature and humidity	Monitor in real time	
PIN placement	Manual Laser tooling	Placed according to the position indicated by red laser	
Air blower	Cleaning vacuum	Vacuum cleaning	
Change Time	Old Product change time	5 Min.	
	New product setting time	10 Min.	
Others	Air supply	4 ~ 6 Kg/cm <sup>2</sup>	
	Power Supply	220V±10% Single Phase MAX 2Kw 50/60Hz	
	Weight	About 900Kg	About 950Kg
	Dimension(mm)	L 1424 x W 1270 x H1450	
OPTION	Air Condition System	Automatic temperature control	
	PCB Vacuum Fix		
	Mask Vacuum		
	Auto Gripper Tooling System	Accuracy within 2mm	
	Automatic Solder Paste Supply	Z Axis Motor Control	
	3D Solder Paste Check	Monitor solder paste in real time	Remind operators to add solder paste in time
	SecsGEM I/F	HIT	
Hermes I/F	HIT		



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