

New Technology
High Performance
VISION SCREEN PRINTER
HP-520S2



SJ INNOTECH Co., Ltd.



ISO9001
ISO14001

Global Small Giants
INNO-BIZ Corporation
Venture Business

Daegu City Star Company
Promising Export Company
Leading Medium Business

New Technology High Performance
VISION SCREEN PRINTER

HP-520S2



SJ InnoTech Co., Ltd.,

Which started manufacturing SMD equipment in 1997 Oct, has been constantly challenging researching and developing new technologies. In pursuit of innovative value creation in a rapidly changing business environment, with the challenge and enthusiasm for Global No.1, all of our employees are committed to providing superior quality, competitive products, we will do our best to be a truly trusted company with the best professional service.

Production Line

SMD

Vision Screen Printer, Equipment System (Loader, Unloader, Conveyor, Buffer)

Chip Resister


Chip Resister Printer, Laser Scriber

R&D

Glass & Film Screen Printer, Solar Metallization Inline System

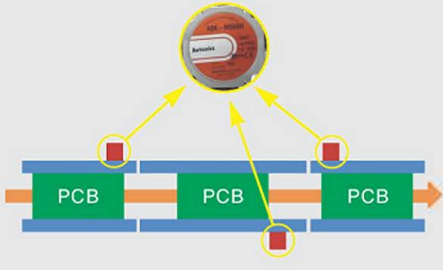
Work Table & Stencil

Heavy PCB Loading



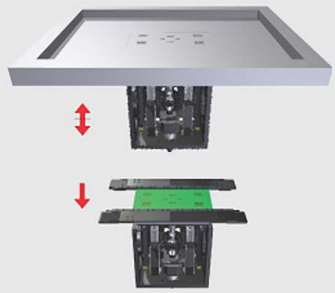
O-Ring Belt 4mm : 8Kg
Flat Belt : Over 8Kg

High Speed Conveyor



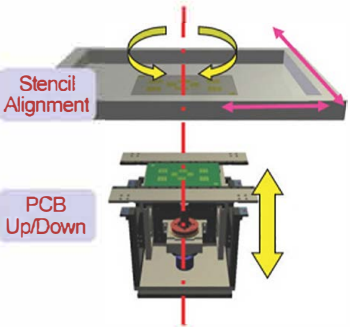
Reduce Cycle Time up to 5 sec

PCB Snap-off (Separation)




Motion Vibrations Separate


Stencil Alignment System



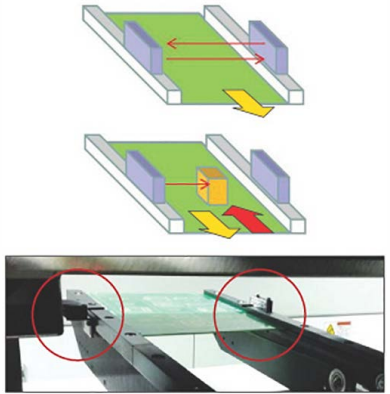
Free Size Stencil Change



Stencil Vacuum Hold

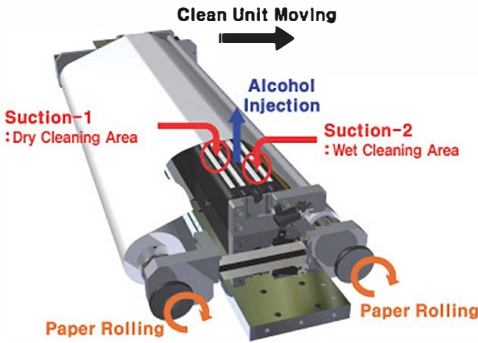


PCB Particle Detector



Cleaning

Double Cleaning effect at 1st cleaning with Wet & Dry Effect



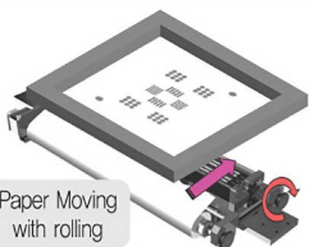
Clean Unit Moving

Alcohol Injection

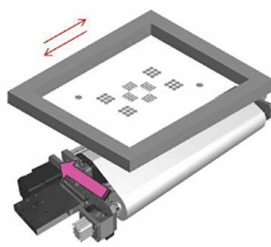
Suction-1 : Dry Cleaning Area

Suction-2 : Wet Cleaning Area

Paper Rolling **Paper Rolling**



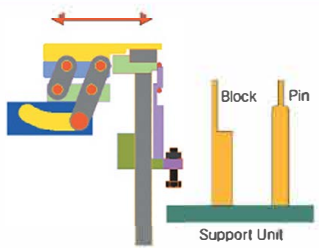
Winding Cleaning



Stencil Wave Cleaning

PCB Clamping

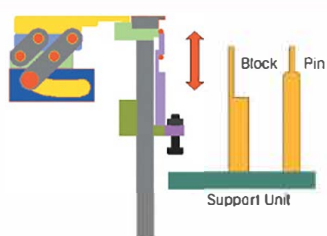
Top Link Clamp



Support Unit

Recommend PCB over 0.8t

Edge Clamp



Support Unit

Recommend PCB under 0.8t

Vision System

4-Point Fiducial Teaching

Coordinate Accuracy

2D Inspection

Inspection Area 1mm x 8mm
Speed Per site 400ms

Array PCB Inspection

Detect Incorrectly Mounted PCB/FPCB

CPK(Process Capability Index)

Repeatability & Accuracy

Alignment
2.0Cpk@±12.5µm

CPK Measure Tooling

X Y Axis Alignment
Measure both Pre & Post CPK

Screen Printer ↔ SPI (Close-Loop Control)

X-Axis

Y-Axis

θ-Axis

Axis Offset control
Auto offset & Cleaning,
Squeegee Pressure & Speed control,
By-Pass, Work Up/Down

MEX(Manufacturing Execution System)

Offline Barcode Manager

- Change Job File by Registered Barcode.
- SQZs, Stencil, Paste History Management.
- Count Limit & Reset Features.

2D Barcode Reading

Size up to 5x5mm,
Code Saved as CSV file
into Traceability

SQZ Speed & Pressure Control

- Real-Time Pressure Tracking
- Separate 5 Section for speed & Pressure Control

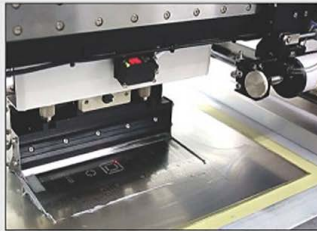
Auto Solder Dispenser



Tube(Jar) Type
Remote Monitoring



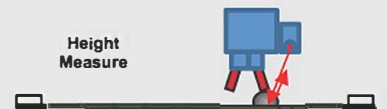
Syringe Type



Solder Height
Sensor



Laser
Sensor



Height
Measure



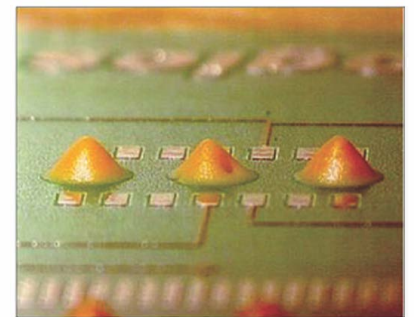
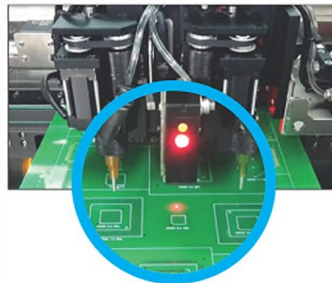
Solder Paste
Dispensing

Two-Dot Dispenser

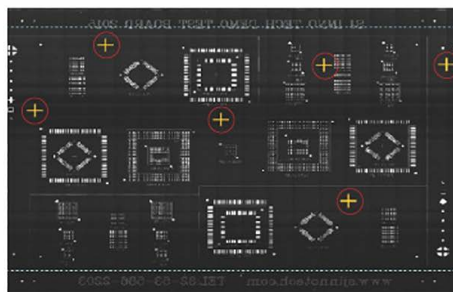
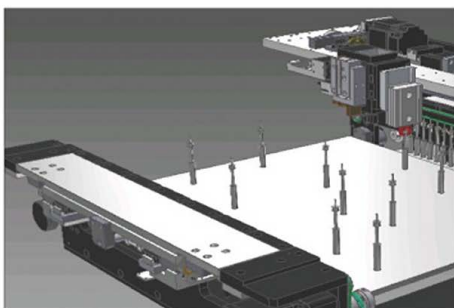
Purge Area DP Nozzle Touch Sensor



Laser Height Sensor



Auto Solder Dispenser



Point-and-Click Method

Auto Solder Dispenser



Auto Solder Dispenser



SJ InnoTech	HP-350LD	HP-520SII
Performance		
Alignment Repeatability & Accuracy	$\geq 2.0\text{Cpk} @ \pm 12.5\mu\text{m}, 6\sigma$	$\geq 2.0\text{Cpk} @ \pm 10.0\mu\text{m}, 6\sigma$
Wet Print Repeatability & Accuracy	$\geq 2.0\text{Cpk} @ \pm 25\mu\text{m}, 6\sigma$	$\geq 2.0\text{Cpk} @ \pm 25\mu\text{m}, 6\sigma$
Cycle Time (203 x 145mm PCB)	6 sec (Excl. Printing)	7 sec (Excl. Printing)
PCB Board Handling		
Min. Size (mm)	L 50 x W 50	L 50 x W 50
Max. Size (mm)	L 350 x W 300	L 520 x W 420
Thickness (mm)	0.4 ~ 6.5	0.4 ~ 6.5
Max. Weight (kg)	2	2
Underside Clearance (mm)	30	30
Support Method	Magnetic Pin & Block	Magnetic Pin & Block
	* Vacuum Type (Option)	* Vacuum Type (Option)
Clamping Method	Edge Blade (Recomm. 0.21 ~ 0.81)	Edge Blade (Recomm. 0.21 ~ 0.81)
	Top Link (Recomm. 0.81 ~ 6.01)	Top Link (Recomm. 0.81 ~ 6.01)
	* Vacuum Type (Option)	* Vacuum Type (Option)
Parameters		
Print Speed (mm/s)	1 ~ 150	1 ~ 150
Print Pressure (kg/f)	0.1 ~ 50	0.1 ~ 50
Snap-off Distance (mm)	0 ~ 5.0	0 ~ 5.0
Stencil Frame Length X (mm)	600, 650, 736	584, 600, 650, 736
Stencil Frame Width Y (mm)	550, 736	550 ~ 736
Vision		
Field-of-View (mm)	11 x 8	11 x 8
Fiducials Size (mm)	0.4 ~ 5.0	0.4 ~ 5.0
Facilities		
Dimension (mm)	L 1,330 x W 2,524 x H 1,482	L 1,560 x W 1,530 x H 1,490
Weight (kg)	Approx. 2,200	Approx. 1,200
Power	220v, 50/60Hz, 6.0kw	220v, 50/60Hz, 6.0kw
Pneumatic (Air)	0.5MPa, 40NL/min	0.5MPa, 40NL/min
Operating System	MS Window 10 32bit	MS Window 10 32bit
Host communication	SEMEVA	SEMEVA
Additional Features		
Auto Support Pin	Option	Option
2-Dot Dispenser	Option	Option
Auto Solder Dispenser	Option	Option
Stencil Vacuum Holder	x	Standard
Solder Height Measure	Option	Option
PCB Particle Detector	Option	Option
High Speed Conveyor	Option	Standard
CPK Measuring Tool	Option	Option
MES System	Option	Option
Off-Line Barcode	Option	Option
2D Barcode	Option	Option
Temperature Control	Option	Option
Touch Screen	Option	Option

MANUFACTURER /

HEAD OFFICE & FACTORY

137, HOSANDONG-RO, DALSEO-GU, DAEGU, KOREA
TEL : +82-53-586-2203(Dir) / FAX : +82-53-586-2298

2nd FACTORY

33, TECHNO SUNHWAN-RO 5-GIL, YUGA-MYEON, DALSEONG-GUN, DAEGU, KOREA
TEL : +82-53-719-0153 / FAX : +82-53-616-2298

SEOUL OFFICE

5th Floor, B-509, 142-10, SANEOP-RO 156, GWONSEON-GU, SUWON-SI, GYEONGGI-DO, KOREA
TEL : +82-31-297-7981 / FAX : +82-31-227-7981

VIETNAM OFFICE

Land lot 203, map No.32, Dai Phuc Ward, Bac Ninh city, Bac Ninh province, Viet Nam.



Overseas Sales Office /

Europe Agency

Allus Group Ltd

- UK & Ireland (Allus Group) : +44-1592-655-400
- Benelux (W&S Benelux BV) : +31-162-521-677

Danutek Kft

- Hungary & Romania (Danutek) : +36-1-273-0457

- Poland (Pakt Electronics) : +48-608-664-589

SmartTec GmbH

- Germany (SmartTec) : +49-6106-6670 100
- Austria (SmartTec) : +49-6106-6670 100
- Switzerland (SmartTec) : +49-6106-6670 100
- Nordic (Peter Jordan Nordic) : +45-40-30-60-64 (Denmark, Sweden, Norway)

Estanflux

- Spain : +34-93-408-5323

Cabiotec

- Italy : +39-2-6431832

Russia Agency

LionTech Ltd

- Russia (Liontech) : +7-812-715-09-05

Taiwan, China Agency

So-High Technology Co.,Ltd

- Taiwan (So-High) : +886-3-325-0798
- China (So-High) : +86-769-8899-6389 (Dongguan)
: +86-512-69009939 (Suzhou)

India Agency

Bergen System Pvt. Ltd

- India (Bergen) : +91-124-400-2888 (New Delhi)
: +91-80-4115-0963 (Bangalore)

Indonesia Agency

PT. JIN SUNG TECH

- Indonesia (PT.JIN SUNG) : +62-21-8983-2002

Australia Agency

ONBoard Solutions Pty Ltd

- Australia (ONBard) : +61-2-9695-1030

Southeast Asia Agency

Nexray Pte Ltd

- Singapore & Malaysia (Nexray) : +65-6741-6511

Southwest Asia Agency

ASI Technologies Int. Ltd

- Israel (ASI) : +972-8-920-8844

KMC GRUP

- Turkey (KMC) : +90-216-527-36-41

South America Agency

PIMAX

- Brazil (PIMAX) : +55-11-9-9153-6389

North America Agency

INTERLATIN APEX FA, LLC

- USA, Canada, Mexico (Interlatin Apex FA, LLC) :
+1-888-323-4555

South Africa Agency

Priben Distribution cc

- South Africa : +27-11-4732149