

Built to master the challenge of accurate, high speed, fully automated production, the SJ Inno Tech range of fully automatic in-line stencil printers include all required process enhancement tools, generally considered as options, in the base machine configuration as standard. SJ Inno Tech have been manufacturing high quality stencil printers for over 11 years and have established two factories with a large workforce operating under an ISO 9001 quality management standard.

These leading edge systems are now available in **Europe** with the backing and resources of the Altus Group customer support team. Machines are available in Two models which cater for footprint and board size capacity at a very competitive price.



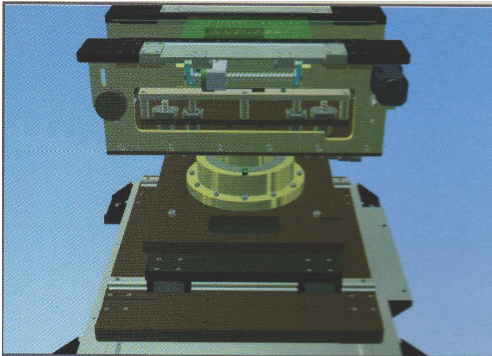
Standard Features at no extra cost

Others may call them options

- 2D Solder paste inspection
- Under-Stencil wiper
- Automatic board width adjustment
- Flexible tooling

HP-520 / HP-620

TECHNICAL SPECIFICATIONS



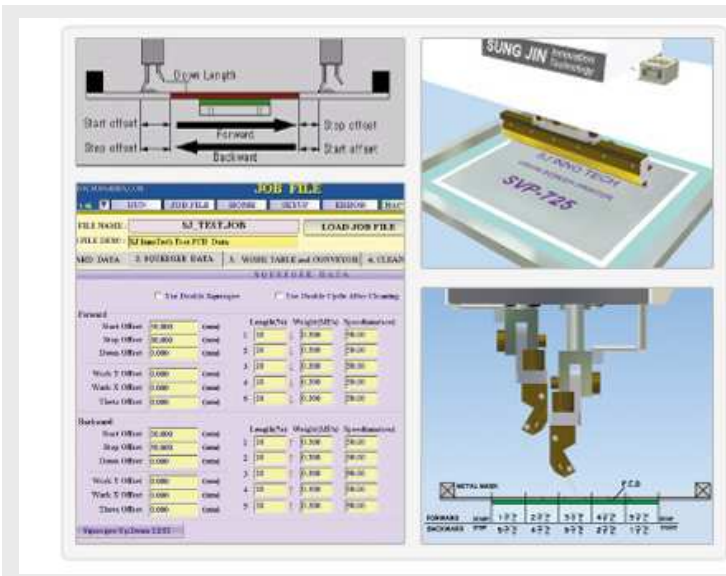
AUTO CALIBRATION

- Corrective and complimentary function of location mark error
- Data standardisation of rotational axis centre
- Maintains high precision with automatic location tracking function



TOP & BOTTOM SIDE DOUBLE COAXIAL OPTIC SYSTEM

- Delivers excellent top & bottom side 3 colour image recognition eliminating issues with PCB colour variation or fiducial mark contrast
- Switchable Red & Green / Red & Blue LED illumination



JOB FILE

FILE NAME: SJ TEST JOB LOAD JOB FILE

FILE DESC: SJ Test Job For PCB Data

ADD DATA: 3. BOARDER DATA 4. WASH TABLE and CLEANING

Use Double Squeegee Use Double Cycle After Cleaning

Direction	Start Offset	Stop Offset	Change S/W	Wash T Offset	Wash X Offset	Change Offset	Length (mm)	Weight (g)	Speed (mm/min)
Forward	00.000	00.000	0.000	0.000	0.000	0.000	0	0.000	20.00
	00.000	00.000	0.000	0.000	0.000	0.000	1	0.000	20.00
	00.000	00.000	0.000	0.000	0.000	0.000	2	0.000	20.00
	00.000	00.000	0.000	0.000	0.000	0.000	3	0.000	20.00
	00.000	00.000	0.000	0.000	0.000	0.000	4	0.000	20.00
	00.000	00.000	0.000	0.000	0.000	0.000	5	0.000	20.00
Backward	00.000	00.000	0.000	0.000	0.000	0.000	1	0.000	20.00
	00.000	00.000	0.000	0.000	0.000	0.000	2	0.000	20.00
	00.000	00.000	0.000	0.000	0.000	0.000	3	0.000	20.00
	00.000	00.000	0.000	0.000	0.000	0.000	4	0.000	20.00
	00.000	00.000	0.000	0.000	0.000	0.000	5	0.000	20.00
	00.000	00.000	0.000	0.000	0.000	0.000	6	0.000	20.00

FORWARD: 100 200 300 400 500 mm
BACKWARD: 100 200 300 400 500 mm

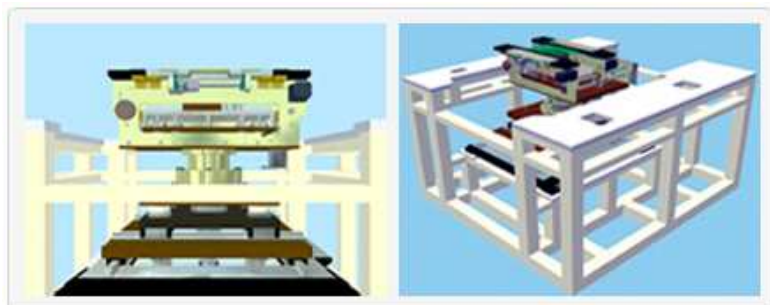
DIGITAL CONTROL OF SQUEEGEE SPEED AND PRESSURE

- Achieve high productivity and a quality printing process through precision enhanced by digital control of print speed and pressure fully monitored and adjustable across 5 stages of the print stroke

PATENT REGISTRATION
0505314

HIGH STRENGTH ONE-PIECE FRAME

- Improving durability and minimising vibration with a high strength one-piece frame ensures a stable platform for printing and guarantees high levels of repeatability

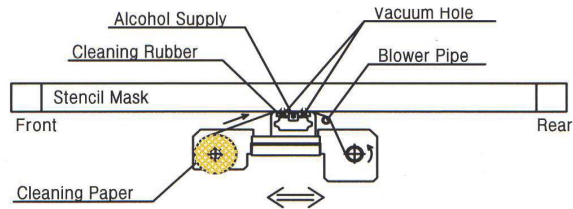
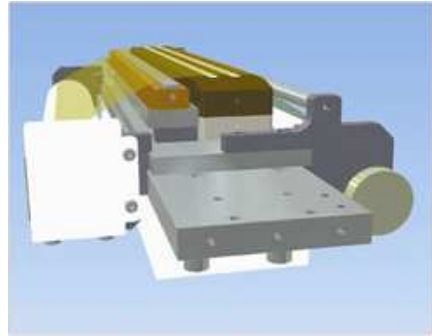


HP-520 / HP-620

TECHNICAL SPECIFICATIONS

HIGH PERFORMANCE UNDER STENCIL CLEANING SYSTEM

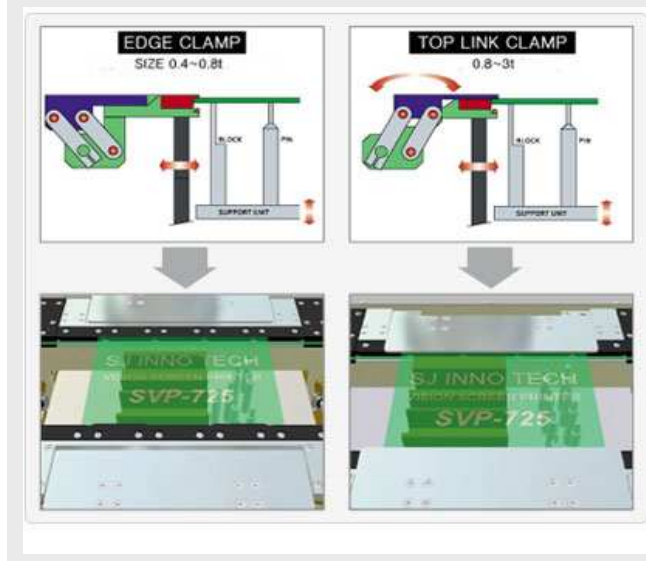
- Dual vacuum, dual wiper sections with solvent bar
- Full wet, dry and wipe with vacuum operation in single pass
- Quick change wiper roll facility



FLEXIBLE TOOLING FOR BOARD THICKNESS VARIATIONS.

- TOP LINK CLAMP. Prevents damage of edge clamp for PCB thicknesses over 0.8
- EDGE CLAMP. Prevents PCB separation by clamping for PCB thicknesses under 0.8
- Attachable and detachable function of side edge clamp
- Offers tooling flexibility switching between EDGE CLAMP and TOP LINK CLAMP

**PATENT REGISTRATION
0505315**

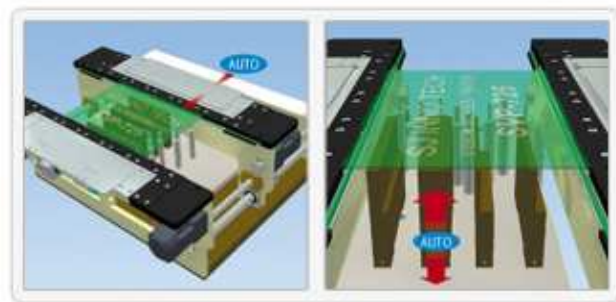


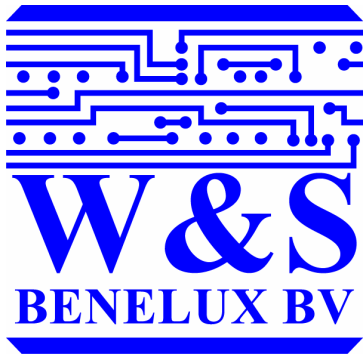
FLEXIBLE TOOLING FOR USER CONVENIENCE

- Flexible tooling offers users minimal change over time between products
- Auto conveyor width adjust as standard
- Automatic tooling lift and retract. Regardless of PCB thickness

2D SOLDER PASTE INSPECTION

- Real time inspection for insufficient solder paste deposits on critical areas of the PCB
- High contrast definition using Red, Green and Yellow LED illumination





HP-520 / HP-620

TECHNICAL SPECIFICATIONS

SPECIFICATIONS	ITEM	HP-520	HP-620
STENCIL	Size (L x W)	600mm x 550mm 650mm x 550mm 736mm x 736mm	736mm x 736mm 800mm x 800mm
	Image Origin	Front / Centre Justified	
PCB	PCB Size (L x W)	Min 50mm x 50mm Max 520mm x 420mm	Min 50mm x 50mm Max 620mm x 480mm
	PCB Thickness	0.4mm ~ 4.0mm	
	PCB Clamping	Top Link clamping and Top Knife edge clamping	
	PCB Support	Magnetic support pins, or magnetic support blocks	
TRANSFER SYSTEM	Conveyor width adjust	Automatic	
	PCB Transfer direction	Left to Right or Right to Left. Front fixed rail	
	Transfer height	900 ± 30mm	
PRINTING	Print direction	Front ↔ Rear	
	Squeegee type	Metal Squeegee	
	Speed	1 ~ 150mm / S (Incremental 0.01mm / S)	
	Pressure	0.15 ~ 0.47 MPa	
	Speed and pressure	Digital adjustment of speed and pressure	
	Snap off distance	0 ~ 5.0mm (Incremental 0.01mm)	
	Separation Speed	1 ~ 150mm / S (Incremental 0.01mm / S)	
	Separation distance	0 ~ 10mm (Incremental 0.01mm)	
	Cycle time	8 S excluding print	
	Accuracy	± 0.015mm	
	Repeatability	± 0.010mm	
VISION PARAMETERS	Vision camera And board	Sony CCD camera with Matrox vision board	
	Vision Processing	Real time image transfer to vision system with 256 grey scale	
	Illumination Method	3 Colour, coaxial image recognition. Red, Green, Blue LED illumination. Reads all fiducial mark types. Real time image transfer to vision system with 256 grey scale.	
	Fiducials	All fiducial marks readable	
STENCIL CLEANER	Operation	Dual vacuum unit. Wet, dry, vacuum and blow	
FACILITIES	Operating system	Windows 2000 TFT-LCD 15.1 " Monitor	
	Power	Single phase 220VAC(50/60Hz) 1.2VA 3.9A	
	Air	0.5MPa ± 0.1MPa, 40NI/Min	
	Weight	1,200Kg	1,400Kg
	Dimensions (L x W x H)	1,550 X 1,585 x 1,535mm	1,630 X 1,690 x 1,535mm

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