# STENCIL PRINTERS

## SJ INNO TECH

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

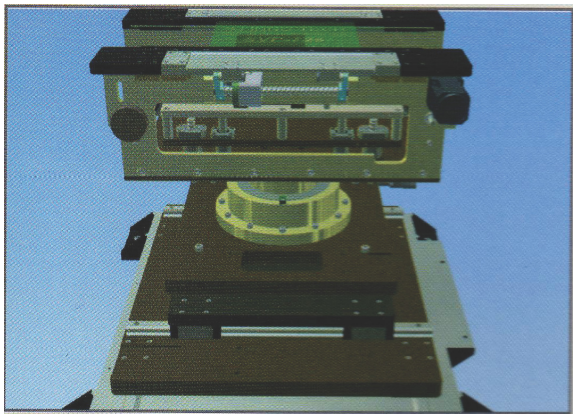
- 2D Solder paste inspection
- Under-Stencil wiper
- Automatic board width adjustment
- Flexible tooling

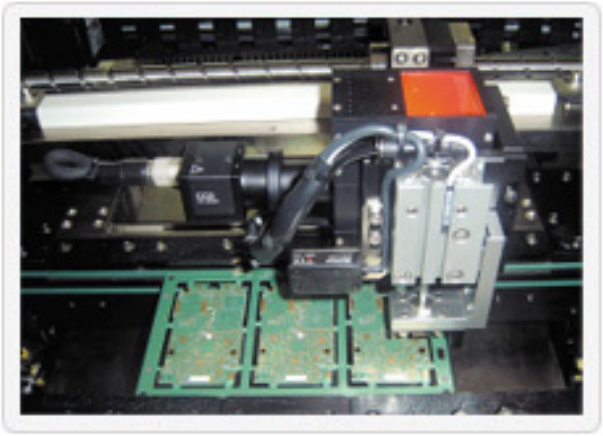
SJT SMT TOTAL SOLUTION **SJ INNO TECH**

**Innovation through Technology**

# HP-520 / HP-620

## TECHNICAL SPECIFICATIONS



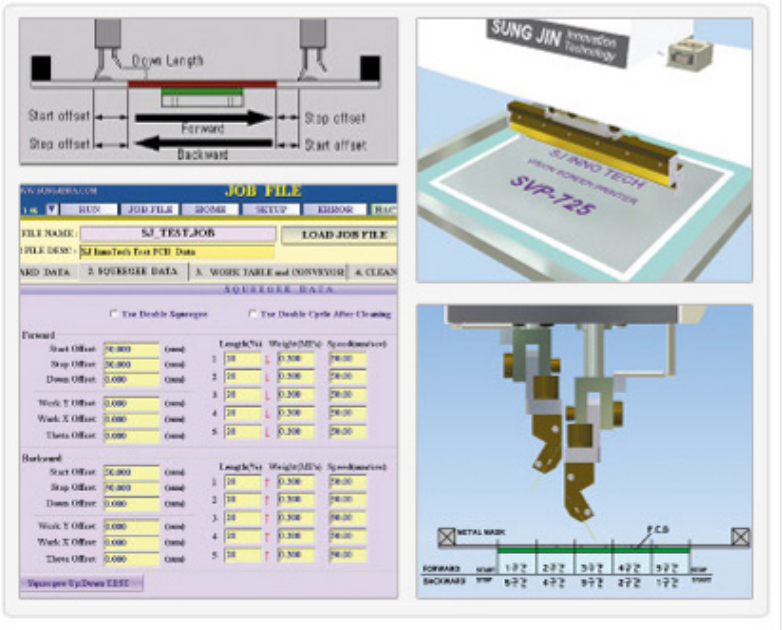


### AUTO CALIBRATION

- 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



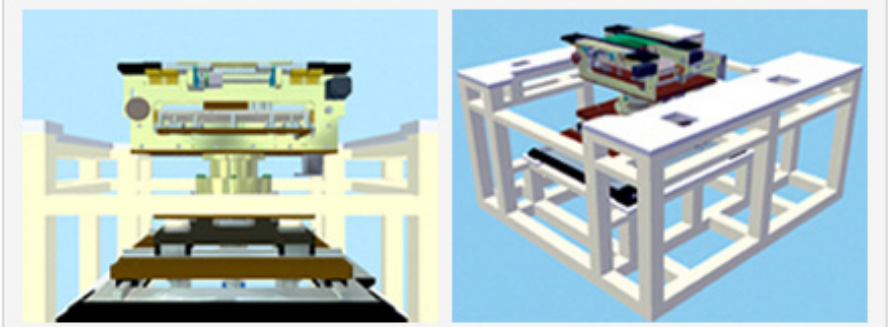

### DIGITAL CONTROL OF SQUEEGEE SPEED AND PRESSURE

- 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



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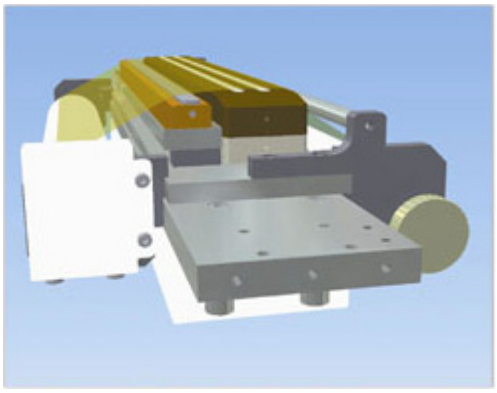
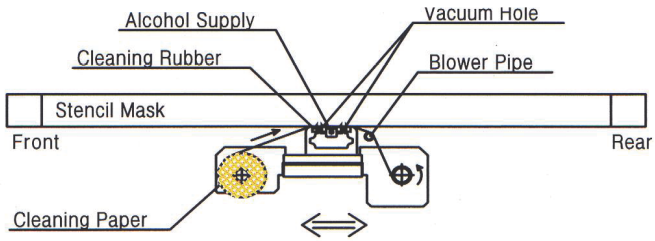
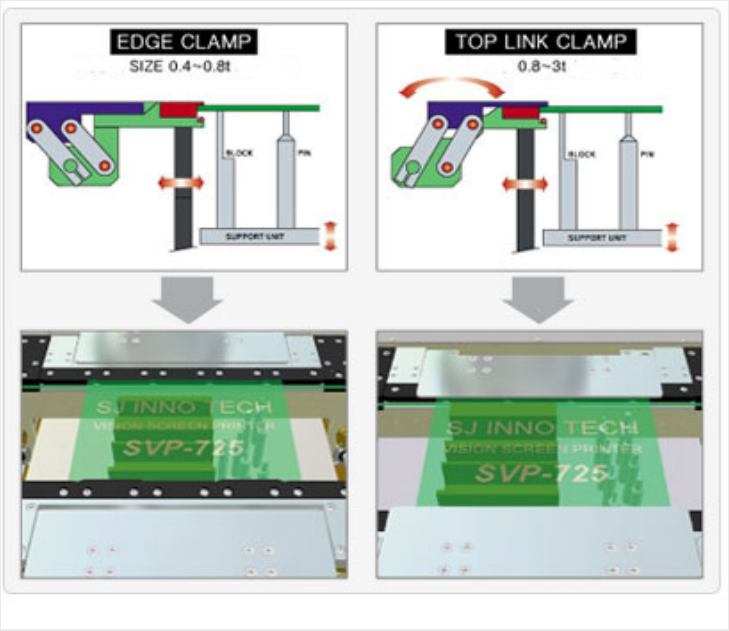


### HIGH PERFORMANCE UNDER STENCIL CLEANING SYSTEM

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



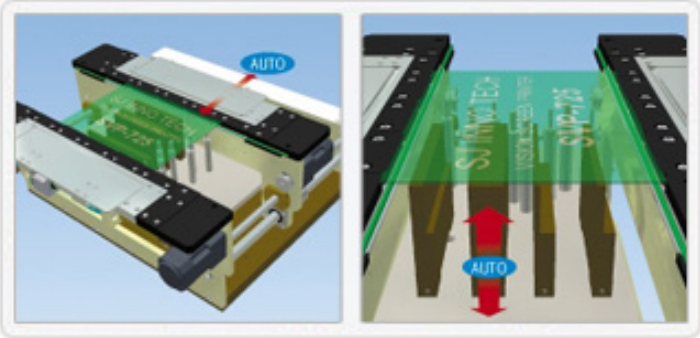

### FLEXIBLE TOOLING FOR BOARD THICKNESS VARIATIONS.

- 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**

### FLEXIBILE 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<br>650mm x 550mm<br>736mm x 736mm | 736mm x 736mm<br>800mm x 800mm |
| | Image Origin | Front / Centre Justified | |
| PCB | PCB Size (L x W) | Min 50mm x 50mm<br>Max 520mm x 420mm | Min 50mm x 50mm<br>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 0.01m) | |
| | Separation Speed | 1 ~ 150mm / S (Incremental 0.01mm /S) | |
| | Separation distance | 0 ~ 10mm (Incremental 0.01mm) | |
| | Cycle time | 11 Seconds, 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 |