SP210avi







Maximum PCB weight 0.5kg (1lb) Underside component clearance Underside edge clearance Minimum board edge clearance *Alignment Repeatability 20μm @ 6 Sigma 2cpk Max print area Max PCB thickness Up to 5mm (0.2") including 1% warpage Min PCB thickness X/Y PCB Alignment Radial PCB Alignment ±3 degrees Magnetic pins (Vacuum Option)
Front and centre dedicated Board support Stencil image

C M Y CM MY

Stencil load/unload Automatic using print head Stencil frame size (max) 584mm x 584mm (Adjustable without adapters) Stencil frame size (min) Under-screen cleaning Vacuum fully programmable wet & dry

Squeegees Metal or Polyuerthane Squeegee pressure Pneumatic using proportional valve Squeegee control Print speed 5-250mm/sec PCB separation speed

Transfer height SMEMA Transfer height (Siemens)

Right-left, left-right, left-left, right-right Single pair conveyors with round 3mm poly belt drive Mounted on camera and fully programmable

12 seconds (excluding process time) SMEMA (alternative interfaces available Up/down line protocol Front rail dedicated

Conveyor width adjustment 3mm "0" Ring 13 amps 110V - 240V 6 Bar clean air supply Manual magnetic pins

Camera system Flat screen LCD monitor with keyboard and integral tracker ball User interface Number of fiducials 0.5 - 5mm Anywhere on PCB Fiducial size Fiducial location Stencil paste availability Automatic measurem

500kgs

10mm by 10mm

Crated weight 1008mm (W) x 1275mm (D) x 2081mm (H)

All details are subject to change without prior notice. *Full movement of all axes incl. squeegee.

Automatic paste dispense - Max 1kg cartridge/Min 0.5kg cartridge Enclosed print cartridge - Paste puck

2D paste inspection

Transport direction

Transfer system

Board clamping

Throughput time

Power consumption Power supply Air supply

Camera field of view

Board stop

Conveyors

PCB support

2D+ paste inspection with Gerber import tool and bridge detection

Statistical Process Control (SPC)

Laser guided tooling

Flexi tooling

Vacunest TM

Gridlock TM

Ops - Offline Management System

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Speedprint Technology Ltd

As part of our policy of continuous development, specifications are subject to change without prior notice.

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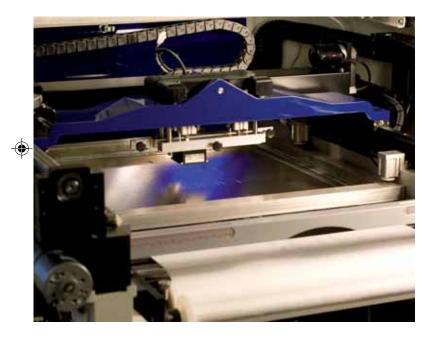




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The core objective of Speedprint has always been to provide its customers with the most effective solution to their application through simplicity, innovation and quality of design.

This approach has led to the SP210avi, where all the critical elements of the process are provided as standard. The SP210avi combines the highest specification of design and components giving a very cost effective solution, therefore providing a high level of investment security.



Developed as a flexible fine pitch Printer the SP210avi is ideal in any medium – high throughput environment, with all the functions necessary to provide years of uninterrupted high performance. The capability of the machine is based upon a platform which utilises the highest specification of components, combined with the latest innovations in Axis control/Vision alignment.

The vision system utilises a unique twin roving camera 'Look Down, Look Down' method of automatic vision alignment. This ensures highly accurate and repeatable print performance. It is able to align the PCB with the stencil using fiducial marks and/or PCB/Stencil features.



As a standard feature the vision system, developed by Speedprint, facilitates a unique 'paste on stencil' inspection feature. This enables the user to determine that there is adequate paste on the stencil before running the print cycle.

The SP210avi incorporates an advanced user interface capable of running on Windows XP PRO or Vista™. In addition to the simple and intuitive nature of the interface, it also provides comprehensive self diagnostic capabilities, such as production logging and automatic fault report generation which enables 'on the fly' troubleshooting.



The combination of design quality and high component specification such as Precision Ground Ball-screws and 1 micron resolution Linear Encoders, which are fitted to all machine axes, guarantees maximum performance and an unrivaled level of reliability with the lowest cost of ownership.



Automatic rail width adjust is standard to aid quick changeovers in a high mix manufacturing environment.

Stencil loading is automatic and the system does not require adaptors for varying sizes of stencil frames.

The PCB transport system includes a fully programmable board stop and employs pneumatically controlled foil PCB clamping. The system is SMEMA compatible to ease integration with fully automated SMT production lines.



The automatic stencil loading facility enables the operator to easily switch between stencil frames at the touch of a button, thereby promoting fast changeovers and low cost of ownership.

The Vacuum Under Stencil Cleaner comes as standard, is fully programmable and features wet/dry operation with vacuum assist ensuring defect free printing.

Standard features of the SP210 avi

- 1.2m² Footprint the most compact Printer in its class
- High precision Ground Ball-screws fitted on all axes to provide the ultimate in accuracy and reliability
- 1 Micron resolution Linear Encoders on all axes for optimum positional accuracy
- Twin Roving Cameras highly accurate and robust Vision Platform
- Precision Mono-fabrication precision engineered base structure
- Distributed Control Network localised axis control reducing cables and increasing reliability
- User interface the simplest and intuitive of User Interfaces
- Paste on Stencil inspection providing feedback & set up of paste replenishment, a unique feature within the SP210avi
- Fully automatic Conveyor Adjustment provides flexibility to manage a variety of PCB sizes
- Programmable Vacuum Stencil Cleaner highly efficient wet and dry stencil cleaning system
- Closed Loop Squeegee control provides full control of the Print process
- Auto Stencil Load and eject improved speed and ease of product changeover
- Fully adjustable internal Stencil frame removes the need for external Adaptors



