SP210

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> Robustness and precision in a compact footprint for easy line integration into existing production floor layouts.
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DESIGNED TO FIT

For some Speedprint customers, the SP210avi is the first foray into fully automatic inline surface mount assembly.

With its small form factor, the platform fits easily in place of a semi-automatic machine, enhancing throughput and quality to boost productivity. It shares its performance and accuracy DNA with high-end Speedprint platforms, and delivers the same superior alignment metrics without the need for fiducials. Which is why, for other customers, the SP210avi is the ideal machine to deploy existing 23-inch stencils and streamline production.

COMPACT FOOTPRINT

BIG PERFORMANCE

As a great starting point for fully automatic inline printing, the SP210avi is hard to beat. Capable of handling small boards and panels with stencil sizes down to just 300mm (12 inches), the SP210avi is equally able to address the challenging performance demands of high volume manufacture. All this from the most compact printer form factor in its class. A fact that eases the burden on factory floor real estate.
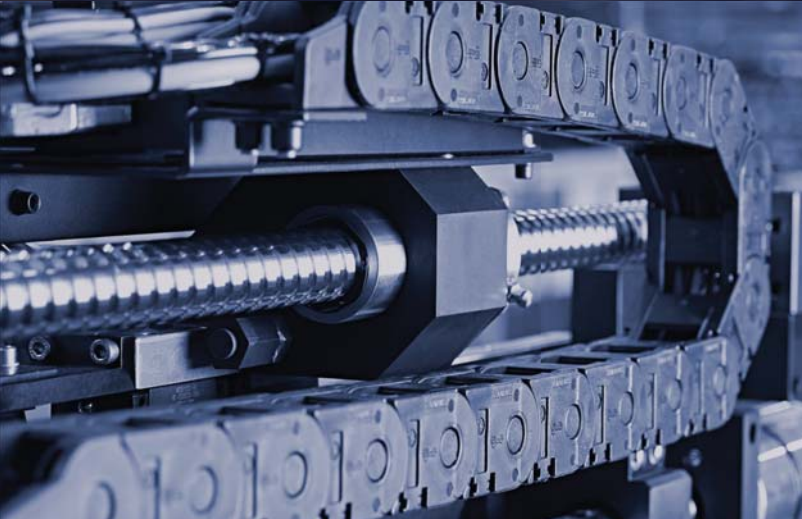
SP210avi features closed-loop print control, a host of programmable features and retains direct SMEMA compatibility for straightforward line integration.

VISION

Flexible inline fine pitch printing requires distinct equipment functions. Machine vision is just one, but one that makes a positive impact on both throughput and final print quality. SP210avi deploys Speedprint's unique vision system with dual roving cameras. The system's 'look down–look down' function ensures highly accurate and repeatable stencil alignment using board features and stencil apertures or fiducial marks.

But precision is pointless without paste. To prevent defects, SP210avi also uses its vision system to perform Optical Paste Bead Inspection, verifying paste presence on the stencil before each print cycle and alerting to insufficient volume.

TOUGH AND PRECISE

Like all Speedprint platforms, SP210avi is a robust, design-optimised printer built to last. It uses high-spec components in common with other platforms in the range.

- **Automatic rail width adjust**

- **Programmable board stops and pneumatic clamping**

- **Highly efficient vacuum-assisted under stencil cleaning. Fully programmable. Wet or dry, with or without vacuum**

- **Auto stencil loading and eject streamlines product changeover**

- **Closed loop squeegee control for print process optimisation. Fully programmable print parameters**

SPECIFICATIONS

Max board size	450mm (x) x 400mm (y)
Min board size	25mm x 50mm
Machine alignment repeatability	12.5µm @ 6 sigma 2Cpk
Full process repeatability	20µm @ 6 sigma 2Cpk
X/Y PCB alignment	+/- 5mm
Stencil load/unload	automatic
Squeegees material	metal or polyurethane
Squeegee pressure	1Kg to 20Kg
Print speed	5mm/sec to 250mm/sec
Board clamping	pneumatic foils (standard)
Clamping thickness	0.4mm to 5mm
Board stop	camera mounted, fully programmable
Cycle time	12 secs
Up/down line protocol	SMEMA compatible
Operating system	Microsoft Windows™ 7 or higher
Power consumption	13 Amps
Power supply	110V to 240V AC, single phase
Operating temperature	10°C to 35°C @ 30% to 50% RH
Weight	500Kg

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

speedprint
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