

 speedprint  
TECHNOLOGY



**700SERIES**

// Speedprint platforms are the result of years of meticulous materials, manufacturing and process control excellence. Sitting at the top of our product range, the SP700 Series is engineered to deliver streamlined performance at low ownership costs for high, medium and low-volume production applications. //

#### AUTOMATION

**Flexible automation is at the very centre of the platform. SP700 Series printers are comprehensively equipped with almost every parameter fully programmable.**

That's how they address the critical demands of fast set up and product changeover to streamline your assembly throughput. Automation features include closed-loop print head control, fully programmable board stops and pneumatic board clamping, as well as direct SMEMA compatibility for easy automated surface mount production line integration.

The 700 Series is the ideal platform for low and medium volume assembly in any challenging high-mix surface mount environment.

#### ACCURACY

Exceptional repeatability and print accuracy stem from meticulous alignment. Speedprint's patented Dual Roving camera (DRC) technology precisely aligns the board and stencil, and checks for solder paste presence on the stencil before printing. DRC innovations include SmartCal for zero-cost calibration designed to maximise and maintain your process window, delivering optimum performance for the life of the platform.

#### ASSURANCE

Speedprint platforms are refined, robust, design-optimised products built to last. Be assured that SP700 Series printers will perform identically in a decade as they do when new. As a measure of our confidence, Speedprint offers a 5-year warranty on 700 Series parts.

# 700 SERIES



SP710

# INLINE PRINTING



## DUAL SYRINGE DISPENSING DELIVERS PASTE AND GLUE AS DOTS OR LINES

Speedprint's SP710avi printer can optionally deploy the unique Advanced Dispense Unit (ADU) or the ADU+ to deposit a wide range of media including paste, glue and flux via removable temperature controlled modules. Simple drag & drop programming imports directly from Gerber files, allowing full and easy customisation of deposits as dots or lines onto any substrate.

With its latest-generation motor drive and control technology, including 1 micron resolution linear encoders on all axes, SP700 Series platforms deliver exceptional throughput capabilities for even the most demanding high volume applications. With the addition of Speedprint's Velocity or Velocity+ options, the printers achieve best-in-class speeds of 8-second or 6-second core cycle times.

“ ADU+ is the most accurate and flexible dual head for dispensing dots and lines. ”

## COMPREHENSIVELY EQUIPPED WITH ADVANCED FEATURES AS STANDARD

- Highly efficient vacuum-assisted under stencil cleaning. Fully programmable. Wet or dry, with or without vacuum
- Auto stencil load and eject streamlines product changeover
- Closed loop dual squeegee control for print process optimisation. Fully programmable print parameters
- Defect prevention with programmable Optical Paste Bead Management. Verifies solder paste presence on the stencil. Alerts to insufficient volume. Safeguards quality
- SmartCal cost-free instant process calibration
- Maximum positional accuracy with 1 micron resolution linear encoders on all axes







**ONE PLATFORM  
NO LIMITS**

## SPECIFICATIONS

Max board size	610mm (x) x 515mm (y)
Min board size	45mm x 45mm
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	0.2mm to 8mm
Board stop	fully programmable
Cycle time	11.5 secs (standard)
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	650Kg



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



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