

AUTOMATIC SCREEN PRINTING LINE

P-series



- Automatic sheet handling, printing, drying process
- Two models available to meet all customer requirements
- Fully programmable printing parameters
- Print/print, print/flood, flood/print, on contact print, stencil printing, via filling and screen cleaning printing
- Extensive options for demanding advanced technology applications

Automatic high precision screen printing process

The P-series of screen printers offer the possibility to automatically screen print on green ceramic tapes, ceramic or glass substrates, etc. in the production of electronic components e.g. LTCC, HTCC, MLCC, Hybrids, etc. There are 2 main models based on similar mechanical designs, with a wide range of options available. As an option, sheets or substrates can be automatically loaded from a magazine into the printing table, screen printed, dried and placed back into another magazine. The main difference between the S (standard) and the A (advanced) models is in the sheet or substrate registration. On the S model the registration is done mechanically (usually with pins), while in the A model the registration is done with two CCD cameras and an automatic vision alignment system.

Technical characteristics:

Printer

Max. Printing area: 210 x 210 mm (8 x 8 inch)
 Squeegee speed: 0-350 mm/s (0-14 inch/s)
 Squeegee force: 0-250 N (0-55 lbf)
 Average accuracy: +/- 5 microns (+/- 0.20 mil)
 Standard screen size: 450 x 450 x 25 mm
 Max. Screen size: 550 x 550 x 30 mm
 Automatic vision alignment to fiducial: A model only
 Quick screen registration: A model only
 Touch screen and joystick table control: A model only
 Average cycle time print to print: 12 s print/flood mode
 Magazine height: standard 50 mm (2 inch)

Drier

Drier length: 5 m (16.4 ft)
 Installed drying power: two zone dryer, 5.4 kW / zone
 Max. temperature: 120 deg. C
 Drying time: 5 min at 12 s cycle time

Dimensions and power requirements
 App. Dimensions, (L x B x H): 6100 x 1730 x 1820 mm
 Power consumption: 12 kW
 Compressed air: 0.6 MPa, 200 L/min
 Vacuum: -0.08 MPa (0.02 MPa absolute), 300 L/min

(optionally air / vacuum exchangers can be installed)

Available options:

Automatic paste supply: For low viscosity pastes only.
 Via filling
 Stencil frame for stencil tensioning and quick fixing
 Custom printing tables and substrate fixing
 Antistatic substrate cleaning before printing
 Trough hole printing

Options for S model only

Touch screen control
 Cameras in printer + cross line software for easy screen alignment
 Dryer options
 Double width- for double drying time

Not all possible options listed

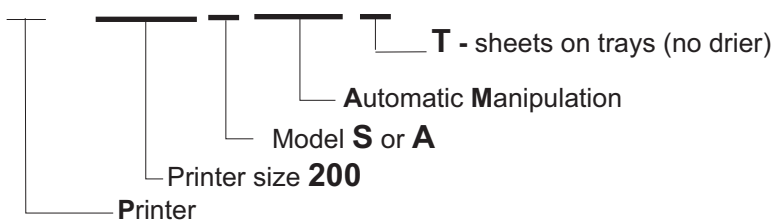
Model selection:

S model - more suitable for all applications where print registration against previous print or via holes is not necessary.

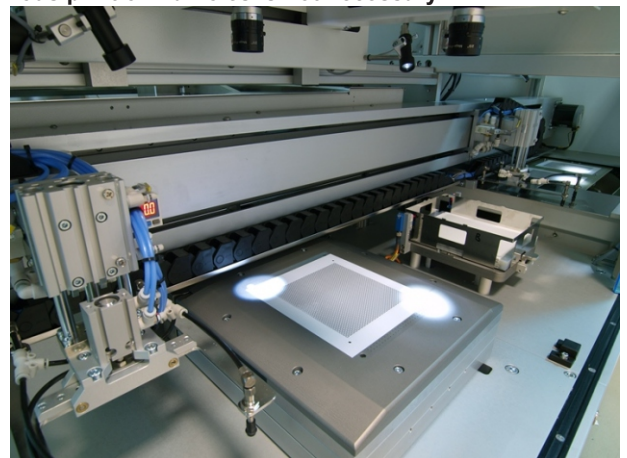
Print quality and accuracy is identical for both models.

How to order: *

P- 200xAMx



* Options and other requirements have to be specified separately.



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