



**CHOSEN BY LEADING
COMPONENT MANUFACTURERS
WORLDWIDE**

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**

BASIC CONFIGURATION:

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 base 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 an 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: 5m (16.4 ft)
- Installed drying power: two zone dryer, 5.4 kW / zone
- Max. temperature: 120 deg. C (248 deg. F)
- Drying time: 5 min at 12 s cycle

Dimensions and power requirements

- App. Dimensions (L x B x H): 6100 x 1730 x 1820 mm
240 x 68 x 72 inch
- Power consumption: 12 kW
- Compressed air: 0.6 MPa, 200 L/min
- Vacuum: -0.08 MPa (0.02 MPa absolute), 300L/min

(Optionally air / vacuum exchangers can be installed)

Available options:

- Automatic paste supply: For low viscosity pates 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 option

- Double width - for double drying time

Not all possible options listed

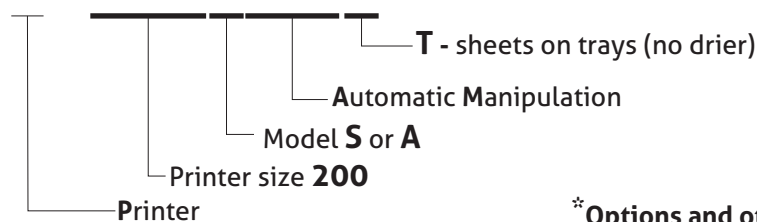
Model selection:

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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