# Screen Printers



# P-series

- Proven design, high accuracy and flexibility

- Three models available to meet all customer requirements

- Fully programmable printing parameters

- Flexible screen and stencil via filling printing modes

- Extensive options for demanding advanced technology applications

# Flexible High Precision Screen Printers

The P-series of screen printers are designed for diverse (precise) screen printing applications in electronics production such as: LTCC, HTCC, MLCC, hybrid circuits, sensors, photovoltaics, etc.. There are three models in two sizes available, based on a similar mechanical design. A wide range of options are available to meet the specific requirements for the application, squeegee holders, stencil tooling, special vacuum tables for via fill and custom substrates or components,
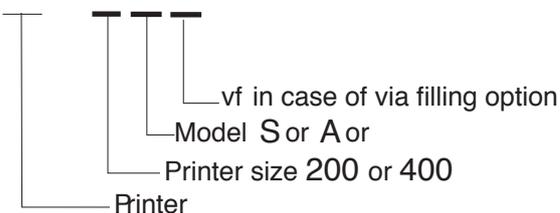
## B
### ( base model)
- affordable machine for general screen printing applications
- AC motor driven squeegee
- Manual screen or printing table alignment by micrometer screws
- Automatic snap off settings
- PLC control
- Simplified construction

## S
### (standard)
- for more demanding applications
- servo motor driven squeegee, programmable strokes,
- Manual screen or printing table alignment
- Automatic snap off settings
- Two CCD cameras, cross line software for easy alignment, touch screen HMI.
- Via filling tooling optional

## A
### (advanced)
- for most demanding applications
- automatic printing table alignment by a PC based vision system
- quick screen alignment and fixing
- joystick printing table control for manual operation (option)
- All parameters programmable via touch screen

| Technical: | SIZE200 | SIZE400 | SIZE200 | SIZE400 | SIZE200 | SIZE400 |
|---|---|---|---|---|---|---|
| Max. Printing area: | 210 x 210mm 8 x 8inch | 380 x 380mm 15 x 15inch | 210 x 210mm 8 x 8inch | 380 x 380mm 15 x 15inch | 210 x 210mm 8 x 8inch | 380 x 380mm 15 x 15inch |
| Squeegee speed: | 50 - 250mm/s 2-10inch/s | 50 - 250mm/s 2-10inch/s | 0 - 350mm/s 0-14inch/s | 0 - 450mm/s 0-18inch/s | 0 - 350mm/s 0-14inch/s | 0 - 450mm/s 0-18inch/s |
| Squeegee force: | 0-120N 0-27lbf | 0-250N 0-55lbf | 0-250N 0-55lbf | 0-320N 0-72lbf | 0-250N 0-55lbf | 0-320N 0-72lbf |
| Average accuracy: | +/-10microns | +/-10microns | +/-5microns | +/-10microns | +/-5microns | +/-10microns |
| Standard screen size: | 450x450x25mm | 550x550x25mm | 450x450x25mm Free adapter for custom screen | 550x550x25mm | 450x450x25mm | 550x550x25mm |
| Max. Screen size: | 550x550x25mm | 850x850x32mm | 550x550x25mm | 850x850x32mm | 550x550x25mm | 850x850x32mm |
| Safety: | | | Equipment complies with US and CE safety regulation | | | |
| App. Dimensions: LxBxH | 1300x1100x1550mm 51 x 43 x 61inch | 1600x1400x1550mm 63 x 55 x 61inch | 1300x1100x1550mm 51 x 43 x 61inch | 1600x1400x1550mm 63 x 55 x 61inch | 1300x1100x1550mm 51 x 43 x 61inch | 1600x1400x1550mm 63 x 55 x 61inch |

## Available options:

| | | | | | | |
|---|---|---|---|---|---|---|
| Via filling | | | ✔ | ✔ | ✔ | ✔ |
| Stencil tensioning frame and fixing: | | | ✔ | ✔ | ✔ | ✔ |
| Custom substrate fixing: | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Automatic vision alignment: | | | | | INCLUDED | INCLUDED |
| Cross line manual table alignment: | | | INCLUDED | | INCLUDED | |
| Vacuum pump | | Not included: air-vacuum exchangers optional. For size 400 an external vacuum connection is recommended. | | | | |
| Antistatic substrate cleaning: | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Automatic paste supply*: | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |

*Not all possible options listed*          *For low viscosity pastes only

How to order: *

P- xxx
- vf in case of via filling option
- Model S or A or
- Printer size 200 or 400
- Printer
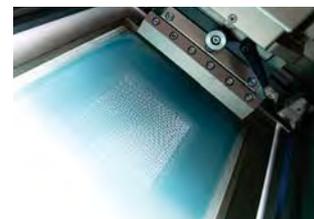
* Options and other requirements have to be specified separately.

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## HaikuTech
### Multilayer Ceramics