



PIE DIFFUSION

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P1 - automatic SMT pick & place machine with optical alignment system



- **TECHNICAL DATA**

- **Working area**

- max. 540x480mm

- **Component range**

- from 0201 to 25x25mm (option 40x40mm)
- min pitch 0,4mm

- **components package**

- tapes / sticks / trays / bulk

- **Components centering**

- non-contact alignment

- **Placement rate**

- up to 1200 cph.

- **Feeder capacity**

- up to 80 x 8mm - tape strips
- and 2 x (300 x 200mm) - IC-tray
- with 200 x 300mm PCB size

- **Resolution**

- X / Y - axis - 0,008mm (linear encoder)
- Z - axis : 0,02mm (linear encoder)
- Rotation : 0,01° (rotation encoder)

- **Placement accuracy**

- +/- 0,03mm

- **Dimensions and weight**

- 840 x 630 x 430 mm / ca. 90 kg

- **Supply**

- 230V-50Hz -450W / 0,6 MPa - 15l/min

- **KEY FEATURES**

- **Precision automatic SMT pick & place machine with vision system**

- **automatic pick & place head**

- **automatic nozzle changer (6 tools)**

- **top camerasystem for automatic fiducial**

- **bottom camerasystem for touchless components centering**

- **Gerber - and CAD editor (all CAD-systems)**

- **teach-in mode - electronic manipulator**

- **vision inspektion of printing accuracy of solder paste and accuracy of component placement**

- **remote service via internet**

- **control panel: PC keybord / Mouse**

- **Graphical user interface**

- **Application area**

- suitable for small and medium volume production
- qualified for pick & place of standard and fine pitch components
- incl. SOIC, PLCC. BGA , μ BGA, CSP, QFN , LED