M 10V

AUTOMATIC PICK & PLACE MACHINE

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MECHATRONIKA

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Description

Mechatronika's M10V is a professional production machine for SMT boards. Mature construction and high quality equipment makes an efficient use in small lot production. A component range from 0201 to QFP/BGA can be processed from all current packaging media. M10V's best unique features - machine can automatically pick and place components from bulk feeders. It means, that machine searches for the loose component in the container and when finds a component according to the template in the Library then goes over the centring camera, recognizes position of a component on the nozzle and then places it on a PCB. Optional dispensing head allows applying solder paste or glue on a PCB. The efficient control system of the M10V is based on Windows XP embedded platform. Placement data can be converted from various layout systems to minimize change over time.

Product Features

- vision centring
- fully automated placing
- solder paste/glue dispensing head
- automatic fiducials correction and bad mark sensing
- automatic change of nozzles
- Windows XP embedded control system
- Pick & Place data can be entered manually in TEACH-IN mode or can be converted from various CAD data systems
- good price to performance ratio

Technical Specification

PCB
Placement area: 300 x 400 mm

Components
Range: from 0201 to 35 x 35 mm QFP and BGA
Pitch: up to 0,5 mm (0.4 mm optionally)
40 feeders for 8 mm tapes or 32 feeders for 8 mm tapes plus 20 stick of SO8

Components packing
Tapes: 8 mm, 12 mm, 16 mm, 24 mm, 32 mm, 44 mm
Sticks: SO8–PLCC84
Trays
Bulk feeder

Placement rate
1200 –1600 cph

Placement accuracy
Better than 0,08 mm

Nozzle changer
Automatic, 8 nozzles
Automatic sensing of nozzle presence

XY resolution
Standard 5 µm

Vision system
Automatic fiducials correction
Automatic bad mark sensing

Components orientation
0.05º steps

Control Panel
LCD 17'' screen
keyboard
mouse

Options
Data import from CAD
Solder paste / glue dispensing head
Stand

Dimensions and weight
750 x 830 x 550 mm ca.70 kg

Power Supply
230 V, 50 Hz, 400 W

Compressed Air Supply
0,6 MPa, 20 l/min