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## AUTOMATIC PICK AND PLACE MACHINE PIEM10V



# PIEM10V

## Description

PIEM10V 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 10 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 10 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** 0.05° 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