

AUTOMATIC PICK & PLACE MACHINE

# M70



# M70

## Description

Mechatronika's M70 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. M70's best unique features - machine can automatically pick and place components from bulk feeders. It means, that machine search for the loose component in the container and when find a component according to the template in the Library then goes over the centering camera, recognize position of a component on the nozzle and then place it on a PCB. Optionally the M70 can be equipped with the dispensing head for solder paste or glue. The efficient control system of the M70 is based on Windows XP 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 based 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: 310 x 500 mm

### Components

Range: from 0201 to 35 x 35 mm QFP and BGA  
Pitch: up to 0,5 mm  
80 feeders for 8 mm tapes + 30 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

1600 -2000 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

0.09° steps

### Control Panel

LCD 17" screen  
keyboard  
mouse

### Options

Data import from CAD  
Solder paste / glue dispensing head

### Dimensions and weight

750 x 1100 x 1300 mm, 150 kg

### Power Supply

230 V, 50 Hz, 400 W

### Compressed Air Supply

0,6 MPa, 20 l/min

