

## M10V Pick and Place System with Vision

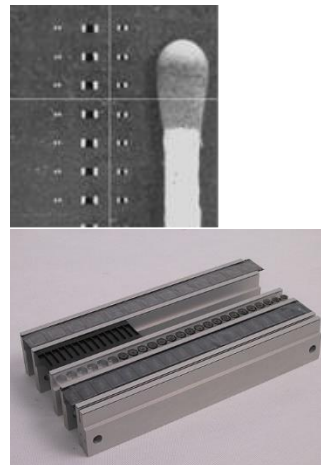
### Mechatronika's M10V Pick and Place

System is a versatile automatic machine for placing SMD components from 0201 to 35 x 35 mm with a full vision, touchless component centering.

Matured, high quality rigid construction, ease of programming and excellent price to performance ratio make M10V perfectly suited for small and middle scale production lines.

**M10V** combines mechanical accuracy with high quality pattern recognition system built into easy to use and powerful programming software. M10V productivity and flexibility, quick change-over and low maintenance requirements drive down total cost of ownership (TCO) to the level demanded by today's cost-sensitive production environments.

The very unique feature of **M10V** is its ability to pickup bulk (loose) components from container-type feeders. M10V built-in intelligent vision system enables to locate required component, pick it up, determine its position on the nozzle head and precisely place it on preprogrammed position. **M10V** accepts any number of bulk component feeders that can fit within its working space



### **Vision Centering**

### **Fully automated placing**

### **Automatic fiducials correction and bad mark sensing**

### **Automatic change of nozzles**

**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**



### **PCB**

Placement area 300 x 400 mm

### **Feeders**

40 feeders for 8 mm tapes + 10 sticks of SO8 – SO16

### **Components**

Range from 0201 to 35 x 35 mm

Pitch up to 0.5 mm

### **Tape feeders**

Tapes 8 mm, 12 mm, 16 mm, 24 mm, 32 mm, 44 mm

Sticks SO8–PLCC84

Trays

Bulk / loose components

### **Placement rate**

1200 - 1500 cph

### **Placement accuracy**

Better than 0.08 mm

### **Nozzle changer**

Automatic, 8 nozzles

Automatic sensing of nozzle presence

### **XY resolution**

5 µm, (linear encoders as standard)

### **Vision system**

Automatic fiducial correction

Automatic bad mark sensing

Touchless component centering

### **Angle resolution**

0,05°

### **Control Panel**

LCD 17’’ screen

Keyboard

Mouse

### **Options**

Data import from CAD

Tape strips feeder

### **Dimensions and weight**

900 x 1250 x 1230 mm,

250 kg

### **Power Supply**

230 V, 50 Hz, 400 W

### **Compressed Air Supply**

0,6 MPa, 20 l/min