

SMD Component Pick and Place Machine

SMD manipulator Component Pick & Place Machine with vision system



DESCRIPTION

SMD Manipulator 4PLACE creates compact, performing assembly system for prototype PCB assembly and low volume production. Slight arm movement in X and Y axis allows comfortable component picking from tapes and their placing all over the manipulator desktop with PCB. Precise Z axis leading of placing head provide accurate and gentle component placing into the solder paste. Placing head button, is used for needle rotating around its own axis at the same time. In the placing head, there is also integrated source of light for easier orientation over components and PCB and head movement magnetic sensor, which is used for switching of vacuum, accordingly to head position. One push of head button is meant as picking a component and second push means its place.

Standard supply contains: Manipulator's table with moveable arm, LCD monitor, camera with additional light source, power supply 230/12 V, vacuum pump, 3 magnetic PCB holders, 2 vacuum cups, spare needle for vacuum pipette and service instructions.

A miniature CCD camera is built into the head for mounting small size 0201 chips as well as for precise positioning of very fine pitch ICs. The camera has 2 positions and displays either a setting needle or a dosing nozzle. The magnified image at a low angle is displayed on a large 15" PC monitor.

Separately ordered/supplied as accessories: Feeders for 10 components from tapes, holders for reels, IC feeders from sticks, 10cc barrel holder and dispensing controller



Ambition Technologies

Technical data:

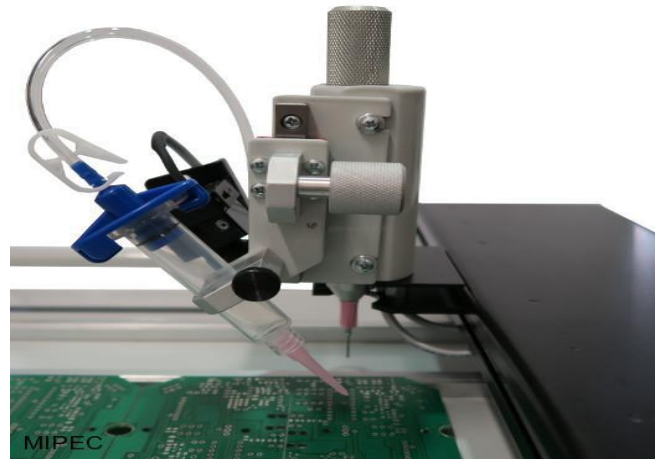
Manipulator dimensions(l/w/h): 790 x 390 x 170 mm
Working area max: 350 x 210 mm
Dimensions w. feeders max.: 1140 x 650 mm
Power supply: Adaptor 230/12 V
Arm movement in axis x/y/z: 470 x 230 x 15 mm
Vacuum pump supply: 230 V, 6 W
Weight: 7 kgs

Video Camera

Viewing angle: 78°
CCD sensor: 1/4 " size, 8 Mpix
Video resolution: 1080p30 - Full HD

Monitor

Display dimensions: 15.6 " widescreen 16: 9
Resolution: 1366 x 768 pixels
Dimensions with stand: 378 x 281 x 189 mm



Technical data:

Manipulator dimensions (l/w/h): 790 x 390 x 170 mm
Working area max: 3 50 x 210 mm
Dimensions w. feeders max.: 1140 x 650 mm
Power supply: Adaptor 230/12 V
Arm movement in axis x/y/z: 470 x 230 x 15 mm
Vacuum pump supply: 230 V, 6 W
Weight: 7 kgs

