



Manual System QFP Mounter MP-7500series

MP-7500 series are the manual mounters used specifically for QFP or PLCC. It is applied for PLCC or QFP with the lead pitch 0.3 - 1.27mm. Not only for the trial manufacture and development but also small and medium scale production, QFP or PLCC can be mounted easily and exactly on the board. There are 3 types of models. and each can be selected for applications.

Features

- * QFP or PLCC can be mounted easily and exactly. By only lowering the knob of the suction head, QFP or PLCC can be sucked and mounted.
- * It is applicable to QFP or PLCC of lead pitch 0.3 - 1.27mm.
- * It corresponds to QFP or PLCC of 4 types (tray).
- * It is applied for sizes from name-card to A4-format or the big letter size on the board (Max 360×220mm).
- * Chip parts can be mounted by the standard equipment of vacuum-suction pincette.
- * There are 3 types of models to be selected for use.
 - Model-1 : Corresponded to PLCC, QFP of lead pitch 0.8 - 1.27mm.
 - Model-2 : Corresponded to PLCC, QFP of lead pitch 0.3 - 1.27mm with microscope.
 - Model-3 : Corresponded to PLCC, QFP of lead pitch 0.3 - 1.27mm with CCD-camera / CRT-monitor.
- * By setting the hot-air system or dispenser, available as option for testing equipment of SMT board, it can be used as SMT work station.

*** The specifications are subject to change without notice.**

Specifications

Model	Model-1	Model-2	Model-3
Applicable to QFP / PLCC	QFP : lead pitch 0.3mm, 0.5mm, 0.65mm, 0.8mm, 1.0mm PLCC : lead pitch 1.27mm Minimum 11×11mm square		
Applicable PCB size	50×50mm - 360×220mm t= 0.5 - 2.0mm		
Positioning / check	Visual inspection	Stereo microscope	CCD / color CRT (TV)
Display magnification	-	3.5× - 22.5× zoom	About 45× zoom
Parts-mounting accuracy	±0.15mm	±0.03mm	±0.02mm
Mounting angle	360° (total rotation)		
Mounting pressure	500 - 700g		
Board fixing	PCB holder (left / right side)		
Parts-suction nozzle	3.5mmø/OD or 8mmø/OD-NBR pad (both accessories)		
QFP tray stand	600×350mm (4 trays containing QFP 50 pcs each.)		
Vacuum pump	Ejector (400mmHg) and diaphragm pump (100mmHg) Both accessories : Diaphragm pump is used when there is no air input		
Vacuum-suction pincette	1 pc. (accessory nozzle : ID 0.34, 0.72, 1.10, 3.50ø)		
Illumination	-	Ring fluorescent lamp (8W) White color ray 6500°k	Optical fiber illuminating halogen lamp
Power supply	AC 50/60Hz, 100V/110V/120V/220V/240V to be indicated, 50VA		
Air source	5kgf/cm ² (dry air) necessary only in case using the ejector		
Dimensions, Weight	(W)640×(D)630×(H)135mm 25kg	(W)640×(D)650×(H)450mm 35kg	(W)640×(D)650×(H)500mm 35kg, excluding CRT
Others	Option Microscope CCD / CRT-monitor		CRT monitor 14" color Horizontal resolution:400Line

Operation (example of model-2)

1. Set the PC board printed with cream solder on to the PCB holder.
2. Set the microscope to the position taking the whole QFP pattern into the visual field.
3. Lightly hold the operation knob of head by fingers, and move the suction head to the top of the intended QFP-tray.
4. Place the suction pad in the center of QFP, and lightly lower the knob until the head suctions QFP, and then raise the knob.
5. Hold the knob, and move QFP to the intended pattern (within visual field of microscope).
6. Peep into the microscope to set QFP to the pattern.
7. While micro-adjusting (left/right, rotation), lower the knob. Upon completing the mounting, raise the knob.