

PCB Surface Cleaning Machine for SMT Line

- ❑ UC-250, from CITIZEN's established precision & machining technology - is specially designed for SMT line use
- ❑ Able to clean top surface of PCB even chip components attached on the bottom side
- ❑ Antistatic bar(ionizer) is prepared as standard to neutralize static and to prevent dust from top surface of PCB

Advantages

- ❑ Easy to remove dust and other objects from surface of the PWB with strong adhesive rollers without damage to the board surface
- ❑ All types of dust can be removed
- ❑ Adhesive clean roll removes all dust from rolls
- ❑ Ionizer removes electric static on the PWB and preventing the static damage to the electronics components and CMOS chips
- ❑ Adhesive tape roll is easy to pull and cut

Operation & Result

- ❑ UC-250 can remove glass fiber, dust particles, etc. on top surface of PCB before solder paste printing, and improve production yield. Especially suitable for PCB which is mounted extremely small components

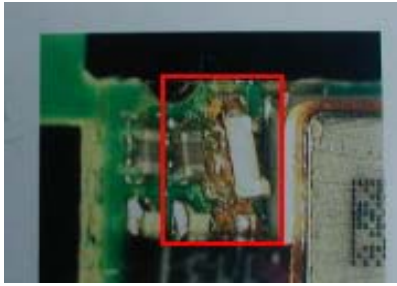


Cleaning Process



System Cleaning Effectiveness Test

1. Solder Joint Defect



Left hand side reflow area shows defect by dust attached before past printing

(Red squared area shows places where it's burned)



Sample photo shows mounting defects by some dust. Not sure whether dust stick on PWB before or after screen-printing

2. Test

PWB input numbers			Defect Condition	
1. No 1 Lot	With Cleaning System	100 sheets	Auto Inspection	0 point
	Without Cleaning System	155 sheets	Eye Visual Inspection	2 points
2. No 2 Lot	With Cleaning System	337 sheets	Eye Visual Inspection	0 point
	Without Cleaning System	350 sheets	Eye Visual Inspection	8 points

Specifications

Model	UC-250 (MC-1)
Cleaning Side	Top side of PCB
PCB Size (W x L x T)	50 x 75 x 0.5 ~ 250 x 330 x 2mm
Conveyor Height	910 ± 25mm
Conveyor Length	Loader side : 100, Printer side : 100
Conveyor Extension	Front : 550mm, Rear : 100mm
Conveyor Direction	R -> L or L -> R (specify)
Conveyor Rail Fixed	Front or Rear
Conveyor Width	Manual (Front Side of System) Option : Auto Movement
Conveyor Speed	0 ~ 9m/min (Variable)
Conveyor Belt	Anti Static Belt
Antistatic (Ionizer)	2 Bars (Loader side & Printer Side)
Clean Roll	2 Rolls
Adhesion Roll	1 Roll
Anti Warp Device	2 sets (Under rubber roller)
Power Supply	AC 100V 50/60Hz
Air Supply Dry Clean Air	0.5Mpa

