

## SM-509 Blade moving (with belt ) PCB Separator

509 shears PCBs by the moving blade, internal stress keeps in range of 500-800uE, to avoid solder crack and component fracture.



### Application Range:

Suitable for diversified glass fibre board, FR-4 board, aluminum board, etc, especially for the PCB with components on both faces.

### Feature:

- 1 When PCB array is separated after soldering, its components and circuit might be hurt by internal stress. 509 shears PCBs by the moving blade, which could decrease internal stress occurred during the shear, internal stress keeps in range of 500-800uE, to avoid solder crack and component fracture.
- 2 509 uses round blade (UP) and strip blade (Down). When start to shear, place PCB on strip blade, step on foot-plate gently, the round blade would move along the edge of strip blade, then PCB is separated totally, and the edge sheared is smooth and clean
- 3 Independent development, controlled by micro computer, with counter function,
- 4 Round blade moving speed 0-500, adjustable
- 5 Round blade moving distance 0-356/500mm (blade custom is available), blade height slight adjustment: 0-2mm, suitable to PCB of different thickness, which solves the problem of different depth of V-slot. More, platform height is also adjustable: 17-93mm
- 6 The moving blade (round blade) could set the position to stop, according to specific length of the PCB. The position to stop is to be set manually.
- 7 Maximum PCB width: unlimited, maximum PCB length (shear length) 356mm/500mm, PCB thickness: 0.2 to 2mm
- 8 Height limitation of component on PCB (UP face): 0-35mm (distance between component and V-slot  $\geq 3$ mm);  
Height limitation of component on PCB (Down face): 0-74mm (distance between component and V-slot  $\geq 25$ mm)
- 9 Blades made by SKH-11 high speed steel imported, durable, can work again after polish.
- 10 Conveyor could be added as an option, which used to move out PCBs conveniently after shear is done

- 11 Your could choose to limiting device and clamp (extra charge), for PCB of different size, to raise efficiency.
- 12 Light curtain and blade shell, double-security, keep operator safe.

#### Technique Parameters:

Model		SM-509-360		SM-509-500
Host Size		1090×400×430mm		1190×400×430mm
Weight		Approx 61KG		Approx 65KG
Voltage		220V/60Hz(110V/50Hz )		220V/60Hz(110V/50Hz)
Pressure		None		None
Power		200W		200W
Blade size	Round blade : Φ125×30×3mm Strip blade : 356×45×6mm		Round blade : Φ125×30×3mm Strip blade : 500×45×6mm	
Blade material	High speed steel imported	High speed steel imported	High speed steel imported	High speed steel imported
PCB thickness	0.1-2.0mm	0.1-2.0mm	0.1-2.0mm	0.1-2.0mm
Shear Length	1-360mm	1-360mm	1-500mm	1-500mm
Shear Speed	0-500mm/s adjustable	0-500mm/s adjustable	0-500mm/s adjustable	0-500mm/s adjustable
Shear Width	Unlimited	Unlimited	Unlimited	unlimited
PCB compatible	fiber glass board, FR-4 board, aluminum board			
Platform Height adjustable	17-93mm			
Component Height (Up face)	0-35mm(distance between component and V-slot≥3mm)			
Component Height (Down face)	0-74mm ( distance between component and V-slot≥25mm )			

BladeSheel



Light curtain

