

SM-620-500 PCB Depaneling Machine

Application

Separate precise SMD thin board, aluminum PCB, for special board , please check with Service.

Introduction

Apply latest pneumatic design of light weight, the PCB could be separated in one time, with minimum internal stress, especially suitable to separation of precise SMD or thin board. Unlike double round blade PCB separator, there won't be any bow wave or micro crack generated.

It uses wedge cutter to shear PCB in line, internal stress decreases to lowest point, even the sensitive SMD modules or capacitance still won't be influenced, then potential risk on quality is minimized.

Cutter blade applies SKH-11 high speed steel imported, also suitable to separate PCB without V-slot.



Features

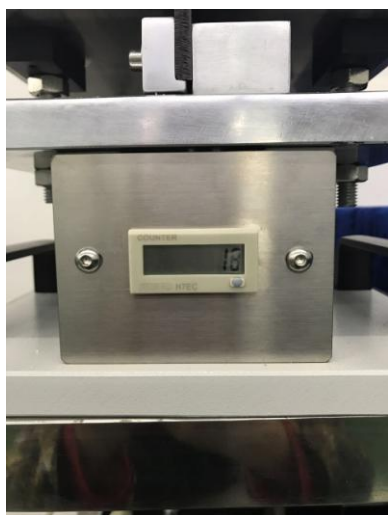
1. Double straight blade, highly suitable to separate SMD thin board and aluminum PCB
2. Guillotine type, for PCB of thickness 0.2 to 3.0mm, cutting moving distance 1 to 3mm, safe operation.
3. keep internal stress within 80-180Ue, to avoid micro crack and damage to precise components.
4. able to shear edge of V-slot, distance from the component should $\geq 0.3\text{mm}$
5. shear rate is one segmentation per second, control by foot-plate pneumatic switch
6. with calculation function, obvious vision on productivity
7. shear blade group is started passively, shear line and position can be handled safely
8. shear not by rolling blade, no dust, no motor drive, no pollution of carbon dust
9. shear is not by blade friction, so there is no residue from blade
10. Shear Blade warranty 6000000 times, no need electricity supply, then no consumption on electric equipment.
11. Air pressure 0.4-0.6Mpa, no need to prepare specific place for the shear
12. Could configure moveable working shelf, can move and operate conveniently.

Technique Parameter

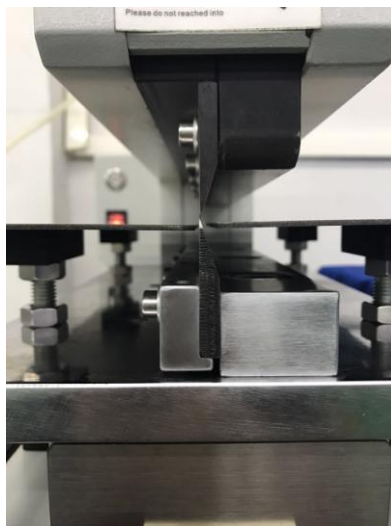
Model	SM-620-500
Machine Dimension L/W/H	850mm×300mm×420mm
Blade size	Upper straight blade 520×60×6mm Down straight blade 520×38×6mm
Blade material	Imported high quality high speed steel
Board width	4-100mm is the best (small piece width, incomplete panel width)
V-cut speed	1mm-300mm/s
V-cut type	Glass fiber board, FR-4 base plate, aluminum base plate and other single direction V-CUT products
V-CUT thickness	One third of the board thickness
Working Pressure	0.5-0.8mpa
Working Voltage	220V/110V optional
Power	10W
Machine Weight	138kg

Details Function

Calculator, obvious vision on productivity



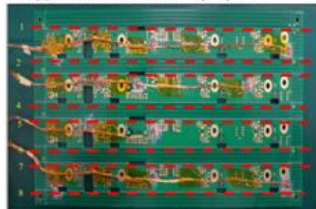
Blade edge of 18 degree, shear of Guillotine type, keep internal stress within 80-180Ue, to avoid micro crack and damage to precise component.



Stress force testing report

Preliminary results 2017-CY-XXXX200

Strain gage measurement for Chico PCBs on deplate process



Long edge position
DE panel on long edge position

