



0086-13929261892 Violet

violet@genitec.tw; violet@separays.com

https://www.seprays.com; https://www.genitec.tw

Machine Introduction

- 1. Equipped with high-speed CCD vision alignment system in all series of products to enhance the precision in cutting and efficiency in operation.
- 2. Use high speed spindle with small cutting stress to precisely cut any shape of PCBA.
- 3. Provide dual worktables for placing the cutting PCB in parallel to enhance the efficiency of opration.
- 4. Patented dust collector with low noise and high efficiency.easy to clean and maintain.
- 5. Operation system: adopts Lenovo+Windows10.
- 6. Software: Genitec independent research and development control system supports unlimited ungrade

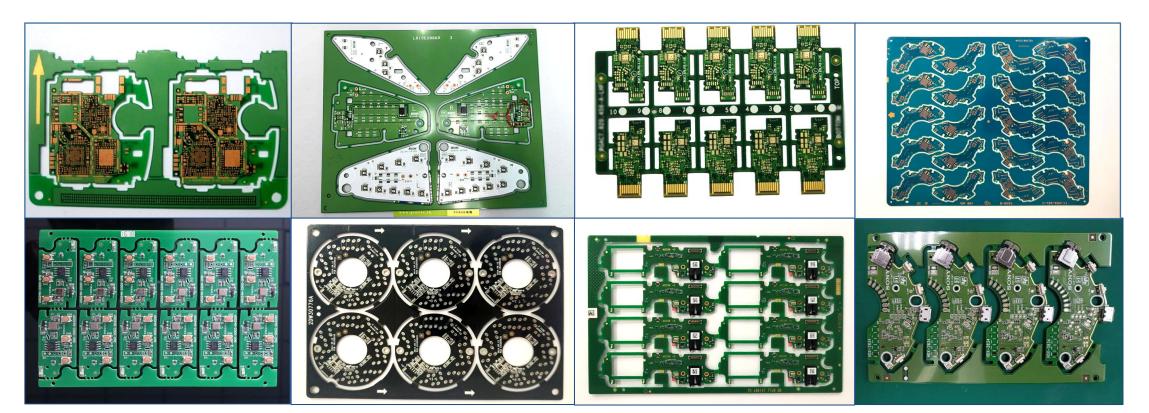




Machine Application



- 1. Equipped with high efficient vision-aided positon alignment system with high-speed CCD camera. Especially designed for high-precision and high-production PCB separation.
- 2. Suitable for de-paneling small-sized PCBs for cell phone, car electronics, GPS device, PDA, and board card, etc.
- 3. Optional special fixture or universal fixture for separating PCBs.
- 4. Provide dual wortables so that placing and cutting PCB can be performed simultaneously to minimize the wating time



Operation Interface

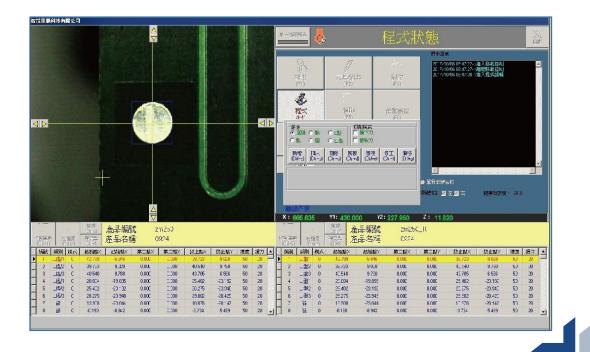
Nine Functions:

- F1 : User Permission
- F2: Setting board thickness、Milling bit specification and life cycle and fixture height.
- F3 : Mark setting and revising
- F4 : Cutting Program Edit
- F5 : the cutting path simulation
- F6 : Milling bit working height setting
- F7: Milling bit drilling center correction
- F8 : Environment, Working, Permission Setting
- F9:Reset



Software-Special Function





Vision-Aided Position Calibration

a.Use computer vision with CCD to automatically position of the mark points and enhance the accuracy of cutting;

b.Can edit the path-planning program and simulate the cutting path to avoid wrong cutting.

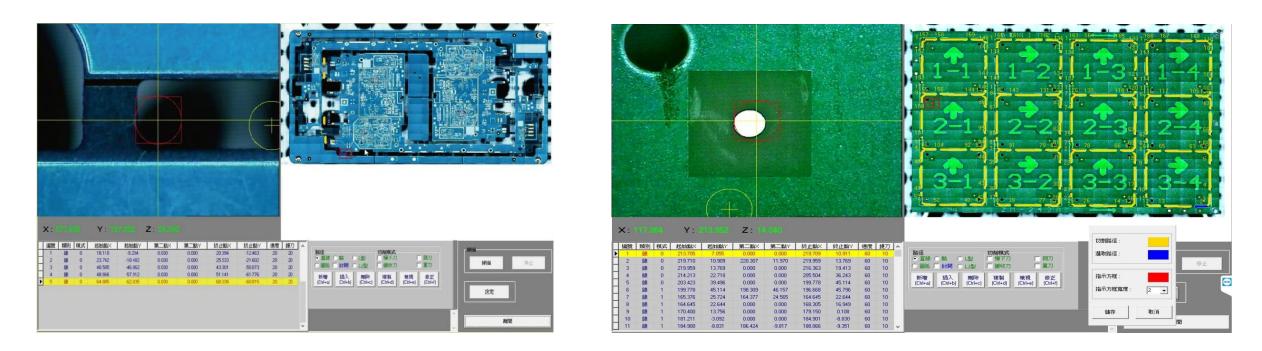


Milling Bit Detection(Optional)

Provide capability of detecting broken/dropped/reversed milling bit for auto tool-change..

Software-Special Function





The whole PCB Scanning Function

a.Allows the user to facilitate correcting and editing the cutter's routing path rapidly.

b.Cutting line color optional, easy to distinguish different color of PCB.

Machine Configuration





Offline automatic PCB Separator

1.Adopts NSK spindle, Panasonic Servo Controller, SMC pneumatic components, TBI screw, PMI Guide rail, Delta PLC control system, quality is guaranteed.

2.It can be read by the handheld barcode machine and managed by the Central MES (Manufacturing Execution System) via Ethernet.

3.Provide dual worktables so that placing and cutting PCB can be performed simultaneously to minimize the waiting time.

the dual worktable can be merged to form a single large worktable to extend the size of the cutting area.suitable for cutting large-sized PCBA.

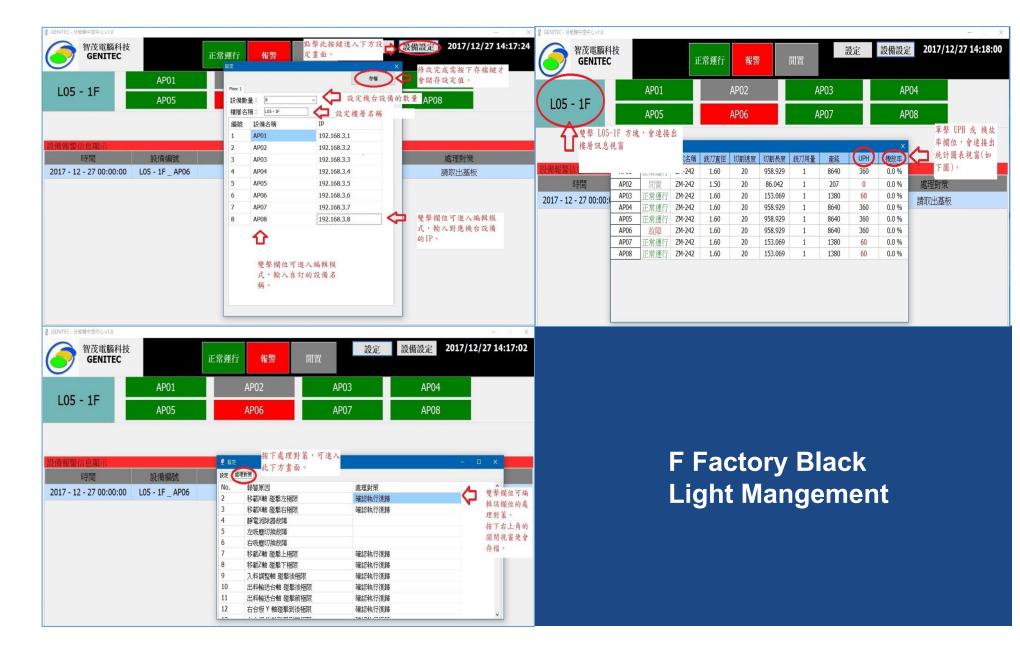


Vacuum damper integrated design

it adopts Japan SMC cylinder drive, stable and reliable. and it can switch quickly with the cutting single-sided platen, and the wind noise is small, which fully guarantees the dustabsorbing effect.

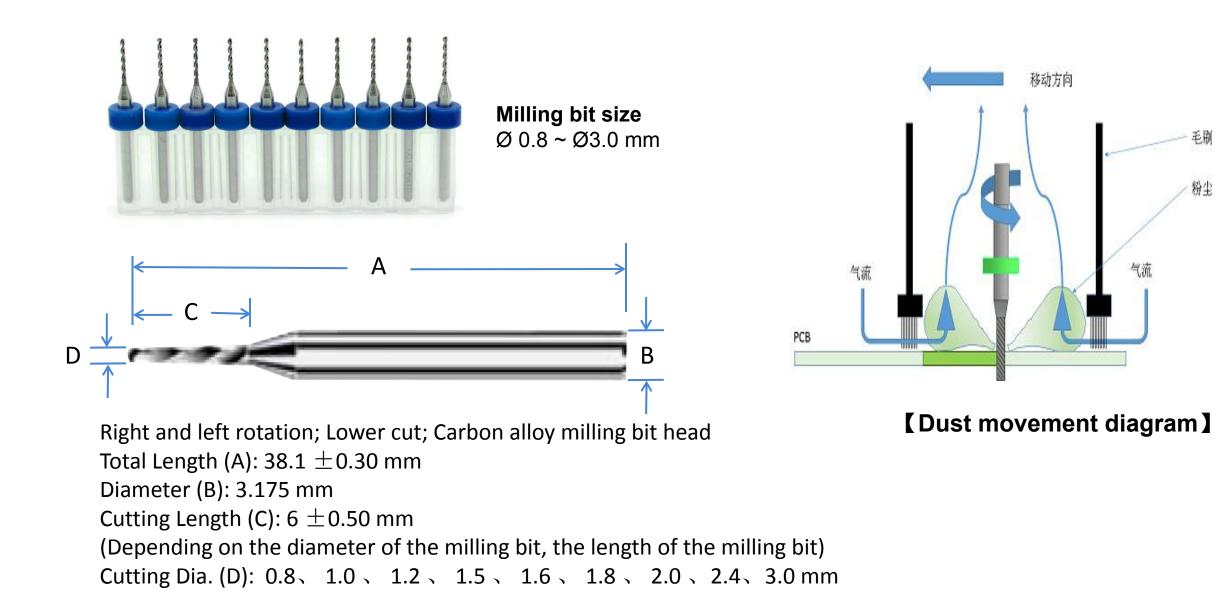
MES link system case





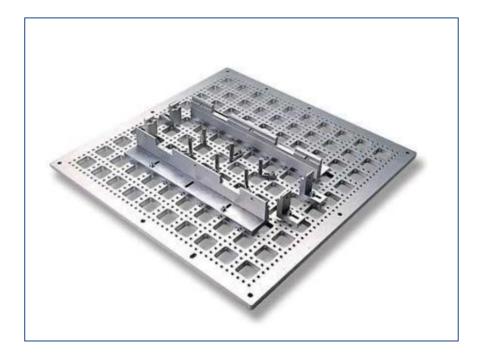
Special Milling Bit





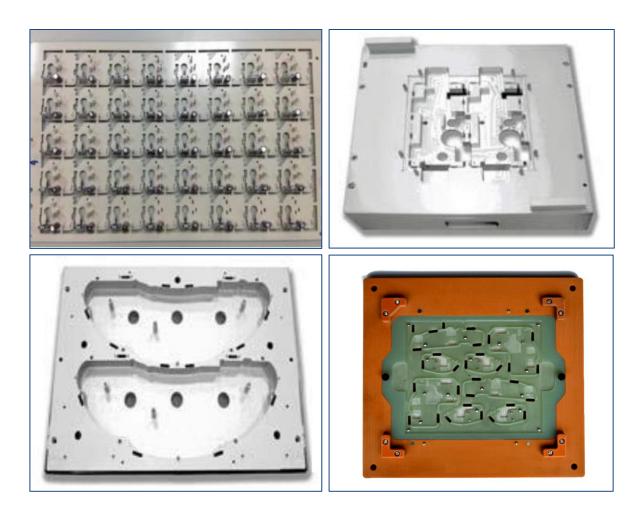
Special&Customized Fixture





Universal Fixture

Used for verious size and any shape of PCBs.



Customized Fixture High precision cutting and stable.

Machine Specification



ltem	GAM320	GAM320L
Valid cutting size	350*300mm	450*500mm
Cutting function	Tweening to line,Lshape,U shape,Circle,Arc	
Process table	Dual tables	
Repeat moving speed	±0.01mm	
Cutting precision	≤±0.05mm	
Max moving speed	XY:1000mm/sec, Z:500mm/sec	
Max moving trip	X:810mm,Y:370mm,Z:90mm	X:1010mm,Y:570mm,Z:90mm
Spindle speed	MAX60,000rpm	
Voltage/Power requirement	AC220V 50/60HZ 3KW Single phase	
Cutting speed	1-100mm/s Adjustable	
Operation system	Windows10	
Program teaching mode	Intuitve teaching by CCD color image input	
Program backup	USB	
Control method	Precision multi-axis control systym	
XYZ axis driving mode	AC servo motor	
Size of milling bit	φ0.8-3.0mm	
Machine weight	1245w*1315w1550H(mm)	1445W*1670D*1550H(mm)
Weight	500KG	610KG
Dust collector	TS200	TS200L

Cooperative customers









