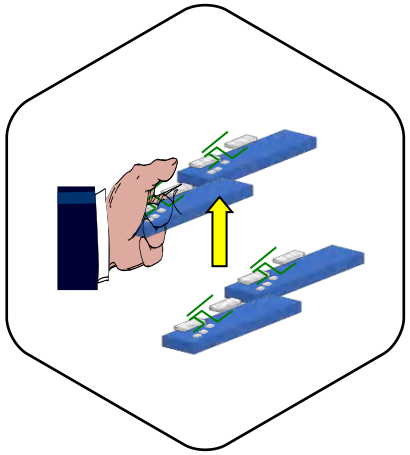
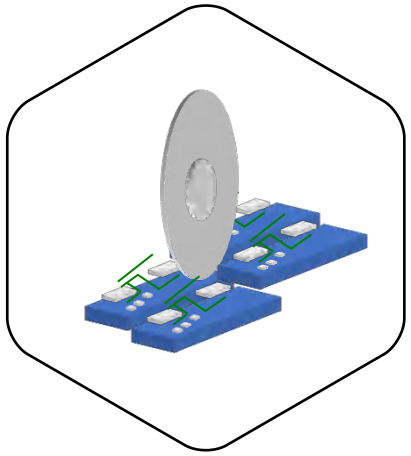
Depaneling Type



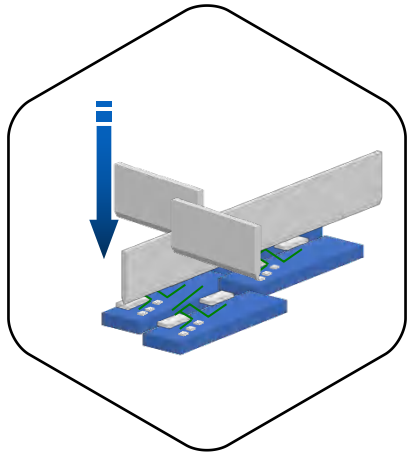
Handy

> 2500με



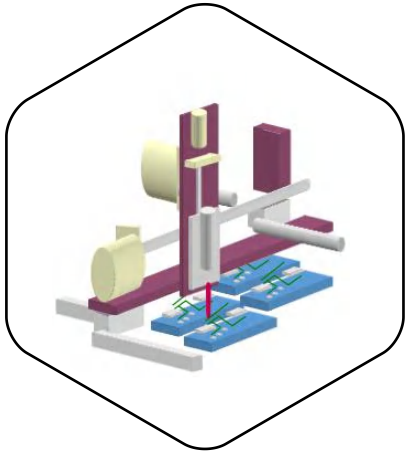
V-Cut

> 1500με



Punch

500-1500με

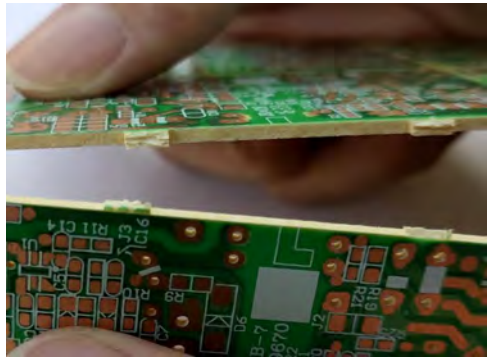
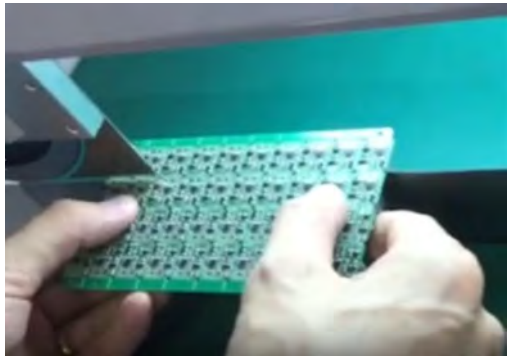
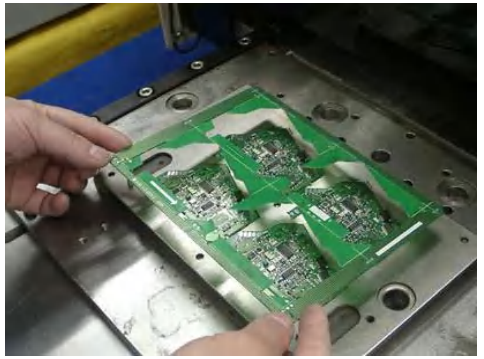
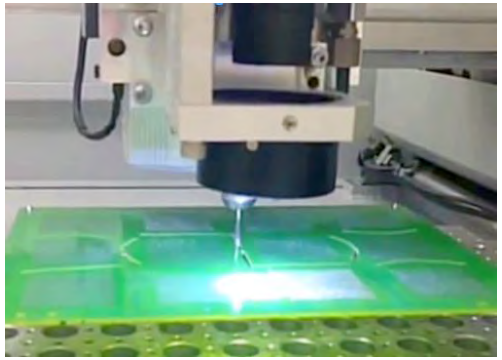
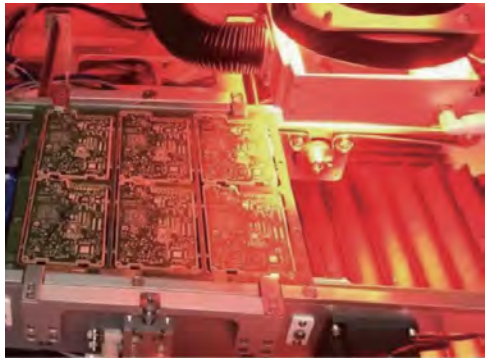


Routing

100-300με

Laser

Development History

Manual

① Many burrs
② Break the electronic parts
③ Used on PCBA can bear high cutting strain and panel without SMD components

V-Cut

① Cutting PCBA with hobbing cutter
② Low cutting stress and price
③ Cut straight lines only

Punch

① Cutting PCBA with mould
② It has fast production speed and high cutting stress.
③ Need to make cutting mould in advance, which takes a long time.

Routing

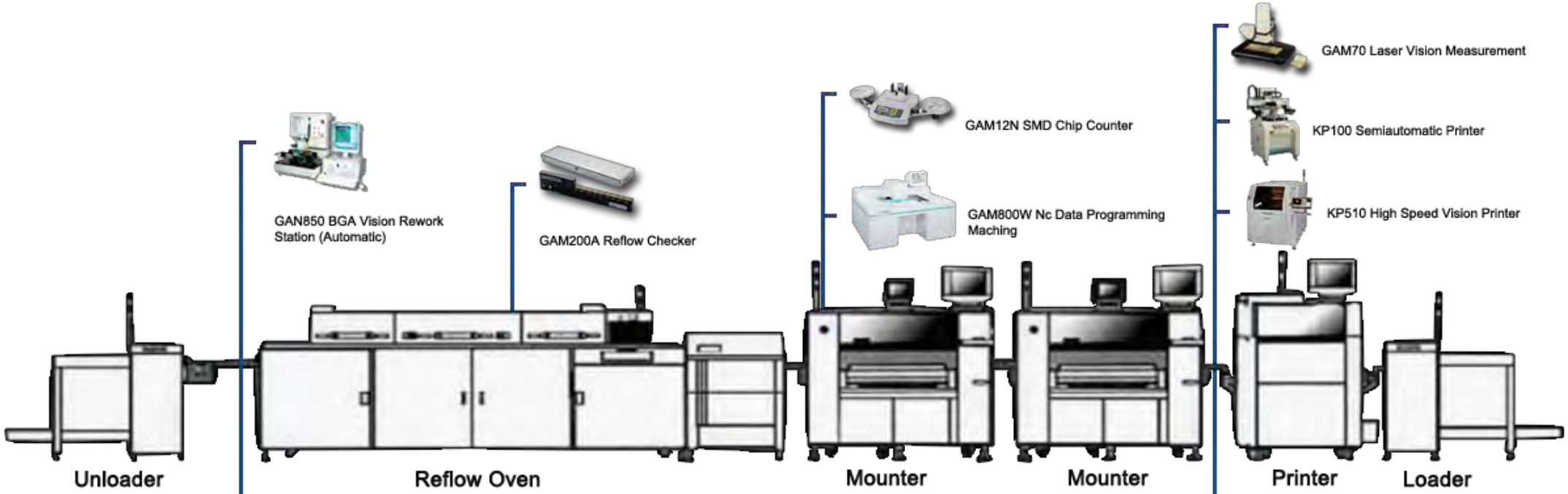
① High-speed spindle to cut PCBA
② With lower cutting stress, high precision and smooth edge.
③ can cut various PCBAs

Laser

① No cutting stress
② can cut various PCBAs
③ Micron-level high-precision cutting with automatic positioning, focusing, etc.

Main Products

GENITEC 智茂科技



Main Products

GAM310

Single Worktable PCBA Separator

GAM320/320L

Off-line PCBA Separator

GAM320A

Vision-Aided Automatic PCBA Separator

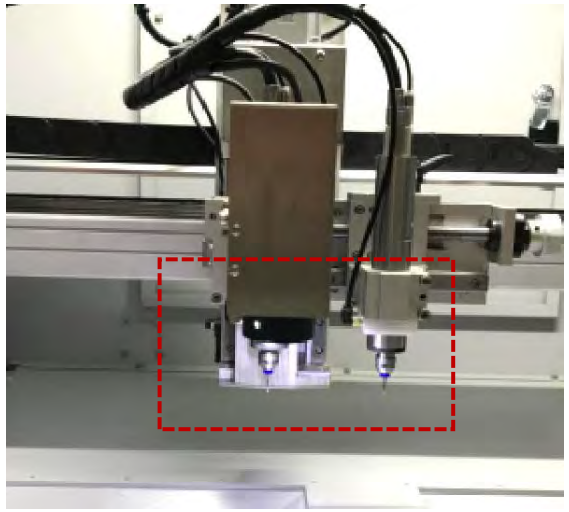
GAM330/330L

Vision-Aided Automatic PCBA Separator

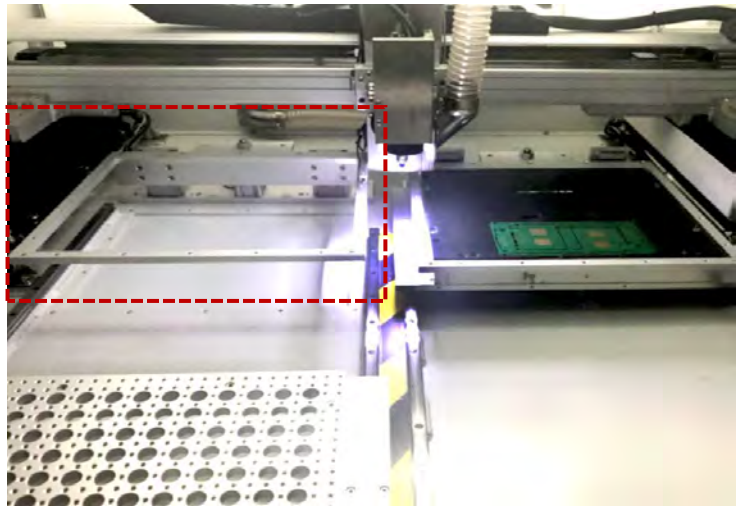
GAM330X

Vision-Aided Automatic PCBA Separator

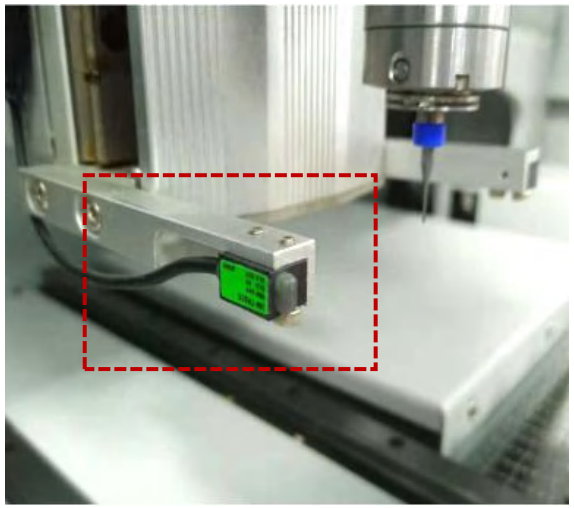
Technical Characteristics



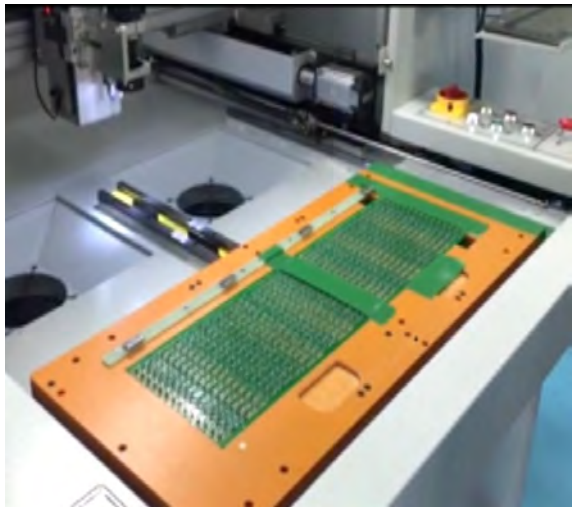
1、Optional dual-spindle structure can double the production capacity.



2、The upper dust collector can be equipped with an automatic capping module to automatic capping the cover plate.



3、Optional automatic detecting broken milling tool function to alarm when milling tool broken.



4、Intergrates two worktables into one for larger size PCBA cutting to reduce machinary cost.

Main Products

GAM300AT

Double-layer track online PCBA splitting machine

GAM310AT

In-line Automatic PCBA Separator

GAM320AT

In-line Automatic PCBA Separator

GAM330AT

In-line Automatic PCBA Separator

GAM336AT

In-line Automatic PCBA Separator

Main Products

GENITEC 智茂科技

GAM340AT
In-line Automatic
PCBA Separator

GAM360AT
In-line Automatic
PCBA Separator

GAM380AT
In-line Automatic
PCBA Separator

ZMLS6000PII
FPC/PCBA UV Laser
Cutting Machine

ZMLS5000DP
FPC/PCBA Laser
Cutting Machine

Main Products

GAM620L

Automatic PCBA Unloarder

GAM660

PCBA-Carrier Unloader

ZM10T/15T

FPC/PCBA Punch Cutting Machine

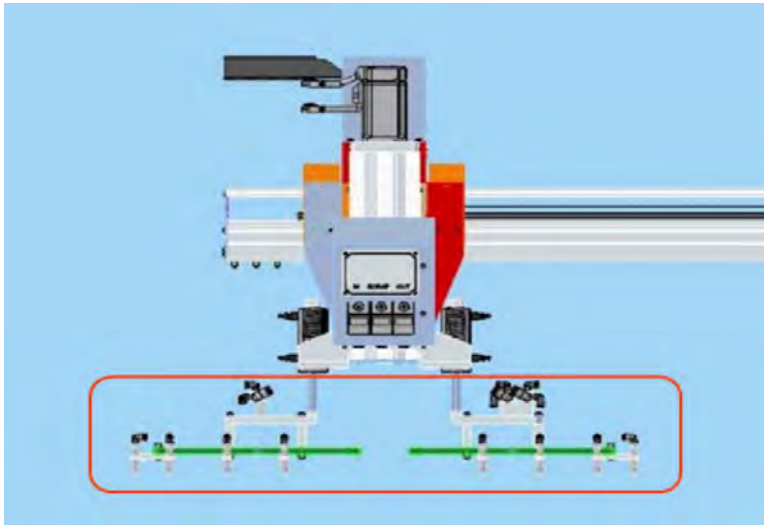
ZM30P

PCBA V-CUT Separtaor

ZM30

FPC/PCBA Laser Cutting Machine

Features



1、The feeding arm is modular design, which can helps fast line changing and improve line changing efficiency up to 50%.

Compared with the single gripper, the dual grippers can let the loading and unloading machine work separately, which reduces the transferring movement distance about 50%, and prolongs the transferring's service life.

2、Floating Brush

Reduce milling tool loss and improve dust collection effect;

When the milling tool is used for segmented cutting, the resistance of the Z axis during tool can be reduced, and the milling tool can be used more effectively.

3、Spindle imported from Germany

High-speed precision spindle maximum speed 80,000rpm/min

Double life, lubricate the bearing system.

Pneumatic automatic tool change system, sealed air for the best protection of the electric spindle to prevent external dirt from being brought into by the medium.

The taper automatic cleaning system ensures power.

Features

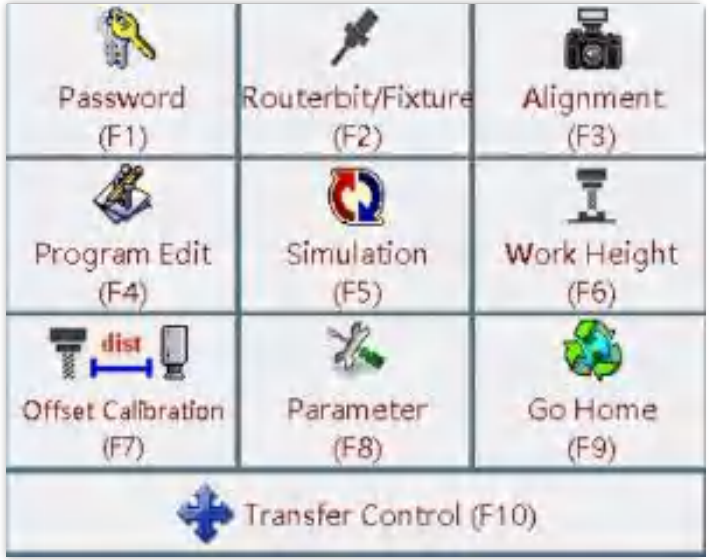
4、Barcode camera can dynamically capture and identify QR codes at any position.

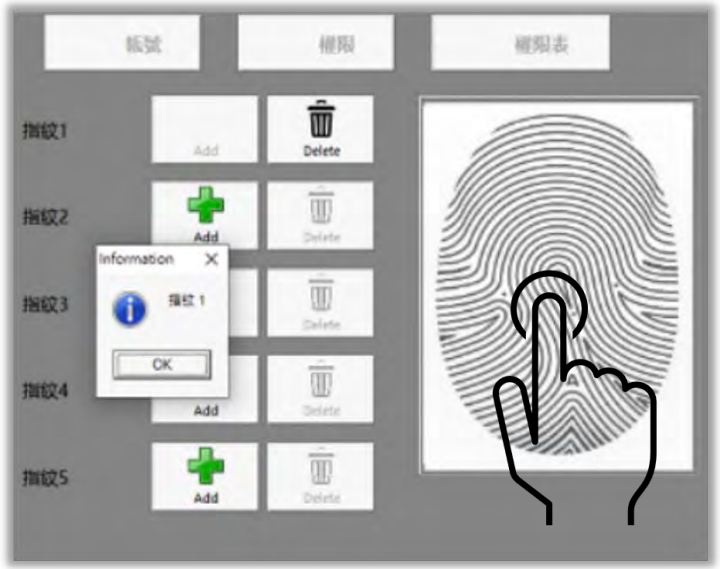
Pratical application QR code: min2.5*2.5mm(Optional)

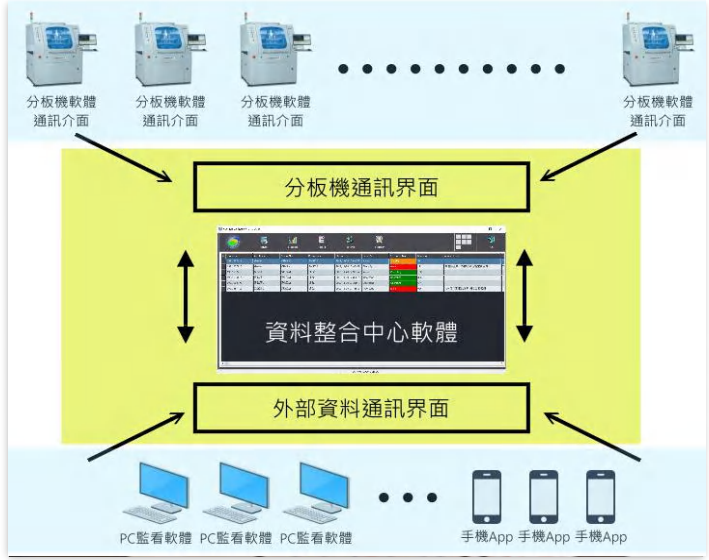
5、Laser height detecting module can prevent PCBA from the improper placement. (Optional)

6、Gripper module is suitable for no edge cutting technology, fixture in and out and pick up large and heavy PCBA (Optinal)

Software Introduction







Nine Functions

F1: Password- User's authority
F2: Router bit and Fixture
F3: Alignment and Fixed-point Correction
F4: Cutting Program Edit
F5: Simulation of Cutting Route
F6: Working Height
F7: Offset Calibration of Router Bit
F8: Parameter of Environment, Worl and Authority
F9: Go Home

Four-level password authority management

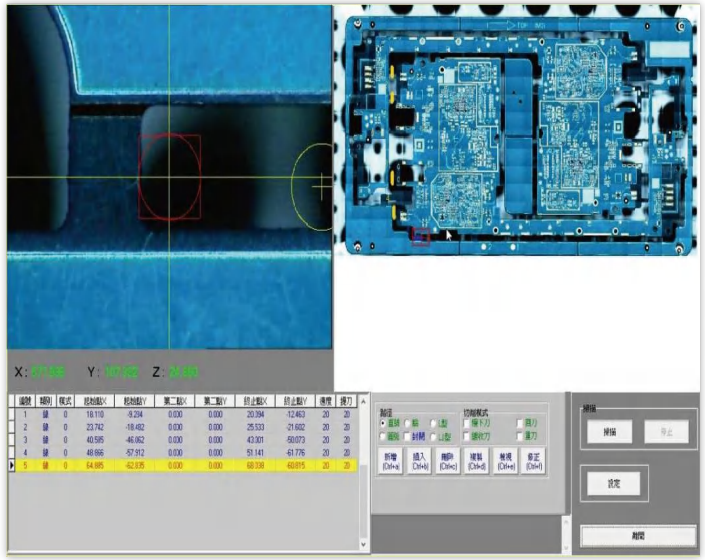
Administrator can set permissions for different operators fingerprint login.

Central control system management

Optional central control system: real-time monitoring through network IP.

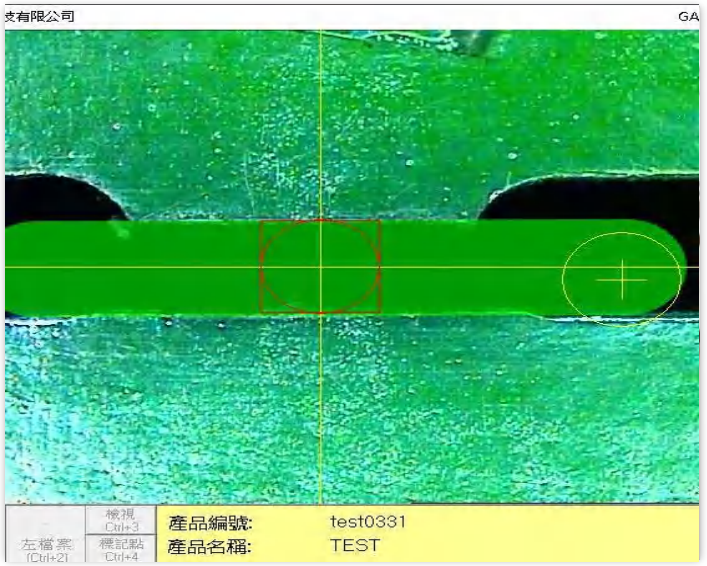
Remote devices management: Android APP remote monitoring.

Software Introduction



Whole panel scanning function

Can using different colors for cutting line to identification different color PCBs.



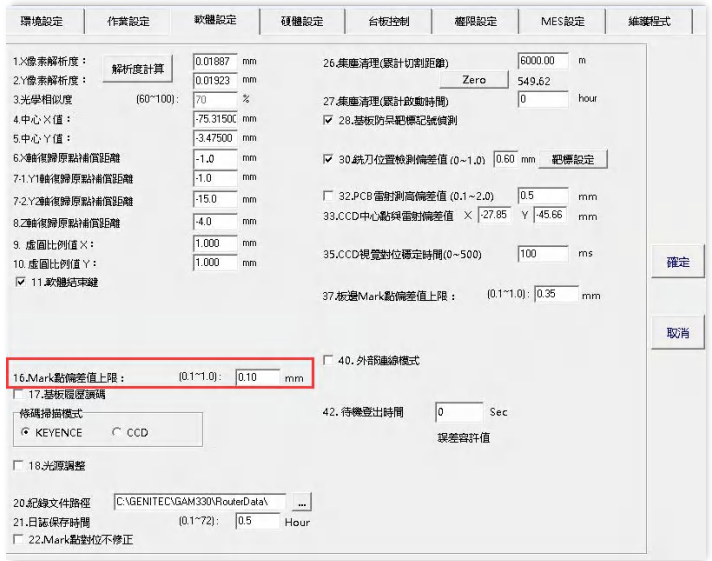
Offline programming for fast line changing

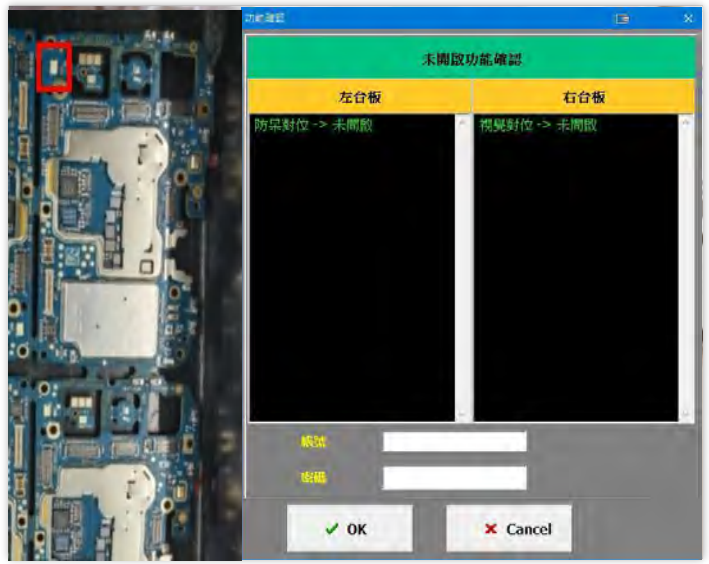
Automatic programming, simple, user-friendly, automatically recognizes the cutting path.

Visual inspection after cutting

Our machine has cutting detection function to prevent copper leakage and burrs PCBs to the market

Software Introduction





Mark point offset detection

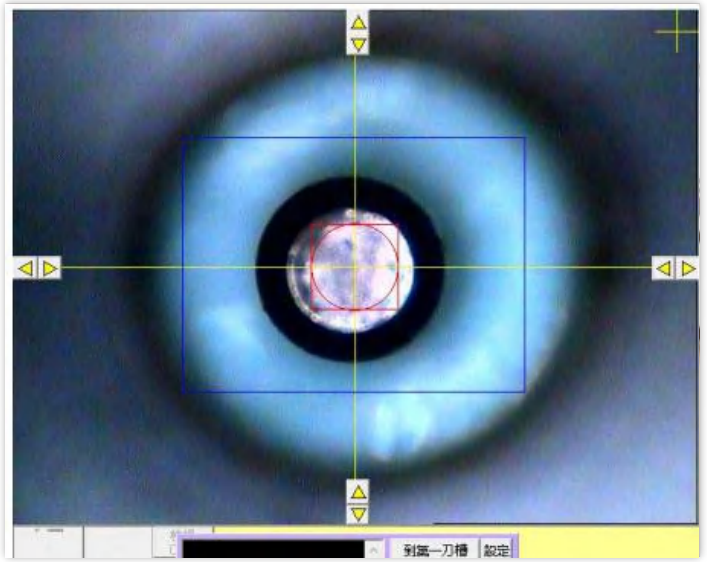
The software sets the offset value range. When detected offset happen, machine will alarm and stop cutting, so as to avoid the quality problems caused.

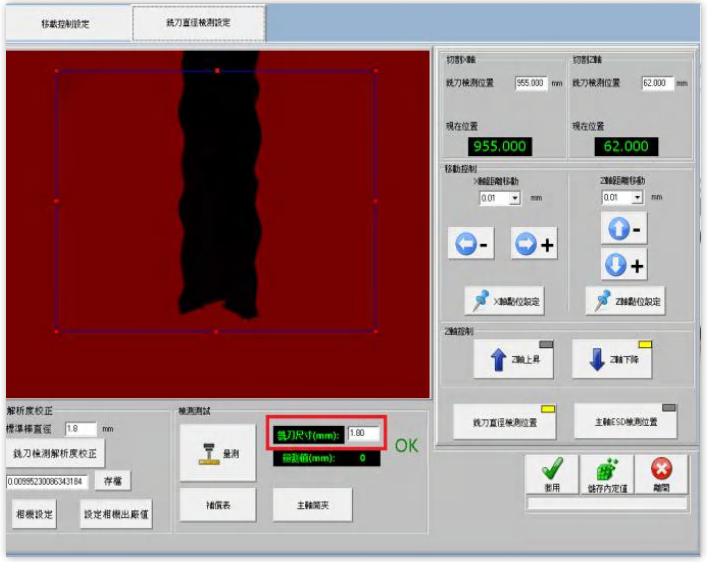
Third Mark point

Set the third Mark point to avoid PCBs reverse and wrong placement

The software will detect the customer's special setting, such as PCBs positioning reminder function, when the system detects that function is not turned on, it will alarm and must enter the password can continue to start, avoid wrong cutting.

Software introduction





Milling tool detection

A.Detecting broken/dropped/reversed milling tool

B.Can adjust the router bit height to keep the cutting depth.

Automatic milling tool changing function

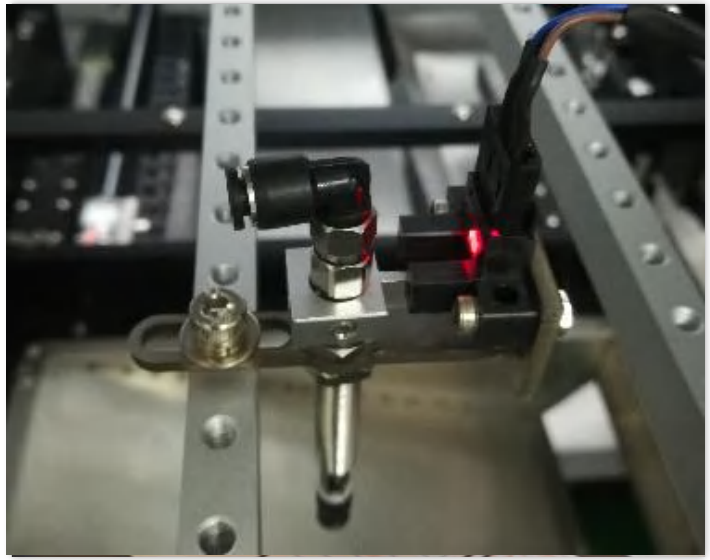
A.Detecting wrong positioned milling tool, avoid damage the spindle

B.Detecting reverse positioned milling tool.

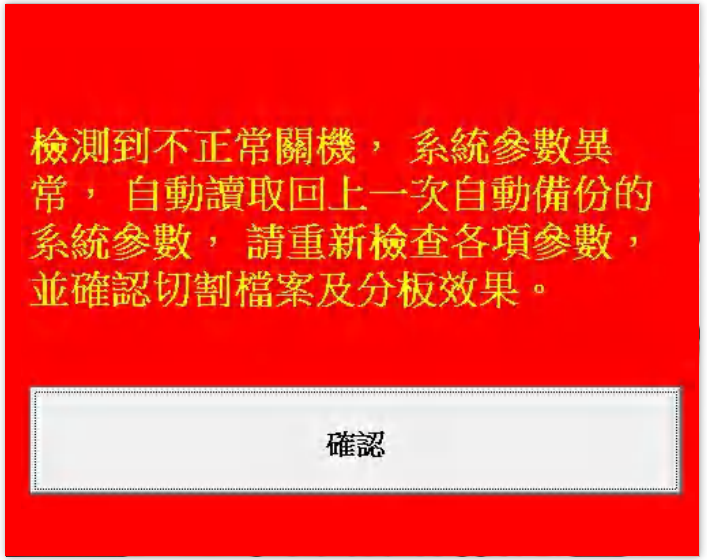
Router bit diameter detection

automatically detect whether the diameter of the milling cutter meets the setting, to avoid the wrong milling tool cutting.

Software Introduction



Simple functional device, by adjusting the position of the sensor on the nozzle rod to match the buffer nozzle, when the PCB panel is placed, it will trigger the sensor alarm when there are foreign objects or the higher parts on the back touch the fixture. To Protect the substrate..



Software parameter automatic backup function

The system will automatically back up the parameters, if power failure or other abnormalities,

the parameter will keeps the same as last setting.

Machine maintenance reminder

According to the maintenance table, will reminded to maintain the machine, and the maintenance personnel's account number is recorded for management.