PCB Router

Inline PCB Router, CW-F03

An on-line PCB which is specially used to cut PCBA components(panel) into separate parts, featuring rail-mounted structure without jig cutting. It can be put into production immediately. Featuring ESD static monitoring, cutting stress feedback, and automatic tool changing, it can reach a top speed of 60000 rotates. The control system developed on the basis of our RM system can ensure customer's rapid and accurate programming.

Specification:

Model	CW-F03
Machine Size	1000*1200*1533mm
Weight	Approx 1900kgs
Max PCB Size	350*350mm
PCB Thickness	0.4-6mm
Transmission height	900±50mm
Transmission direction	Left -> Right
Transmission speed	1500mm/s(max)/adjustable
Feeding plate type	Section-type transportation guide rail
Rail width adjustment	Automatic
Communication signal of upper and lower computers	SMEMA
PCB Positioning	Upper and lower guide rail clamping
Picking system	360°rotary clamping system; 2 groups of vacuum suction nozzles at most, 4 groups of ESD belt transportation/batch panel forwarding units at most
Cutting spindl/speed	Germany KAVO, 60,000rpm/min
Cooling type	Air compression
ESD monitoring	Yes
Automatic tool change	Yes
Cutting stress feedback	Yes
Break blade check	Yes
Cutting speed	1-200mm/s
Cutting accuracy	±0.5mm
Repeat positioning accuracy	±0.01mm
Coordinate moving speed	1000mm/s
Out plate type	ESD belt transportation/batch panel forwarding unit
Waste collection type	Out off the track
Procedure programming	GERBER drawing import/Editing program through visual system
Air supply	5-8kg/cm2
Power supply	AC380V±5%, 50/60Hz, 3KW

Features:

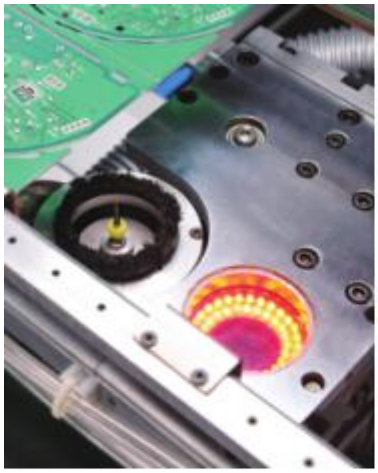
1. **Automatic tool change**
2. **ESD monitoring**
3. **Cutting stess feedback**
4. **Automatic production mode**
5. **Linkage between Spc statistic functionand customer's management system-ERP**
6. **Can be equipped with explosion-proof function of vacuum cleaner**

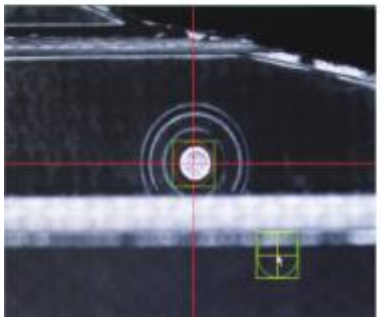
High reliability cutting system

Germany KAVO high-speed principal axis with a top speed of 60000 rotates, featuring ESD static voltage monitoring and the functions of cutting stress feedback and automatic tool changing.

Super Vision System

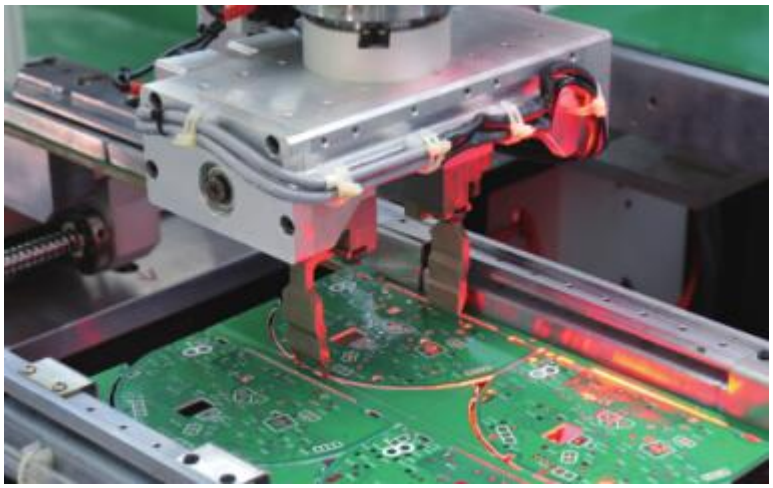
A precise machine visual system which consists of German imagining industrial camera, Moritex Lens and measurement-level light source; it supports all functions of machine calibration, compensation and positioning, featuring highstablility and anti-disturbance capacity.





High reliability PCB gripper system

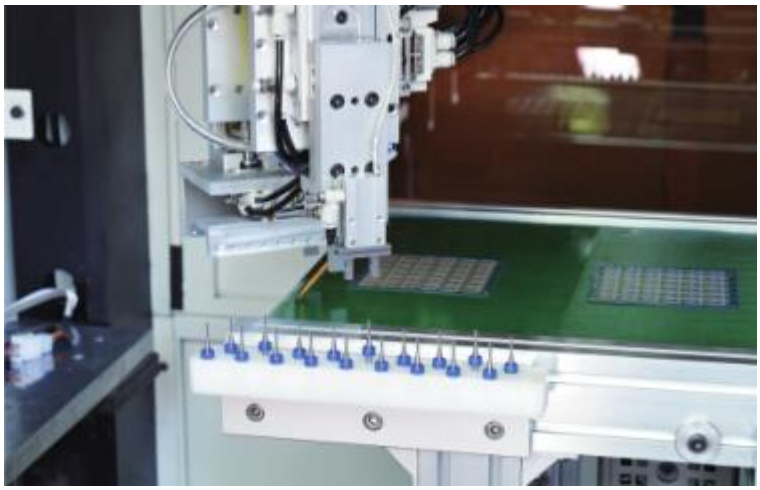
A perfect solution without jig cutting; A PCB clamping size scope of 2mm, the pick up device can realize repid loading/uploading, featuring high stability and low cost.



Automatic tool changer

The standard tool changer supports three kinds of 3.175mm tools, each of which has a top loading Capacity of 10 ones. It is combined with precise clamping system and

lifting system; three axes -X1,Y1 and Z1 of the cutting mechanism canrealize tool changing.



ESD ATPD panel forwarding system

Panel forwarding solution 1: the cut PCB will be delivered by clamping system to belt transmission line, and then sent by ESD transmission line via machine into assembling line, or be picked up and loaded into product case by customized manipulator solution.

Panel forwrding solution 2: use batch panel forwarding unit ARM-1 dismantle belt transmission line from machine, insert panel forwarding unit from behind the machine, and directly load the panel into blister box in ARM-1 via clamping system. The solution is featured By simplicity and convenience.