

# Martin<sup>®</sup>

## MT-2000

### PCB SEPARATOR CUT MACHINE

MARTIN TRIER MT-2000 Series are fast and accurate stand-alone PCB routers with a CCD camera and sophisticated image-processing software. Powerful software expansion function, through the MES system docking, improve the enterprise production management system.

## Characteristics

- **Solution for Low-Stress Depanelization**  
High-speed router bit precisely cuts densely populated PCBs without stressing the board.
- **High-Speed X-Y Robot and Z-axis Servo Motor**
- **A quick and easy method to learn and use**
- **Advanced Image -Processing Software Offers Point- and-Click Operation for Programming Router Paths.**  
CCD camera captures an image of the PCB and easy programming of cutting paths is achieved by simple Point-and-Click Windows-based operation on the computer screen. Time is reduced and programming is simplified by this software.
- **Automatic Alignment Compensation by CCD Camera**  
CCD camera reads fiducial marks on a PCB and compensates for variance on relative position of cutting paths.
- **Accessing order mode to realize automatic cutting**
- **Reading PCB or Fixture QR code to load the program**
- **Milling cutter intelligent mode**  
Depth of milling tool depends on PCB thickness to increase tooling lifetime.  
No program is required by changing milling tool.
- **Whole process monitoring on the operation error**  
In the process of cutting, the marking point error of each plate is recorded in real time.  
Real time error recording of moving axes.  
The error value can be set according to the needs of the product.
- **Industrial 4.0--MES system**  
Server data automatic retrieval.  
Upload machine data and production data.  
Monitor equipment condition in real time.

## Technical Specifications

ITEMS	MT-2000 Series
Working mode	Off-line
Software version	Basic / Professional / Customized
Routing mode	Straight line, Curve, Arc
Vision	High resolution CCD Automatic alignment
Working table	Dual table
Repeatability	±0.02mm
Max thickness of PCB board	3.0mm
Milling tool Diameter	0.8-3.0mm
Spindle Speed	Max 60,000rpm
Motor drive mode ( X, Y Z Axis)	AC servo
X, Y cutting speed	0-100mm/s
Operating system	Window 7
Host power supply	220 VAC, 50Hz, 1Ph, Max 1500W
Dust power supply	380 VAC, 50Hz, 3Ph, Max 2200W
Vacuum blower	Upper or lower
Air supply source	0.5Mpa

## Type Difference

Working Table	Model	Working Area	Dimension ( mm )	Net Weight
Dual table	MT-2000-AS	300x350mm	1130W x 1392D x 1500H	740KG
Dual table	MT-2000-AW	350x450mm	1280W x 1492D x 1500H	790KG
Dual table	MT-2000-AE	500x500mm	1582W x 1531D x 1500H	840KG



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