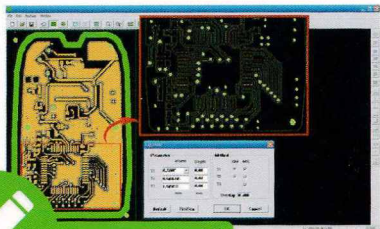


EP-Series

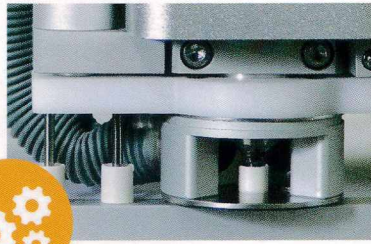
PCB Prototyping Machine

A NEW GENERATION OF ADVANCED PCB MAKING.



PCAM Software

PCAM is compatible with all windows system and accepts standard RS274D/X format GERBER files exported from layout software like: PROTEL / ALTIUM DESIGNER / P-CAD / ALLEGRO / POWER PCB (PADS) / ORCAD, etc.



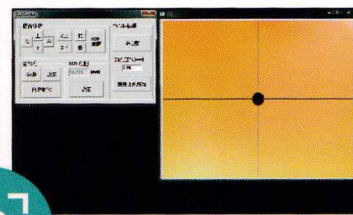
Auto Tool Change

12 Positions Auto Tool Change.
Drilling / Engraving / Routing by One Key.



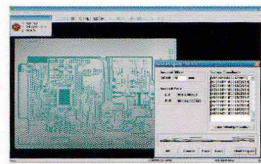
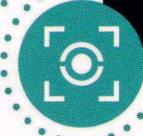
EP-42AUTO

- Apply to : RF / Microwave / High Frequency / Digital / Analogy / Manufacture Fixtures
- Support GERBER and DXF format.
- Double and single sided circuit board prototype.
- Easy operation with vision align system.
- Motorized Z-axis with AI control monitors by PC.



Vision Align System

Use camera to align the fixed holes for double sides PCB with significantly faster and more accurate. Magnification 200X.



Surface & Tool Length Detect

EP42 Series provide surface and tool length detect to tactile the surface distribute on PCB. It can compensate Z axis depth while working, it is a convenient function without manually adjust the depth of Z axis in order to get excellent PCB qualities.



APP Monitoring



EP42 APP

- Status messages
- Monitoring process
- Control schedule

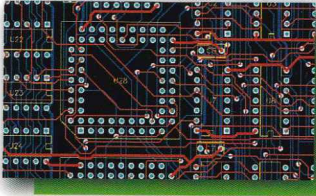


60,000rpm Spindle

There will be less burr on edges and smooth cutting by 60,000rpm spindle, it can be drilled a smaller hole to 0.1mm.

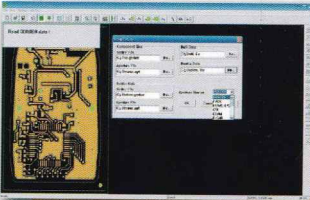


PROCESS OF PROTOTYPING



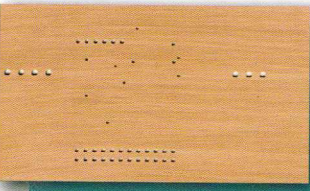
PCB Circuit Design

Export Gerber file from your current PCB design software.



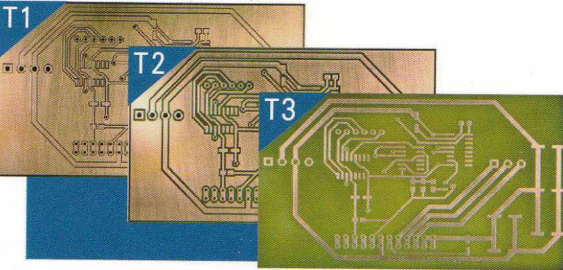
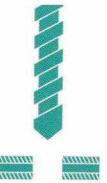
Import Gerber file to PCAM software

Import Gerber to PCAM to generate engrave path and route line.



PCB Drilling

Machine will do drilling each hole size by your demand.

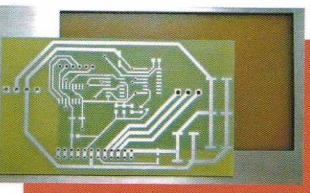


Trace Engraving and Milling

3 Types tools create a PCB path and trace.



T1 60 or 90 degree engraves tool isolate pads or trace
T2 Milling tool makes wider trace and removes copper.
T3 Milling tool removes big area copper.



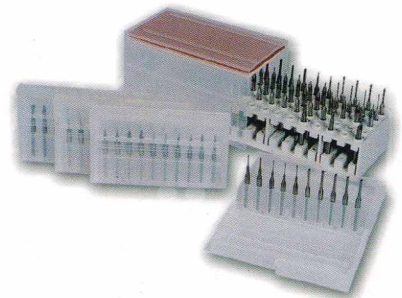
PCB Routing

Cutting outline of the PCB.



Tools

- ① Engrave Tool : For engraving trace and pads.
- ② End-mill Tool : For copper removing.
- ③ Drill Bit : For Drilling holes.
- ④ Router Bit : For PCB outline cutting.

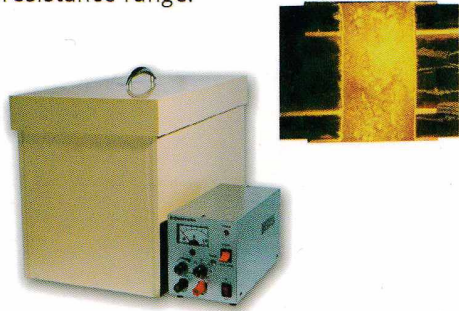


**ONE KEY PROCESS.
 A NEW GENERATION OF ADVANCED PCB MAKING.**

THRU-HOLE Applications

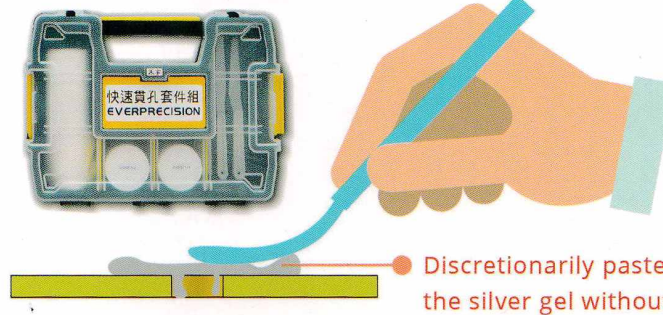
Plating Tank

Easy plating process is conductive by copper ions around the hole wall, the minimal hole size apply to 0.2mm with 0 resistance range.



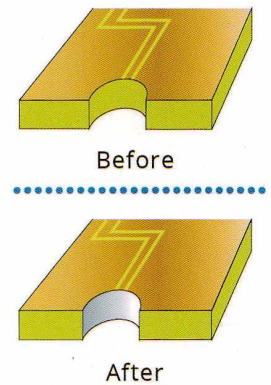
Quick Thru-Hole applications

- No pollution / environmental friendly
- Resistance range 0.02 ~ 0.1 Ω
- Easy operation /cost saving



Discretionarily paste the silver gel without waste.

Section View



Before

After



EP-42AUTO

Quick PCB / No more waiting

Access your project quickly,
Test your PCBs instantly,
Rework your design soon.

Specification / Mode

EP-42AUTO / EP-42NV

Working Area	230 × 320 x 50 mm	Drilling Performance	120 Stroke/min
Resolution (X/Y)	0.5 μ m	Tool Change	Automatic 12 postions / <i>Semi Auto</i>
Axes	X.Y.Z	Tool Holder	1/8" Socket
Control Motor	X.Y.Z / Stepping Motor	<i>Tool Length Detect</i>	<i>Auto Tool Length Detect</i>
MAX. Travel Speed	60 mm/sec	<i>Surface Detect</i>	<i>Auto Surface Detect</i>
MIN. Trace Width	4mil	<i>Spindle Speed</i>	<i>5,000~42,000 rpm (Software Control)</i>
MAX. Working Speed	30 mm/sec	Weight	60Kg
Drilling	0.2~3.175 mm	Dimension	735 × 500 × 497mm
		Power Consumption	AC 110~220 V

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