

EP2002 SERIES

Technical Specification

SPECIFICATION	EP2002	EP2002H	EP2002L	EP2002LH
Working Area	320x200 mm	320x200 mm	420x340 mm	420x340 mm
Resolution	0.005 mm	0.005 mm	0.005 mm	0.005 mm
Control Axis	X, Y, Z	X, Y, Z	X, Y, Z	X, Y, Z
Control Motor	X, Y, Z/Stepper Motor	X, Y, Z/Stepper Motor	X, Y, Z/Stepper Motor	X, Y, Z/Stepper Motor
Max. Travel Speed	45 mm/sec	45 mm/sec	45 mm/sec	45 mm/sec
Max. Working Speed	20 mm/sec	25 mm/sec	20 mm/sec	25 mm/sec
Min Trace Width	4 mil	4 mil	4 mil	4 mil
Drilling	0.3 - ∞ mm	0.2 - ∞ mm	0.3 - ∞ mm	0.2 - ∞ mm
Drilling Performance	90 Stroke/min(Max)	100 Stroke/min(Max)	90 Stroke/min(Max)	100 Stroke/min(Max)
Tool Change	Manual	Semi-automatic	Manual	Semi-automatic
Tool Holder	1/8 Socket	1/8 Socket	1/8 Socket	1/8 Socket
Tool Length Detect	Auto Tool Length Detect	Auto Tool Length Detect	Auto Tool Length Detect	Auto Tool Length Detect
Surface Detect	Auto Surface Detect	Auto Surface Detect	Auto Surface Detect	Auto Surface Detect
Spindle Speed	35,000 rpm (Max)	5,000-60,000 rpm (Software Control)	35,000 rpm (Max)	5,000-60,000 rpm (Software Control)
Machine Dimensions	W350xD570xH380 mm	W350xD570xH380 mm	W470xD685xH380 mm	W470xD685xH380 mm
Machine Weight	28 Kg	29 Kg	42 Kg	43 Kg
Power Consumption	AC 110/220 V	AC 110/220 V	AC 110/220 V	AC 110/220 V
Wireless Tool Change Reminder	Option	Option	Option	Option
Vision System	Option	Option	Option	Option

Option



■ Wireless Tool Change Reminder System

You don't have to stay near the machine waiting to change tool anymore. Wireless Tool Change Reminder System will help you to know when to change the tool and when will the PCB be finished. Wear the pager of this system, you can do more job when machine running. The effective distance can be farther than 500M at straight line.



■ Vision System -the eye of EP2002 series

EP2002 series provide an auxiliary vision system. When you setup the CCD camera on the machine. There are more functions than you can imagine. For example:

- If you use a photochemical board to produce your circuit board. Vision system will help you precisely drill and route on EP2002 series.
- If you concern about the accuracy on different layers when producing double or multi-layer board. Vision system can provide you more precise when using machine.
- 30X CCD can make your PCB PROTOTYPE MACHINE as a measuring machine. You can measure the , distance, arc, diameter and more functions on the machine.

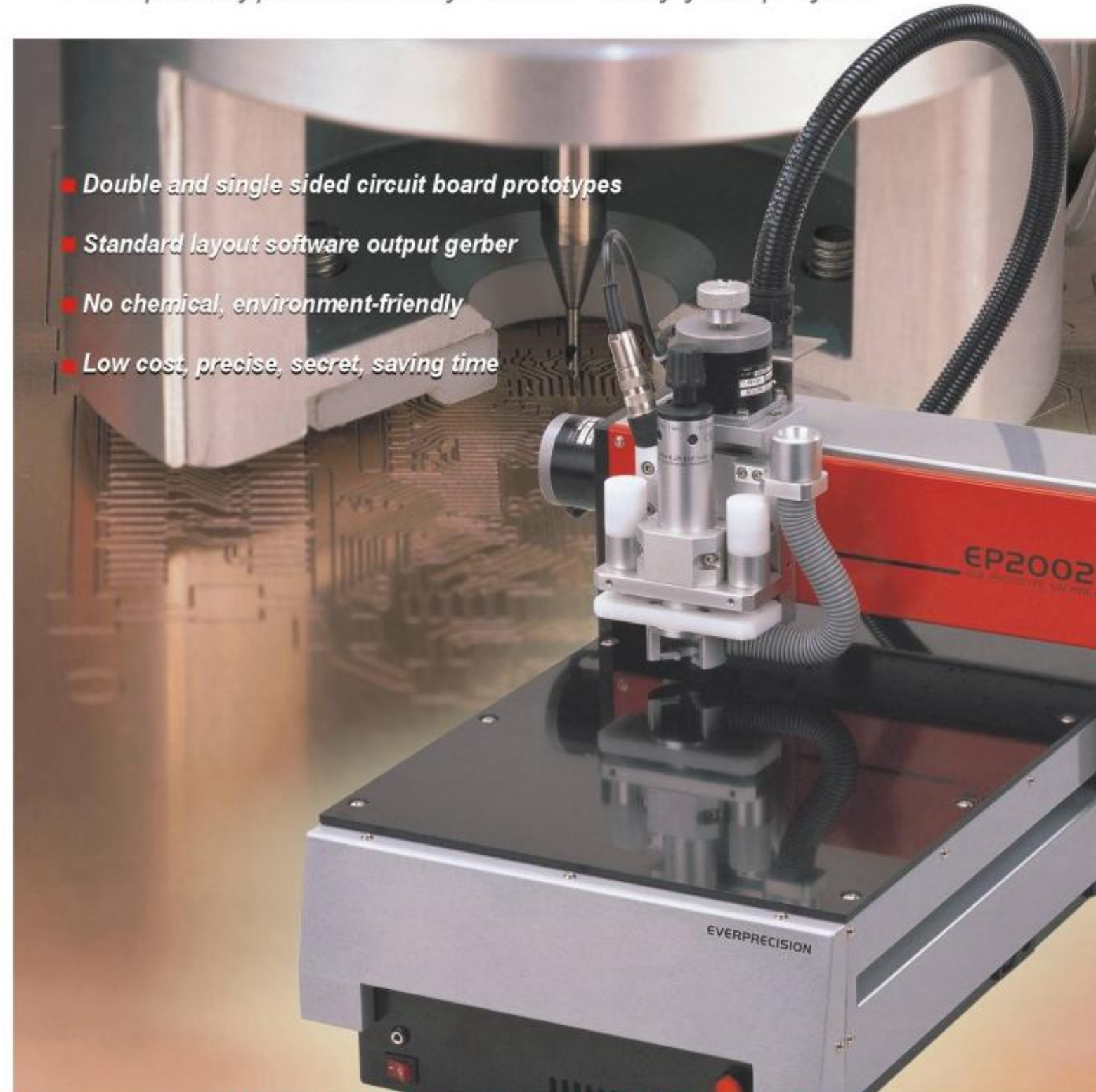
Global Semiconductor Datasheet Library

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EVERPRECISION

EP2002 SERIES PCB PROTOTYPE MACHINE

PCB prototype in one day. Never delay your project.

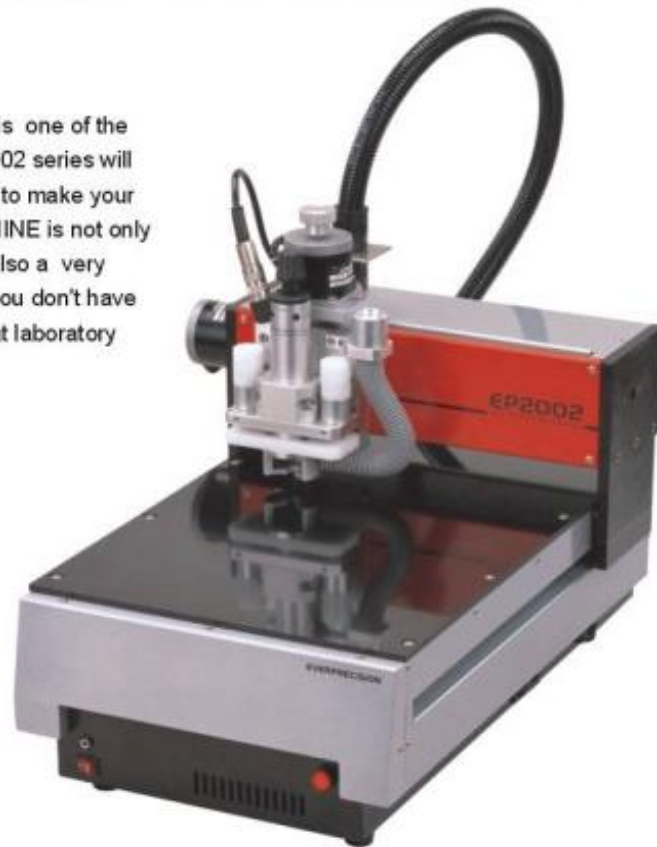


- Double and single sided circuit board prototypes
- Standard layout software output gerber
- No chemical, environment-friendly
- Low cost, precise, secret, saving time

PCB PROTOTYPE MACHINE EP2002 SERIES

Specialty of Machine

EP2002 series PCB PROTOTYPE MACHINE is one of the excellent products in EVERPRECISION. EP2002 series will bring you the most simple, quick, precise way to make your own pcb prototype. PCB PROTOTYPE MACHINE is not only save your time and cost in your R&D job, but also a very environmental protection product. From now, you don't have to use chemicals to make your pcb prototype at laboratory any more.



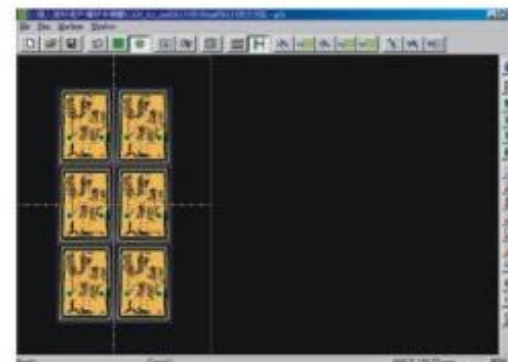
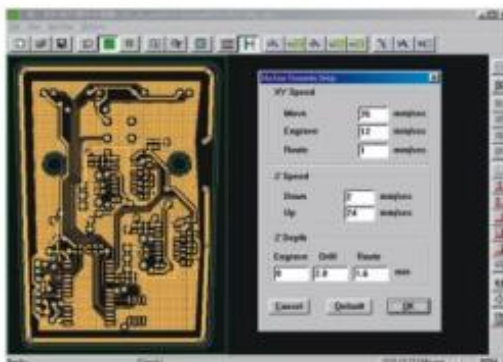
Surface Detect & Tool Length Detect

Owing to the irregular surface and thickness on the board material. EP2002 series provide you the surface detect & tool length detect function to inspect the surface situation on pcb. After surface detect, EP2002 will automatically adjust the depth when cutting pcb to keep the less cutting on the dielectric. There is no need to manually adjust depth when using EP2002 series. The depth can be adjust minimize to 0.005mm by numerical input on software and maintain a constant cutting depth.

Easy to Use Software PCAM for all Windows System(98/NT/XP...etc.)

The EP2002 series operation system PCAM compatible with all Windows system and accepts standard RS274D/X gerber file from Protel/PADS/P-CAD/OrCAD/CAM350/Tango...etc. or AutoCAD *.DXF file.

PCAM Software function: array, copy, mirror, working time forecast, working area test, routingpath offset... etc. Gerber file edit function: move, add, delete pad, track, drill... Etc.



Drilling/Milling/Routing in one machine

No need to use any gauge, manual testing and adjustment, EP2002 series make drilling, milling and routing become a easy job.

Drilling - Auto adjusts the best drilling speed when using different size of drill bit to avoid drill bit broken.

Milling-Auto adjusts the depth after Surface Detect to keep the lesscutting on dielectric.

Routing - Auto offset the router tool diameter to make accuracy shape.



60,000 rpm High Speed Spindle

EP2002 series with the high speed spindle is the best choice of manufacture RF/Microwave pcb prototype. The spindle speed can be set from 5,000 ~60,000 rpm. Because of the high speed, the milling will be more smooth and accuracy, and there will be less burr when cutting on the copper-clad. The high-speed spindle also can drill hole small as 0.2mm, use smaller end-mill tool, extend tool life, and use on many kind of board material.



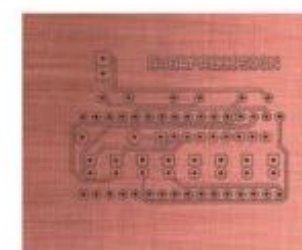
Tools:

- 1. Milling Tool: For isolation cutting.
- 2. End-mill Tool: For copper remove.
- 3. Drill Bit: For drilling hole.
- 4. Contour Router: For contour shape.

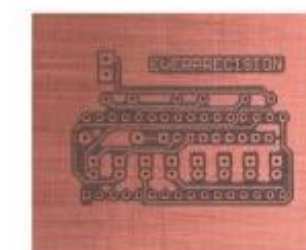


Milling Tool Selection:

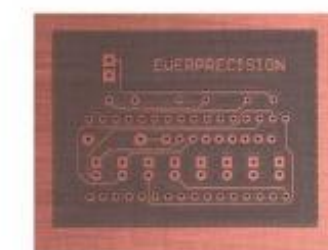
- T1 for isolation:60 or 90 degree milling tools for isolate track.
- T2 for isolation:0.5mm end-mill milling tool for milling a wider isolate spacing.
- T3 for big area milling:1.5mm end mill for big area copper remove from copper clad.



●T1



●T2



●T3