

## MIPEC 4MILL300

### PCB and RF Antenna Design with manual tool change

MIPEC can handle Drilling, Engraving, Routing on standard Single side and Double-sided PCB designs, SMD, RF and various other applications.

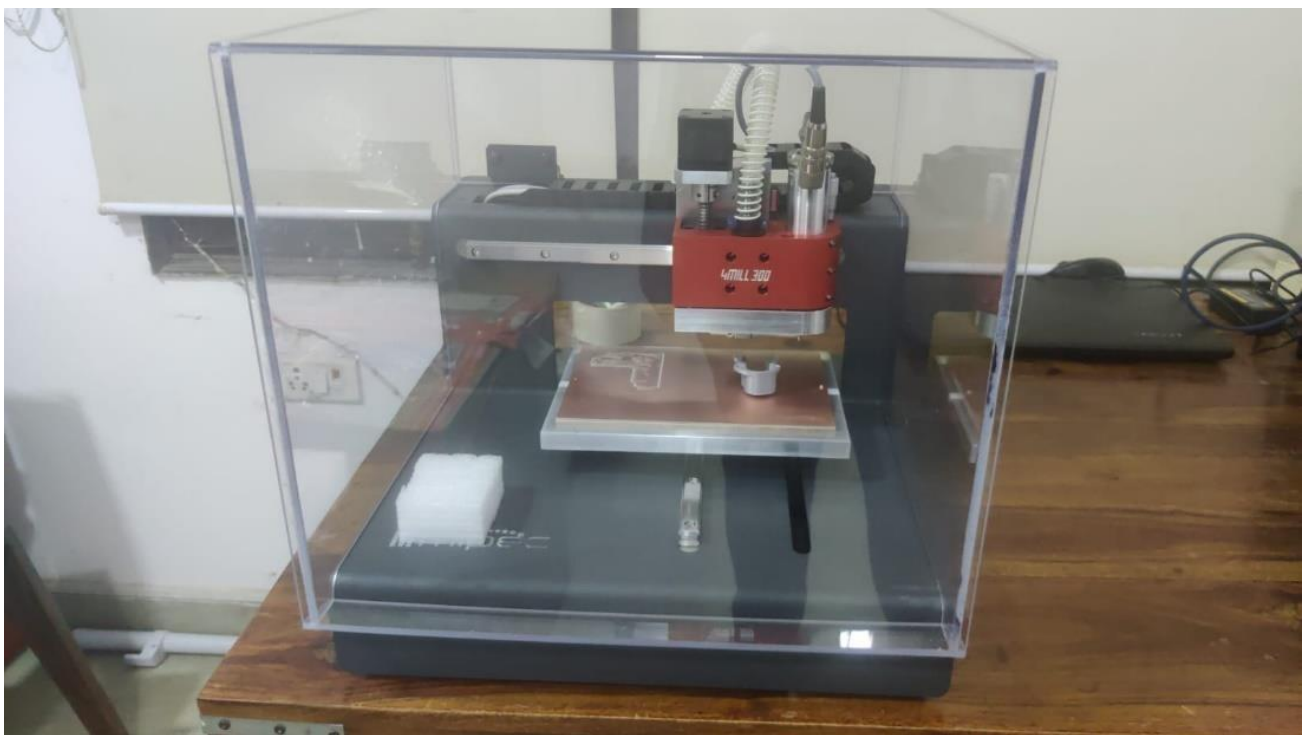


MIPEC 4MILL300 is compatible with PCB designing and DXF, Gerber, cdr file viewing, editing, g code generation and design fabrication software. Its Machine control and CAM operation software is a single software which will be supplied with the machine.

## **MILL300 with manual tool change**

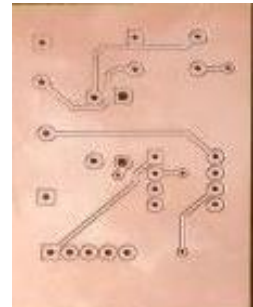
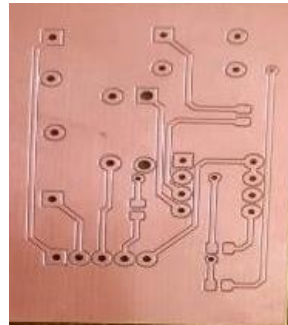
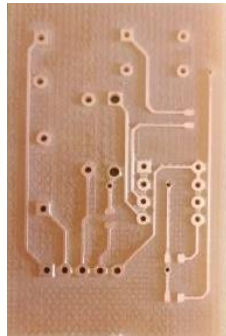
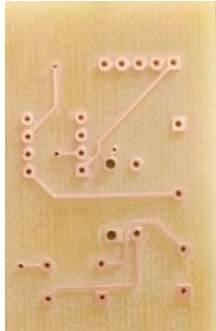
Mipec is trademark of P2J Technology, from Czech Republic. P2J Technology is specialized in developing and manufacturing of precise milling and drilling equipment that meets highest of customer's demands.

PCB milling machine 4MILL300, We proudly present our multipurpose machine with automatic tool change system for PCB prototyping, front panel making and 3D modeling. Make your double-sided PCB's in minutes using 4MILL. Thanks to its hi-precision lead screws and 70K HF spindle motor we can handle standard PCB designs, SMD, RF and various other applications. Do you need to drill holes from 0.2mm and/or tracks and insulation paths from 0.1mm? 4MILL is the machine for you!



With a MIPEC PCB prototyping solutions, you can produce PCBs in your own lab – fast, environmentally friendly, and with high accuracy. It is no more necessary to wait days or weeks for your boards to be delivered from your external suppliers. With MIPEC prototyping method, you can proceed directly from the design phase to the implementation and testing of your design in the shortest possible period. If any design error is discovered, a new PCB can be produced almost immediately and you can run your tests again.

The new generation software for PCB prototyping is included: With professional machine comes professional software! TrackMaker, packed with features for quick processing and milling of your data. Load all layers with one click and start milling right away. Powerful for super-users and user-friendly for beginners. In fact, we are convinced that this is the most user-friendly package on the market.

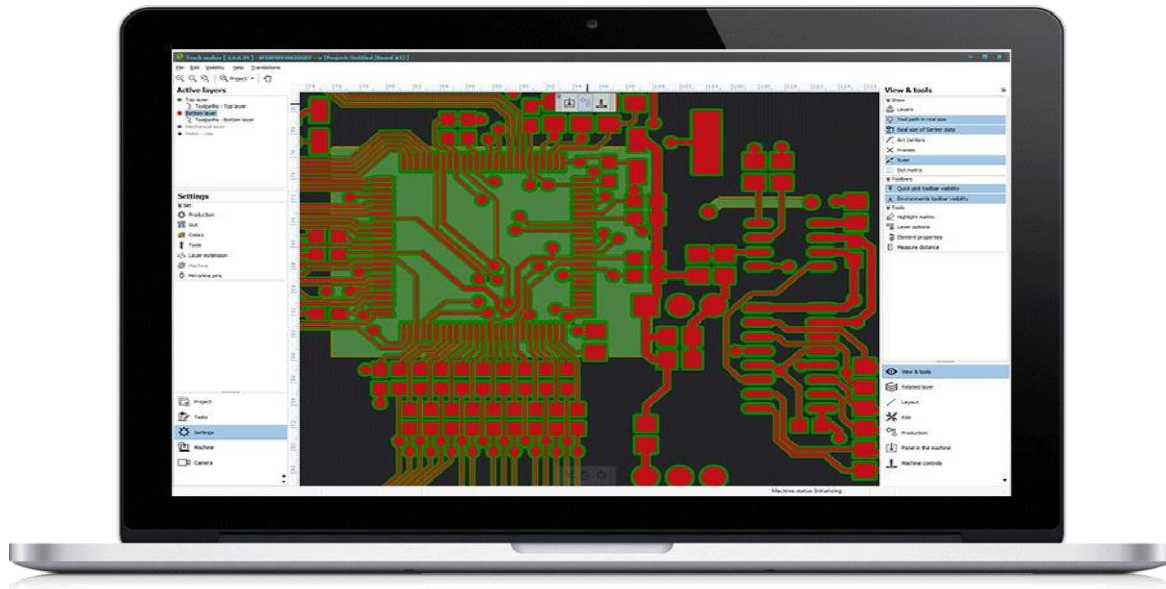


## TRACEMAKER:

Trackmaker is an integrated insulation and machine-control package dedicated for PCB milling.

Trackmaker is running on Windows Operating system.

It comes with a USB Dongle based licensing. Its CAM operations like to generate tool paths for PCB milling machine and for editing, converting, and manipulating data generated by diverse CAD packages, so no other software is required to move the drive axis or machine PCB. Trackmaker Software support Import formats - Gerber D & X, Excellon, ODB++, DXF, HPGL



### DATA IMPORT

Various import formats: Gerber D & X, Excellon, ODB++, DXF, Sieb & Meyer, HPGL and more

### EDIT & ADD

Board editing and adding of shapes, draw your own geometries and tool-paths

### MIPEC's prototyping solutions have numerous advantages:

You will reduce fabrication of your PCB prototypes from weeks to just a few hours,

You are absolutely independent from external PCB suppliers,

Your flexibility will increase enormously,

You will reduce your time to market,

Your design stays inside the company for increased security

## Specifications:

Manufacturer:	MIPEC
Max. working Area:	250 x 200 x 30 mm
Tool Changer	Manual
Spindle:	software controlled brushless motor with pneumatic clamp, max. <b>70,000RPM</b>
Resolution:	1mm
Min. Trace Width	0.1 mm
Repeatability:	± 0.005 mm
Surface inspection and drill depth sensing	Yes Available
Tool-changer:	Manual
Tool-holder:	3.175mm/One by Eight
Milling depth adjustment:	µm precise depth adjustment
Drilling speed:	up to 125 strokes/min
Max Working speed:	50 mm/s
X/Y/Z drives:	hybride motors
Tool Length Protection and Auto Bit Protection	Yes available
Machine table:	flat milled aluminium table with central T-slot
Camera	Yes, A PCB inspection system will be provided
Dimensions:	W-420 x D-455 x H-435mm
Weight:	40kg
Power supply:	115/230V, 50-60Hz
Software:	TrackMaker
Dust Extractor	Software controlled dust extractor unit with auto on/off switching as per machine operations
Cabinet	Acoustic Cabinet for sound reduction and safety

## Deliverables:

4MILL300 Machine is delivered together with full license of TrackMaker software with USB based Dongle License and powerful set of tools consisting from:

<b>Tool Set:</b>	<b>CONSUMABLES FOR PCB MILLING:</b>
Universal cutter for 0.2 – 0.5mm paths 02pcs Micro cutter for 0.1 – 0.5mm paths 1pcs Contour router 2mm 1pcs End mill 1mm 1pcs	Copper plates FR4, format A5, 2 sided 05pcs Copper plates FR4, format A5, 1 sided 05pcs Drill underlay material, format A5 02pcs Metal Wool Cleaning pads 01pcs
Drill 0.6mm 1pcs	
Drill 0.8mm 1pcs	
Drill 1mm 1pcs	
Drill 1.5mm 1pcs	
Drill 3mm 1pcs	