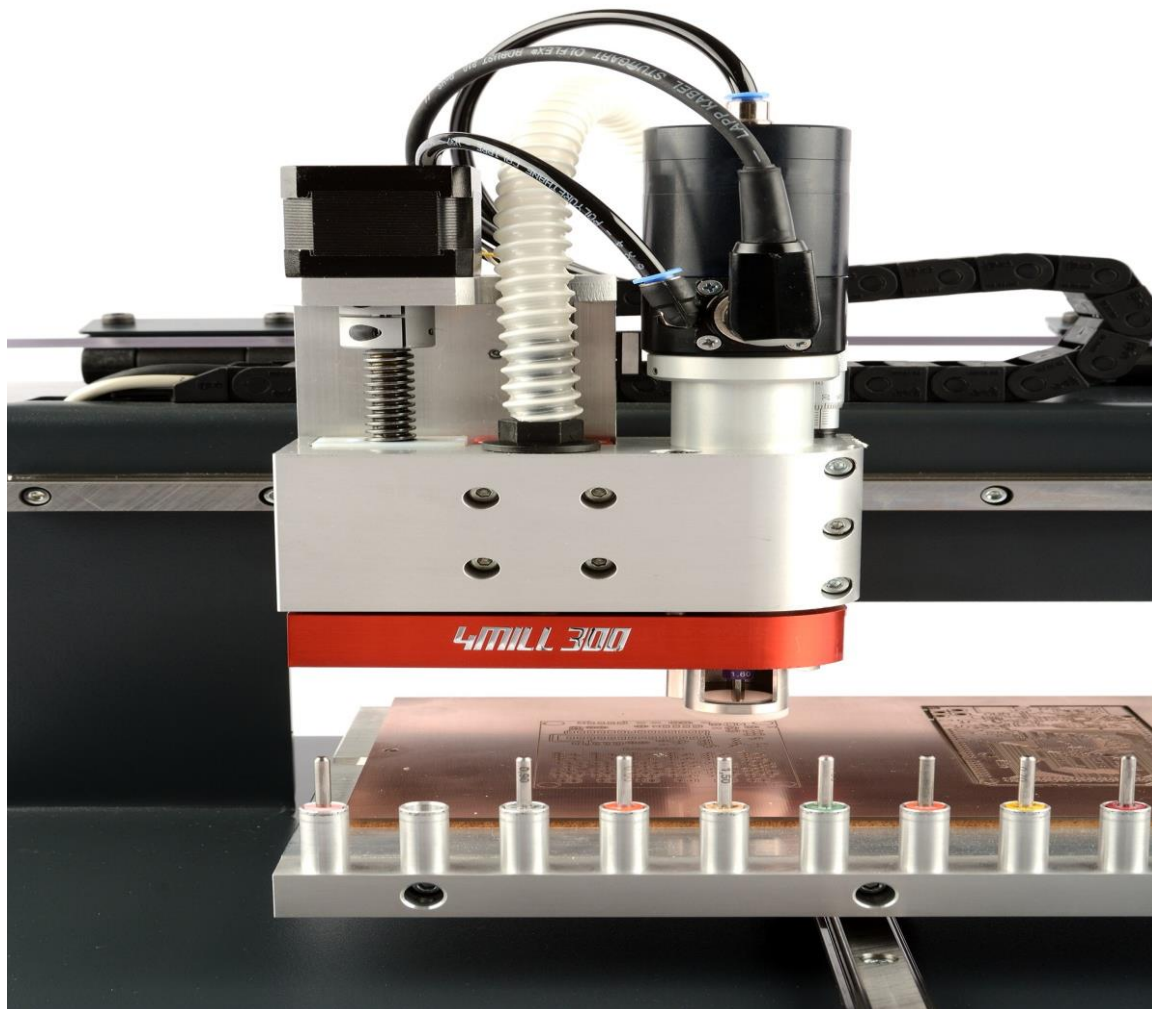


MIPEC 4MILL300ATC+

PCB and RF Antenna Design with automatic tool change

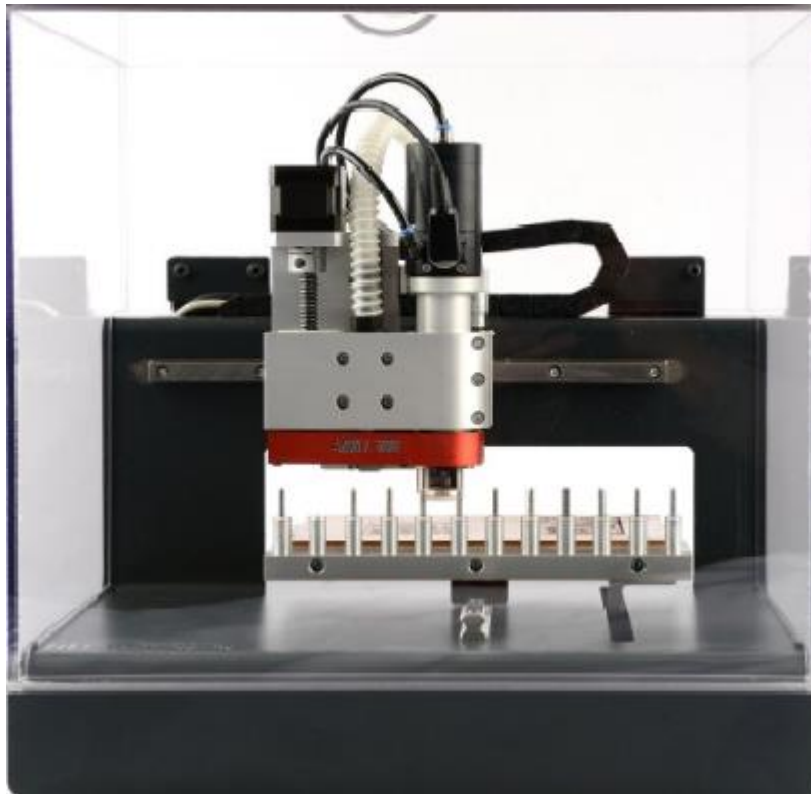


MIPEC can handle standard Single side and Double sided PCB designs, SMD, RF and various other applications.

4MILL300ATC+ with automatic tool change-12 Nos

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 4MILL300ATC+, 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 60K 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!

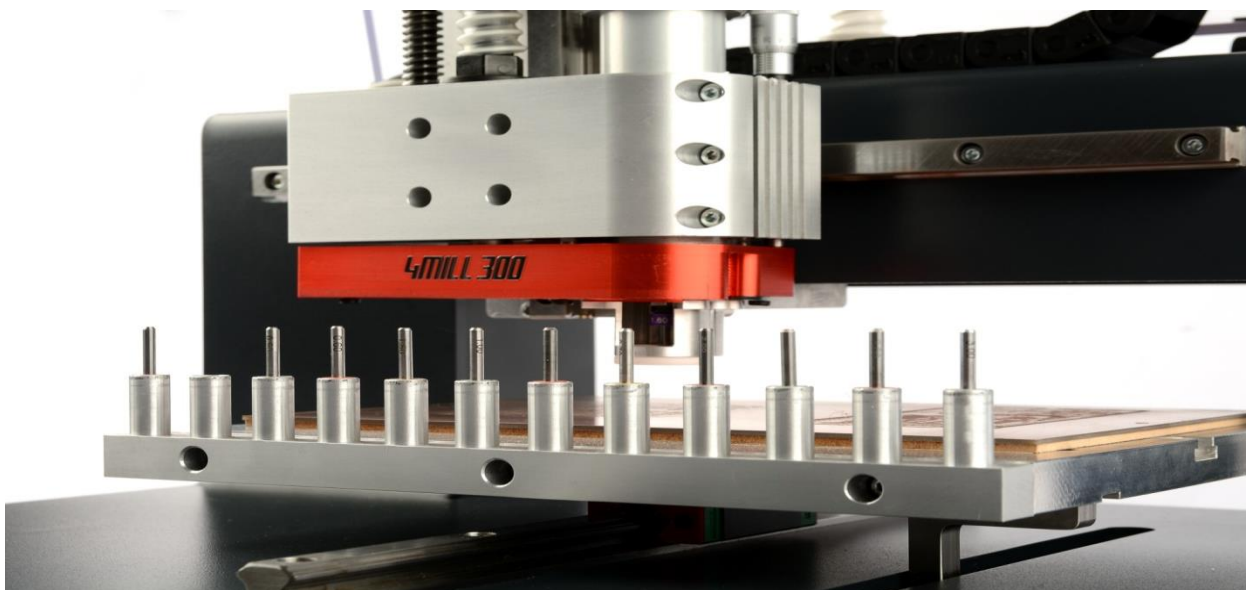


With a MIPEC PCB prototyping solutions, you can produce PCBs in your own lab – fast, environmentally friendly, and with high accuracy. It is no more necessary to wait days or weeks for your boards to be delivered from your external suppliers. With MIPEC prototyping method , you can proceed directly from 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.

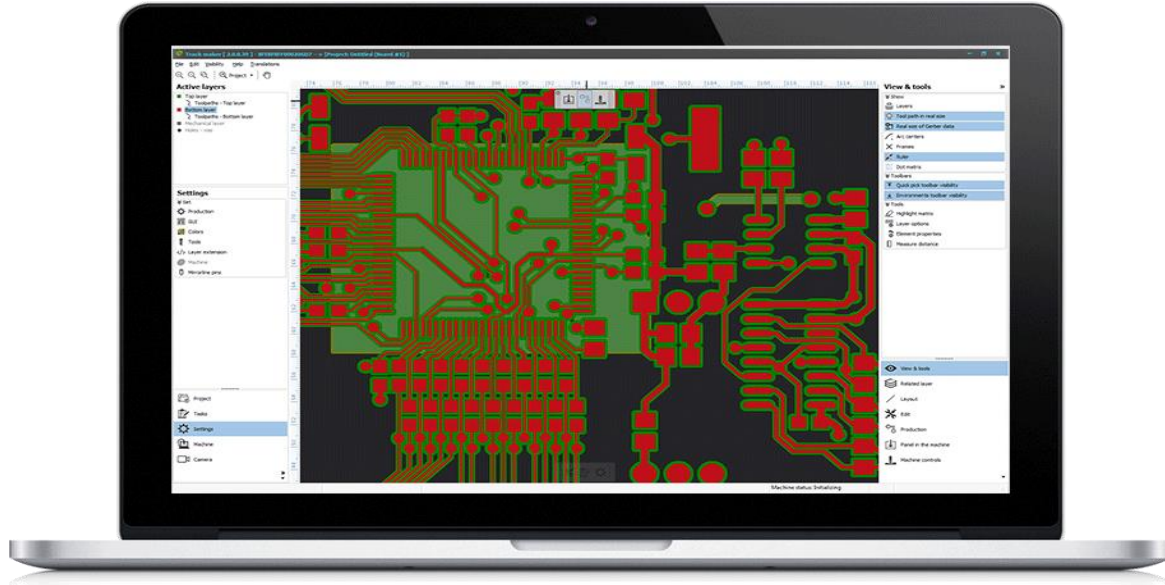


Automatic Tool Change 12 No's



TRACEMAKER:

TrackMaker is an integrated insulation and machine-control package dedicated for PCB milling. TrackMaker is running on Windows™ operating system.



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:

Model : 4MILL300ATC+	
(Single and double sided PCB Milling and drilling and RF Antenna Design System)	
Manufacturer:	MIPEC
Max. material size:	320 x 230 x 30mm
Milling spindle:	High Speed spindle 60000 RPM, software controlled brushless motor with pneumatic clamp,
Resolution:	0.5 μ m
Repeatability:	\pm 1.5 μ m
Tool-changer:	12 positions Automatic
Tool-holder:	1/8 Inch (3.175mm)
Milling depth adjustment:	μ m precise depth adjustment
Drilling speed:	up to 120 strokes/min
Travel speed X/Y:	60mm/s
X/Y/Z drives:	hybride motors
Minimum track size	0.1 mm (4 mil)
Minimum gap size	0.1 mm (4 mil)
Tool Length Detect & Surface Detect	Auto
Machine table:	flat milled aluminium table with central T-slot
Interface to PC	USB 2.0
OS compatibility	Windows based
Dimensions:	W-420 x D-455 x H-435mm
Weight:	42kg
Power supply:	110/230V, 50-60Hz
Software:	TrackMaker
Dust Extractor (Vaccum system)	Yes, Included
Vision System (Camera)	Yes, Included
Acoustic cabinet	Yes, Included
CPU with CAM Software	PC with preloaded TrackMaker Included
Imports	Gerber RS-274X files; Excellon Drill and Definition files; AutoCAD DXF 2D files
Air compressor for ATC	Included

Deliverables and accessories Included:

4MILL300ATC+ Machine is delivered together with full license of TrackMaker software and powerful set of tools consisting from:

Tool Set:	CONSUMABLES FOR PCB MILLING:
Universal cutter for 0.2 – 0.5mm paths 10pcs Contour router 1mm 2pcs Contour router 2mm 2pcs End mill 1mm 2pcs End mill 2mm 2pcs Drill 0.6mm 5pcs Drill 0.7mm 5pcs Drill 0.8mm 5pcs Drill 0.9mm 5pcs Drill 1mm 5pcs Drill 1.3mm 2pcs Drill 1.5mm 2pcs Drill 2mm 1pcs Drill 3mm 2pcs	Copper plates FR4, format A5, 2 sided 10pcs Copper plates FR4, format A5, 1 sided 10pcs Drill underlay material, format A5 10pcs Cleaning pads 10pcs Sticky tape 1pcs