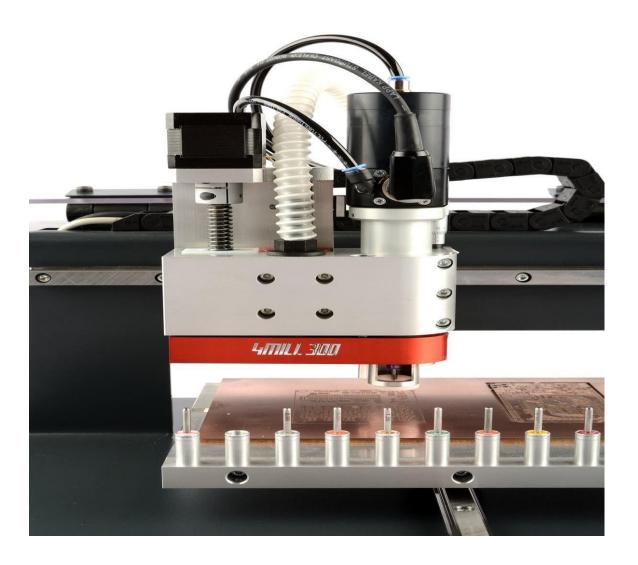


MIPEC 4MILL300ATC+

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.

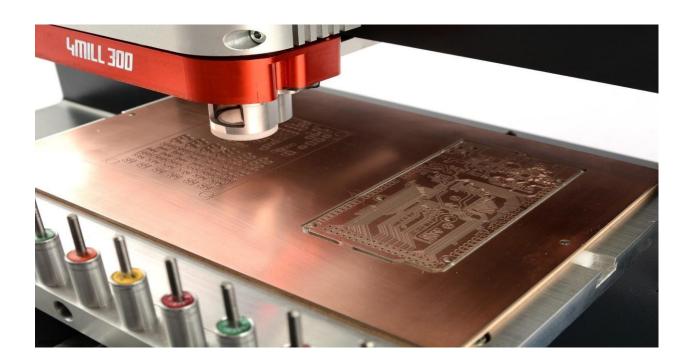
PCB milling machine 4MILL300ATC+, We proudly present our multipurpose machine with automatic tool change system for PCB prototyping, front panel making and 3D modeling. Make your double-sided PCB's in minutes using 4MILL. Thanks to its hi-precision lead screws and 60K HF spindle motor we can handle standard 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!



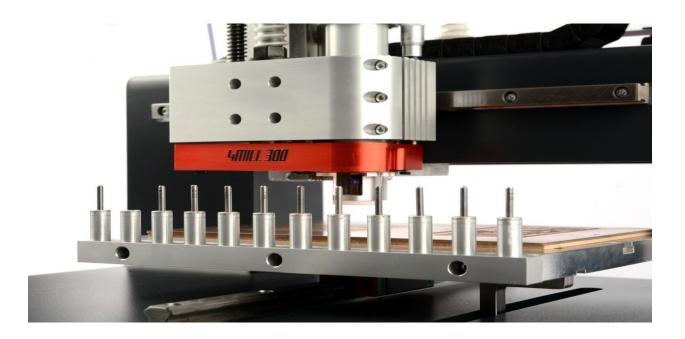
With a MIPEC PCB prototyping solutions, you can produce PCBs in your own lab – fast, environmentally friendly, and with high accuracy. It is no more necessary to wait days or weeks for your boards to be delivered from your external suppliers. With MIPEC prototyping method, you can proceed directly from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



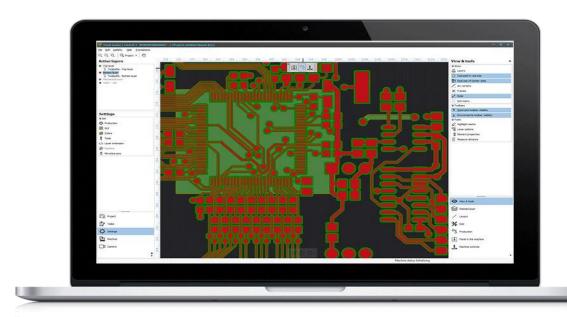
Automatic Tool Change 12 No's





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 enormly,

You will reduce your time to market,

Your design stays inside the company for increased security.



Specifications:

Single and double sided PCB Milling, drilling and Engraving RF Antenna Design System) Manufacturer: MIPEC Max. Working area: 240 x 180 x 30mm (Z) Milling spindle: High Speed spindle 70000 RPM, software controlled brushless motor Resolution: 1 μm Repeatability: ± 0.005 mm Tool-changer: 12 positions Automatic Tool-holder: 1/8 Inch (3.175mm) Milling depth adjustment: μm precise depth adjustment Drilling speed: 125 Drills/min Travel speed X/Y: 60mm/s Min Drill in mm 0.2 mm X/Y/Z drives: hybride motors Isolation & Track Width Upto 0.1mm (4 mil) Camera Yes (optional) Minimum track size 0.1 mm (4 mil) Minimum gap size 0.1 mm (4 mil) Tool Length Detect & Surface Detect Auto with floating head technology for surface irregularity detection Machine table: flat milled aluminium table with central T-slot
Max. Working area:240 x 180 x 30mm (Z)Milling spindle:High Speed spindle 70000 RPM, software controlled brushless motorResolution:1 μmRepeatability:± 0.005 mmTool-changer:12 positions AutomaticTool-holder:1/8 Inch (3.175mm)Milling depth adjustment:μm precise depth adjustmentDrilling speed:125 Drills/minTravel speed X/Y:60mm/sMin Drill in mm0.2 mmX/Y/Z drives:hybride motorsIsolation & Track WidthUpto 0.1mm (4 mil)CameraYes (optional)Minimum track size0.1 mm (4 mil)Minimum gap size0.1 mm (4 mil)Tool Length Detect & Surface DetectAuto with floating head technology for surface irregularity detection
Milling spindle: Resolution: Repeatability: Tool-changer: Tool-holder: Milling speed: Tool-holder: Milling speed: Tool-holder: Drilling speed: Travel speed X/Y: Min Drill in mm X/Y/Z drives: Isolation & Track Width Camera Minimum track size Minimum gap size Tool-holder: Drilling Speed spindle 70000 RPM, software controlled brushless motor 1 µm ± 0.005 mm 12 positions Automatic 1/8 Inch (3.175mm) Mm precise depth adjustment 125 Drills/min 60mm/s 60mm/s hybride motors Isolation & Track Width Upto 0.1mm (4 mil) Camera Yes (optional) Minimum gap size O.1 mm (4 mil) Auto with floating head technology for surface irregularity detection
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Milling depth adjustment:μm precise depth adjustmentDrilling speed:125 Drills/minTravel speed X/Y:60mm/sMin Drill in mm0.2 mmX/Y/Z drives:hybride motorsIsolation & Track WidthUpto 0.1mm (4 mil)CameraYes (optional)Minimum track size0.1 mm (4 mil)Minimum gap size0.1 mm (4 mil)Tool Length Detect & Surface DetectAuto with floating head technology for surface irregularity detection
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Tool Length Detect & Surface Detect Auto with floating head technology for surface irregularity detection
irregularity detection
Machine table: flat milled aluminium table with central T-slot
Interface to PC USB 2.0
OS compatibility Windows 10 and latest
Dimensions: W-420 x D-455 x H-435mm
Weight: 42kg
Power supply: 110/230V, 50-60Hz
Software: TrackMaker (A cam software which can import Gerber
D&X, Excellon, ODB++, DXF etc
Dust Extractor (Vaccum system) License Type: Perpetual USB Dongle based Yes Included with software controlled automatic on/off
Dust Extractor (Vaccum system) Yes Included with software controlled automatic on/off switching
Acoustic cabinet Yes, Included
Imports Gerber RS-274X files; Excellon Drill and Definition
files; AutoCAD DXF 2D files
Air compressor for ATC Included
Material Supported FR4, Copper Clad, Acrylic etc.



Software: 4MILL300ATC+ Machine is delivered together with USB dongle based license of TrackMaker software.

Add-on accessories consisting from:

Tool Set:	CONSUMABLES FOR PCB MILLING:
Universal cutter, Micro cutter, Contour router, End mill, Drill Bits	Copper plates FR4, format A5, 2 sided Copper plates FR4, format A5, 1 sided Drill underlay material, format A5 Cleaning pads Sticky tape