

ROBO MIPEC 4MILL600

PCB and RF Antenna Design with Manual Tool Change



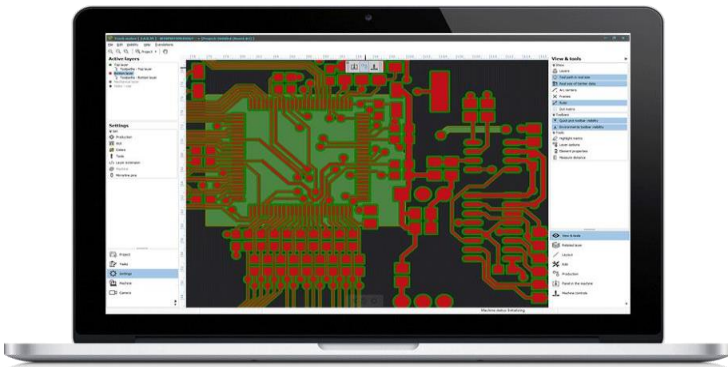
ROBO MIPEC can handle standard Single side and Double sided PCB designs, SMD, RF and various other applications. It supports various materials like FR4, Copper Clad, Acrylic etc.

PCB milling machine 4MILL600, 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? 4MILL600 is the machine for you

TRACEMAKER:

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.

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 Trackmaker can generate toolpath for machine and offers additional functions like editing, converting and manipulating data imported from other Cad packages

ROBO 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.

Software : 4MILL600 Machine is delivered together with USB dongle based license of TrackMaker software.

Technical Specifications

Model : 4MILL600	
(Single and double sided PCB Milling, drilling and Engraving RF Antenna Design System)	
Manufacturer:	MIPEC
Max. Working area:	385 x 500 x 40mm (Z)
Max. PCB Size	297 x 420 mm
Milling spindle:	High Speed spindle 70000 RPM/170W software controlled brushless motor with pneumatic clamp
Spindle Run Out	5 μ m
Resolution:	0.1 μ m
Repeatability:	1 μ m
Tool-changer:	Semi-Automatic (Manual)
Tool-holder:	1/8 Inch (3.175mm)
Collet Control	With knob on the spindle top
Milling depth adjustment:	μ m precise depth adjustment
Drilling speed:	180 Drills/min
Travel speed X/Y:	150mm/s
Machine Table:	Flat milled aluminium table with center T-Slot
X/Y/Z positioning system:	2 phase bipolar stepper motors, precision lead screws with anti-backlash nuts Precise floating head technology on the Z axis 1 μ m
Isolation & Track Width	Upto 0.1mm (4 mil)
Z Depth Regulation:	Micrometer depth regulation to fabricate antenna
Minimum track size	0.1 mm (4 mil)
Minimum drill diameter	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
Interface to PC	USB
OS compatibility	Windows 10 and latest
Dimensions:	W575 x D780 x H430
Weight:	32 kg
Power supply:	110/230V, 50-60Hz
Software:	TrackMaker integrated software for machine control and cam operation it can import Gerber D&X, Excellon, ODB++, DXF etc License Type: Perpetual USB Dongle based
Camera	PCB Inspection camera System
Dust Extractor (Vaccum system)	Yes Included with software controlled automatic on/off switching with spindle motor
Imports	Gerber D & X, Excellon, ODB++, DXF, HPGL and more
Air compressor for ATC	Yes Included
Applications	Antenna Prototyping, Rapid Prototyping, Teaching, Student Project, PCB Engraving/Milling, model making, Technology Research and more