MINE®
You Think, We will make it.

3Axis Proto Typing Milling System

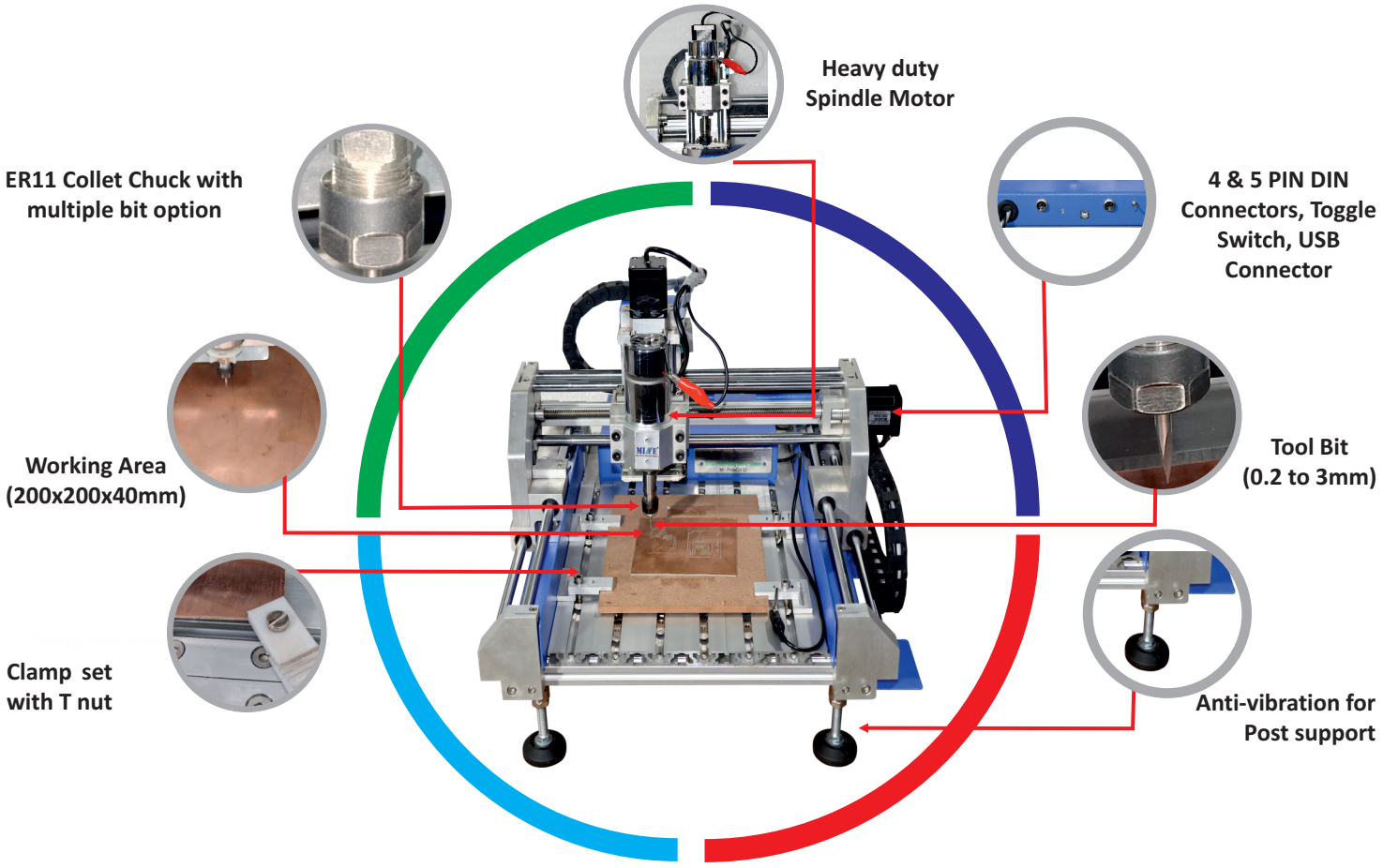
MI-ProtoCut 02

Mine Instruments Pvt. Ltd.

An ISO 9001:2015 Certified Company

www.mineinstruments.com

About



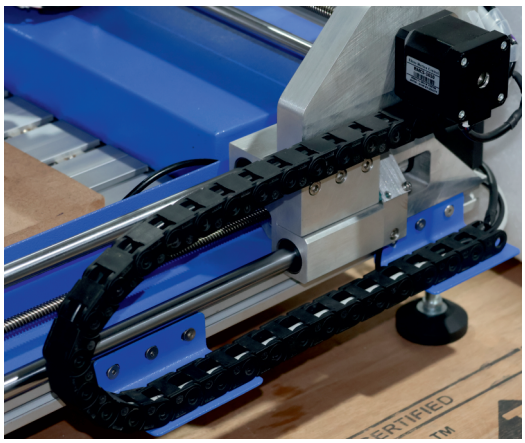
The Mine MI-ProtoCut02 3Axis Proto Typing Milling System is a highly precise & durable machine crafted entirely from aluminum alloy, ensuring robust performance without any plastic components. The system uses a lead screw transmission for accurate movement. It efficiently handles cutting, engraving, & drilling tasks across materials such as wood, PCBs, plastics, & light metals like copper & brass. Additionally, it can engrave on metals like silver & aluminum, making it a versatile tool for detailed prototyping & fabrication projects.

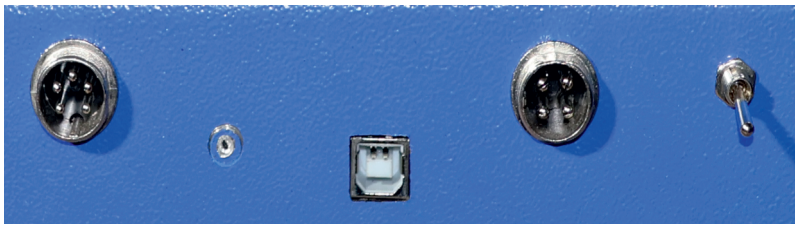
Advantages

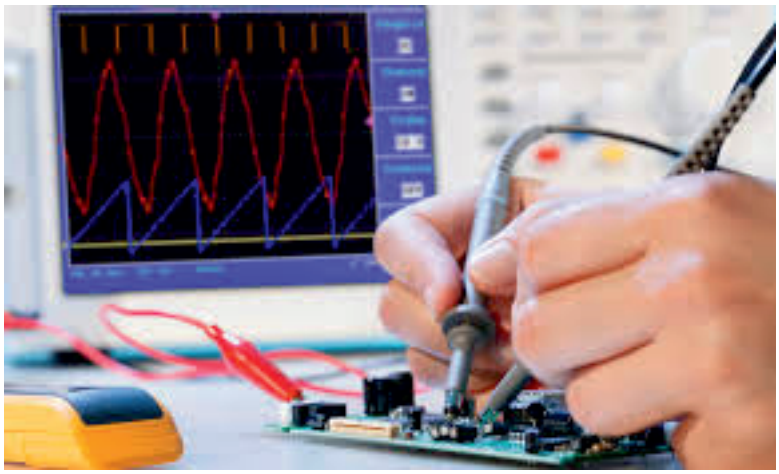
- PCB milling is beneficial for PCB prototyping & making special PCB designs.
- PCB milling is much safer than chemical etching process.
- It is provide highly accurate result with good reliability
- User-Friendly
- Secure & Safe

Features

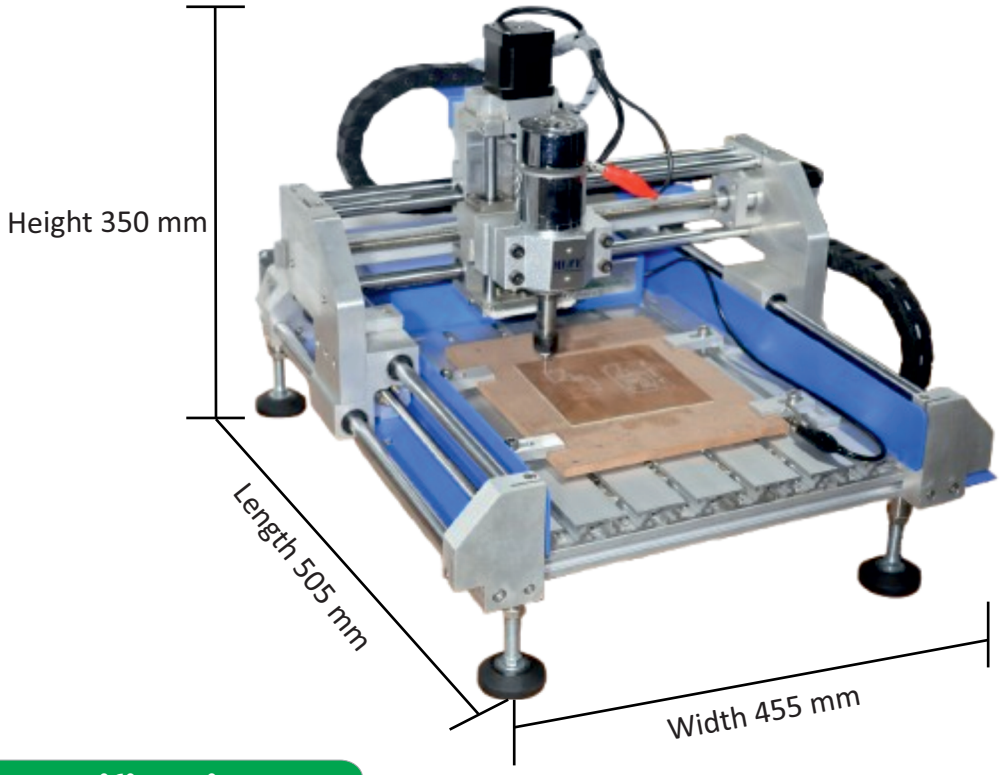
- Versatile PCB prototyping with engraving
- Micro drilling & milling
- Create object for on acrylic & wood
- PC-based software with interactive GUI
- USB interface
- Software support extended gerber files from all CAD software
- Works with PCB, acrylic, plastic & even soft metals like aluminum
- Auto depth adjustment
- High RPM Spindle Motor
- Fast operation
- Energy efficient
- LED Light for work area
- Robust design
- Simple & easy to operate
- Chemical free operation







PCB Machine Dimensions



Technical Specifications

Working Area (X*Y*Z)	:	200*200*40 mm (Approx)
Minimum drill hole size	:	0.2mm
Track Width	:	0.2mm
X/Y Resolution	:	0.06mm
Operating Voltage	:	230V AC, 50Hz
Software supporting Operating System	:	Windows 7/8/10 & Linux
Z-axis Stroke	:	40mm maximum, Engraving depth depends on the length of the tool edg.
Transmission Unit	:	Lead Screw
Theoretical Resolution	:	0.002mm per step
Depth sensing and adjustment	:	Automatic, software controlled
Tool change	:	Manual
Tool holder	:	1/8 inch & Er11 Collet
Main application	:	Engraving, Cutting & Drilling for PCB, wood, plastics, acrylic & Metals (copper, aluminum, brass & silver etc.)

Spindle Motor

Spindle Speed (Max RPM)	:	10,000 RPM
Spindle Motor	:	300W
Spindle Control	:	Manual & Automatic

Mechanical Specifications

Machine Dimensions (W*D*H)	:	(W 455 × D 505 × H 350) mm Approx.
Machine Construction material	:	6061 & 6063 hard aluminum alloy for better mechanical stability
Maximum job height	:	<= 40mm
Transmission unit	:	Lead Screw
Repeat positioning Accuracy	:	0.1mm - 0.2mm
Machine weight	:	30kg-40kg (Approx)

PCB Machine Controller

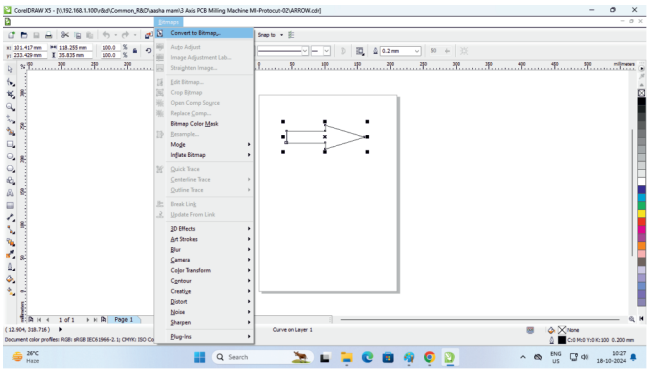
1. Front side of PCB Machine Controller

2. Dimensions

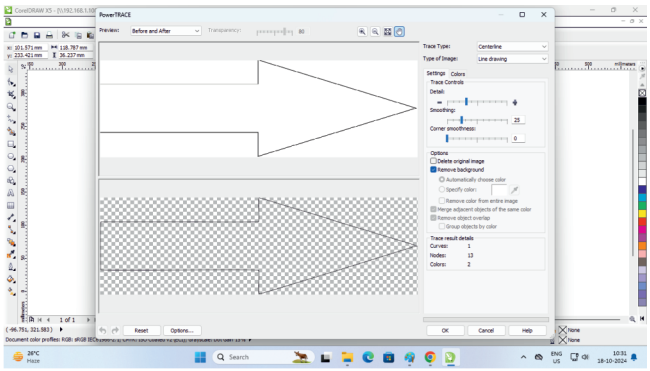
Length	:	345mm
Width	:	305mm
Height	:	120mm

3. Back side of PCB Machine Controller

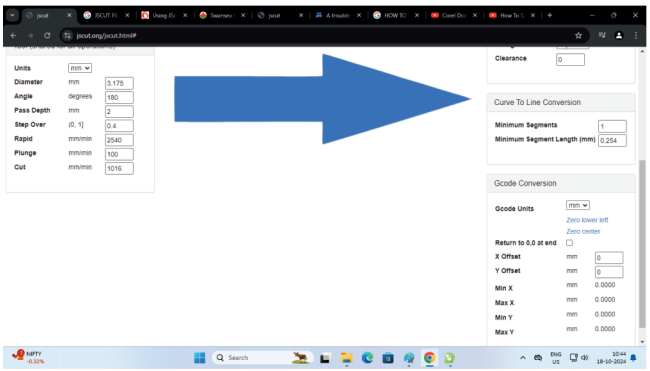
Software Window



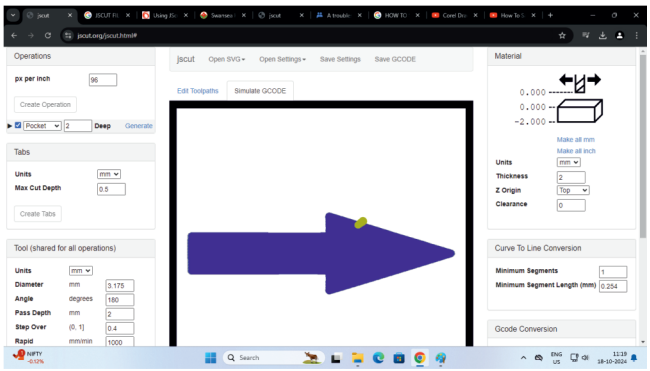
Arrow generate by coreldraw



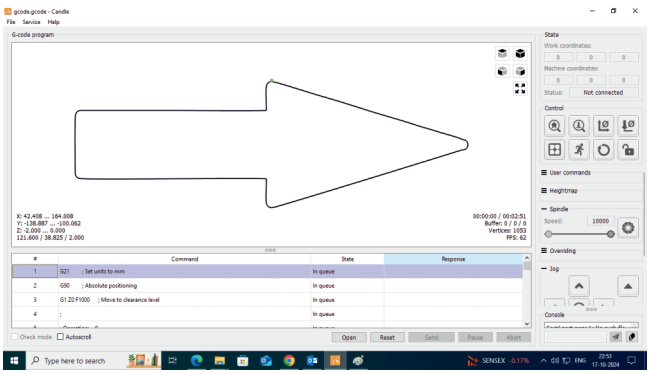
Save file in SVG



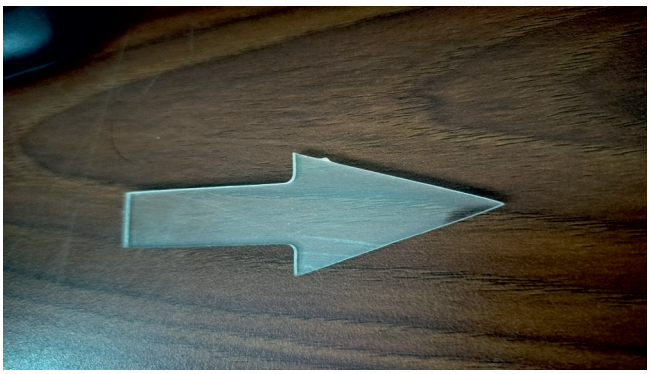
Import arrow in JS cut



Save Gcode file



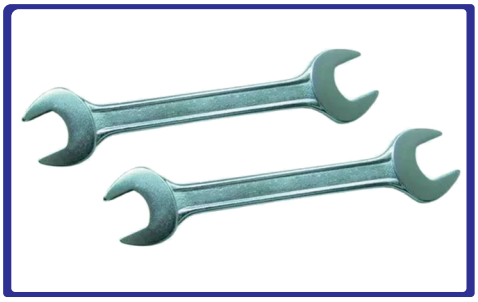
Operation in Candle



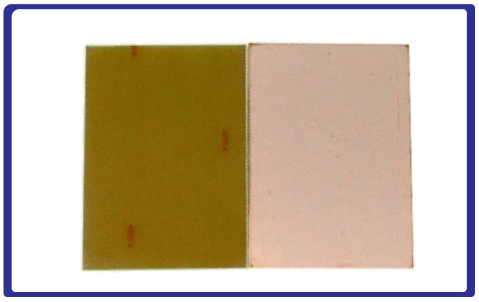
Final Object

Accessories

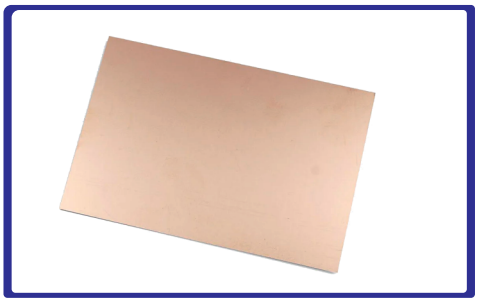
Drill Bits-10nos.



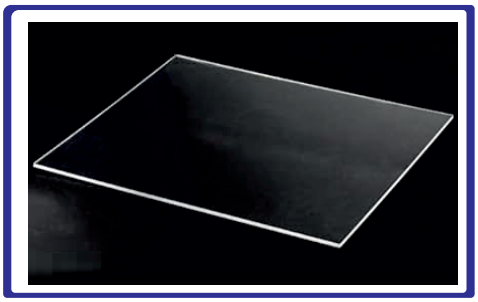
Wrenches-2nos.



Single Side PCB - 8nos.



Double Side PCB - 5nos.



Acrylic Plate 3mm x 3

Vacuum cleaner - 01nos.

USB Cable

Tool bits - Router Bits - 2nos.

Engrave/Milling bits (0.2mm) - 10 nos.

Power cable

Operating Manual

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