

Upto 75%
Made in India Parts

**PCB
Drill / Route
CNC Machine**



40,000 RPM



High Speed Spindle

Spindles from Indus Spindles, India rated for high speed operations - Process PCB Boards all day long.



Innovative Materials

World's first Composite Superstructure CNC with Lifetime Warranty on the material. No Sagging, hogging, rust or corrosion



Manual Tool Change

High Speed, manual tool change spindle allows you to run batch operations and reduced your overall cost of ownership

**Call / WhatsApp /
Telegram**

+91 90190 54837



Our Location

Bangalore,
Karnataka
India



Technical Specifications

Machine Type	3 Axis
Working Area X x Y	500 x 400 MM
Z Axis Travel	100 MM (Customizable)
Footprint - Machine	900 x 900 MM
Footprint - Control Box	610 x 450 MM
Chassis	Carbon Fiber / Fiber Glass Superstructure - Mounted on Mild Steel Base - Open Type
Controller Type	Arduino Controller - Machine can be operated through a USB connection with any Windows Laptop/Desktop with Windows 10 or 11. PC Optimization Settings and the following Open source Software will be provided as links to download and install. 1 - Converts Excellon & Gerber to GCODE. 2 - Runs the machine as per the GCODE
Max Travel Speed (X, Y & Z)	5 Meters / Minute
Spindle - Country of Origin	India
Spindle - Power	1 KW
Spindle - MAX RPM	40,000
Spindle - Tool Change type	MTC - Manual Tool Change
Spindle - Collet	ER11
Spindle Maximum Run-out (Certified)	<20 Microns
Spindle Type	Water Cooled - Chiller and Recirculation system
Dill Holes Per Minute - Stepper	Between 30-40 - Depends on Spindle retract height & Movement between each hole.
Dill Holes Per Minute - Servo - Upgrade Required	Between 80-100 - Depends on spindle retract height and movement between each hole.
Applications	High power PCB, Analog PCB, Digital PCB
Drive - All Axis	Hiwin/THK/Other Rolled Ball Screw - 16 MM
Guides - All Axis	Hiwin/THK/Other 20 MM Linear Guide & Block

Drive Motors	NEMA 34 - Stepper Motor (Made in Japan)
Certified Repeat Positioning Accuracy	<50 Microns
Tested Repeat Positioning Accuracy	Between 15-25 Microns / 0.015 to 0.025 MM
Spindle Control	Automatic VFD Control through GCODE/MCODE
Stock / Material Fixturing Support	Aluminium Extruded T Slot Stock Mounting Profiles
Movement	Simultaneous 3 Axis Motion – Full Interpolation
Machine Movement Type	Moving Bed / Fixed Gantry System
Ship Configuration	Ships Fully Assembled with selected accessories
Warranty	1 Year Warranty – All Parts Covered
Extended Warranty	Optional - Up to 10 Additional Years. Available in increments of 1/2/3/4/5 Years
Maintenance Contracts	Optional - Up to 10 Additional Years. Available in increments of 1/2/3/4/5 Years
Superstructure Warranty	Lifetime Warranty on all composite parts installed on the machines. Warranty applicable under normal operating conditions.
Certification	ISO 9001 & CE Certified
CAM Support	Fully compliant with GCODE / MCODE (GRBL) - Solidworks, Catia, Fusion etc.
Tool Sensor	Non-Touch Bit Height Adjustment Sensor
Materials Supported	PCB (all types)
Calibrated By	All of our measurements are made with Mitutoyo calibrated instruments
Power Input	Single Phase Input – 220V / 110V
Current Requirement	16 Amp Plug Point Required

Bellow Implementation	Optional
Minimum Track Width	0.100 MM
Number of Layers Supported	Single / Dual Layer PCB
File Formats Supported	Excellon / GERBER / GCODE
Control PC	Optional - Laptop or Desktop with Monitor, Keyboard & Mouse - Original Windows 10/11
Software Provided	FlatCAM (Convert Excellon/Gerber to GCODE) & Gsender/UGS (Machine Control)
Spindle Cooling System	Water Cooled Spindle with Chiller and Recirculation System
Top Cover / Enclosure	Optional

ZERO Chinese Parts



PCBMaker 5040 40K
3 AXIS PCB CNC

Highlights



HIWIN / THK
16MM BALL SCREW
20 MM LINEAR GUIDES

X & Y AXES
NEMA 24 STEPPERS
MADE IN INDIA

40,000 RPM SPINDLE
INDUS SPINDLES,
INDIA

SINGLE PHASE INPUT
REQUIRED



MACHINE CONTROL
BOX

CONTACTLESS
TOOL HEIGHT
SENSOR

EXTRUDED
ALUMINIUM
TSLOT PROFILES

ALL MADE IN INDIA

COMPONENTS - DRIVERS, POWER
SUPPLY, VFD, SWITCHES, FAN,
ETC.

PIONEERING COMPOSITE
SUPERSTRUCTURE WITH
LIFETIME WARRANTY

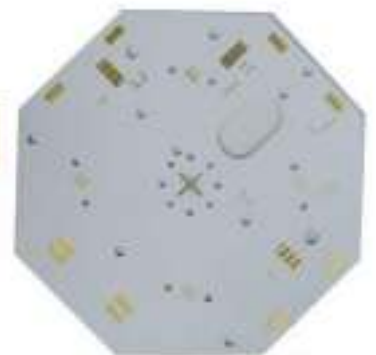
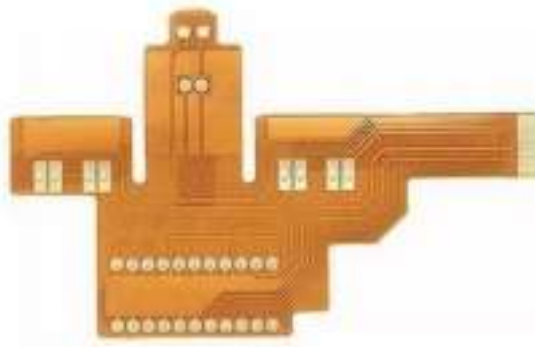
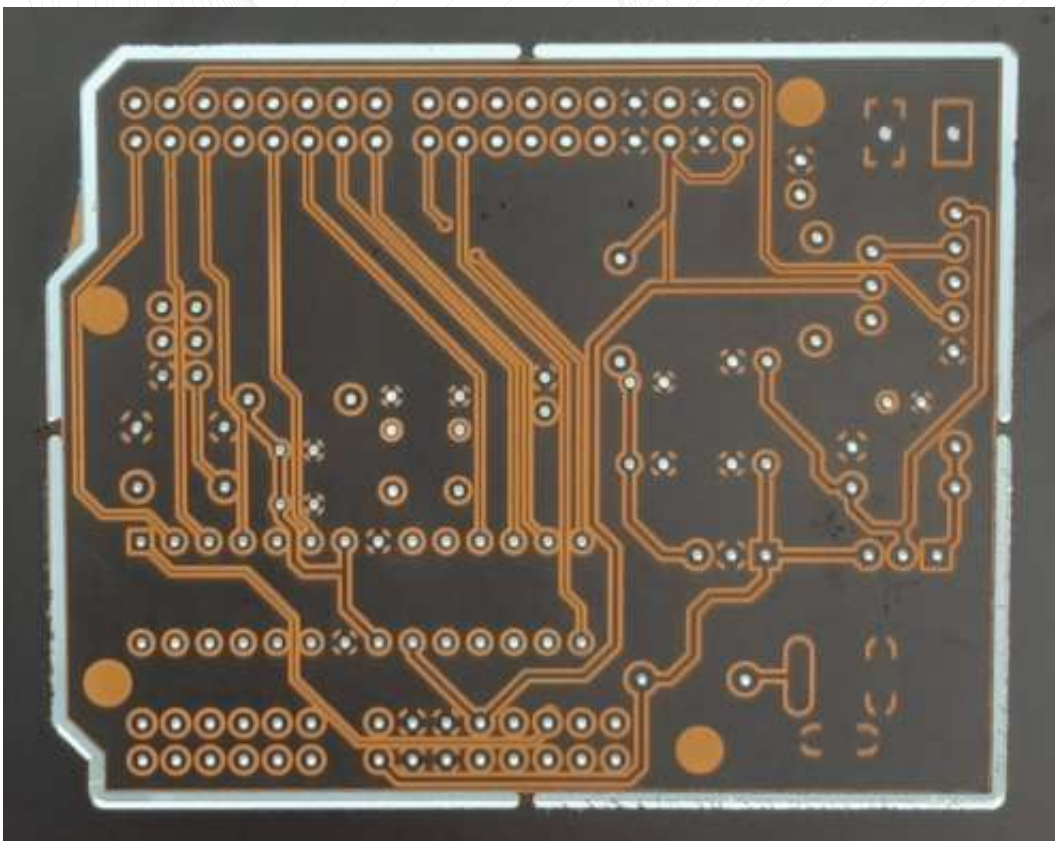
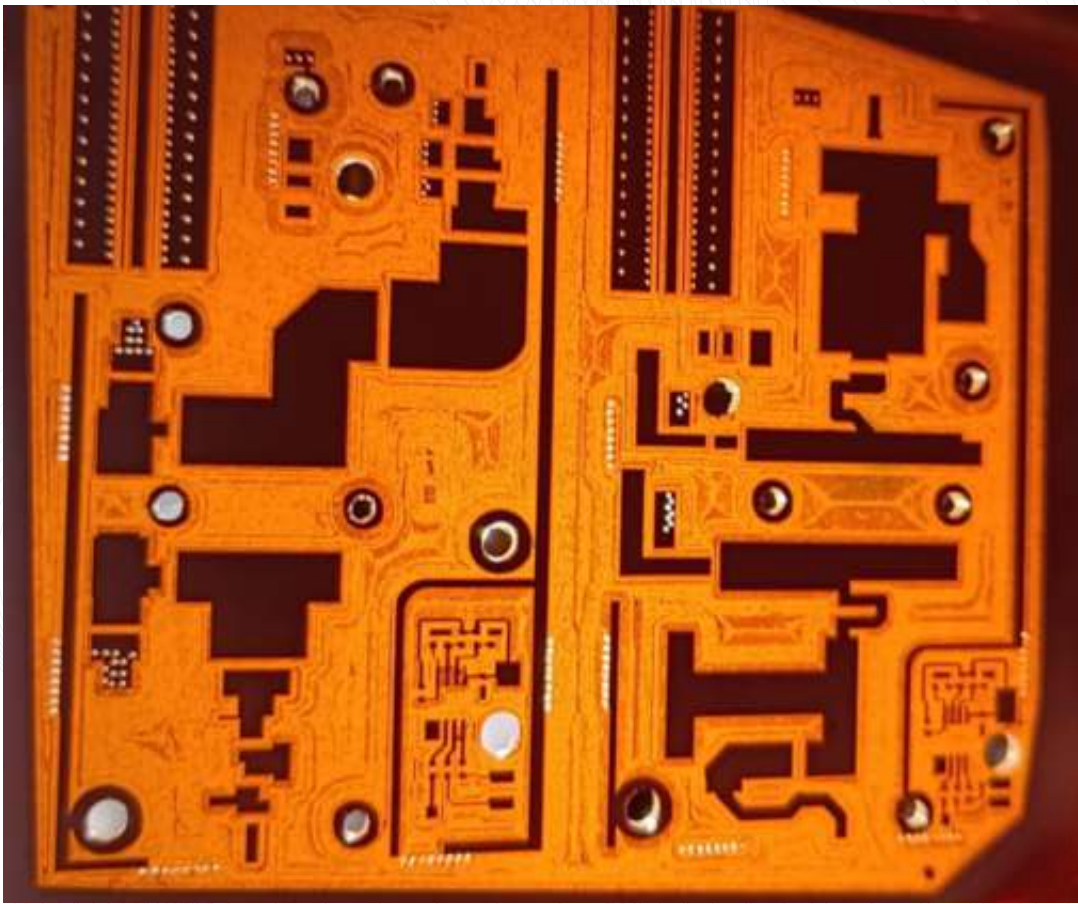
USE YOUR LAPTOP/PC

REQUIRES A USB 2.0 PORT &
OPEN SOURCE SOFTWARES

OTHER CONTROLLERS ALSO AVAILABLE

BUILT ON A TATA STEEL
MILD STEEL BED.
INCLUDES A CHILLER FOR
SPINDLE COOLING

OTHER CONTROLLER OPTIONS ALSO AVAILABLE



ACCESSORIES INCLUDED WITH THE MACHINE

Cutting Bits

PCB Drilling Bits - Collection

- Drill Dia 0.3MM to 1.2 MM
- Shaft Dia - 3.175 MM

PCB Engraving Bits - 2 Pcs

- 0.1 MM Tip
- Shaft Dia - 4 MM
- Angle - 30 Degrees

Endmill - Routing Operations

- 1 x 2 MM Dia Flat End Corn EndMill

Collets for Spindle

ER 16 Collet (Based on Spindle) - 3 PCS

---3MM Dia

---4MM Dia

---6MM Dia

Others

-- T Nuts (For Securing the Material) - 10 Pcs

-- Spanner Compatible with spindle Nut

-- Connector Cable - 1 Piece

-- Stock Mounting Bolts & Nuts - 8 Pcs

-- Composite Stock Holders - 4 Pcs

- Machine is shipped fully built in a plug & play condition
- Installation is not required - If requested additional costs will apply
- If shipped with a control pc, it is shipped fully configured in plug & play condition

SERVOS



ClearPath®
INTEGRATED SERVO MOTORS

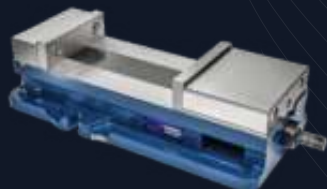


Made in USA | Comprehensive 3 Years Warranty

ENCLOSURES



CLAMPING



**OPTIONS,
UPGRADES &
ACCESSORIES**

OTHER ACCESSORIES



Probes

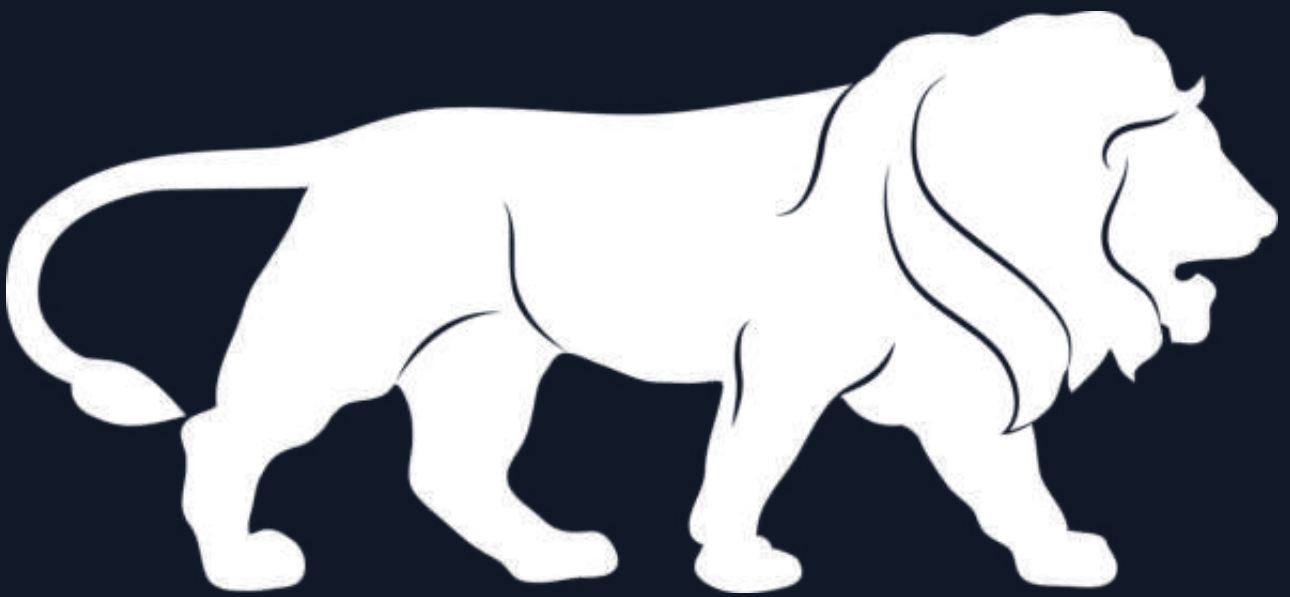


Flood Cooling



Bellows

PROUDLY
MADE IN INDIA



ENGINEER BEAUTIFUL