

Upto 80%
Made in India Parts



PCB Prototyping



High Speed Spindle

Spindles from Teknomotor, Italy rated for Continuous Operations - Suitable for soft materials like plastics, acrylic, wood, mdf etc.



Innovative Materials

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



Rated for 24/7 Ops

Run long operations with confidence. High quality Spindles, Steppers and Electronics enable high productivity.

Call / WhatsApp /
Telegram

+91 90190 54837



Our Location

Bangalore,
Karnataka
India



Technical Specifications

Machine Type	3 Axis
Working Area X x Y	400 x 300 MM
Z Axis Travel	100 MM (Customizable)
Footprint - Machine	750 x 750 MM
Footprint - Control Box	610 x 450 MM
Chassis - Composite Superstructure	Carbon Fiber / Fiber Glass Superstructure - Desktop/Tabletop
Controller Type	Arduino Controller <ul style="list-style-type: none">Machine can be operated through a USB connection with any Windows Laptop/Desktop with Windows 10 or 11.PC Optimization Settings and Open source Software (GSender / UGS) will be provided as links to download and install.
Max Travel Speed (X, Y & Z)	4 Meters / Minute
Spindle - Country of Origin	Teknomotor, Italy
Spindle - Power	0.73 KW / 1 HP
Spindle - MAX RPM	24,000
Spindle - Tool Change type	MTC - Manual Tool Change
Spindle - Collet	ER20
Spindle Maximum Run-out (Certified)	<20 Microns
Spindle Maximum Run-out (Tested)	<10 Microns
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 24 & 23 - Stepper Motor (Made in India)
Certified Repeat Positioning Accuracy	<50 Microns
Tested Repeat Positioning Accuracy	Between 15-25 Microns / 0.015 to 0.025 MM
Spindle Control	Manual Spindle Control - VFD
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
Continuous Operations Capable	Yes, Certified for 24/7 Operations
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	Z-Axis Touch / Non-Touch Sensor - Optional for Purchase
Materials Supported	PCB (all types), ABS, Polycarbonate, Acrylic, carbon fiber, fiber glass, aramid, Wood, MDF, Epoxy, Graphite
Calibrated By	All of our measurements are made with Mitutoyo calibrated instruments
Diode Laser Compatibility	Yes - With Arduino Controller option Only
Power Input	Single Phase Input – 220V / 110V

Current Requirement	16 Amp Plug Point Required
Bellow Implementation	Optional
Minimum Track Width	0.100 MM
Fully Transparent Enclosure	Optional
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)
Cooling System	Air Cooled Spindle

ZERO Chinese Parts



PCBProto 4030
3 AXIS CNC

Highlights

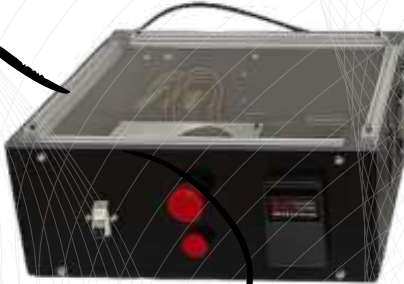


HIWIN / THK
16MM BALL SCREW
20 MM LINEAR GUIDES

NEMA 23 & 24
STEPPERS
MADE IN INDIA

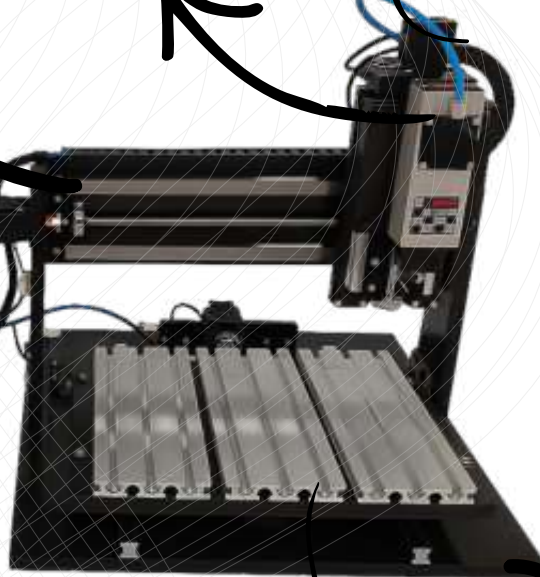
24,000 RPM
1HP SPINDLE
TEKNOMOTOR, ITALY

SINGLE PHASE INPUT
ONLY



MACHINE CONTROL
BOX

ALL MADE IN INDIA
COMPONENTS - DRIVERS, POWER
SUPPLY, VFD, SWITCHES, FAN,
ETC.



EXTRUDED
ALUMINIUM
TSLOT
PROFILES

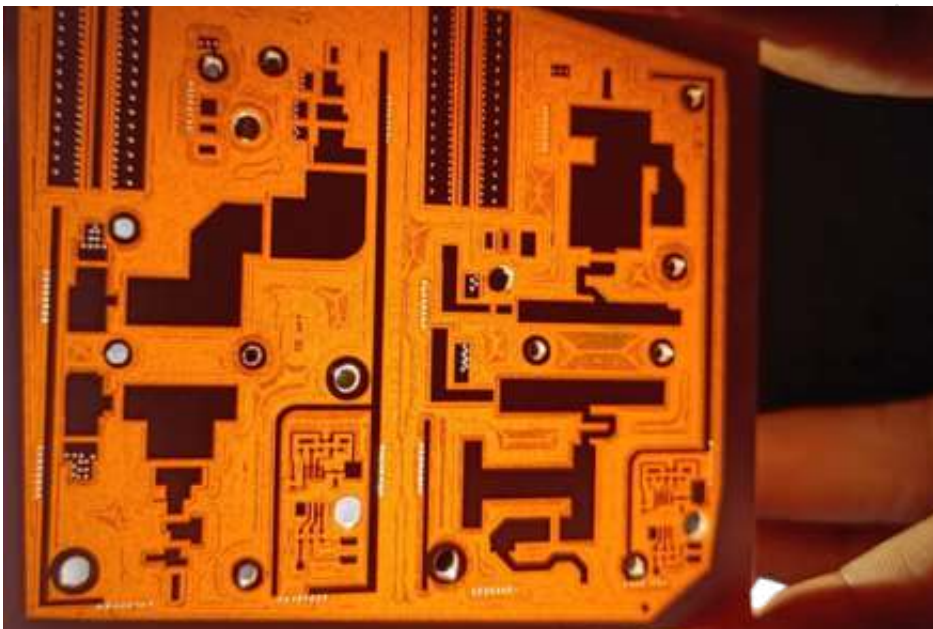
USE YOUR LAPTOP/PC

REQUIRES A USB 2.0 PORT &
OPEN SOURCE SOFTWARES

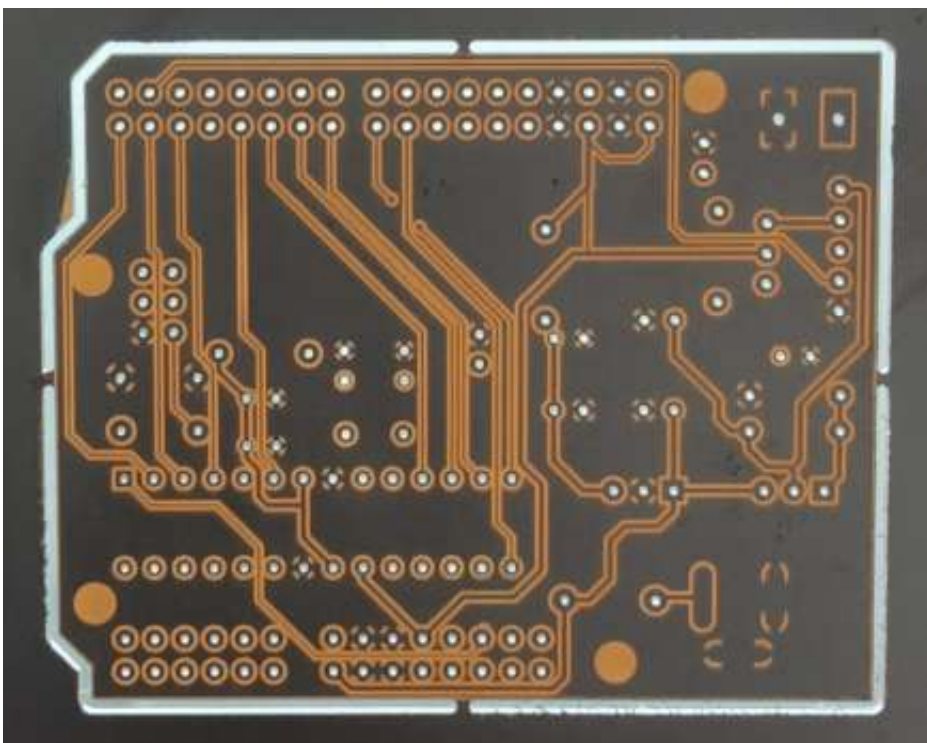
OTHER CONTROLLERS ALSO
AVAILABLE

PIONEERING COMPOSITE
SUPERSTRUCTURE WITH
LIFETIME WARRANTY

OTHER CONTROLLER OPTIONS ALSO AVAILABLE



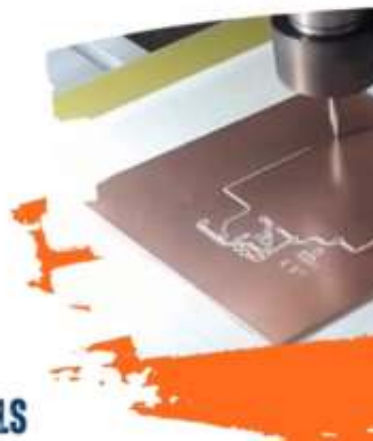
[Video 1](#)



[Video 2](#)

HOW TO MAKE
DOUBLE SIDED
PCB'S

AKRIT
PRECISION SYSTEM



#TUTORIALS

[Tutorial Video -
PCB Making](#)

ACCESSORIES INCLUDED WITH THE MACHINE

Cutting Bits

PCB Drilling Bits - Collection - 10 Pcs

- 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 Pcs

- 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

LASERS

Make Your Machine 2-in-1 Laser & Spindle



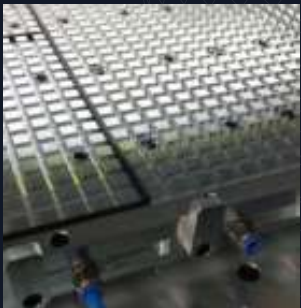
*with Arduino Controller Only

CLAMPING



**OPTIONS,
UPGRADES &
ACCESSORIES**

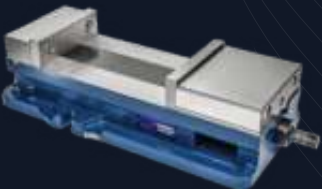
OTHER ACCESSORIES



Probes



Mist / Flood Cooling



Bellows

SPINDLE OPTIONS



Rectangular - Air Cooled
Runout - ~10 Microns
Single Bearing
18000 RPM
1.1 KW
ER 20
MTC

Teknomotor, Made in Italy



Rectangular - Air Cooled
Runout - ~10 Microns
Double Bearing
18000 RPM
1.1 KW
ER 20
MTC

Teknomotor, Made in Italy

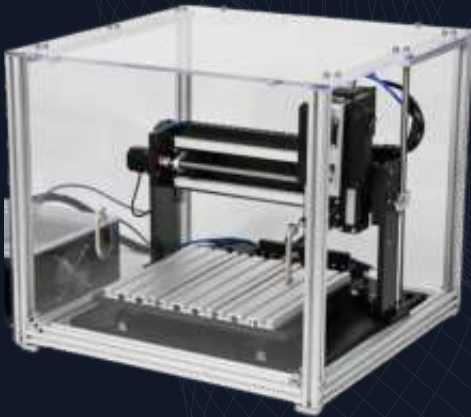
INDUS SPINDLES



Round - Air / Water Cooled
Runout - <20 Microns *
40,000 RPM
ER 11
1 KW
MTC / QTC
Indus, Made in India

& OTHERS

ENCLOSURES



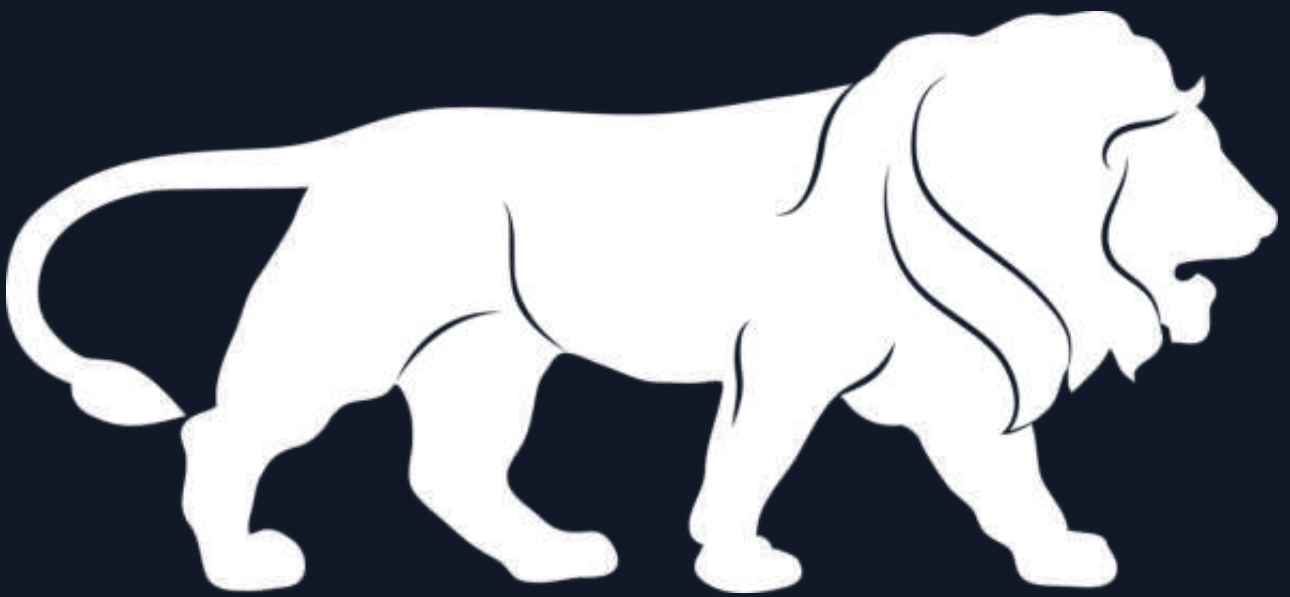
**OPTIONS,
UPGRADES &
ACCESSORIES**

SERVOS



Made in USA | Comprehensive 3 Years Warranty

PROUDLY
MADE IN INDIA



ENGINEER BEAUTIFUL