

3V TECHNIX 

**The Most Advanced and Precise
PCB Prototyping Machines**

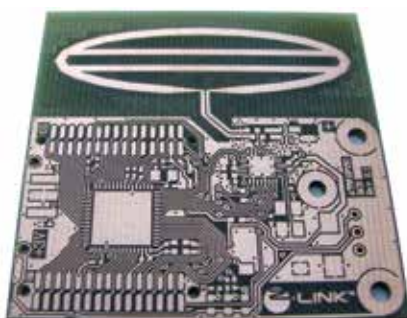
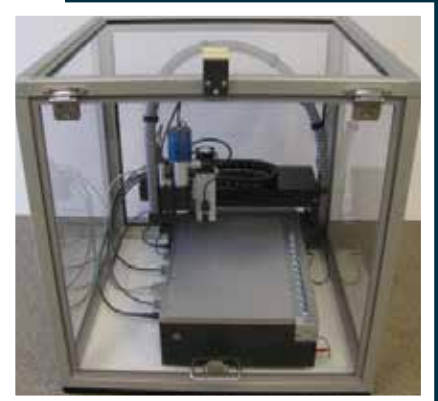
Features

Automatic or manual (semiautomatic) tool change | Precise depth penetration control, fully programmable | High precision positioning system with servo motors and pre-calibrated screw-motor assemblies | Temperature compensation for the axes and material | Automatic fiducial registration and video inspection | High speed 62K / 100K rpm spindle | Spindle drive with vector control, ensuring high performance and high torque at any speed | Simple, fast, smart, stable and easy-to-use software. The best gerber interpreter on the market! | Peck mode (automatic incremental multipass machining) | Vacuum table option | Acoustic cabinet option | Processing of oversized projects along X axis.



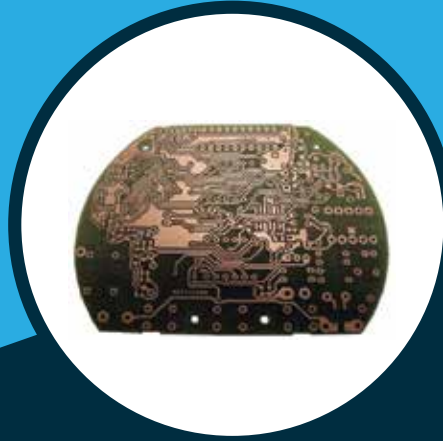
Unique Features

- Calibrated positioning screws models with servo motors
- Thermal expansion compensation for positioning system and material under machining
- Internal drives resolution of 0.1 μ m
- Closed loop servo system on Z axis for all models that assures tool penetration resolution of 1 μ m during the machining process
- Absolutely fault free pneumatic tool change system
- Real time IR tool sensing prevents all logistics errors in tools handling
- Option/upgrade for soldering paste dispensing unit



Applications

- ▶ Drilling, milling and engraving of single & double sided PCBs
- ▶ Drilling, milling and engraving of flexible & rigid-flex PCBs
- ▶ Drilling, milling and engraving of RF & microwave substrates
- ▶ Contour routing of PCBs
- ▶ Engraving front panels
- ▶ Machining cut outs in front panels
- ▶ Milling SMT soldering paste stencils
- ▶ Inspection templates
- ▶ Antennas



COMPARISON OF ALL MODELS

Model	Table Size	Work envelope XYZ	Tool change	Tool Calibration	Positioning system	Spindle speed [rpm]	Tool holders
<u>A737R</u>	Extra Large	23.0x15.0x1.3 inch 584x381x33 mm	Automatic	Automatic	Servo control	100,000	23
<u>A736R</u>	Extra Large	23.0x15.0x1.3 inch 584x381x33mm	Automatic	Automatic	Servo control	62,000	23
<u>A637R</u>	Large	16x11x1.3 inch 406x279x33 mm	Automatic	Automatic	Servo control	100,000	16
<u>A636R</u>	Large	16x11x1.3 inch 406x279x33mm	Automatic	Automatic	Servo control	62,000	16
<u>A537R</u>	Enlarged	15x9x1.3 inch 381x229x33 mm	Automatic	Automatic	Servo control	100,000	16
<u>A536R</u>	Enlarged	15x9x1.3 inch 381x229x33 mm	Automatic	Automatic	Servo control	62,000	16
<u>A437R</u>	Standard	12x9x1.3 inch 304x229x33 mm	Automatic	Automatic	Servo control	100,000	12
<u>A436R</u>	Standard	12x9x1.3 inch 304x229x33 mm	Automatic	Automatic	Servo control	62,000	12
<u>A732R</u>	Extra Large	23.0x16.2x1.3 inch 584.2x411.5x33 mm	Semi-Automatic*	Automatic	Servo control	100,000	N/A
<u>A731R</u>	Extra Large	23.0x16.2x1.3 inch 584.2x411.5x33 mm	Semi-Automatic*	Automatic	Servo control	62,000	N/A
<u>A632R</u>	Large	16x12.2x1.3 inch 406x310x33 mm	Semi-Automatic*	Automatic	Servo control	100,000	N/A
<u>A631R</u>	Large	16x12.2x1.3 inch 406x310x33 mm	Semi-Automatic*	Automatic	Servo control	62,000	N/A
<u>A532R</u>	Enlarged	15x10.2x1.3 inch 381x259x33 mm	Semi-Automatic*	Automatic	Servo control	100,000	N/A
<u>A531R</u>	Enlarged	15x10.2x1.3 inch 381x259x33 mm	Semi-Automatic*	Automatic	Servo control	62,000	N/A
<u>A432R</u>	Standard	12x10.2x1.3 inch 304x259x33 mm	Semi-Automatic*	Automatic	Servo control	100,000	N/A
<u>A431R</u>	Standard	12x10.2x1.3 inch 304x259x33 mm	Semi-Automatic*	Automatic	Servo control	62,000	N/A



All India Sole Authorized Distributor



ACCURATECNC
PRECISION • RELIABILITY • AFFORDABILITY

PTH and Multilayer PCB option is available

PhCNC is software specifically designed for PCB (Printed Circuit Board) prototyping, usable with desktop CNC machines. It now includes several common machining functions. Our main goal was to create high quality software that is both extremely accurate and user friendly, with a very clear and simple to use interface utilizing pop-up menus, function buttons and high quality graphics. The Selections and calculations for standard operations are automatic, but the operations can be accessed by the user if needed. PhCNC has two modes of operation - the CAM mode and the CNC mode. At start up, PhCNC enters the CAM mode, where you can open your files and edit the final layout of your prototype. Here, you can also specify the tools, which will be used when the prototype PCB is being produced by any model of any series. In the CNC Mode, the user can execute the programs that have been generated by PhCNC to control the machine. Note that you can switch between the two modes at any time. If you have our new video camera/microscope you will be able to measure and inspect your project.

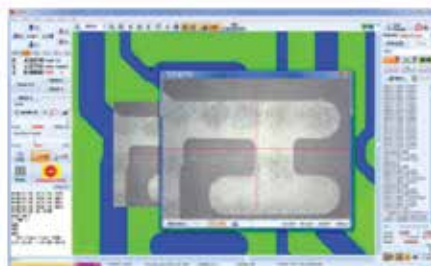
CAM mode

CNC mode



CNC Video mode #1

CNC Video mode #2



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