

Techno **CNC** Systems



TITAN SERIES CNC ROUTER

The Titan Series machine is all steel construction, which provides the rigid foundation required for ultra-smooth routing results. The Titan machine includes a 12HP HSD automatic tool changer with 8-position tool rack. It includes a pneumatically operated dust collection hood, that provides concentrated air flow at the cutter, which also provides optimal dust collection performance. The multi-zone vacuum t-slot table is constructed from very hard phenolic, which is very stable material, and holds tight tolerances for precision cutting. It is connected to a 10HP Rotary vane vacuum pump, which has very quiet operation (82db). For easy sheet alignment, (3) material pop-up pins are included and precisely placed to handle and align various size materials. The Titan series is powered by brushless drive motors, and is controlled via easy to use and learn hand held controller.



Features:

- 12 HP HSD high frequency automatic tool changer spindle
- Maintenance free brushless motors and drives
- Multi-Zone vacuum T-slot table
- Pneumatic material pop-up pins
- Automatic tool length calibration via closed loop touch pad
- Automatic Z-zero via secondary touch pad
- Easy-to-use hand held controller
- Open architecture works with all industry standard CAD/CAM software
- For additional machine options, call Techno CNC today at 631-648-7481 or email us at technosales@technocnc.com



SIGNAGE



WOODWORK



PLASTICS



METALS

=ATLAS SERIES CNC ROUTER

The Atlas Series machine is all steel construction; providing the rigid foundation required for ultra-smooth routing results. The Atlas machine includes a 4HP HSD collet spindle, and includes a dust hood that has concentrated air flow at the cutter which provides optimal dust collection performance. The multi-zone vacuum t-slot table is constructed from very hard phenolic, which is very stable material, and holds tight tolerances for precision cutting, and is connected to a 10HP Rotary vane vacuum pump, which has very quiet operation (82db). The Atlas series is powered by brushless drive motors, and is controlled via an easy to use and learn hand-held controller.



Features:

- 4 HP HSD high-frequency collet spindle
- Maintenance free brushless drive motors
- Multi-Zone vacuum table with main control gate valve
- Easy to use hand-held controller
- Open architecture works with all industry standard CAD/CAM software
- For additional machine options, call Techno CNC today at 631-648-7481 or email us at technosales@technocnc.com

CNC TECHNOLOGY AT MINEOLA HIGH SCHOOL

"Adding CNC to our high school program was really the next step for us," stated Whitney Smith, principal at MHS. "We are always on the cutting edge of technology. We are always searching for the best tools for our students. Lastly, we have always had a traditional wood and metal shop, but now we are focusing on showing the students the latest and greatest technology in automation and the students are very excited about it. We already knew our students had such great ideas, but now, it is incredible to be able to see these students take their ideas from inception to completion, using CAD/CAM technology," said Principal Smith.



HDS SERIES CNC ROUTER

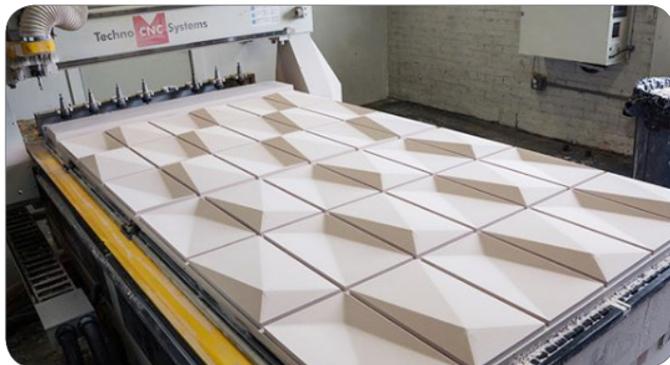
Techno's HDS Series CNC Machine is made up of all steel construction, providing the rigid foundation required for ultra-smooth routing results. The HDS Series CNC Router includes a 12 HP HSD automatic tool changer spindle with an 8-position tool rack. The HDS Series comes standard with a pneumatically operated dust collection hood that concentrates air flow at the cutter, which provide optimal dust collection performance. The multi-zone vacuum T-slot table is constructed from very hard phenolic, which is an extremely stable material that holds tight tolerances for precision cutting. It is connected to a 10HP rotary vane vacuum pump (twin pack optional), for quiet operation. For easy sheet alignment, (3) pop-up pins are included on the HDS Series, and are precisely placed to handle and align various size materials. The HDS Series CNC machine is powered by brushless AC servo digital motors and drives, and is powered by an easy-to-use and learn Osai PC based industrial controller.



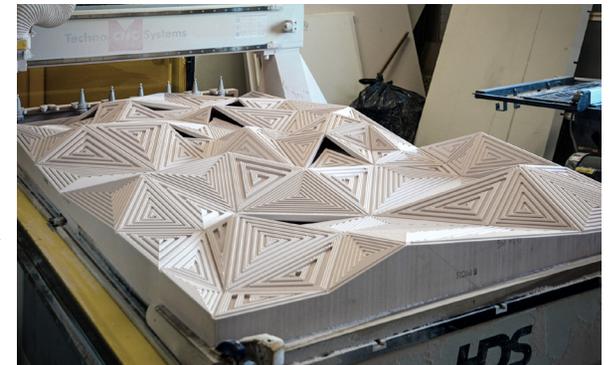
Features:

- 12 HP HSD automatic tool changer spindle
- 4-zone vacuum T-slot table
- 8-position tool rack
- Pneumatic material pop-up pins
- Osai PC based industrial grade CNC controller
- Easy-to-use Techno CNC Interface
- Open architecture works with all industry standard CAD/CAM software
- For additional machine options, call Techno CNC today at 631-648-7481 or email us at technosales@technocnc.com

Facade panel mock-ups: Prototyped with Precision Board 15lbs. pcf urethane foam to test geometry for terra-cotta shingles by Payette in Boston, MA, using our HDS Series model.



"Having the CNC router allows us to solve design problems in ways we wouldn't be able to, if we didn't have the router to help build our ideas. Those avenues of physical production change the way we design as a company. We make modifications ourselves, and then bring in a contractor to discuss the physical artifact we can present to them. It pushes some of the tougher issues forward, as well. It reduces risk for the client because they can see exactly what they are getting." - Parke MacDowell, Payette



Venture CABINET NESTING SERIES



The Venture Cabinet Nesting machine is all steel construction providing the rigid foundation required for ultra-smooth routing results. The Venture Cabinet Nesting machine includes a 12HP HSD automatic tool changer with 8-position rotary carousel, and a 9-spindle drill bank. Both spindles incorporate pneumatically operated dust collection hoods that concentrate air flow at the cutter, which also provides optimal dust collection performance. The multi-zone double layer high flow vacuum table is constructed from very hard phenolic, which is very stable material, and holds tight tolerances for precision depth cutting. It is connected to a 10HP Rotary vane vacuum pump (twin pack optional) which has very quiet operation (82db). For easy sheet alignment (3) material pop-up pins are included and precisely placed to handle and align various size materials. The Venture Cabinet Nesting machine is powered by brushless AC servo digital motors and drives and is powered by an industrial Osai PC based industrial controller that is easy to use and learn.

Features:

- 12 HP HSD high frequency automatic tool changer spindle
- 8 position rotary carousel
- 9 spindle drill bank
- Brushless digital AC servo motors and drives
- Multi-zone vacuum T-slot table
- Pneumatic material placement stops
- Pneumatically operated vacuum hoods
- PC based Osai industrial grade CNC controller
- Easy to use Techno CNC interface
- Open architecture works with all industry standard CAD/CAM software
- For additional machine options, call Techno CNC today at 631-648-7481 or email us at technosales@technocnc.com

Different Views:



Tool Changer



Osai PC Based Controller



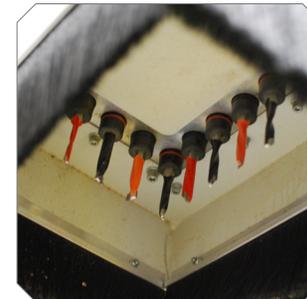
Vacuum Pod Table



12 or 16 HP ATC Spindle



Drill Bank



Aggregate C-Axis



Venture PLUS CNC ROUTER

Techno CNC System's Venture Plus Cabinet Nesting Series is an affordable, high powered, versatile and rugged CNC router designed for demanding applications that require high throughput. No matter what your production needs, the Venture Plus is an ideal choice in today's competitive manufacturing environment for the fabrication of a broad range of materials such as wood, plastic or metals.



Features:

- 12 HP HSD automatic tool changer spindle with 8-position rotary carousel
- Maintenance free brushless 1.5 kW AC servo motors and drives
- Precision helical rack and pinion on X and Y axes with ballscrew on the Z-axis
- 4-zone vacuum T-slot table
- Pneumatic material placement stops
- Hand-held pulse generator
- PC based Osai industrial CNC controller
- Open architecture works with all industry standard CAD/CAM software
- Comprehensive CNC program interface that is easy to learn and operate.
- Cutting speed up to 1,200 inches per minute with rapid speeds of 3000 ipm
- For additional machine options, call Techno CNC today at 631-648-7481 or email us at technosales@technocnc.com

Tool Changer



Osai PC Based Controller



Vacuum Pod Table



12 or 16 HP ATC Spindle



Drill Bank



Aggregate C-Axis



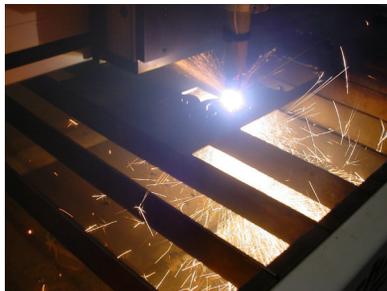
PHOENIX Large Format CNC Plasma



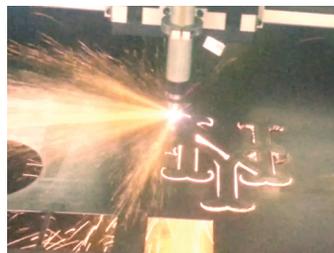
The Phoenix Series CNC Plasma Cutter is manufactured using industry high quality components, all steel construction, and driven by brushless drive motors. Key features include THK linear guide rails and bearings, and precision helical rack and pinion with precision gear motors directly coupled to the helical pinion.

Features:

- PC based WinCNC controller
- Unique design, easy to learn and operate
- All steel construction for rigid platform
- Precision helical rack and pinion on X and Y axes with ballscrew on the Z-axis
- Electronic torch breakaway
- Brushless micro stepper motors and drives
- High-speed cutting up to 800 IPM
- Cuts up to 1.5" thick steel capacity
- Water table / Steel V-grid / Downdraft
- Automatic torch height control (THC)
- Multiple torch power supply options



Take A Closer Look:



VENUS SERIES

CNC PLASMA CUTTER



Techno is proud to introduce the Venus Series Tabletop CNC Plasma Cutter. Our tabletop plasma cutter is a compact version of a full-scale CNC plasma system that can be implemented in a production environment or educational setting. The machine is available with an optional safety enclosure and stand. It can be easily transported around the facility to any convenient location.

Features:

- 20" x 30" process area
- Precision ballscrews on all three axes
- Hypertherm torch
- Brushless micro stepper motors and controls
- Stainless steel water tray with steel grid
- Automatic torch height control
- Linear rails and bearings
- PC based WinCNC controller
- Electronic torch breakaway

Options:

- Hypertherm Powermax 45, 65, 85, or 105
- Consumables
- Steel base with wheels
- Full safety enclosure



Introducing Affordable Solutions to the Metal Cutting Processes

HD-II TABLETOP CNC ROUTER

Our HD II Tabletop CNC Router is a compact version of a full scale CNC system that can be implemented in a production environment or educational setting. Techno CNC's HD II Tabletop CNC Router features a 7-1/2" gantry clearance and a 9-1/2" Z-axis stroke, comes standard with a 2 HP HSD high frequency collet spindle and vacuum T-slot table. Additional options include a steel base and full safety enclosure with door interlock ideal for educational institutes, a 4th axis rotary table, and tool kits. Additional features include ballscrews on all 3 axes, brushless stepper motors (servo optional), heavy duty phenolic vacuum table with aluminum T-slot channels, and Techno's hand-held controller, which is the heart of the operational system. This hand-held controller redefines the phrase "easy-to-use".



Features:

- 20" x 30" process area
- Precision ballscrews on all three axes
- 2 HP high frequency collet spindle
- Brushless micro stepper motors and controls
- Vacuum T-slot table for easy part fixturing
- Automatic tool calibration pad
- Linear rails and bearings
- Easy to Use Hand-Held Controller

Options:

- Steel base with casters
- Full safety enclosure
- Cam Clamp
- Clamp bar
- Vise
- 1 1/2 HP dust collector
- Toggle clamp set (4 pc)
- Coolant system
- 4th Axis rotary table with tailstock
- Vacuum pump

Spindle



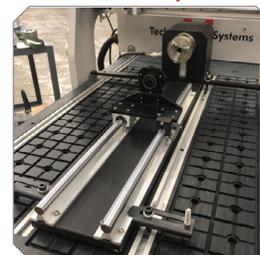
Hand-held Controller



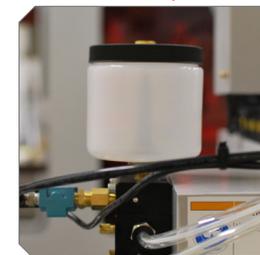
Enclosure



4th Axis Rotary Table



Coolant System



BT1212 TABLETOP CNC ROUTER

The BT1212 Benchtop CNC Router is a small compact tabletop router that includes a 1 HP router, full safety enclosure, aluminum T-slot table and is driven by brushless stepper motors and drives. The controller is Techno's ever-so-popular and easy-to-use hand-held controller. Ideal for small part production, prototyping, model making, engraving, woodworking, signage and educational applications, the BT1212 is an open architectural system and is compatible with all industry standard CAD/CAM software. The Techno BT1212 is a sturdy machine for precision routing. Its compact size allows it to fit almost anywhere.

Features:

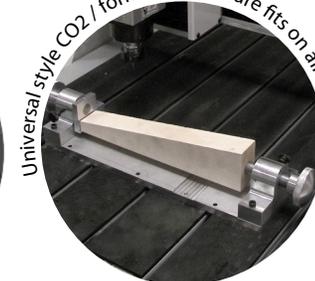
- Precision ballscrews on all three axes
- 800 watt (1 HP) Kress variable speed spindle 8,000-24,000 RPM
- Brushless micro stepper motor control system
- Aluminum T-slot table
- Compatible with G code and M codes
- Cast metal base construction
- Easy to learn and operate
- For additional machine options, call Techno CNC today at 631-648-7481 or email us at technosales@technocnc.com



Easy to use hand held controller

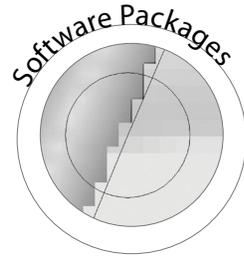


Universal style CO2 / formula car fixture fits on all machines.



ACCESSORIES

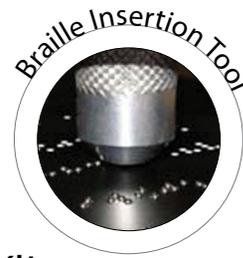
Shop Parts and Accessories at our Online Store: www.technocncshop.com



Software Packages



Mechanical Clamps & Vacuum Tables



Braille Insertion Tool



Safety Fencing

Tool Kits

Wood



Plastics



V-Groove



Metals



Dust Collectors



Vacuum Pump Systems



Digital Registration



4th Axis Rotary Tables



Automatic Tool Changer Spindle



Drill Bank



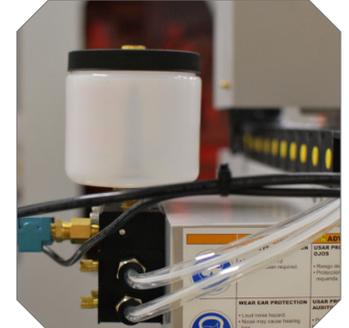
HSD High Frequency



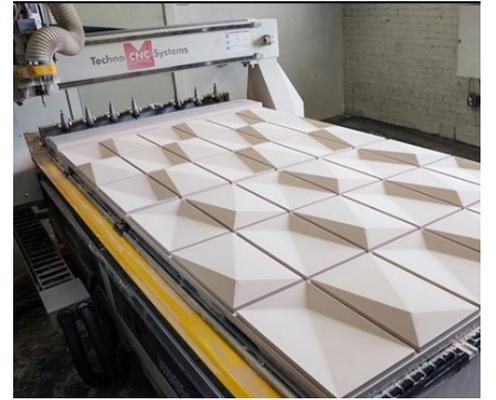
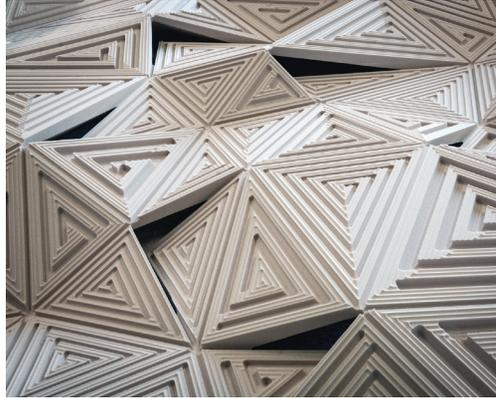
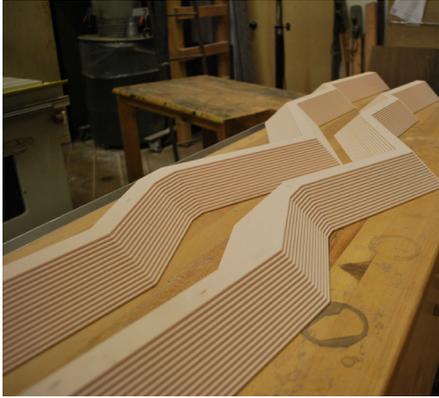
Vortex Cold Air Gun



Microdrop Coolant



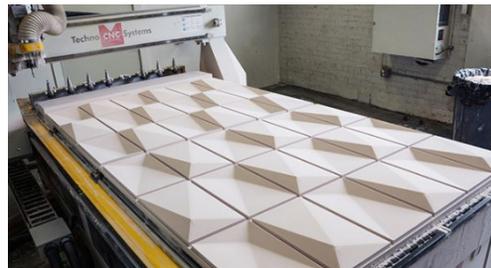
TAKE A CLOSER LOOK AT WHAT OUR ROUTERS CAN DO



CUSTOMER STORIES

DESIGNING BUILDINGS OF NOBLE PURPOSE USING CNC TECHNOLOGY

"We were moving into a bigger shop. The company was in a small flex space. We were leveraging relationships to use machines that friends had. Originally, we would have used connections with fabricators to prototype things, but boy was that a slow process," said Parke MacDowell. So, Payette came to Techno in need of a quality, reliable and affordable CNC router- The HDS Series CNC router. "We wanted an accurate and fast machine. We knew we wanted a strong motor like the 12 horsepower motor- something we were not willing to compromise." Techno's HDS CNC routers are built to last with all steel construction and superior components such as precision linear bearings and rails. Standard features of these machines include a 12 HP HSD high frequency automatic tool changer spindle with an 8 position tool holder rack, precision helical rack and pinion drives on the X and Y axes, a ballscrew drive on the Z-axis, maintenance-free AC servo motors, multi-zone vacuum T-slot table combination, and material placement stops.



"Now, we have curriculum that supports the shop, where we can share skill sets and knowledge throughout the project team. We have collapsed the architect divide and expanded tremendously."

"We can now test design ideas with physical production by making things, playing around with how shapes would look, etc. We can then also use the router as a communication tool. It is very valuable to be able to show clients exactly what they are going to get. We can show them that it isn't just a 3D model, this is something you can physically touch and hold, and they can expedite the discourse. It is so much easier to make decisions this way. Then, contractors come to our fabrication lab where we can all throw ideas around, yet still be on the same page about the project. It's a very effective way to bridge the divide between designer and contractor. That was our ultimate goal of the fabrication space."



Visit our website at www.technocnc.com/payette/ to read the full story

CNC ROUTER PRODUCES WOOD BOX FORMS, BRINGING CONTROL TO A PAST PROBLEM

Marty Fennel, President of The Jordan Box Company, jumped in his car, loaded various materials he wanted to see cut, and off he went on a four hour drive to Long Island, NY to visit Techno CNC Systems facility in Ronkonkoma. Upon arriving he was greeted by Tim and the application engineers. They sat down, reviewed Marty's production needs, analyzed the forms geometry, and listened to Marty's production obstacles. Within minutes the Techno application engineer started drawing the form geometry in Vectric V-Carve Pro software and using the built-in programming tools, created all the NC Code the HD Series machine would need. They then proceeded to the production shop where Marty witnessed firsthand how to load the NC files and prepare the machine for cutting. They loaded the sheet of finish plywood Marty brought with him, showed him how to find the start/origin point, and used the automatic touch off pad for zeroing the Z-axis. They then turned on the vacuum pump, the dust extraction system, and finally hit cycle start. The machine immediately got to work routing the plywood at 600 in/min and, within minutes, six different forms were completed. Marty could not believe what he was seeing. The process was that simple.

Three weeks had come and gone and the new Techno HD Series CNC Router had arrived safely, was on his production floor, and up and running.



"Looking back", Marty confides, "I wish I would have purchased a CNC sooner. Farming out the work was costly and stressful. Having the new Techno router in house gives us complete control of our production. We are getting better material yields and it's made our production planning easy. In addition, we have been experimenting with new designs and using the router for other projects."



Visit our website at www.technocnc.com/jordan-box-company/ to read the full story

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