

Venture NESTING

Techno
 CNC
Systems



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Venture NESTING



ABOUT OUR **VENTURE NESTING** WORKSHOP 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 9-spindle drill bank. Both spindles incorporate pneumatically operated dust collection hoods that concentrate air flow at the cutter, which provide 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.

IMPRESSIVE FEATURES

INCLUDES:

- ✓ 12 HP HSD high frequency automatic tool changer spindle
- ✓ 8 Position Rotary Carousel
- ✓ 9 Spindle Drill Bank
- ✓ Easy to use Techno CNC Interface
- ✓ 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

CONSTRUCTION FEATURES

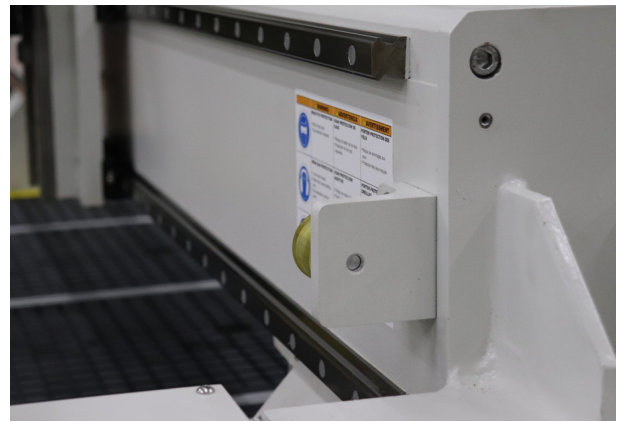
BASE FRAME

The Venture Cabinet Nesting Machine base frame is fabricated from heavy-duty tubular steel that is welded, precision machined and stress relieved so that the foundation remains true and steady over the operational life of the machine.



GANTRY

The gantry is constructed of tubular steel with reinforcing ribs welded throughout the length of the column which results in a steady firm beam assembly. This quality engineering and workmanship result in smooth precision cutting.



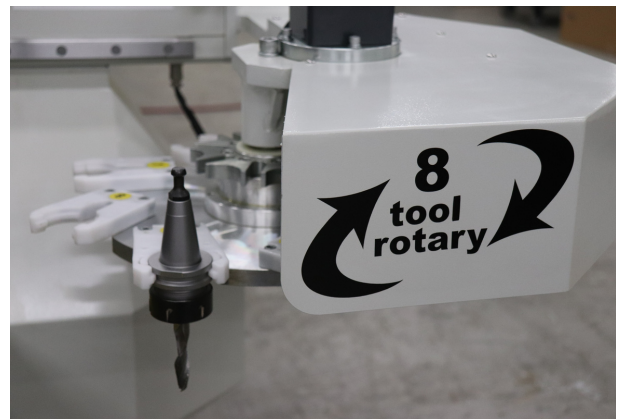
SPINDLE

The Techno Venture Cabinet Nesting Series Machine comes standard with a 12 HP HSD high frequency automatic tool changer. This precision spindle requires no regular maintenance, uses industry standard ER collets and ISO 30 tool holders, has fully programmable speeds from 6000 to 24000 RPM.



8 TOOL ROTARY CAROUSEL

The Venture Cabinet Nesting Series machine comes standard with a 8-tool rotary carousel mounted to the X-axis beam. This provides faster tool changes during the cutting process.



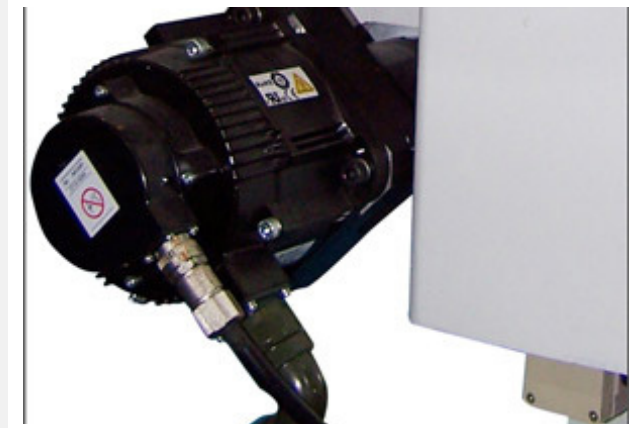
VACUUM SHROUD

The Venture Cabinet Nesting Machine includes a pneumatically operated vacuum hood that has concentrated air flow at the spindle thus efficiently cleaning up the dust and debris as it is routed.



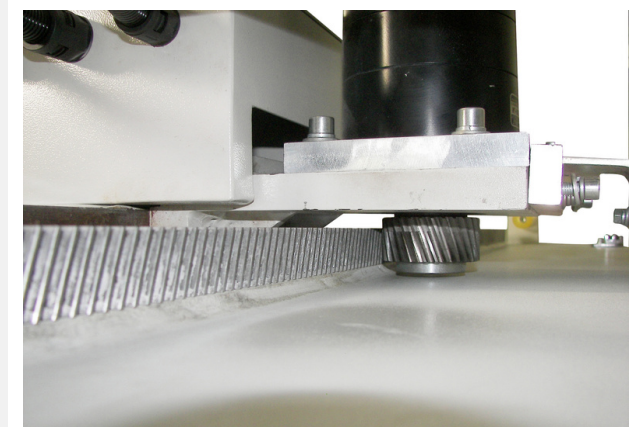
DRIVE MOTORS

The Venture Cabinet Nesting Machine utilizes AC servo motors powered by Yaskawa drives. These motors require no regular maintenance – therefore, reducing any maintenance downtime.



DRIVE TRAIN ASSEMBLY

The Venture Cabinet Nesting Machine uses precision helical gear racks on the X and Y axes. The mounting of the rack is inverted to help keep dust and debris from building up on the drive system - this assures smooth motion and long term reliability. The precision gearbox is directly coupled to the servo motor and pinion. This eliminates belt stretch inaccuracies assuring high-speed machining while the system positions the spindle accurately.



DRILL BANK

The Venture Cabinet Nesting Series includes a 9-Spindle Drill Bank. All nine spindles are on 32mm centers and are fully programmable for individual or gang drilling. The unit is 3HP "L" shaped drill pattern

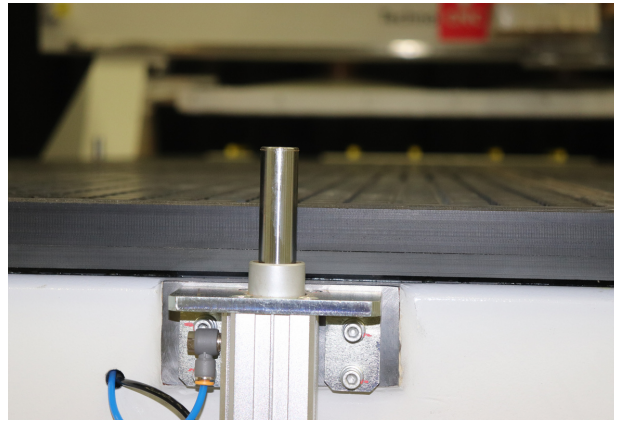
Details: Spacing 32mm

Number of vertical drills = 5+4 (5) in X & Y, center is shared



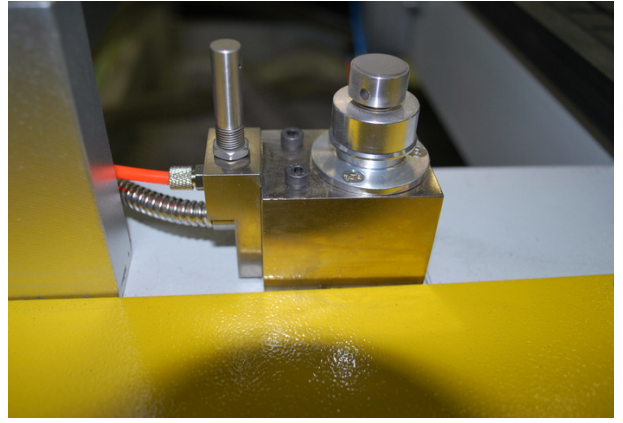
POP-UP PINS

The Techno Venture Cabinet Nesting Series Machine comes standard with three pop up pins. These pins allow the operator to bank the edge of the material against them precisely aligning the material to the axes of travel and always having a common origin.



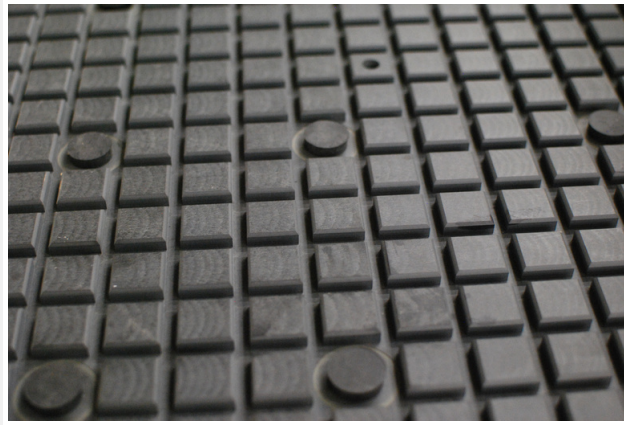
TOOL CALIBRATION

Automatic tool calibration pad is designed for easy and accurate recording of tool length off-sets



VACUUM TABLE

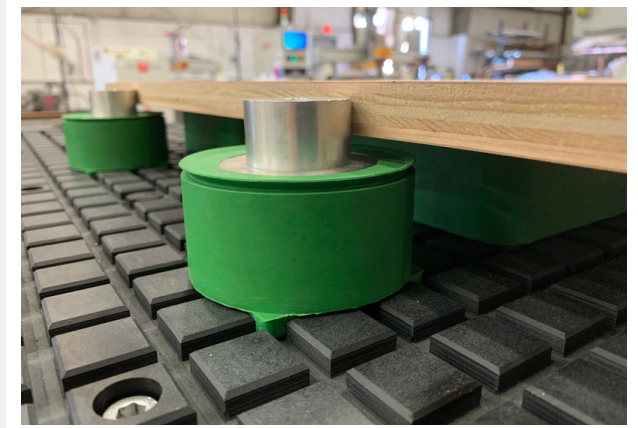
The Techno Venture Cabinet Nesting Series Machine includes a double layer high flow vacuum table



OPTIONS

ELEVATION PODS

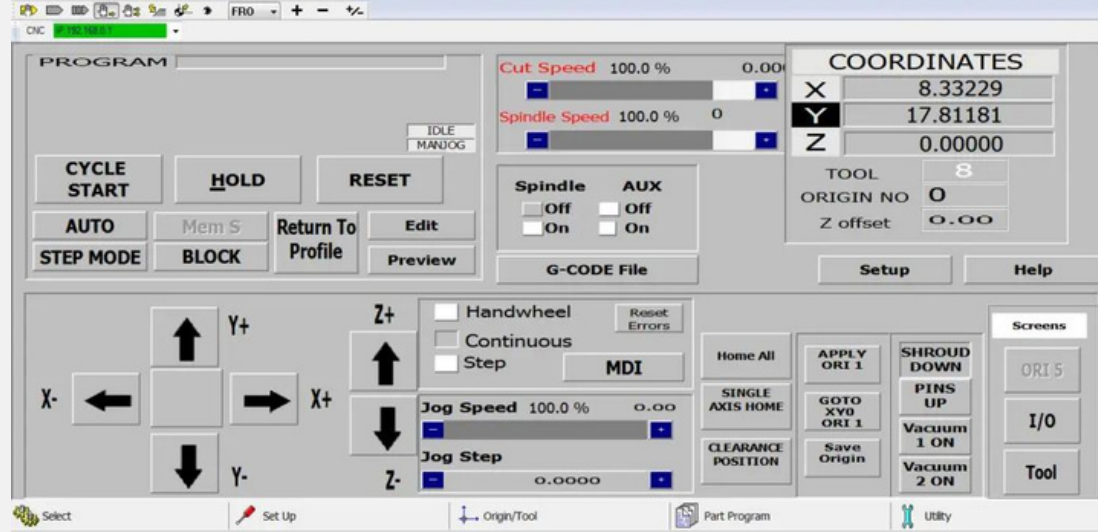
With our new elevation pod option, you can now raise material off of the machine tables surface for easy horizontal drilling and routing.



PUSHER/SWEEPER

Increase production workflow with Techno's Venture nesting machine equipped with pusher / sweeper. Our pusher/sweeper pushes the cut material off the bed of the machine and cleans the dust and debris at the same time. Optimal for quick and easy clean up for dusty surfaces. *Optional*





G-CODE INTERFACE

Techno CNC's Venture Cabinet Nesting Machine Windows-Based G-Code Osai Interface is included with each machine and is an indispensable tool in any CNC Router application. Its open architectural design accepts G-Code files from any industry standard CAD/CAM software package, and can operate using inch or metric units and is highly customizable to better suite your needs. Customers that are new to automation find the Techno CNC Interface easy to learn and operate. Most are up and running in less than one day of training. They find the intuitive design and functions easy to use and remember. The most fundamental controls and displays are all visible on the main page. Customers soon discover that just because the Techno CNC Interface is easy to use, it does not mean that it is not a comprehensive CNC program.



THE HIGH SPEED, EFFICIENT, AND ACCURATE MACHINING THAT YOUR BUSINESS NEEDS



Professional Equipment

Use our world class, industrial grade, easy to use equipment to meet and exceed your production needs



Free Technical Support

Call or email our live technical support team for quick technical support within minutes. Free for the life of your machine

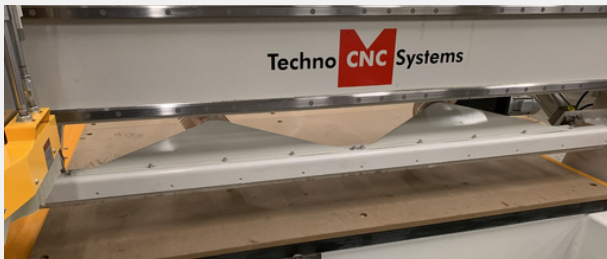
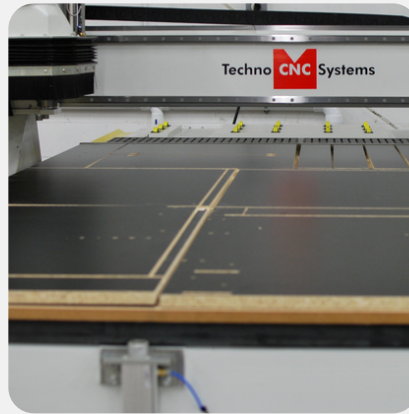


Always Affordable

We are always looking out for our customers needs and budget. We will work with you to build the machine of your dreams at an affordable rate





GALLERY



CONTACT US

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