

# ***TITAN***

Techno **CNC** Systems



**TECHNOCNC.COM**

29 Trade Zone Drive

Ronkonkoma, NY 11779

**Email:** [technosales@technocnc.com](mailto:technosales@technocnc.com)

**Tel:** 631-648-7481

# **TITAN**

## ABOUT OUR **TITAN** WORKSHOP SERIES



The Titan Series machine is all steel construction, providing the rigid foundation required for ultra-smooth routing results. The Titan machine includes a 12HP HSD automatic tool changer with 8-position tool rack, and a pneumatically operated dust collection hood that concentrates 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. The Titan series 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.

## IMPRESSIVE FEATURES

### INCLUDES:

- ✓ 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 (optional PC based system available)
- ✓ Open architecture works with all industry standard CAD/CAM software



# IMPRESSIVE FEATURES

## CONSTRUCTION FEATURES

### STEEL BASE

The base frame is fabricated from heavy-duty tubular steel that is welded, stress relieved and precision machined, 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 Titan Series machine comes standard with a 12 HP HSD high frequency automatic tool changer spindle. This precision spindle requires no maintenance, uses industry standard ER collets and ISO 30 tool holders, is fully programmable with speeds from 6000 to 24000 RPM, and comes complete with a pneumatically retractable vacuum hood



### TOOLING

The Titan Series machine includes an 8-position tool rack in the rear of the machine. The position of this rack allows for easy loading and unloading of material from either side of the machine.



## VACUUM SHROUD

The Titan includes a pneumatically retractable vacuum hood that has concentrated air flow at the spindle thus efficiently cleaning up the dust and debris as it routes



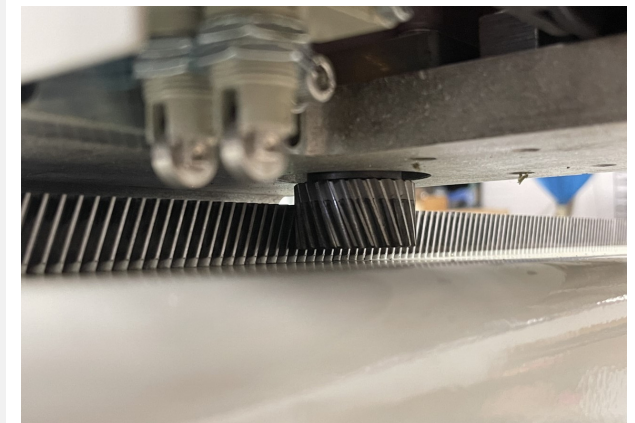
## DRIVE MOTORS

The Titan Series CNC Router utilizes brushless drive motors and drives. These motors require no regular maintenance – therefore, reducing any maintenance downtime.



## DRIVE TRAIN ASSEMBLY

The Techno Titan Series CNC Router 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 drive motor and pinion. This eliminates belt stretch inaccuracies assuring high-speed machining while the system.



## ELECTRONICS

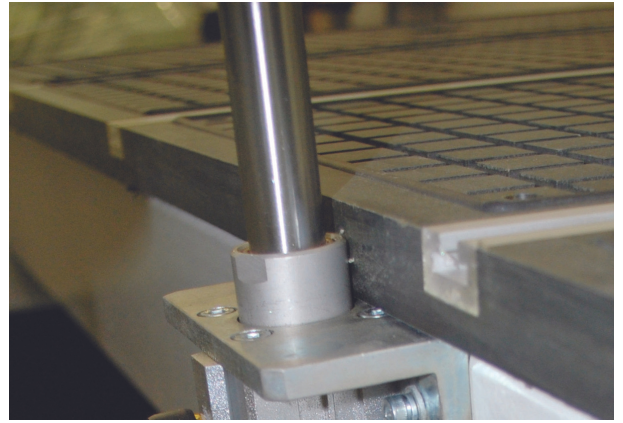
All the electrical components are housed and wired in a doubled-doored NEMA 4 electrical enclosure. This allows for easy access and service when needed. All wiring is tagged so that when service is required, the customer can easily navigate the cabinet. In addition, the cabinet serves as a work bench for the tools required. tool changer. This precision spindle requires no maintenance, uses industry standard ER collets and ISO 30 tool holders, has fully programmable speeds from 6000 to 24000 RPM





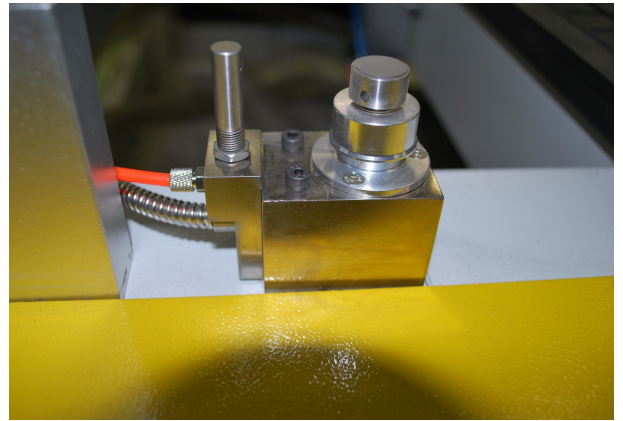
## POP-UP PINS

The Techno Titan 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 axis of travel and always having a common origin.



## TOOL CALIBRATION

Tool Calibration is used for recording tool length offsets. This is an automatic process for easy storage of tool length offsets



## Z-ZERO TOUCH PAD

Automatic tool calibration pad allows for easy and accurate “Z” zero position



## VACUUM TABLE

The Titan comes standard with a multi-zone phenolic vacuum t-slot table which is controlled via electro-pneumatic valves. The table can be easily customized by rerouting gasketing to section off specific areas.







# HANDHELD CONTROLLER

The hand-held controller is the heart of the operational system. This hand-held controller redefines the phrase "easy-to-use". Customers can be up and running the same day power is connected to the machine. Every controller has very easy-to-read, -understand, and -execute commands. The setup introduction manual provides information that will have users cutting parts in minutes



## 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



# OPTIONS



**DIGITAL  
REGISTRATION**



**DRAG  
KNIFE**



**3D  
PROGRAMMING  
SOFTWARE**



**OSCILLATING  
KNIFE**



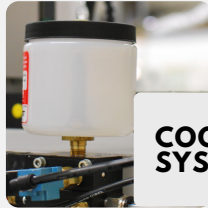
**CREASING  
WHEEL**



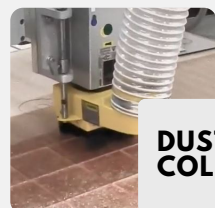
**4TH AXIS  
ROTARY TABLE  
ASSEMBLY**



**TANGENTIAL  
KNIFE**



**COOLANT  
SYSTEM**



**DUST  
COLLECTION**



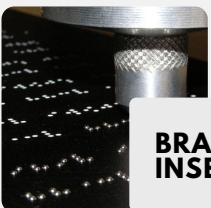
**VORTEX AIR  
GUN**



**TOGGLE  
CLAMPS**



**AGGREGATE  
TOOL**



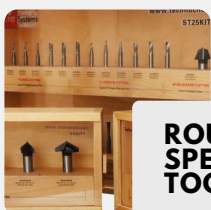
**BRAILLE  
INSERTION**



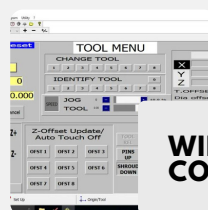
**POD  
TABLE**



**CAM  
CLAMPS**



**ROUTER  
SPECIFIC  
TOOL KITS**



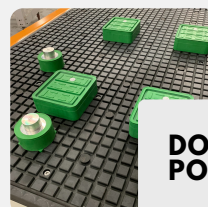
**WIN CNC  
CONTROLLER**



**DOVETAIL  
FIXTURES**



**ELEVATION  
PODS**



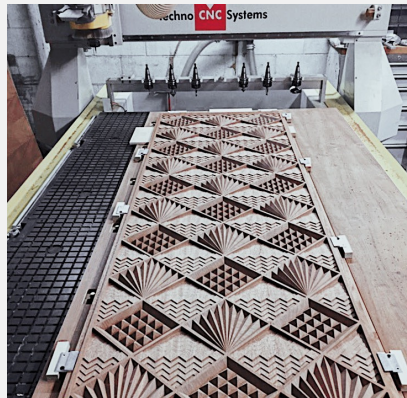
**DOUBLE LAYER  
POD TABLE**



**VACUUM  
PUMP**



# GALLERY



CONTACT US



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# TESTIMONIALS

"We are certainly all extremely satisfied with both of our Techno CNC machines. Our new Titan Series has been a huge upgrade from our older Techno CNC model. This newer CNC machine has made our production a lot easier. As mentioned before, the tool changer has been an absolute game changer. I am finding myself performing tasks that I would normally just complete by hand using the machine. Before, I used to have to set up the machine to perform a task, such as cutting out a graft for an acoustic guitar top, and then wait for the machine to need me to change a tool. I still was able to complete other things as the machine was running, but I never was able to stray to far from the machine. Now, I can use out Titan to not only cut out a graft, but cut a perfect 45 degree bevel around all edge just by putting the spruce on the spoil board, turning on the vacuum, zeroing the machine and walking away... Anyone considering getting into CNC for guitar building, look no further than Techno. Rather than buying your way up through different models of cheaper brands found at your local woodworking store, buy your last CNC first".

**– Tom Dalia, Galloup Guitars**

"One of the coolest parts of our workshops is having access to state-of-the-art equipment that can't be found in your average artistic arsenal. The CNC router is just that tool-and having access one opens a new world of creation".

**– Anderson Ranch Arts**



# READY TO MAKE THE PLUNGE?

**INVEST IN A TECHNO CNC ROUTER TO ENSURE BUSINESS  
EXPANSION AND AN INCREASE IN SALES**



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technosales@technocnc.com



www.technocnc.com



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@technocnc



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