

Techno **CNC** Systems

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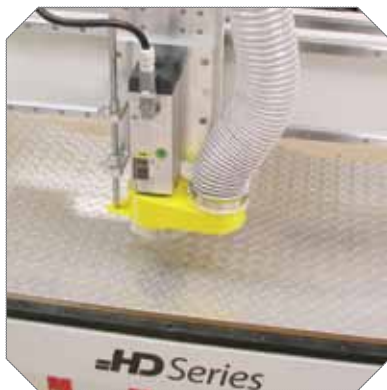
—Susan Lambert, Riverside Cabinets and Engraving

“We chose Techno for our CNC Router needs because of the value for the money and the ease of working with the machine. We know that the machine will decrease our production time and expand our capabilities. This will allow us to take on additional jobs that we would not have been able to do before. Sign carving is done in a fraction of the time that is spent hand carving.

Thank you, Techno, and have a wonderful day!”

HD CNC Router

EXTRAORDINARY VALUE & PERFORMANCE ... over the past 28 years Techno has provided economical CNC cutting solutions. Our engineering creativity has always yielded affordable, quality equipment. Our engineers have designed a product that allows us to sell this machinery at a very economical price. The HD Series machine features an all steel construction, precision linear rails and bearings, precision helical rack and pinion on the X and Y axes, and a ball screw on the Z axis. In addition, the system includes brushless micro-stepper motors and controls with a very easy-to-use hand-held controller.



Aluminum Sheet Processing is made easy on an HD CNC Router



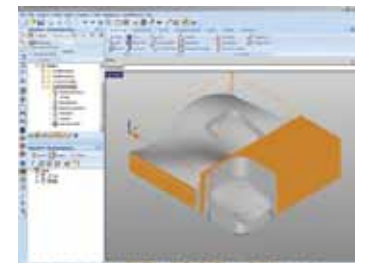
HD CNC Router

Dimensions in inch

Machine Model	Process Area*			Gantry Height**	Cut Speed	Rapid Speed	Foot Print		
	X	Y	Z				W	L	H
HD 4848	50	50	7.5	7.5	800	1200	78	71	60
HD 4896	50	97	7.5	7.5	800	1200	78	119	60
HD 60120	61	121	7.5	7.5	800	1200	90	147	60
HD 60144	61	145	7.5	7.5	800	1200	90	171	60

*Other sizes available upon request. **Other gantry heights available upon request.

- 4 HP HSD high frequency collet spindle
- Maintenance free high precision brushless stepper drive motors
- Automatic tool calibration pad
- 4-zone vacuum T-slot table
- Easy-to-use hand-held micro stepper controller
- Open architecture works with all industry standard CAD/CAM software



"I would like to thank you for all your assistance with my purchase of the Techno HDS machine. This has been a great asset to my business. Production has been greatly increased and has increased quality performance in our cabinetry department. Your staff has been helpful with our training on site as well as on the phone. I would recommend this machine to my fellow cabinet peers,"

Steven Mills
— East Coast
Cabinetry, Inc.

HDS CNC Router

Techno's HDS CNC Router is manufactured using global state-of-the-art techniques with advanced engineering and workmanship — built to last with all steel construction and superior components. Key features are a 12 HP HSD automatic tool changer spindle that comes complete with a pneumatically retractable vacuum hood, a multi-zone vacuum T-slot table, a precision helical rack and pinion on the X and Y axes, a ball screw on the Z axis, and a PC based Osai industrial AC servo controller with easy to use system interface. Precision linear bearings and rails on all three axes provide smooth, play free motion. Increased production capability with the highest cut quality and minimal maintenance make these machines perfect for any size production shop.*



*Midwest customer purchased 4 Techno HDS machines for their plastics fabrication.



- 12 HP HSD automatic tool changer spindle
- Maintenance free brushless AC servo motors and drives
- Automatic tool calibration pad
- 4-zone vacuum T-slot table
- 8-position tool rack
- Pneumatic material placement stops
- Osai industrial AC servo controller
- Hand-held pulse generator
- Open architecture works with all industry standard CAD/CAM software

Dimensions in inch

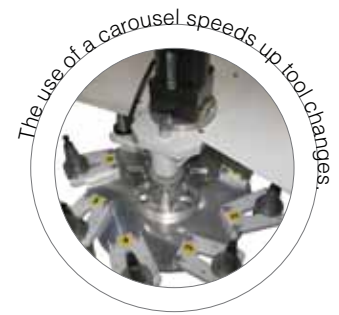
Machine Model	Process Area*			Gantry Height**	Cut Speed	Rapid Speed	Foot Print		
	X	Y	Z				W	L	H
4848	50	50	7.5	7.5	1000	1500	78	71	60
4896	50	97	7.5	7.5	1000	1500	78	129	60
60120	61	121	7.5	7.5	1000	1500	90	147	60
60144	61	145	7.5	7.5	1000	1500	90	171	60

*Other sizes available upon request. **Other gantry heights available upon request.

Venture CNC Router

The Venture CNC Router is revolutionary, durable and affordable. Key features are a 12 HP HSD high frequency automatic tool changer with an 8-position rotary carousel, multi-zone vacuum T-slot table, precision helical rack and pinion on the X and Y axes with a ball screw Z axis drive. Linear bearings and rails are used on all three axes providing smooth, play free motion. High-powered maintenance free, brushless AC servo motors and Delta drives provide efficient, powerful, fast and accurate motion. The XY drives include precision German manufactured gear boxes that are directly coupled to the servo motor pinions, which are driven by a PC based Osai industrial CNC controller with an easy to use system interface. Increased production capabilities with superior cut quality make this model a perfect machine for any size production shop.

- 12 HP HSD automatic tool changer spindle with 8-position rotary carousel
- Maintenance free brushless AC servo motors and drives
- 4-zone vacuum T-slot table
- Pneumatic material placement stops (optional)
- Hand-held pulse generator
- PC with flat screen monitor, keyboard and mouse
- Open architecture works with all industry standard CAD/CAM software
- Material handling (optional)



Dimensions in inch

Machine Model	Process Area*			Gantry Height**	Cut Speed	Rapid Speed	Foot Print		
	X	Y	Z				W	L	H
4848	50	50	7.5	7.5	1000	1500	98	77	60
4896	50	97	7.5	7.5	1000	1500	98	131	60
60120	61	121	7.5	7.5	1000	1500	110	155	60
60144	61	145	7.5	7.5	1000	1500	110	179	60

*Other sizes available upon request.

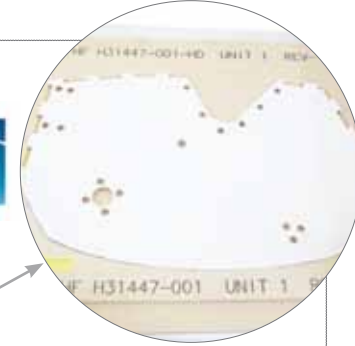
**Other gantry heights available upon request.



HD Mini CNC Router

The HD Mini is a heavy-duty machine that is an affordable CNC work platform. Ideal for any size shop requiring a compact machine to run small routing jobs or to be used as an educational tool. The HD Mini features ball screw drives on all three axes and is controlled using a Techno easy-to-use hand-held micro stepper controller. The controller can run industry standard G and M codes.

- 23" x 35" Process area
- Precision ball screws on all three axes
- 2 HP HSD high frequency collet spindle
- Brushless micro stepper motors and controls
- Aluminum T-slot table for easy part fixturing
- Automatic tool calibration pad
- THK rails and bearings



—Ian Voorhees
Tool Designer, CNC Programmer

"I just wanted to say thanks for the help and patience. The Mini is working beautifully, now that we know how to communicate clearly with it. It's perfect for it's application here. There was a lot of doubt and mistrust of anything that wasn't labeled pedigree on it, but everyone who's seen it run is impressed. It's exceeded many expectations. One long time operator said 'it seems too easy'. I'd not be at all surprised if we order more in the future."

Dimensions in inch

Machine Model	Process Area			Gantry Height	Cut Speed	Rapid Speed	Foot Print		
	X	Y	Z				W	L	H
HD Mini	23.6	35.4	4.75	5.0	200	230	42.5	58	58

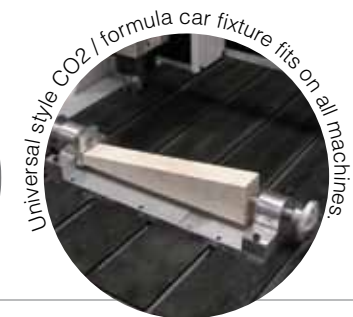
BT1212 CNC Router Benchtop

Techno CNC Systems is proud to introduce the BT1212 Benchtop, an affordable precision CNC router for industry and educational institutes. The BT1212 is powered by a brushless micro stepper motor control system. It is operated with an easy to use hand held controller and is compatible with industry standard G and M codes. Options available are full safety enclosure, extrusion stand, casters, clamps, router bits, coolant system, and a 4th axis rotary table.

Dimensions in inch

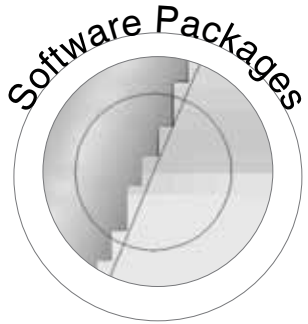
Machine Model	Process Area			Gantry Height	Cut Speed	Rapid Speed	Specifications		
	X	Y	Z				Accuracy	Voltage	Weight
BT 1212	11.8	11.8	4.0	6.0	150	200	+/- .002	110V	250lbs

- Precision ball screws 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
- Includes: 1/8", 1/4" collets and wrenches



CNC ROUTER ACCESSORIES

- Sign Making
- Musical Instruments
- Wood Working
- Plastics
- Foam
- Prototyping
- Model Making
- Education
- General Fabrication



Vacuum Pumps

Full assortment based on your application



Spindle Options



Automatic Tool Changer



Drill Bank



HSD High-Frequency

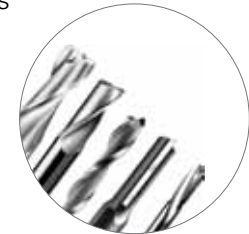
4th Axis Rotary Table



Companies can increase their production by vast numbers without having to invest in numerous machines. A single machine can be equipped with up to six router spindles and six rotary stations, thus increasing production by six times.

Tooling

- CNC tooling kits
- Solid wood and wood composites
- Double-sided laminates
- Hard plastics
- Soft plastics
- Nonferrous metals
- Specialty tools
- Profile tooling
- Insert tooling



Coolant Systems



Vortex Tube



Micro-Drop

We offer affordable systems to automate any size production shop

“Small Investment, Big Return”

- See more at www.technocnc.com.

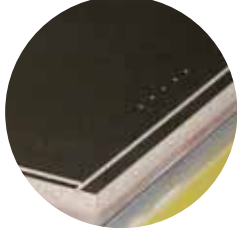
“Please know that our commitment to serving our customers and the industry is our first priority,” says company President, Roy Valentine.

Top 10 Reasons Why Your Company Needs A CNC Router

Route



Drill



Carve



Engrave



1. Low Operating Costs...

Investment in a CNC router can help lower operating costs by providing better material yields, quicker part cycle time, and prevent cutting errors that waste expensive materials.

2. Shorter Lead Times...

CNC routers provide faster cut cycle time with precise information. Owners will know exactly how many minutes it will take to run a job on the CNC which will allow them to plan better and calculate operating costs

3. Better Edge Finish...

A CNC router will precisely follow the geometry of the programmed part. The smooth, consistent motion will produce parts and provide a sharp, clean edge finish.

4. Better Material Yields...

With a CNC, parts can be nested together to maximize the material usage. This lowers overhead cost by reducing the amount of material used.

5. Greater Accuracy...

A Techno CNC router is very repeatable. This accuracy guarantees the part geometry and product fit will be perfect for every cut made.

6. Greater Flexibility...

The only limitation of a Techno CNC Router is the imagination of the user. This new ability to create anything gives business owners new opportunities to produce products that could not be produced by hand.

7. Business Expansion...

Faster cycle times and greater flexibility allow business owners to concentrate on company marketing, day-to-day sales quoting, and new programs to grow the business.

8. Faster Cycle Times...

CNC's move through material faster, more consistently, and more accurately. This reduces or eliminates secondary hand finishing. Faster cycle time yields larger profits.

9. Simplify Business Operations...

CNC Routers can take away the conventional approach of building a product. Imagine the process of cutting a 24" perfect circle by hand. First, a skilled laborer draws the circle; second, using a jig saw, they will cut outside the line; third, using a sander will sand excess material until the circle is complete. Dimensionally this will be off. Although there are other methods of producing a circle, they all involve a skilled labor creating and manipulating the workpiece and/or jigs. With a CNC router, a circle is drawn inside your CAD program and then this same program generates the toolpath for the machine to follow with basic instructions. Finally, it is executed on the router.

10. Less Employee Conflict...

Methods to produce parts can differ from person to person. With CNC router work flow, procedures become more routine. This routine lessens human interaction and decision making avoiding conflicts and human error.

