

# Techno **CNC** Systems

29 Trade Zone Drive, Ronkonkoma, NY 11779 | Telephone: 1- 631-648-7481





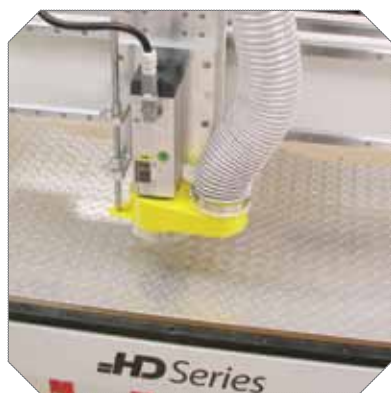
—Susan Lambert, Riverside Cabinets and Engraving

“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.

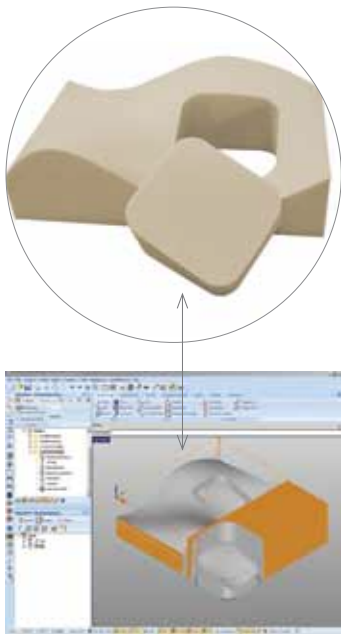
Thank you, Techno, and have a wonderful day!”

## 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

\*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





# 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, precision helical rack and pinion on the X and Y axes, ball screw on the Z axis, and 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.





Steven Mills — East Coast Cabinetry, Inc.

"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."

- 12 HP HSD automatic tool changer spindle
- Maintenance free brushless Delta 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
- Easy to use Techno CNC Interface
- Open architecture works with all industry standard CAD/CAM software

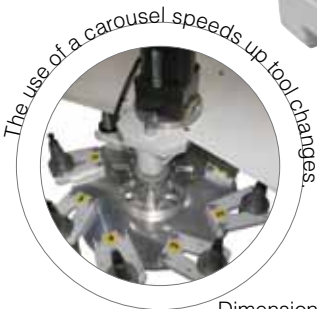
Dimensions in inch

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.



Ziggy — MRB Furniture Design Inc.



“We love our Techno Venture Series 5 ft. x 10 ft. CNC Router. It has improved our production in so many ways. The speed in which we can produce our furniture has dramatically reduced our delivery times and lets us plan our production very accurately. The CNC has improved our material yields increasing our profits and has limited shop personnel cutting errors.

Thanks Techno CNC for such a great, reliable machine!”

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

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

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



# Venture Plus CNC Router

The new Venture Plus CNC Router is an affordably priced high powered, versatile and rugged CNC router designed for demanding applications that require high throughput. No matter what your production need, 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.

The space-saving, moving-gantry is designed for heavy-duty CNC routing and the rotary tool carousel gives you unobstructed access to the front and rear of the machine for easier material loading and unloading; quicker tool changes which means faster processing of your sheet material.

- 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



The 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.

Dimensions in inch

Machine Model	Process Area*			Gantry Height	Cut Speed	Rapid Speed	Foot Print		
	X	Y	Z				W	L**	H
4896	50	97	7.5	7.5	1200	3000	95	142	103
60120	61	121	7.5	7.5	1200	3000	95	163	103

\*Other sizes available upon request.

\*\*Cable carrier extends an additional 18" when the gantry is parked .



The XY drives include precision AC servo gear motors that are directly coupled to the drive pinion. This eliminates belt stretch inaccuracies assuring high-speed machining while the system positions the spindle and accurately cuts.



# CNC Plasma

## Introducing Affordable Solutions to the Metal Cutting Processes

Techno is proud to announce the unveiling of its new HPLC CNC Plasma Cutter, a low cost, high powered, user-friendly machine, designed for any size shop or educational classroom that wish to bring their plasma process to a new level. The new plasma features a stand-alone micro stepper controller with an easy to use and learn hand held control pendant.



Plasma cutters are extremely useful for cutting sheet metal in curved or angled shapes.

- Unique design, easy to learn and operate
- Easy to use hand held controller
- Brushless micro stepper motors and drives
- Cuts up to 1" thick steel capacity
- High-speed cutting up to 800 IPM
- Compatible with industry standard G Code files
- Plasma table: Steel V-grid down draft
- Welded steel frame construction for rigidity and accuracy
- Precision helical rack and pinion on X and Y axes with ballscrew on the Z axis
- Magnetic torch breakaway prevents damage to the torch and machine
- Automatic torch height control (THC)
- Multiple torch options available



Dimensions in inch

Machine Model	Process Area*			Gantry Height**	Cut Speed	Rapid Speed	Foot Print		
	X	Y	Z				W	L	H
2424	50	50	7.5	7.5	800	800	52	51	56
4848	50	97	7.5	7.5	800	800	91	71	56
4896	61	121	7.5	7.5	800	800	91	127	56
60120	61	145	7.5	7.5	800	800	103	147	56

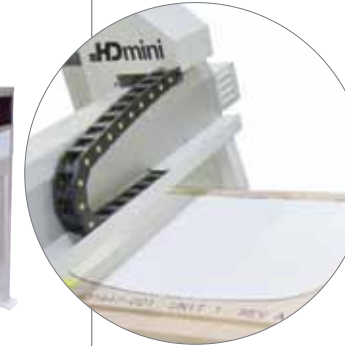
\*Other sizes available upon request.

Techno's V-groove slats provide the best part cut quality reducing slat slag or weld to part that can affect contact edge finish.

# 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

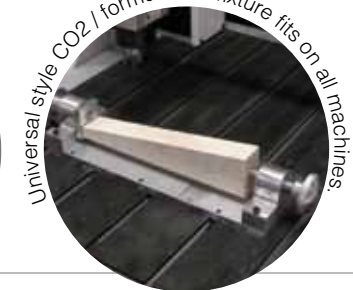
Techno CNC Systems is proud to introduce the BT1212 Benchtop, an affordable precision CNC router for industry and educational institutes. The BT1212 is powered by a brushless micro stepper motor control system. It is operated with an easy to use hand held controller and is compatible with industry standard 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

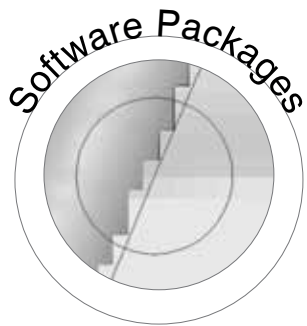
Machine Model	Process Area			Gantry Height	Cut Speed	Rapid Speed	Specifications		
	X	Y	Z				Accuracy	Voltage	Weight
BT 1212	11.8	11.8	4.0	6.0	150	200	+/- .002	110V	250lbs

- 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



## Vacuum Pumps

Full assortment based on your application



## Spindle Options



Automatic Tool Changer



Drill Bank



HSD High-Frequency

## Steel Fencing



## 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.

## 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](http://www.technocnc.com).

# CNC Tooling Kits

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



\*Techno Tooling Kits come standard in a Wooden Case Storage Box

H25XAM-7866-01 - Nested-Based Manufacturing Tool Kit (8 Pieces\*)

Catalog Number	No. of Tools each	Description	Cutting Edge Diameter	Cutting Edge Length	Shank Diameter	Overall Length
H25XAM-RC2257	1	Surface Cutter for Soft/Hard Plastics, Wood Composites and MDF Laminates	2-1/2	1/2	1/2	2-1/2
H25XAM-12	4	Surface Cutter Inserts	-		-	-
H25XAM-46172	2	Compression Bit for MDF and Laminates	3/8	1-1/4	3/8	3
H25XAM-46349	2	Downcut Spiral for Solid Wood	1/4	3/4	1/4	2-1/2
H25XAM-201005	2	Boring Drill Bit for Soft/Hard Wood	5 mm	27 mm	10 mm	57 mm
H25XAM-46170	1	Compression Bit for MDF Laminates	1/4	7/8	1/4	2-1/2



H25XAM-7866-02 - Solid Wood Manufacturing Tool Kit (10 Pieces\*)

Catalog Number	No. of Tools each	Description	Cutting Edge Diameter	Cutting Edge Length	Shank Diameter	Overall Length
H25XAM-46261	1	Upcut Spiral for Solid, Hard Woods	1/2	1-1/4	1/2	3
H25XAM-46359		Downcut Spiral for Solid, Hard Woods	3/8		3/8	
H25XAM-46361			1/2		1/2	
H25XAM-46355			3/8	1	3/8	2-1/2
H25XAM-46245		Upcut Spiral for Solid, Hard Woods	3/16	3/4	1/4	2
H25XAM-46345		Downcut Spiral for Solid, Hard Woods				
H25XAM-46241		Upcut Spiral for Solid, Hard Woods	1/8	1/2		2-1/2
H25XAM-46376		Upcut Ball Nose for Solid, Hard Woods	1/4	1		
H25XAM-43820	2	Straight Plunge for Solid, Hard Woods		3/4		



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



#### H25XAM-7866-03 – Sign Manufacturing Tool Kit (16 pieces\*)

Catalog Number	No. of Tools each	Description	Cutting Edge Diameter	Cutting Edge Length	Shank Diameter	Overall Length
H25XAM-45726	1	90° V-Groove	1-1/4	3/4	1/2	2-1/2
H25XAM-45756		120° V-Groove		21/32		1-59/64
H25XAM-45751		90° V-Groove		15/16		2-13/64
H25XAM-45705		60° V-Groove	1/2	5/8		1-3/4
H25XAM-51404	2	O Flute Upcut for Acrylic, Plastic, Wood and Solid Surfaces	1/4	3/4	1/4	2
H25XAM-51504		Single O Flute Downcut for Acrylic, Plastic, Wood and Solid Surfaces				
H25XAM-43500		Straight O Flute for Acrylic Plastic, Soft Plastic, PVC, Styrene	1/8	1/2		2-1/2
H25XAM-43508		Straight O Flute for Acrylic Plastic, Soft Plastic, PVC, Styrene	1/4	3/4		
H25XAM-51402		Spiral O Flute Upcut for Aluminum, Brass, Copper and Nonferrous Metals		5/8		2
H25XAM-51502		Spiral O Flute Downcut for Aluminum, Brass, Copper and Nonferrous Metals				

#### H25XAM-7866-04 – Nonferrous Metal Upcut Tool Kit (6 pieces\*)

Catalog Number	No. of Tools each	Description	Cutting Edge Diameter	Cutting Edge Length	Shank Diameter	Overall Length
H25XAM-51402	2	Single Flute Upcut for Aluminum, Brass, Copper, Nonferrous Metals	1/4	5/8	1/4	2
H25XAM-51406			1/8	5/16	1/8	1-1/2
H25XAM-51408			3/16	1/2	1/4	2



#### H25XAM-7866-05 – Nonferrous Metal Downcut Tool Kit (6 pieces\*)

Catalog Number	No. of Tools each	Description	Cutting Edge Diameter	Cutting Edge Length	Shank Diameter	Overall Length
H25XAM-51502	2	Single Flute Downcut for Aluminum, Brass, Copper, Nonferrous Metals	1/4	5/8	1/4	2
H25XAM-51506			1/8	5/16	1/8	1-1/2
H25XAM-51508			3/16	1/2	1/4	2



#### H25XAM-7866-06 – Plastic Manufacturing Tool Kit (12 pieces\*)

Catalog Number	No. of Tools each	Description	Cutting Edge Diameter	Cutting Edge Length	Shank Diameter	Overall Length
H25XAM-51404	2	Single O Flute Upcut for Foam, Plastic, Wood and Solid Surfaces	1/4	3/4	1/4	2
H25XAM-51410			1/8	1/2	1/8	
H25XAM-51412			3/16	5/8	3/16	
H25XAM-51504		Single O Flute Downcut for Foam, Plastic, Wood and Solid Surfaces	1/4	3/4	1/4	
H25XAM-51510			1/8	1/2	1/8	
H25XAM-51512			3/16	5/8	3/16	





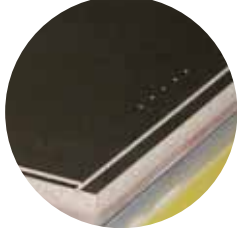
"Please know that our commitment to serving our customers and the industry is our first priority," says company President, Roy Valentine.

## 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.

