

Techno **CNC** Systems



NEW

MICRO STEPPER CONTROL SYSTEM

Each Techno CNC Plasma Cutter is equipped with micro stepper motors that deliver continuous, high-speed performance.



- ✓ Available in 2' x 2', 4' x 4', 4' x 8' and 5' x 10' stock sizes
- ✓ Easy to use hand held controller
- ✓ Unique design, easy to learn and operate
- ✓ Brushless micro stepper motors and drives
- ✓ Precision Helical Rack-n-Pinion on X and Y axes with ballscrew on the Z axes
- ✓ Plasma table: Steel V-grid down draft
- ✓ Welded steel frame construction for rigid platform
- ✓ Cuts up to 1" thick steel capacity
- ✓ High-speed cutting up to 800 IPM
- ✓ Compatible with industry standard G-Code files
- ✓ Multiple torch options available



631-648-7481

www.technocnc.com

BALANCING QUALITY WITH ECONOMY

Since 1986, Techno has provided economical CNC solutions, knowing that good quality cutting is built from the ground up. Our CNC Plasma Cutters feature an extremely heavy-duty steel base frame. It has internal reinforced webbing and hardened steel rails and bearings. This design is extremely rigid, yet, minimizes vibration while increasing accuracy and repeatability.



SMALL INVESTMENT, BIG RETURN

- Improve Cut Quality
- Increase Production
- Decrease Overhead
- Easy to Use and Operate
- Up and Running in Under a Day
- Ships Factory Tested and Assembled

CNC SUPPORT AND SOLUTIONS

At Techno, our customers remain our concern long after their machine ships. We provide **FREE** application assistance and tech support.

- Call: **1-631-648-7481**
- E-mail: **support@technocnc.com**
- Visit us at: **www.technocnc.com**

FEATURES:

- » Heavy-Duty Tubular Steel Frame
- » Precision Linear Rails and Bearings
- » Micro Stepper Control System
- » Automatic Digital Torch Height Control
- » Torch Error Detection (Increases Consumable Life)
- » Automatic Torch Touch Off
- » User-Friendly Hand-Held Controller
- » Backed with over 28 Years of CNC Expertise



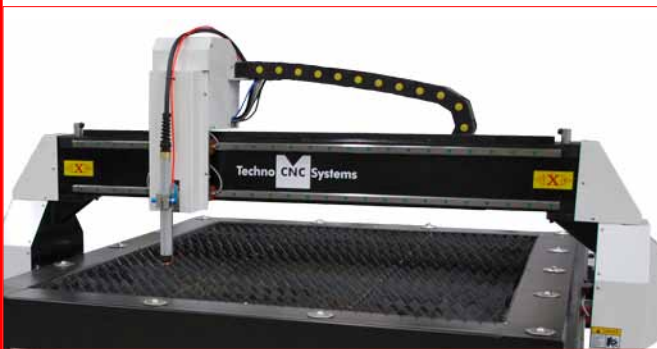
Other Plasma Cut

Techno Plasma Cut



PLASMA BASE DESIGN

Quality cutting starts from the ground up and that is why the Techno CNC Plasma Series is engineered for optimal performance. Our highly-trained staff of engineers use state of the art software that provides mathematical testing of designs, called Finite Element Analysis (FEA). It allows them to analyze load characteristics of the machines components ultimately determining whether material improvements are required to build a better machine or if deductions/different building strategies can be taken to reduce the cost without sacrificing quality. We at Techno go the extra mile to provide a complete system of strength and power while reducing costs. The end result is money saved in our customer's pockets.

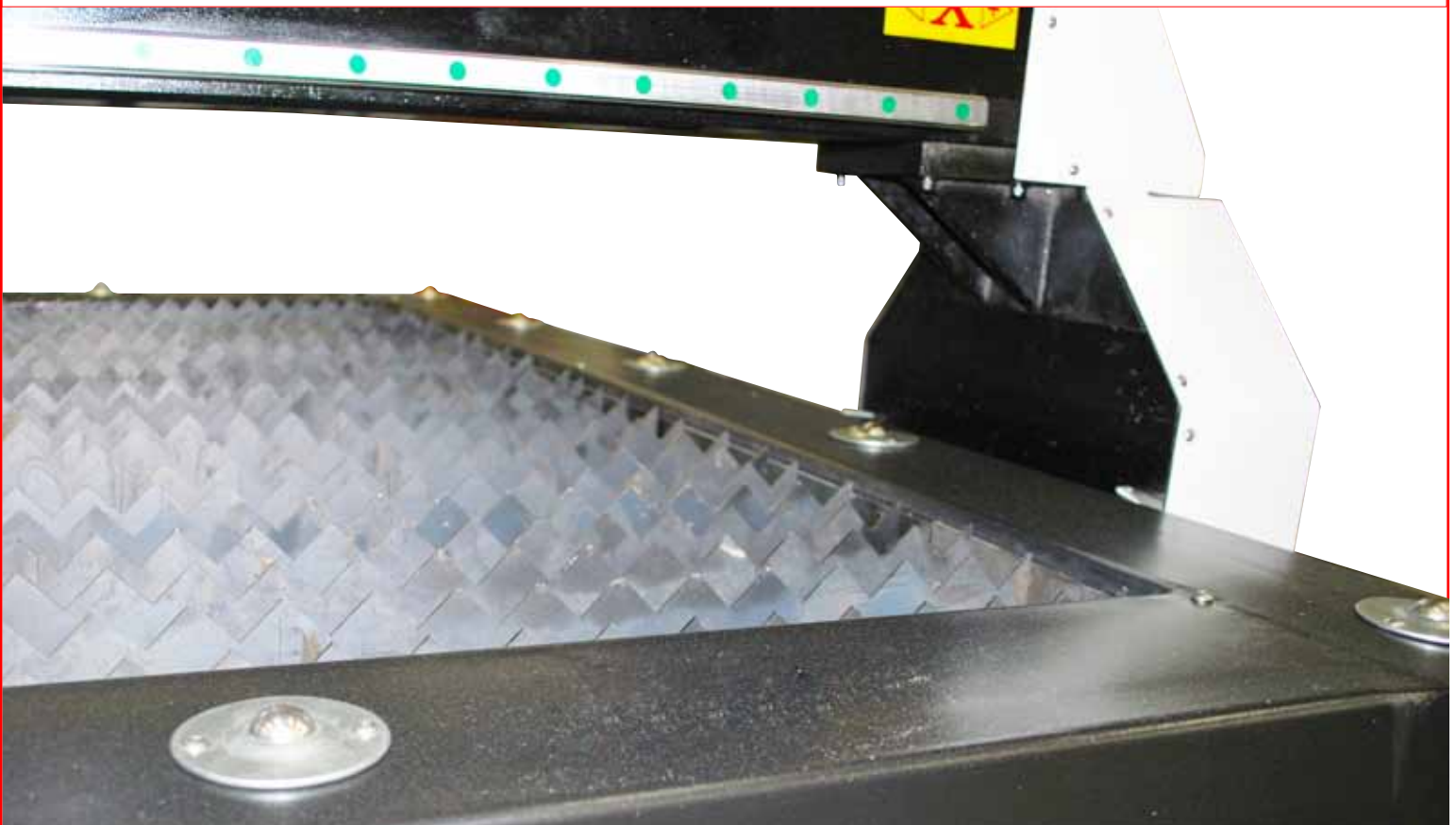


X AXIS CONSTRUCTION

The X axis 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.

GANTRY UPRIGHTS

The Gantry uprights are cast iron with heavy duty gussets formed into the casting. Each support is machined for housing the various drive assemblies including motors, bearings, belts, and wiring harnesses.



PRECISION LINEAR RAILS AND BEARINGS:

Techno refuses to cut any corners when it comes to drive components because, literally, everything is riding on it.

High-quality carriage and rails provide:

- Smooth Play-Free Motion
- Superior Cut Quality
- Minimal Maintenance
- Machine Longevity

On each CNC Plasma Cutter, Techno utilizes four bearing carriages, per axis, on all three axis assemblies. These bearings are capable of carrying loads in excess of 8,000 lbs. per carriage. This structured design assures a long, productive lifetime for every Techno CNC Plasma Cutter.



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

HYPERTHERM POWERMAX PLASMA TORCHES

Techno's CNC Plasma Cutters can be equipped with one of four Hypertherm Powermax Plasma torches. These high-quality torches are designed to cut through Aluminum and Stainless steel cutting applications and each torch can cut through a different material thickness.

Hypertherm Powermax 45 Plasma Torch

Production pierce = 3/8" • Edgecut severance = 1/2"

Requirements: A clean dry non-fluctuating 90psi Compressed air or Nitrogen (required for Aluminum and Stainless steel cutting applications) source.

Input Voltage:

200-240V, 1-PH, 50/60Hz, CSA

230V, 1-PH, 50/60Hz, CE

400V, 3-PH, 50/60Hz, CE

Input Current:

200-240V, 1-PH: 30Amps

230V, 1-PH: 30Amps

400V, 3-PH: 10Amps

Flow Rate and Pressure: 360scfh @ 90psi

Duty Cycle: 50%

More Information on PMX45, visit our Web site!

Hypertherm Powermax 65 Plasma Torch

Production pierce = 1/2 " • Edgecut severance = 1-1/4"

Requirements:.

A clean dry non-fluctuating 90psi Compressed air or Nitrogen (required for Aluminum and Stainless steel cutting applications) source.

Input Voltage:

200-600V, 1/3-PH, 50/60Hz, CSA

230-400V, 3-PH, 50/60Hz, CE

Input Current:

200/208/240/480/600V@ 9kW output

1-PH: 52/50/44/22Amps

3-PH: 32/31/26/27/13/13Amps

Flow Rate and Pressure: 400scfh 6.7cfm @ 85psi

Duty Cycle:

50% @ 65Amps, 230-600V, 1/3-PH

40% @ 65Amps, 200-208V, 1/3-PH

100% @ 46Amps, 230-600V, 1/3-PH

For More Information on PMX65, visit our Web site!



Hypertherm Powermax 85 Plasma Torch

Production pierce = 5/8" • Edgecut severance = 1-1/2"

Requirements: A clean dry non-fluctuating 90psi Compressed air or Nitrogen (required for Aluminum and Stainless steel cutting applications) source.

Input Voltage:

200-480V, 1-PH, 50/60Hz, CSA
200-600V, 3-PH, 50/60Hz, CSA

Input Current:

@ 12.2kW Output
200/208/240/480 V, 1-PH, 70/68/58/29 A
200/208/240/480/600 V, 3-PH, 42/40/35/18/17 A

Flow Rate and Pressure: 400scfh 6.7cfm @ 85psi

Duty Cycle:

60%, @ 85Amps, 230-600V, 3-PH
60%, @ 85Amps, 480V, 1-PH
50%, @ 85Amps, 240-600V, 1-PH
50%, @ 85Amps, 200-208V, 3-PH
40%, @ 85Amps, 200-208V, 1-PH
100% @ 66Amps, 230-600V, 1/3-PH
100% @ 46Amps, 230-600V, 1/3-PH

For More Information on the PMX85, visit our Web site!

Hypertherm Powermax 105 Plasma Torch

Production pierce = 7/8 " • Edgecut severance = 2.0"

Estimated Operating Costs:

1/2" Steel = \$0.63 per linear foot
1/4" Steel = \$0.25 per linear foot
18ga Steel = \$0.12 per linear foot

Recommended gas inlet flow rate / pressure	
Cutting:	217 1/min (460 scfh, 7.7 scfm) @5.9 bar (85 psi)
Gouging:	227 1/min (480 scfh, 8.0 scfm) @4.8 bar (70 psi)

Requirements: A clean dry non-fluctuating 90psi Compressed air or Nitrogen (required for Aluminum and Stainless steel cutting applications) source.

Input Voltage:

200-600V, 3-PH, 50/60Hz, CSA
230V-400V, 3-PH, 50/60Hz, CE

Input Current:

200/208/240/480/600V,
3-PH: 58/56/49/25/22Amps

Flow Rate and Pressure: 550scfh @ 75psi

Duty Cycle:

80%, 400-600V, 3-PH
70%, 230-240V, 3-PH
60%, 200-208V, 3-PH

CSA 200-600 V	70%@105A, 240V,3-PH 80%@105A, 480-600V,3-PH 100%@94A, 480-600V,3-PH 100%@88A, 240V,3-PH
CE 230-400 V	70%@105A, 230V,3-PH 80%@105A, 400V,3-PH 100%@94A, 400V,3-PH 100%@88A, 230V,3-PH
CE 400 V	80%@105A, 400V,3-PH 100%@94A, 400V,3-PH
CCC 380 V	80%@105A, 380V,3-PH 100%@94A, 380V,3-PH

For More Information on the PMX 105, visit our Web site!