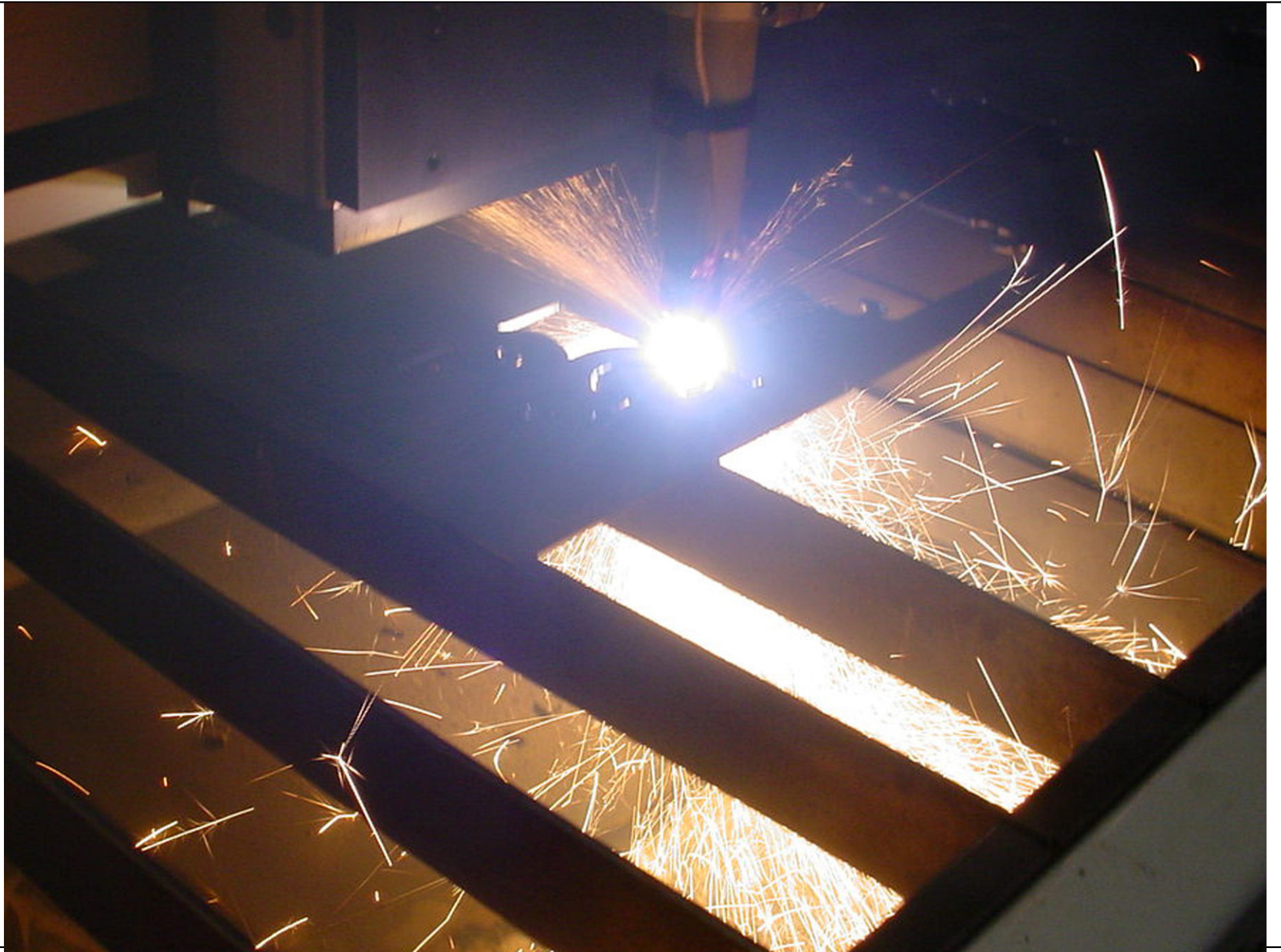


PH ENIX

Phoenix Series CNC Plasma Cutter

The Phoenix Series CNC Plasma Cutter is all steel construction and manufactured using industry high quality components. Key features include THK linear guide rails and bearings, precision helical rack and pinion with precision gear motors directly coupled to the helical pinion.

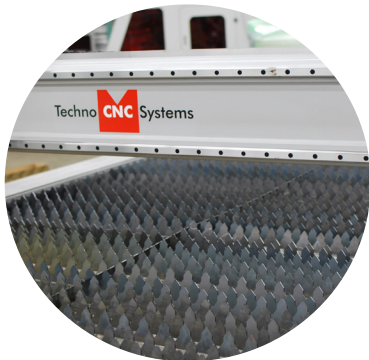




Specifications:

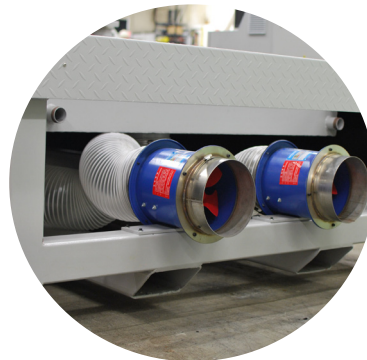
- Available in 4 x 4, 4 x 8 and 5 x 10 stock sizes
- PC based WinCNC Controller
- Brushless micro stepper motors and drives (servo optional)
- Precision Helical Rack-n-Pinion on X and Y axes with ballscrew on the Z axes
- Unique design, easy to learn and operate
- Water table / Steel slats / Down drafts
- All steel construction for rigid platform
- High-speed cutting up to 800 IPM
- Magnetic Torch Break away
- Multiple torch options available

Steel Slats



1/8" thick steel slats provided on 2" centers. The steel slats include center rail supports, in order to handle the heavy loads of the sheet steel.

Smoke Evacuation Fans



The downdraft table is equipped with multiple fans for smoke evacuation and safer production.

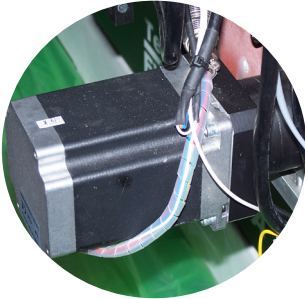
Gantry



The gantry is constructed of tubular steel, which results in a steady firm beam assembly. This quality engineering and workmanship result in smooth precision motion.

Features:

Drive Motors



The Phoenix Series Plasma Cutter utilizes brushless micro-stepper motors. These motors require no regular maintenance, therefore reducing any maintenance downtime.

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.

Drive Train Assembly



The Phoenix Series Plasma Cutter uses precision helical rack and pinion 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, and this assures smooth motion and long term reliability. The precision gearbox is directly coupled to the stepper motor and pinion. This eliminates belt stretch inaccuracies assuring high-speed machining while the system positions the torch accurately

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 the program.

HYPERTHERM POWERMAX PLASMA TORCHES

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

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

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:

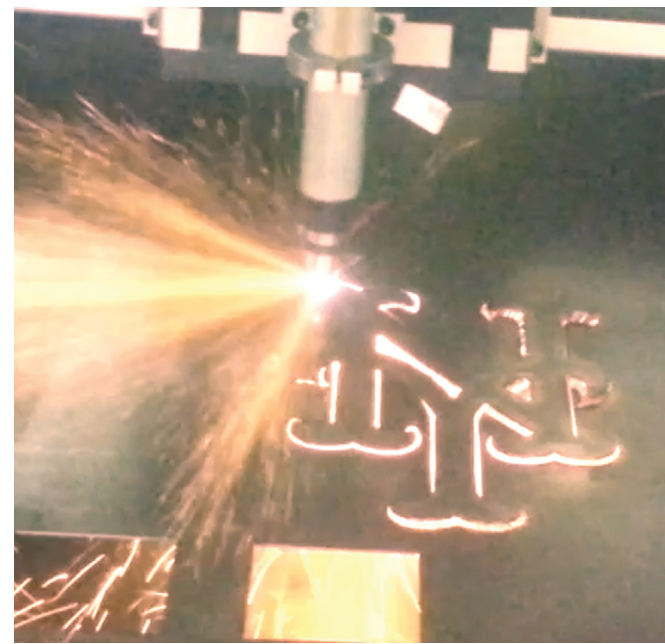
80%, 400-600V, 3-PH

70%, 230-240V, 3-PH

60%, 200-208V, 3-PH



See What the Phoenix Series Can Do



Techno Systems

CNC ROUTERS • CNC PLASMA CUTTERS