

PH^ΩENIX

Techno **CNC** Systems



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PHOENIX

ABOUT OUR PHOENIX PLASMA SERIES



The Phoenix series CNC Plasma machine is all steel constructed, providing a rigid foundation to support heavy plate loads, and delivers ultra-smooth plasma cutting results. The Phoenix Series CNC Plasma can be equipped with a variety of plasma torch power supplies, each one capable of cutting different material thicknesses. The gantry height is 7-1/2", which provides maximum flexibility to cut sheet goods and larger or taller welded assemblies, if desired. The Phoenix Plasma provides the user a choice between a water table or down draft smoke evacuation. The machine includes stainless steel water trays that can be removed if the user chooses downdraft smoke evacuation. The machine drive motors are powerful NEMA 34 sized high speed stepper motors, directly coupled to a precision gearbox assembly and helical pinion for a direct drive advantage. This provides optimum power, speed, and accuracy when cutting thin sheet metal or thicker plate stock. The plasma torch is cradled in an electronic, automatic, torch breakaway module, using a real time CNC torch height control system. The Phoenix Plasma has a PC based industrial controller with a Windows 10 operating system and uses an Ethernet connection for high-speed communication and uninterrupted processing. The system interface is easy to learn, easy to use, and makes the machine operation simple for instructors and students. No other machine on the market includes all of these features and capabilities.

IMPRESSIVE FEATURES

INCLUDES:

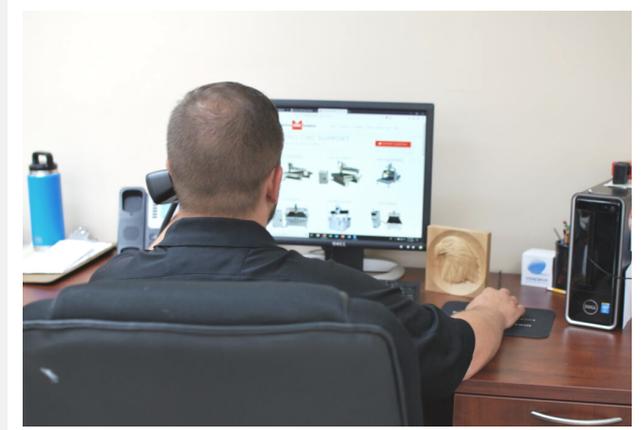
- ✓ Available in 4' x 4', 4' x 8' and 5' x 10' stock sizes
- ✓ Precision Helical Rack-n-Pinion on X and Y axes with ballscrew on the Z axes
- ✓ Brushless drive motors
- ✓ High-speed cutting up to 800 IPM
- ✓ Water table / Steel slats / Down drafts
- ✓ All steel construction for rigid platform
- ✓ Cuts up to 1.5" thick steel capacity

IMPRESSIVE FEATURES

CONSTRUCTION FEATURES

TECHNICAL SUPPORT

Technical support, application engineering assistance, and remote diagnostics is FREE for the life of the machine via telephone, email, and remote logins



STEEL SLATES

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



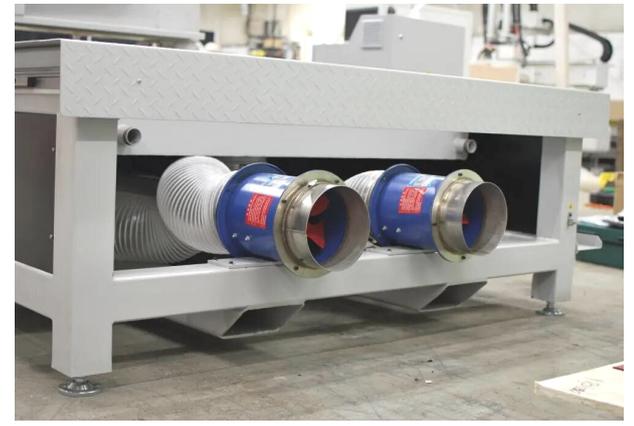
GANTRY

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.



DOWN DRAFT EXHAUST SYSTEM

Techno provide dual fans for downdraft downdraft table. Each fan draws 250 CFM which assure a power smoke evacuation.



WATER TABLE TRAY

Techno provides the best of both worlds, giving the user the choice to use downdraft smoke evacuation or water table. Techno provides stainless steel trays, when filled with water will absorb about 90% of the smoke generated from the cutting.



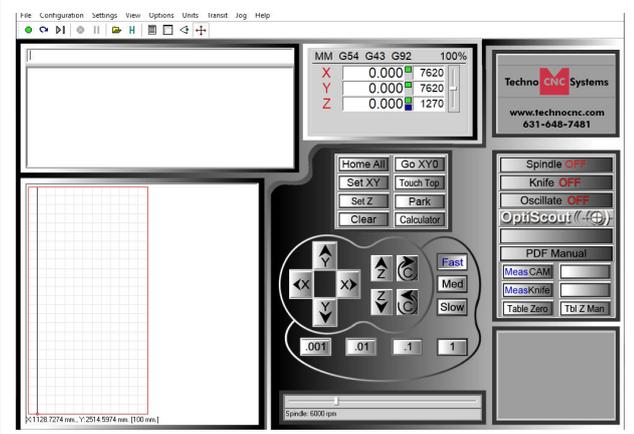
ELECTRONIC TORCH BREAKAWAY

The Phoenix plasma torch is cradled in an electronic, automatic, torch breakaway module, using a real time CNC torch height control system.



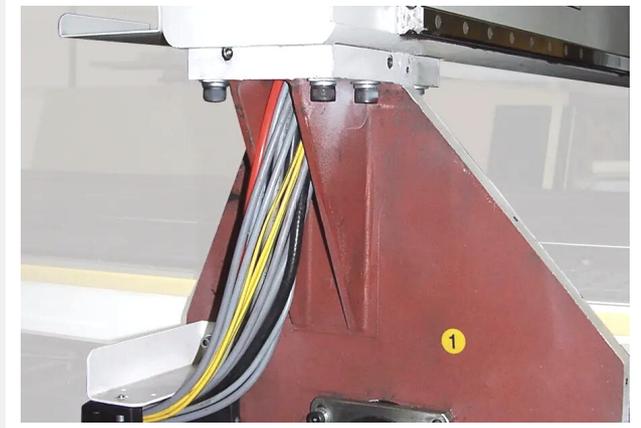
CONTROLLER

The WinCNC interface is a controller system with step jog for fine incremental control, start, stop and pause buttons, single button for safety clearance position, absolute and relative coordinates control, and more.



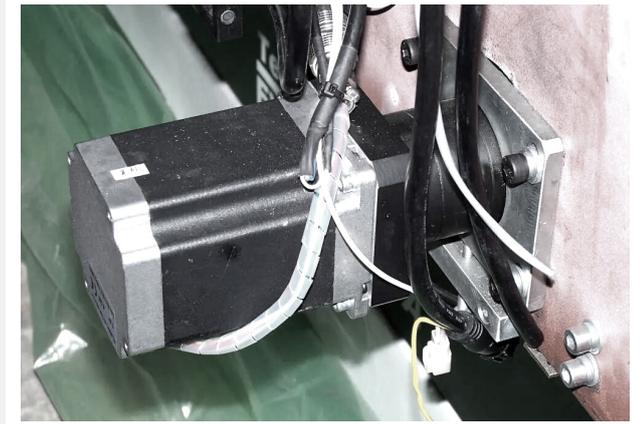
GANTRY UPRIGHTS

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.



MOTORS

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



ELECTRONICS

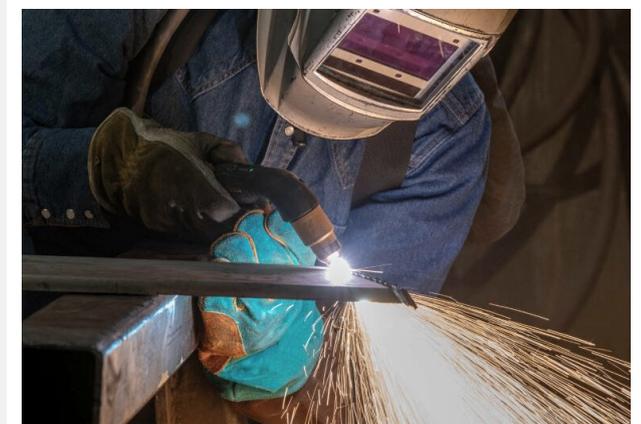
All the electrical components are housed and wired in a doubled-doored Nema 4 electrical enclosure. This allows for easy access and service when needed. All wiring is tagged so that when service is required, the customer can easily navigate the cabinet. In addition, the cabinet serves as a work bench for the tools required the program.



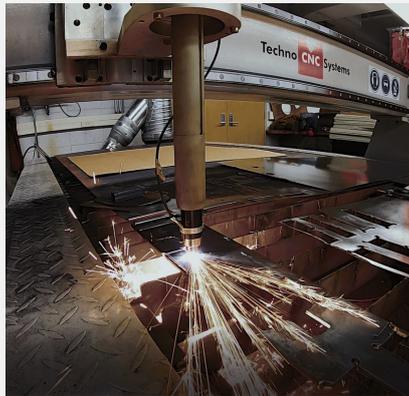
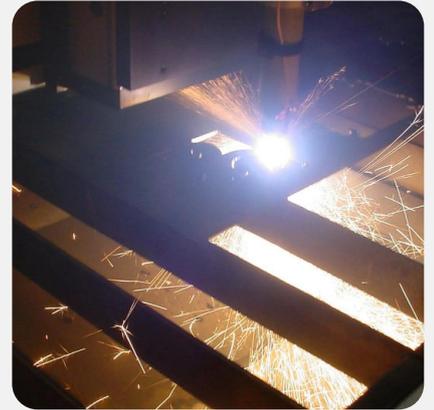
POWERMAX SYNC

A dramatically simplified consumable platform combined with advanced torch communication for automated setup makes Hypertherm's new Powermax65/85/105 SYNC™ plasma systems the smarter choice for any cutting or gouging application.

Techno's auto CNC torch height control, WinCNC control integration is included with the purchase of the Hypertherm SYNC power supply from Techno CNC



GALLERY



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