MAN TECH
Manufacturing Technology

Phantom CNC Plasma

INDUSTRIAL

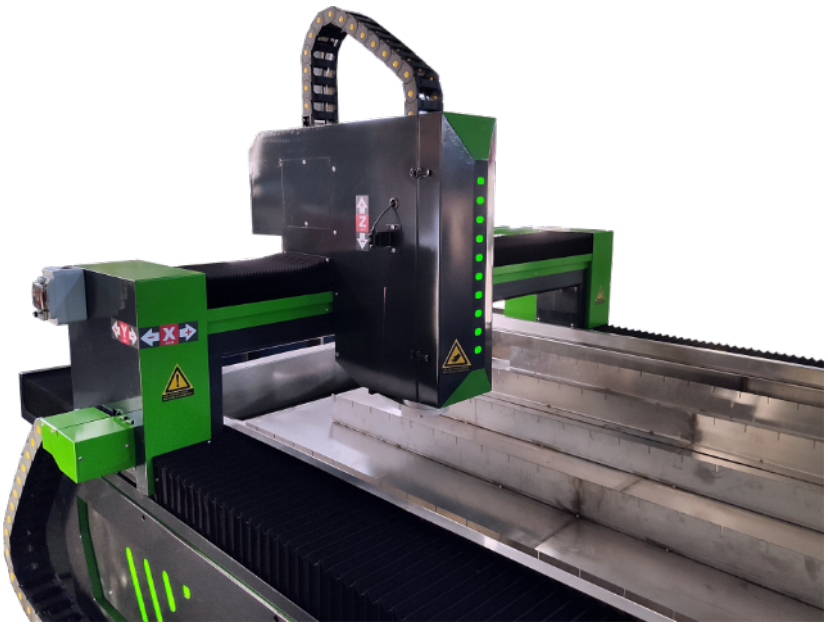
PHANTOM

Hypertherm powermax

Premium 1 year warranty included

CNC PLASMA CUTTING SYSTEM

Machine Overview



Common Industries:

Aerospace
Ship Building
Steel Fabrication
Automotive Engineering
General Fabrication
Heavy Equipment
Pipe, Vessel & Tanks
Offshore Equipment
Rail & Transportation
Agriculture

& Much More...

Our **Phantom CNC Plasma Cutting Tables** give manufacturers the ability to use our whole range of Hypertherm cutting torches in a CAD/CAM environment.

Heavy sheet plate can be placed onto the Phantom by using the integrated roller bearings to aid loading. With it's unrivalled affordability and combined high performance, the Phantom stands as a logical option for many of our customers.

By attaching the **Hypertherm range** of cutting torches (we are also UK distributors for Hypertherm) you can process heavy sheet metals with impressive accuracy and repeatability.

Some of our customers also **combine Plasma Cutting Technology with our range of Fibre Laser Cutting Systems.**

Read on for full specifications and torch options.

High precision metal cutting at affordable prices. The Phantom is a The perfect choice for any fabrication workshop.

Specification

Standard Features & Equipment

Work Table	Stainless steel water tray with quick draining system. Complete with side mount ball transfer rollers for easy plate loading
Drive Motors	Closed loop hybrid drive system
Mechanical Drives	Rack & pinion on X and Y. Reciprocating ball screw on the Z axis.
Torch Control	THC microstep digital torch height control. High speed precision arc voltage control. Fitted with an anti-collision sensors to reduce the risk of torch damage.
Power Max Package	Consiting of a 50ft torch lead with remote on/off switch.
Air Filtration	Filtration kit with 1-micron filter and auto drain moisture separator.
Consumable Kit	Powe Max essential mechanised cutting kit.
Display/control	Electrical cabinet with CNC control and display.
Software	Vectric Cut 2D - CAD design pacakge that can import DWG, DXF, PDF etc. Component nesting for material optimisation.
Delivery	UK mainland included (Offloading and siting of the machine is the end user's responsibility; additional cost option if required). HIAB delivery also available, ask for details.
Installation	Our professional installation team will fully commission your new machine - customer must have the correct electrical/air outputs available (we will advise you on what is required).
Training	Full operational training included, combined with basic software use.
Warranty	1 year standard parts and labour warranty with extended warranty periods available.
Optional Upgrades	

M-TECH Motion Control

M-Tech Motion Control Features

Touch Screen Operation	Control your Plasma CNC via touch operation (including traditional methods such as mouse and keyboard).
Microsoft Windows Based Operating System	Familiar operating environment - easy to use.
Network Capable	Connect the machine to your network - easy transfer files from your design department to the Plasma CNC.
Run Third Party Software	As this is a windows based machine, run other software such as V-carve, directly at the machine.
Wireless Pendant	Control your machine with your wireless pendant for ultimate granular controls. Including custom macro functions assigned to your pendant.
Work-piece Simulation Mode	Get a 3D view of your project and simulate processing just before cutting. Saving on waste materials.
Project Duration	Easily see how long the cutting process will take with accurate time measurements.
Advanced Algorithms	The system constantly reads g-code multiple steps ahead of the actual movement, analysing and adjusting pre the event. Extremely efficient operation.
Integrated Torch Height control	Our motion control system uses an analogue input in order to maintain a fixed height over the material when cutting. Enabling clean accurate cutting over the full lenth of the Plasma table.
G-Code Edit	Enables the user to make alterations to the g-code. Including a jump to line function.

M-TECH Motion Control

Bed sizes

Model	Length	Width
Phantom P14	1400	1400
Phantom P26	2600	1400
Phantom P31	3100	1600
Phantom P20	3000	2000
Phantom P40	4000	2000

Dimensions

Model	Length	Width	Height
Phantom P14	2870	2250	1650
Phantom P26	4070	2250	1650
Phantom P31	4670	2450	1650
Phantom P20	5000	3050	1650
Phantom P40	6000	3050	1650

PHANTOM CNC PLASMA

Hypertherm Torches

Hypertherm plasma systems are trusted and used by more businesses and people than any other brand of cutting torch. **With over 50 years in the industry** this US based business knows a thing or two about plasma cutting torches.

Mantech are UK partner distributors for Hypertherm, selling full range of plasma torches and consumables. Should you have a specific requirement that is not listed on our website, please get in touch with one of our representatives.

Standard Torch Options

Model
Power Max **45 Amp**, Max thickness for piercing 12mm (Single Phase 240V AC)
Power Max **65 Amp**, Max thickness for piercing 18mm (Edge Start 25mm)
Power Max **85 Amp**, Max thickness for piercing 20mm (Edge Start 30mm)
Power Max **105 Amp**, Max thickness for piercing 22mm (Edge Start 35mm)
Power Max **125 Amp**, Max thickness for piercing 25mm (Edge Start 40mm)

Powermax45

Powermax65

Powermax85

Powermax105

Powermax125