FLASHCUT PLUS 4015

CNC Plasma Cutting Machine – 4000 x 1500 mm

**ISO9001:2008
ISO4001:2008
OHSAS18001:2001
CERTIFIED**

PPT - HUGONG

Hugong Electric Group is a leading company, focused Fiber Laser, Plasma, Oxy and Welding CNC Cutting Equipment.

With over 40 years of welding experience and 60 plus years in cutting equipment.

PPT support will have you covered right from

- **Concept & project design**
- **Supply, commissioning & installation**
- **Full technical training,**
- **To servicing and warranty support**

Throughout the life of your equipment purchase

FEATURES

- Affordable and simple to operate
- Solid welded steel structure table body to ensure durability and precision plus ease of location.
- Dual driving system on Y axis, linear bearing, rack and pinion, servo drive for accuracy
- Compatible with MaxPro200 plasma power sources
- Water pool cutting table
- Plasma and Oxy cutting options
- Hypertherm Edge Connect with in-built shape manager
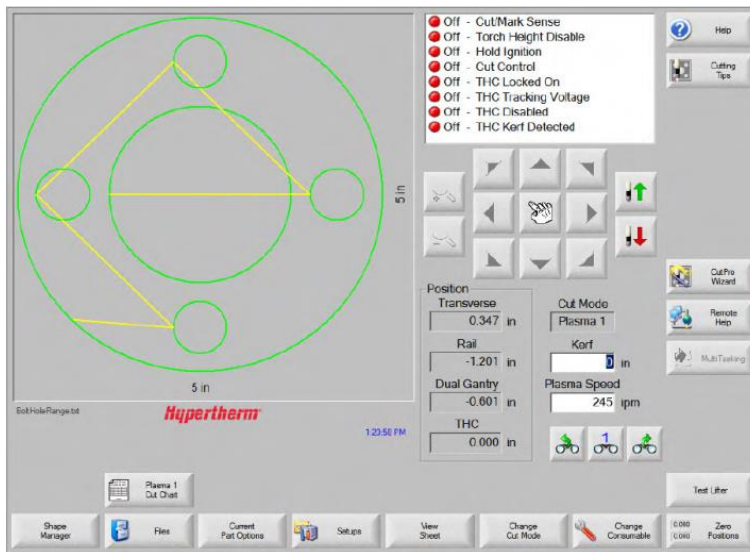- 17" touch screen interface to controller

Nesting Software Options

SPECIFICATIONS

Design and Operation Specification	
Plasma power source	Hypertherm PMX 125, MaxPro200, HPR , XPR300
Machine structure & operation	Longitudinal drive is via dual drive servos
	Rail and beams are unique in design & operation
	Strong steel structure which endures long working life
CNC controller	Hypertherm Edge Connect Controller
CNC monitor	17" Touch Screen
Drive system - Rail- Y axis	Dual drive, Panasonic AC Servo motors
Drive system - Transverse- X axis	Panasonic AC Servo motors
Gear box	Neugart high-performance gear box
Rail on X and Y	Linear rails with lubrication system
Torch Height Controller (THC)	Automatic THC with Panasonic AC Servo
Nesting software – FastCAM	FastCAM CAD CAM Software for Plasma and Oxy. It is a total NC solution for 2D steel shape nesting and cutting;
	FastCAM allows people at a shop floor level to start profile cutting with the minimum of training.
	The FastCAM System has been designed to draw, nest and cut metal as simply and efficiently as possible.
	FastCAM can read or convert DXF, DWG, DSTV/NC1, StruCAD, IGES and PDF file formats.
	Provides additional functions such as Kerf compensation, plasma bridge, common line cutting, CAD layers etc.
	Ease of use is as important as the high levels of materials utilization and optimization the software provides.
Dust Extraction	Water pool
Parts collection trolley	Included with the machine
Bellow covers	
Emergency stops	
Limit switches	
Torch collision retraction system	
Ohmic sensing	
Laser pointer for easy positioning	

CNC CONTROLLER- HYPERTHERM EDGE CONNECT

EDGE Connect offers many new software features, enhanced hardware, and field-based system configuration capabilities.

- Hypertherm's Phoenix® version 10 CNC software
- Touch screen
- Microsoft Windows 10 embedded operating system
- ProNest® CNC automatic nesting with process optimization
- Internal software Programmable Logic Controller (PLC) and soft- ware-based operator's console that enable unique cutting machine features
- EtherCAT machine interface for easy connectivity and superior motion

BENEFITS

- Phoenix CNC software improves cut quality and productivity by delivering our expertise directly to your factory, making it as if you have your best operator on every shift.

- Using the patented CutPro® Wizard, even new operators can be ready to cut production parts in less than five minutes

- On-screen Software Operator's Console (Soft OpCon) for easy setup and operation of cutting station and manual motion

- Integrated communications with plasma and torch height control systems deliver automated and expert control using installed factory or custom cut charts

- ProNest® CNC software enables users to obtain optimal cut quality for nested part programs created using EDGE® Connect. Through the touch screen interface, machine operators can conveniently create nested part programs without extensive training. Pattern Array Nesting for a single

part with process optimization included. Directly import DXF, DWG and CNC simple shapes.

- High-speed digital EtherCAT machine interface and communications with single wire connectivity

- Solid state hard drive with no moving parts for increased data access speed and reliability

- EDGE® Connect CNCs are configured in the field with software specific to the cutting machine application. This allows for easy set-up, changes, and upgrades.

WATER TABLE

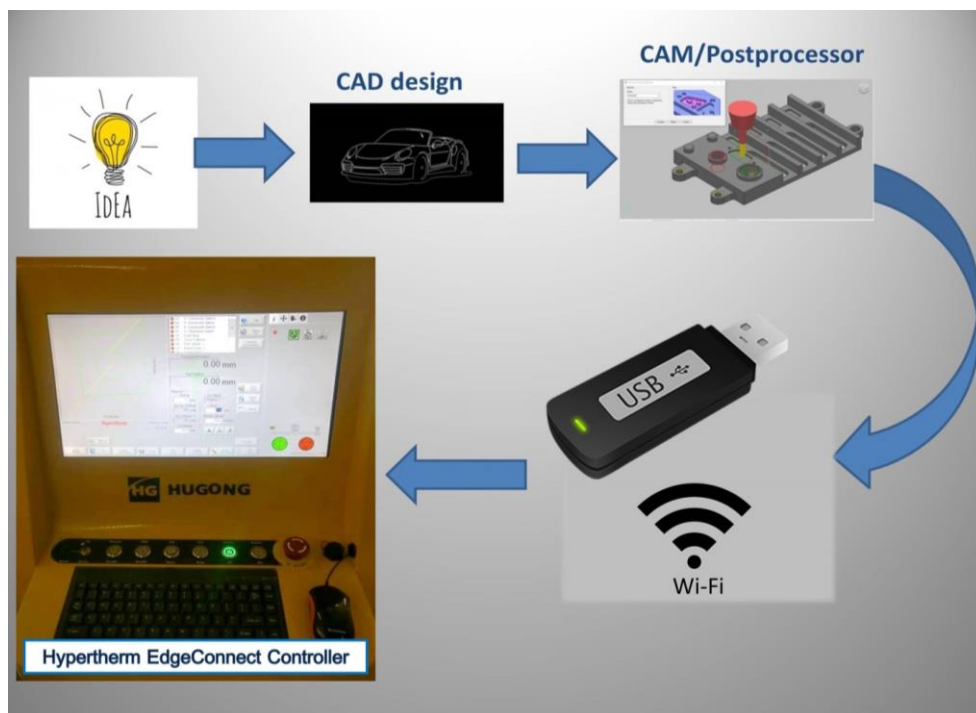**Effective sheet cutting size - 4000mm long x 1500mm wide**

Water Table

- Water tray for efficient control of sparks and fumes
- Steel splash guards for side rail protection
- Large drain and tap for quick and easy emptying

INSTALLATION & ON-GOING SUPPORT

- Shipped fully tested ex Otahuhu
- Simple to install with a single truck delivery
- Minimal on-site setup
- Training to meet requirements
- Plasma consumable and spares supply
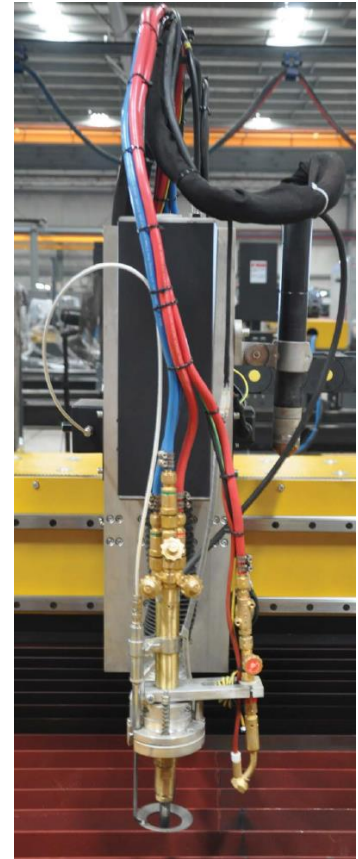- Remote Wi-Fi connection would be installed

PROCESS OF LOADING FILES

PLASMA POWER SOURCE OPTIONS

Two options are available
1. Hypertherm MaxPro200
2. Hypertherm PMX125

Addition of an Oxy Flame Cutting Torch

Oxy Flame Cutting Torch supplied as an optional item. To operate for the occasion cutting of mild steel with a thickness of greater than 40mm a changeover provides CNC oxy flame cutting.

Plasma Torch with Oxy Flame in standby. This is the normal plasma cutting setup illustrating a single torch slide that offers fully cutting width on a high quality linear rail system.

Note: Linear rails have a bellow cover to reduce duct contamination.