

SELMACHTM
MACHINERY

Making Metal Work



ECP Compact CNC Plasma Cutting Machine

The Morgan Rushworth ECP Compact CNC Plasma cutting machines have been especially designed for simple but accurate cutting of sheet and plate material and are fitted with an operator friendly LYNCA-CNC controller supplied together with Libellula auto nesting software. These heavy duty models are equipped with the class leading Hypertherm Powermax power source utilising single gas plasma technology. The result is a high quality machine delivering low initial and operating costs, high productivity, superior cut quality and unsurpassed reliability.



**WATCH THE
MACHINE IN
ACTION**



The ECP is equipped with an intuitive CNC controller which provides access to the part programs, shape libraries and has a separate control interface which includes a joystick for jogging, start, stop etc. The controller is rich in functionality including full monitoring of the cutting process, in built library of parameters for common thickness's etc. and the ability to change cut parameters for a part program once loaded onto the CNC.

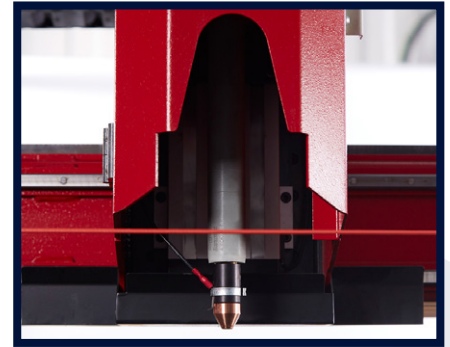
The ECP has a very heavy-duty table and gantry with a compact bed size of 3m x 1.5m. It has a solid welded structure with the rack and pinion having a linear guidance system providing excellent accuracy and alignment. The rails are of a modern design which includes protection and distance from the cutting process ensuring longevity and accuracy.



ECP PLASMA MECHANICAL EXTRACTION ZONE



ECP PLASMA LYNCA-CNC CONTROLLER



ECP PLASMA POWERMAX CUTTING HEAD



EXTRACTION / FILTRATION SYSTEM (OPTIONAL)

The optional extraction and filtration system can be used to extract smoke and fumes from the plasma table during cutting. This is especially important for cutting aluminium, where the dust and fumes can be explosive if not handled correctly.

Machine Features

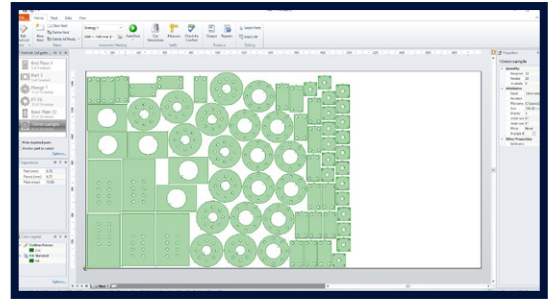
- Hypertherm Powermax 45/65/85/105 plasma unit for single gas cutting
- Air or Nitrogen cutting
- LYNCA-CNC controller
- Automatic torch height control
- Torch collision protection system
- Automatic ventilation and smoke extraction system ready to be connected to a filtration system
- Positioning speed 15 m/min
- Positioning accuracy +/- 0.01mm
- LMT 25mm high accuracy linear rail
- High quality Eisele gearbox
- ESA AC digital servo motors and drivers
- Gudel helical rack and pinion system
- Libellula auto nesting software

Optional Equipment

- Water table in lieu of extraction table
- Extraction / filtration system

ProNest® LT (formerly known as TurboNest®) is a powerful CAD/CAM part nesting software designed for light industrial, mechanized cutting in production environments. It is praised for its ease of use, built in design tools and automatic nesting. Allowing you to higher quality parts, and increase productivity. The software also features:

- Advanced Part Design and Development
- CAD/CAM import and conversion
- Fast, easy job setup
- SureCut™ technology and built-in process enterprise
- Interactive manual nesting
- Detailed reporting
- Simplified costing



PRONEST SOFTWARE



HYPERTHERM POWER SOURCES

Plasma Sources

The ECP Plasma utilises Hypertherm's market leading Plasma Powersources, utilising either the PowerMax or MaxPro systems. Available to be used as handheld cutters, these highly durable systems can also be the power source for cutting tables too.

The PowerMax is available in a variety of Amperages, and is an air-only system and the MaxPro 200 is a long life, heavy-duty system, which can utilise air, oxygen or nitrogen plasma gas, for maximum capacity and quality.

Duramax Cutting Torch

Duramax full-length machine torches work with a wide variety of CNC cutting tables, track cutters, and pipe-cutters. Mini machine torches are perfectly suited for lighter tables and pipe cutting situations where the full-length torch is too long.



AN ECP PLASMA INSTALLED ON-SITE WITH ONE OF OUR CUSTOMERS

TECHNICAL SPECIFICATIONS

BED SIZE			ECP 1530/65	ECP 1530/85	ECP 1530/105	ECP 1530/200
Capacity from Pierce	Mild Steel	mm	16	20	20	32
	Stainless	mm	12	16	20	20
	Aluminium	mm	12	16	20	20
Capacity from Edge Start	Mild Steel	mm	25	30	40	50
	Stainless	mm	20	25	32	20
	Aluminium	mm	20	25	32	20
Table Width		mm	1500			
Table Length		mm	3000			
X Axis Stroke		mm	1550			
Y Axis Stroke		mm	3050			
Z Axis Stroke		mm	150			
Table Height		mm	800			
Table Loading		kg/m ²	750			
Length		mm	4420			
Width		mm	2350			
Height		mm	1710			
Weight		kg	2250			