

# SELMACH<sup>TM</sup>

MACHINERY

Making Metal Work



## SPM CNC Tube Plasma Cutting Machine

The Morgan Rushworth SPM Tube Plasma profiling system is a highly innovative machine combining the low-cost benefits of mechanised air plasma cutting with CNC automation and nesting. With the ability to profile up to 300mm diameter round tube at 12 metres long, the SPM has the capability for most common tube working requirements. Combined with the durable and recognised Hypertherm Powermax system, the SPM automates many manual processes into one seamless CNC designed and controlled cutting operation.





**HYPERTHERM PLASMA TORCH & OPTIONAL ENGRAVING TOOL**

## Machine Features

- Multi part nesting on a bar for optimized material usage
- Removes many traditional manual functions – sawing, cropping, grinding, notching, punching, drilling etc CNC accuracy; No errors or need to rework
- Tube Plasma cutting capability up to 12m length x 300mm diameter
- Hypertherm Powermax Plasma Source 45a – 105a
- Automated 4 Jaw Chuck & Feed carriage assembly from 3 to 12 metres
- Linear motion & rack & pinion movement
- Fully automated cutting process
- Centralising through-feed chuck at cutting station
- 12" Touchscreen CNC Control allowing import and storage of cut files plus design of cut parts on the control
- Fully CE protected operation cabin using Light beams
- Automatic Torch height control
- Automatic Pipe Support on infeed
- Data import by USB & network

## Optional Equipment

- Marking
- Water Flush
- Support Roller – Outfeed



**4 JAW CHUCK**



**12" B&R INDUSTRIAL PLC CONTROLLER**



**LINEAR MOTION AND RACK & PINION MOVEMENT**

## TECHNICAL SPECIFICATIONS

MODEL		SPM 150	SPM 220	SPM 300
Round Tube	mm	150	220	300
Square Tube	mm	100	150	200
Maximum Part Weight	kg	150	250	500
Maximum Feed	mm/sec	125	250	250
Part Length up to	m	3, 6 or 9	3, 6, 9 or 12	6, 9 or 12
Drive		Servo stepper	Servo synchronous motor	Servo synchronous motor
Gear / Rack		Hardened and ground	Hardened and ground	Hardened and ground
Loading		Manual	Manual	Manual
Front Gate Drive		N/A	Optional	Optional
4 Jaw Chuck	mm	160	200	250
Control System		12" B&R Industrial PLC	12" B&R Industrial PLC	12" B&R Industrial PLC