

AIR-WORKS

Plasma Quick Cut Machine Model PQC 3015



- 1500mm x 3000mm worktable equipped with easily replaceable vertical sheet supports with individually divided exhaust zones.
- The integral exhaust duct, which runs the length of the table, is equipped with one mechanical register for each zone. Only two registers are open at one time to minimize the amount of air removed by the exhaust system. This results in substantial energy and heat costs savings.
- Should the torch collide, will it simply move out of the holder and is easily replaceable without loss of position. This removal system also enables quick and easy adjustment and replacement of consumables.
- Optimally positioned drive system for high stability and precision with sealed servo motors, with optically insulated encoder axis feedback.
- NEE AMC4 CNC control positioned ergonomically directly on the bridge.
- Hypertherm Powermax plasma unit.
- High precision linear bearings.
- Mono block design ensures easy installation and stability in operation.
- Small footprint - No foundation required - Low maintenance costs.
- Rack and pinion drives to X- and Y-axis.

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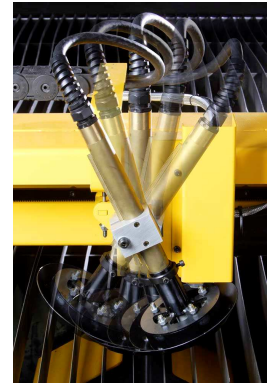
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CNC Control Capabilities

- NEE AMC4 CNC Control
- Industrial-grade keyboard
- Manual speed increase/decrease override
- Kerf compensation
- Graphic machine status display
- Scale up/down
- Part rotation
- Shape repeat
- Acceleration control
- Current limiting drives for safety
- Automatic corner slow down
- Automatic plate rotation for skewed plates
- Encoder feedback for positioning
- Tacho feedback for smooth contour programming



AMC4 CNC Controller with graphic display



Torch ANTI-COLLISION System

SPECIFICATIONS

Cutting Table	Maximum sheet size: 1500mm x 3000mm Maximum weight: 750kg Table height: 850mm Maximum sheet thickness: 6mm for Hypertherm Powermax 600 Maximum sheet thickness: 12mm for Hypertherm Powermax 1000
Cutting Speeds	0.3 to 11m/min depending on sheet metal thickness Max. positioning speed 20m/min
Exhaust volume Requirements	4500 m ³ /hour.
Hypertherm	Powermax 600: 100% duty cycle at 40 Amps output Powermax 1000: 100% duty cycle at 60 Amps output
Optional output	Cutting Table size: 1500mm x 6000mm Hypertherm Powermax 1250. Maximum sheet thickness: 16mm. 100% duty cycle at 80 Amps output Hypertherm Powermax 1650. Maximum sheet thickness: 19mm. 100% duty cycle at 100 Amps
Control Panel shielded.	<ul style="list-style-type: none"> • Optically isolated RS232C IO port. • 32-bit RISC processor. • DC servo power supply rated at 40V, 15A. • 50V sealed motor encoder and tacho for reliable dust-free operation. • All cabling shielded. • Machine control meets all requirements for European safety category no. 3
Electrical Requirements	Plasma-Transformer 3 phase, 400V, 50Hz CNC-Control 1 phase, 230V, 50Hz, 10A
Compressed air	6,2bar 170 l/min; Clean, Dry and Oil free.
Dimensions	(L x W x H) 4300mm x 1800mm x 1250mm
Weight	1680kg