

PIPELINER MPS 4000



PROGRAMMABLE POWER SOURCE FOR MULTI-PASS ORBITAL GMAW/FCAW PIPE WELDING

The MPS 4000 is a digital inverter power source for GMAW/FCAW process welding applications. The integral weld head controller operates all Pipeliner weld head models. The MPS 4000 provides synergic control of electrode speed and power output – the welder has only to change electrode speed and the power supply will adaptively change the output parameters to maintain a stable process.

- Generates high quality welds
- Automatic arc length control
- Simple to understand programming
- Extreme rugged design
- Can be operated by non-qualified/
non-English speaking labor
- Push-pull system ensures
positive wire feeding

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AUTOMATIC PIPE WELDING SOLUTIONS

PIPELINER MPS 4000

SYNERGIC OPERATION

Of electrode speed/power output.

400 AMP OUTPUT

AUTORANGING POWER INPUT

Eliminates all internal modifications.

CART WITH BOTTLE RACK

FACTORY OPTIMIZED STORED PROGRAMS

For most materials.

INTEGRAL SWITCH

Prevents welding without torch gas flow.

COOLANT RECIRCULATOR

Coolant recirculator with integral flow switch protection.

SPECIFICATIONS

Application	For use with all Pipeliner GMAW/FCAW process weld heads
Functions controlled	Power module power output (standard and pulsed) Electrode feed speed Weld head rotation Weld head torch oscillation (linear standard, pendular optional) Weld head electronic cross-seam adjustment Weld head arc gap control
Internal memory capability	80 synergic programs / 99 single point (voltage/wire speed) programs
MPS 4000 power source	
Output rating	400 A @ 50% duty cycle, 320 A @ 100% duty cycle
Max. open circuit voltage	70 V
Cos phi/efficiency	0.99 / 88%
Input power requirements (Rated load)	Volts – 200/230/400/460 (autoranging); amperes 35 A; KVA 12.7; frequency 50/60 Hz
Degree of protection	IP23
Type of cooling	AF (forced Air)
Insulation class	F
Applicable electrical standards	IEC 974-1 (IP-23S); CSA; EMC 89/336/EEC; EN 60 974-1
Model 712 weld head controller	
Pendant cable length	7.6 m (25'). Extension cables available
Degree of protection	IP23 (Excluding Remote Pendant)
MPS 4000R water circulator	
Pump	Centrifugal
Cooling capacity	2000 – 2300 W (at 20 EC/68° F)
Max. delivery capacity/pressure	3.5 liters/min (0.9 gal/min) at 4.2 bar (60 psi)
Coolant volume	5.54 liters (1.46 gallons)
Degree of protection	IP23
MPS 4000 wire feeder	
Drive type	4 roll (various groove geometries available)
Wire diameter	0.8 – 1.6 mm (0.03 – 0.62")
Wire feed speed	0.5 – 22 m/min (20 – 866 ipm)
Degree of protection	IP23

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