



Lightning S

Hypertherm
True Hole Capable Machine

Precision Plasma & Flame Cutting

The new Lightning S machines offer unparalleled precision and cutting performance from a rail based machine due to the innovative linked rail concept which increases machine rigidity. Lightning S is optimised for precision plasma cutting up to 400A and can be fitted with up to six oxy-fuel flame cutting torches. Cutting width can be specified from 1.5m to 3m and cutting length can be up to 20m. Precision linear bearings, direct rack & pinion transmission and digital AC brushless drives produce smooth accurate motion resulting in the highest cut quality. Integrated safety features such as the sliding safety system, spark screens ensure operator safety.



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Lightning S



Design Features

- ✔ Precision fabricated and machine frame ...*Robust machine*
- ✔ Multiple plasma & flame cutting torches ...*Maximum productivity*
- ✔ Range of sizes to suit many applications ...*Flexible*
- ✔ Low level, precision linked rails ...*High rigidity, stability & accessibility*
- ✔ Integrated cable chain handling ...*Reduced tripping hazards*
- ✔ Powerful digital AC brushless drives ...*High dynamic performance*
- ✔ Direct drive rack and pinion transmissions ...*Accuracy & repeatability*
- ✔ Ball screw digital torch height control ...*Best cut quality*
- ✔ Laser pen pointer for plate positioning and alignment ...*Easy set up*
- ✔ Unique perimeter safety system ...*Safe working area*
- ✔ Hypertherm True Hole capable ...*The best plasma cut holes*

Lightning S Applications

- ✔ Steel service centres
- ✔ Machinery manufacture
- ✔ Yellow goods manufacture
- ✔ Offshore infrastructure
- ✔ Agricultural machinery
- ✔ Mining equipment manufacture
- ✔ HGV trailer manufacture
- ✔ Skip & waste handling equipment
- ✔ Fork truck manufacture
- ✔ Structural steel
- ✔ Marine industry

Innovative Design Features Giving High Performance

MicroEDGE Pro CNC

The MicroEDGE Pro CNC incorporates all the latest technology for optimised machine performance and ease of use when plasma cutting or flame cutting. The Ethernet digital on-machine network ensures the very best contouring performance for accurate parts. The intuitive user interface and on-screen wizards allow even inexperienced operators to achieve great results. Closely integrated with plasma and flame cutting systems, the MicroEDGE Pro facilitates maximum productivity.

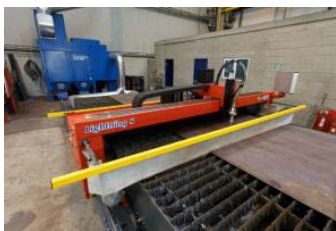


HyPerformance HPR XD Plasma

HyPerformance Plasma cuts fine feature parts with superior quality and consistency, virtually eliminating the cost of secondary operations. Available in four sizes, the HPR XD plasma cutting systems cover all applications. Cutting mild steel, stainless steel and aluminium from gauge to 50mm and beyond, the HPR XD units produce high quality, consistent results over the life of the consumables. HyPerformance plasma delivers unprecedented cutting speed & quality.



The Lightning S machines offer unparalleled precision and cutting performance due to the innovative linked rail concept which increases machine rigidity. Lightning S is optimised for precision plasma cutting and can be fitted with up to six oxy-fuel flame cutting torches.



Lightning S machines have integrated safety systems and spark guards for enhanced operator protection. Cable chain handling system is integrated into the machine to eliminate trip hazard.

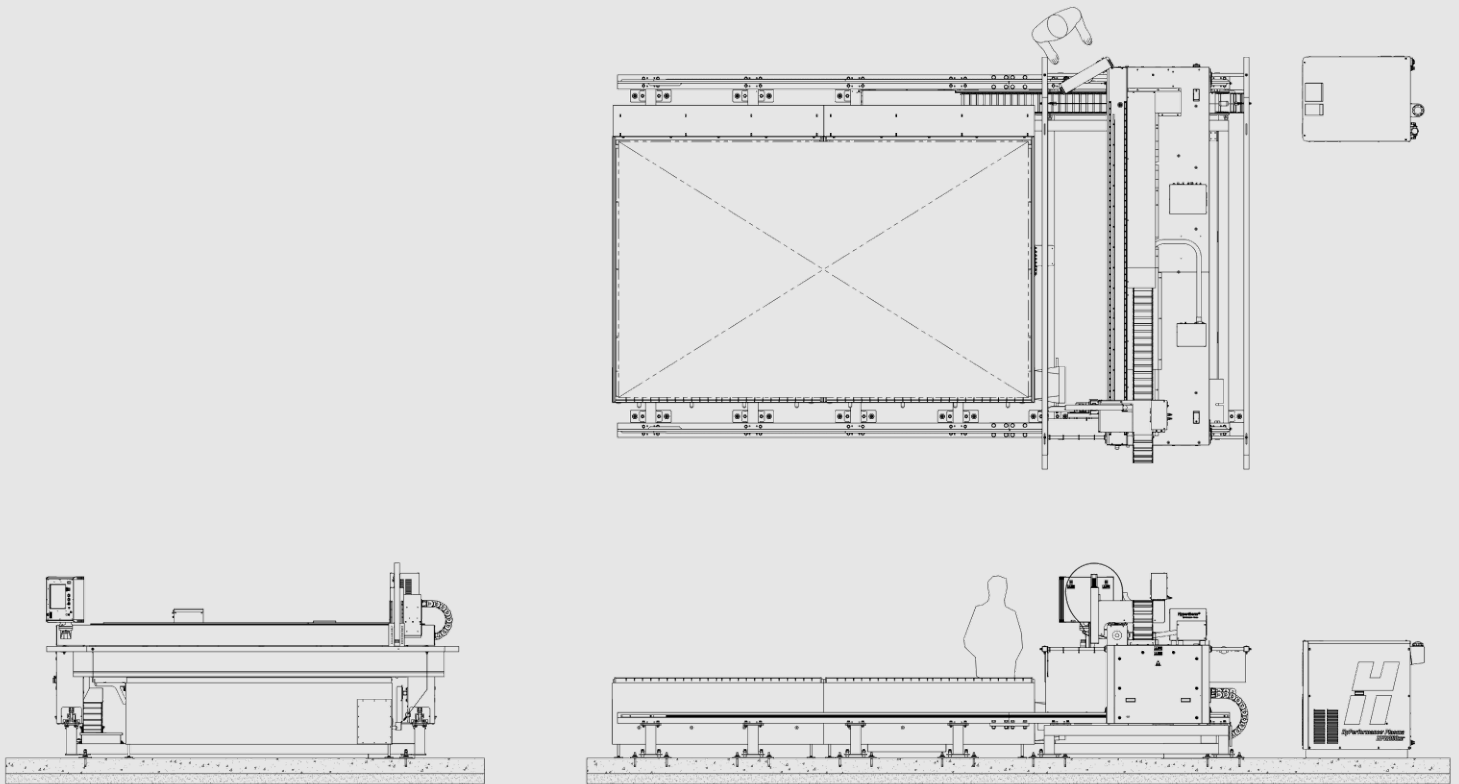
End-on operator position offers improved protection and better ergonomics. Electrical control panel is integrated into the machine gantry producing a clean and tidy look.

Innovative linked rail design combined with heavy duty precision rails produces high machine rigidity which translates to precision cutting at high plasma cutting speeds.

Plate marking for part numbers, bending lines or marking out for assembly is available on the Lightning HD; Arc marking or Pin-matrix marking are available.

Lightning S Machine Options

- ✔ HPR130XD - 16 mm dross free mild steel cutting
- ✔ HPR260XD - 32 mm dross free mild steel cutting
- ✔ HPR400XD - 38 mm dross free mild steel cutting
- ✔ Full range of Hypertherm plasma
- ✔ Oxy-fuel flame cutting - 300 mm
- ✔ Bed sizes 3 x 1.5 m to 20 x 3 m
- ✔ Up to 6 cutting torches
- ✔ High speed pin matrix marking
- ✔ Single or twin torch capacity
- ✔ Procut CAD/CAM software



DESIGN SPECIFICATIONS

Nominal Cut Width	As per machine denomination (e.g. Lightning S1500 = 1,500 mm)
Nominal Cut Length	Variable in 1,000 mm increments
Rail Length	Nominal Cut Length + 2,000 mm
Overall Width	Nominal Cut Width + 1,532 mm
Overall Length	Nominal Cut Length + 2,665 mm
Overall Height	1,905 mm
Maximum Traversing Speed	25 m/min

POWER REQUIREMENTS

Input Voltage (U_1)	230 V / 1 Ph / 50 Hz / Earth / Neutral
Input Current (I_1)	3 - 5 A
Input Power ($U_1 \times I_1 \times \sqrt{3}$)	0.7 - 1.2 kVA
Recommended Fuse Size	16 A
Recommended Cable Size	2.5 mm ² 3 core SY Control Flexible Cable



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