



Lightning D

Hypertherm®
True Hole Capable Machine

Compact and Cost Effective Precision Cutting

Lightning D machines cover a wide range of applications. Manufactured as a single fabricated structure the Lightning D has an integral segmented fume-extraction cutting table. Lightning D machines can be specified with a range of plasma cutting systems including HyPerformance HPR XD, HSD130 and the full range of Powermax plasma cutting systems. Available in a range of sizes from the baby 2.5x1.25m machine up to 8mx2m, the flexible Lightning D offers precision cutting and high productivity. Linear bearings and direct-drive rack and pinion transmissions in both axes combined with Digital AC brushless drives and the EDGE Pro CNC deliver smooth accurate cutting from gauge to 25mm.



Esprit Automation Ltd
Placketts Mill, Church Drive
Sandiacre, Nottingham
NG10 5EE, United Kingdom

Tel: +44 (0) 115 939 1888
Email: info@espritautomation.com

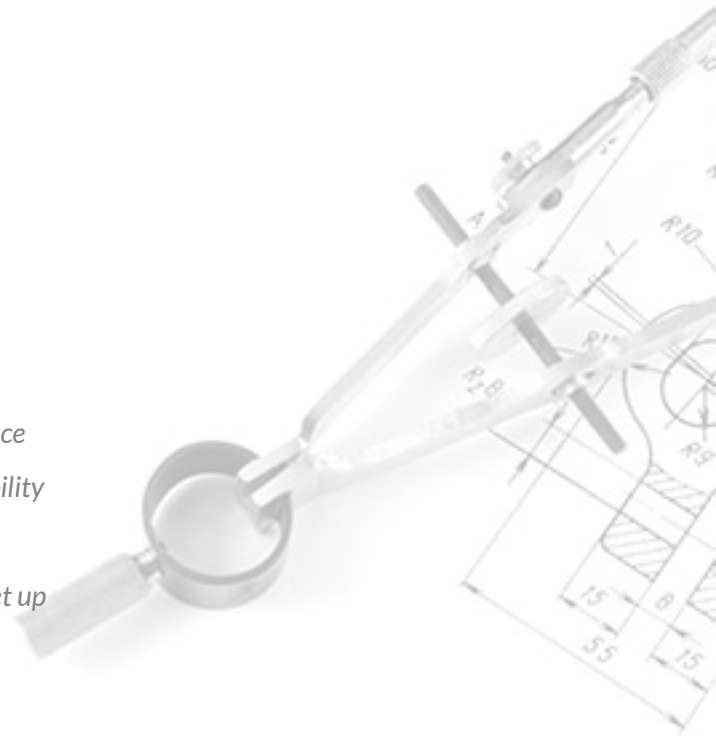


Lightning D



Design Features

- ✔ One piece fabricated & machined frame ...*Stable & accurate*
- ✔ Compact design ...*Small footprint*
- ✔ Machine tool grade linear bearings in all axes ...*Smooth motion*
- ✔ Integral segmented cutting table ...*Clean working area*
- ✔ Integral cable chain handling system ...*Long term reliability*
- ✔ Powerful digital AC brushless drives ...*High dynamic performance*
- ✔ Direct drive rack & pinion transmissions ...*Accuracy & repeatability*
- ✔ Ball screw digital torch height control ...*Best cut quality*
- ✔ Laser pen pointer for plate positioning and alignment ...*Easy set up*
- ✔ Range of standard sizes ...*Flexible*
- ✔ Hypertherm True Hole capable ...*The best plasma cut holes*



Lightning D Applications

- ✔ Lintel manufacture
- ✔ Agricultural machinery
- ✔ HVAC ductwork
- ✔ Flue & chimney manufacture
- ✔ Pipework
- ✔ Sheet metalwork
- ✔ Specialist vehicles
- ✔ Fork truck manufacture
- ✔ Light/medium fabrication
- ✔ Fan manufacture

Engineered For Precision & Performance

EDGE Pro CNC

The EDGE Pro CNC incorporates all the latest technology for optimised machine performance and ease of use. The Ethernet digital on-machine network ensures the very best contouring performance for accurate parts. The intuitive user interface via the 15" colour touch screen and on-screen wizards allow even inexperienced operators to achieve great results. Closely integrated with the HPR XD plasma systems, the EDGE Pro exploits plasma's full potential.



LongLife Air & Oxygen Plasma

Hypertherm LongLife Air & Oxygen plasma cutting systems offer heavy duty high productivity capability with oxygen cut quality. HySpeed and MAXPRO200 systems have patented LongLife consumable technology which gives dramatically longer consumable life than competitors and much lower operating costs. Systems in the range include the HySpeed HSD130 – a 130A system with the fastest cut speeds in its class.



Lightning D machines cover a wide range of applications. Manufactured as a single fabricated structure they have an integral segmented fume-extraction cutting table and can be specified with a range of plasma cutting systems.



Lightning D machines are shipped as a single piece fabricated bed and can quickly be installed and in production.



Lightning D Series machines are fitted with a rigid torch protection system to minimise damage in the event of a torch collision.



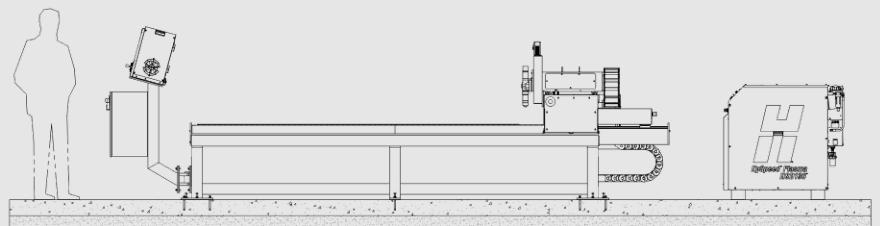
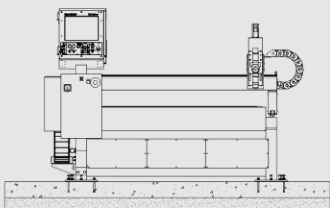
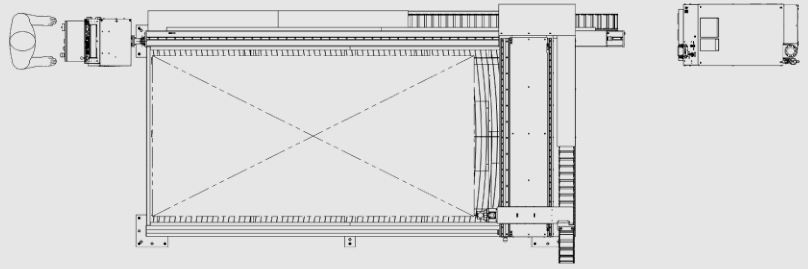
Plate-rider torch height control can be specified with the Lightning D machine for high speed sheet cutting.



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

Lightning D Machine Options

- ✓ HPR130XD – 16 mm dross free mild steel cutting
- ✓ Auto or manual gas console
- ✓ HSD130 - 16 mm dross free mild steel cutting
- ✓ Powermax - Up to 25 mm mild steel cutting
- ✓ Bed sizes 3 x 1.5 m to 8 x 2 m
- ✓ 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 D1500 = 1,500 mm)
Nominal Cut Length	3,000 mm, 4,000 mm & 6,500 mm
Nominal Cut Height	700 mm
Overall Height	1,695 mm
Extraction Outlet Size	496 mm wide x 219 mm high aperture
Maximum Traversing Speed	40 m/min

OVERALL DIMENSIONS (mm)

		D1500	D2000
3,000 mm	Width	2,415	2,915
	Length	5,277	5,277
4,000 mm	Width	2,415	2,915
	Length	6,277	6,277
6,500 mm	Width	2,415	2,915
	Length	8,817	8,817

POWER REQUIREMENTS

Input Voltage (U_1)	230 V / 1 Ph / 50 Hz / Earth / Neutral
Input Current (I_1)	2.7 A
Input Power ($U_1 \times I_1 \times \sqrt{3}$)	0.6 kVA
Recommended Fuse Size	16 A
Recommended Cable Size	2.5 mm ² 3 core SY Control Flexible Cable



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