

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
Maximum Loading Capacity	25 mm mild steel plate
Overall Height	1,695 mm
Extraction Outlet Size	496 mm wide x 219 mm high aperture
Maximum Traversing Speed	25 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

WEIGHT (kg)

	D1500	D2000
3,000 mm	1,890	-
4,000 mm	-	2,605
6,500 mm	2,415	3,555

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 x I ₁ x √3)	0.6 kVA
Recommended Fuse Size	16 A
Recommended Cable Size	2.5 mm ² 3 core SY Control Flexible Cable

GAS REQUIREMENTS

Gas	Quality	Pressure	Flow Rate
Air	Clean, dry, oil-free	620 kPa (90 psi)	Negligible

EXTRACTION RATE (m³/h)

	D1500	D2000
≤130 A	2,000	2,700
200 A	2,700	3,600





INFO

Information included on this datasheet is for standard ESPRIT Lightning D installations, i.e. Single Plasma Arc Cutting Systems up to a cut length of 6.5 m. For larger systems, complex installations or refurbished machines, contact the ESPRIT Engineering Department for details.

Actual cut width is dependent on the configuration and number of torch carriages fitted to the system. Additional carriages will reduce cut width. Contact the ESPRIT Engineering Department for details.

A space of at least 500 mm is recommended between the system and any obstruction for safety and to allow proper access for maintenance. The floor must be made from concrete at least 150 mm thick and be firm and level to within ± 15 mm over the length of the machine.

When specifying a suitable filtration system or fume extraction fan it is important to take in to account pressure losses through the system. ESPRIT recommends the use of centrifugal fans as they generate large differences in pressure and can produce airflows against considerable resistance. Axial fans are not suitable.

Please consult your local supplier for more information and compliance with Local Exhaust Ventilation (LEV) regulations.

