



Powermax125® vs ESAB Cutmaster™ 120

The Powermax125 wins with:

- Increased productivity with faster cut speeds and more output power (kW).
- Better consumable life on rated thicknesses.
- Faster cut speeds, especially on thicker materials.
- Smart Sense™ technology for automatic gas adjustment and end-of-electrode life detection.
- 100% duty cycle at full output.
- Proven Hypertherm reliability.

	Powermax125	ESAB Cutmaster 120	
POWER			
Output current	20-125A	20-120A	
kW output	21.9	15.4	The Powermax125 has much greater output power, resulting in faster cut speeds and greater productivity for the user.
CAPACITIES			
Recommended capacity	38 mm	40 mm	The Powermax125 provides greater productivity with faster cut speeds. Although ESAB claims equal or greater cut capacities for the Cutmaster 120, they define those ratings at much lower speeds than Hypertherm does.
Severance capacity	57 mm	55 mm	
Pierce capacity	25 mm	25 mm	
CUT SPEEDS* (mm/min)			
12 mm	2972	2540	The Powermax125 is significantly faster than the Cutmaster 120, especially on thicker materials.
20 mm	1140	660	
25 mm	953	813	
32 mm	635	356	
LIFE			
Consumable life strip cuts, 25 mm	334	178	The Powermax125 completes almost twice as many 30 cm strip cuts per consumable set than the Cutmaster 120.
Number of pierces with 50 mm cuts	300 on 25 mm	N/A	The Powermax125 passes our 300 pierce testing protocol on 25 mm steel.
VOLTAGE			
CE configurations	400 V CE, 3-ph	400V, 3-ph	
Duty cycle	100%	40%	The Powermax125 has a 100% duty cycle at full output for maximum cutting output.

Powermax125		ESAB Cutmaster 120	
TORCH TECHNOLOGY Hand torches	Duramax Hyamp series 85° or 15° hand torches	SL100 hand torch	The Duramax Hyamp series torches include the rugged and ergonomic 85° hand torch for standard cutting and gouging. Use the 15° hand torch for improved gouging ability and to cut in tight spaces. Or choose one of several styles of long torches. For mechanized cutting, choose a standard or a short-barrelled machine torch. Or choose one of the Duramax Hyamp Robotic torches for robotic applications. Switch torches in seconds with the one-button FastConnect torch connection.
Machine	Duramax™ series full-length or mini machine torches and 45°, 90°, and 180° Duramax Robotic torches	SL100	
MECHANIZED FEATURES	Five Duramax Hyamp series machine torch options; Optional factory-installed 50-to-1 voltage divider; Machine interface cable; Remote ON/OFF pendant; optional serial interface port; Optional FineCut consumables	SL100SV machine torch, CNC interface option, voltage divider option	The Powermax125 has the options to meet every mechanized application need. Duramax Hyamp Robotic torches are specifically designed for robotic applications. Multiple styles of interface cables, three choices of work leads, and a multi-position voltage divider option make the Powermax125 ideal for mechanized cutting.
WARRANTY	Power supply=3 years	Power supply=3 years	Powermax systems have a well-deserved reputation for reliability.
	Torch=1 year	Torch=1 year	

*Cut speeds and consumable life data are the results of Hypertherm's laboratory testing on a mechanized system. Actual speeds and consumable life will vary based on handheld versus mechanized cutting, the specific cutting application, environmental conditions, and other factors.