



Powermax125[®]

CSA	Powermax125	ESAB ESP-150	Thermal Dynamics A120	Comments
POWER				
Output current	30–125 A	25–150 A	30–120 A	The Powermax125 is built for performance with a 100% duty cycle and nearly 22 kW of power at the torch.
kW output	21.9 kW	Not published	15.4 kW	
Duty cycle at full output	100% @ 125 A	90% @ 150 A	80% @ 120 A	
HIGH FREQUENCY	No	Yes	No	High frequency cutting can interfere with other shop equipment.
CAPACITIES				
Recommended	1-1/2" @ 18 ipm 1-3/4" @ 10 ipm	Up to 2"	1-1/4" @ 15 ipm	Using only shop air, the Powermax125 comfortably cuts in the same range as the higher-amperage, dual-gas ESP-150. For mechanized customers, the 1" pierce capacity is best in class.
Severance	2-1/4" @ 5 ipm	2-1/2"	2"	
Pierce	1"	1/2"	3/4"	
MAXIMUM CUT SPEEDS				
1/2"	117 ipm	75 ipm	84 ipm	Faster cut speeds equal greater productivity.
3/4"	60 ipm	50 ipm	31 ipm	
1"	37 ipm	30 ipm	26 ipm	
DRAG CUTTING	Yes	No	To 60 amps	Patented shield technology allows Powermax users to drag-cut at full output.
GOUGING MODE	Yes, 27.1 lbs/hr	No	No	The Powermax125s gouging mode automatically adjusts the air pressure for the application.
GAS CONTROL				
Autogas	Yes	No	No	Smart Sense technology automatically adjusts the gas pressure based on cutting mode and lead length.
Smart Sense™ technology	Yes	No	No	
TORCH TECHNOLOGY				
Available torches	Duramax™ Hyamp torch styles for every cutting and gouging need	PT-26, 70°, 90°, or mechanized	SL100SV	In addition to 85° and 15° hand torches, full length, mini, and robotic machine torches, new Duramax Hyamp Long torches are perfect for scrapping, cutting table skeletons, and other hard-to-reach applications. (Available Q1, 2014.)
Trigger lock	Yes	No	Yes	
Torch connection	FastConnect™ with Smart Sense™ technology	Tools required	Quick disconnect	Electrode end-of-life detection protects the torch and workpiece from damage by automatically stopping power when the electrode is overused.
Electrode end of life detection	Yes	No	No	
VOLTAGE				
CSA configurations	480 V, 3-PH 600 V, 3-PH	230/460/575 V, 3-PH	208/230–460 V 1/3-PH, 400 V 3-PH, 600V 3-PH	A wide voltage tolerance provides a range of 408–576 V for the 480 V model.
Voltage tolerance	+20 / -15% (600 V CSA +10 / -15)	Not published	+/- 10%	
WEIGHT WITH TORCH	106 lbs	766 lbs	63 lbs	
OTHER	Quick disconnect work lead (3 styles), control panel with LCD, standard CPC port, FineCut [®] consumables available	Standard CNC interface, standard leather torch lead cover		

Competitive information and data taken from testing conducted at Hypertherm and published competitor literature.