Hypertherm®

Powermax125®

Professional-grade plasma metal cutting and gouging system for handheld cutting 1½" and mechanized piercing 1".

Capacity	Thickness	Cut speed
	Cutting	
Recommended	1-1/2"	18 ipm
	1-3/4"	10 ipm
Severance (hand cutting)	2-1/4"	5 ipm
Pierce*	1"	
	* Pierce rating for handheld use or wi	th automatic torch height control
Capacity	Metal removal rate	Groove profile*
	Gouging	

Capacity	Metal removal rate	Groove profile*	
	Gouging		
Typical gouge	27.6 lbs/hr	0.17-0.31" D x 0.24-0.39" W	
	* Actual groove profile varies with tor	ch angle, arc stretch, and technique	

Maximum productivity

- Finish jobs faster with cut speeds 5 times greater than oxyfuel on 1/2" mild steel.
- Spend less time on grinding and edge preparation due to superior cut and gouge quality.
- Maximize your cutting time with 100% duty cycle.

Low operating costs

- Reduce costs with consumable life up to four times longer than other systems in this amperage range.
- Electrode end-of-life detection protects the torch and workpiece from damage by automatically stopping power when the electrode is overused.

Easy-to-use for cutting and gouging

- No need to change the air pressure. Smart Sense™ technology ensures that it is always correctly set.
- Tackle different jobs with multiple, easy-to-use torch styles.

Built and tested to withstand the harshest conditions

- Duramax™ Hyamp torches are designed for high-impact and heat resistance.
- SpringStart™ technology ensures consistent starting and a more reliable torch.
- · Low maintenance maximizes uptime.



Duramax Hyamp standard torch styles (for more torch options, see www.hypertherm.com)

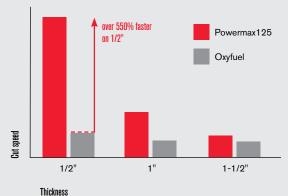








Relative cut performance on mild steel



Specifications

оресписацию	
Input voltages	480/600 V, 3-PH, 50/60 Hz
Kilowatt output	21.9 kW
Input current @ 21.9 kW	480/600 V, 31/24 A
Output current	30-125 A
Rated output voltage	175 VDC
Duty cycle @ 104° F	100% @ 125 A, 480/600 V, 3-PH
Open circuit voltage (OCV)	320 VDC
Dimensions with handles	23.3" D; 10.8" W; 20.0" H
Weight w/25' torch	480 V 105.7 lbs 600 V 104.7 lbs
Gas supply	Clean, dry, oil-free air or nitrogen
Recommended gas inlet flow rate/pressure	Cutting: 260 l/min (550 scfh) @ 5.9 bar (85 psi) Gouging: 212 l/min (450 scfh) @ 4.1 bar (60 psi)
Input power cable length	10'
Power supply type	Inverter - IGBT
Engine drive requirement	40 kW for full 125 A output
Certifications	CSA-certified for use in the Americas and Asia, except China.
Warranty	Power supplies have a 3-year warranty and torches a 1-year warranty.



Ordering information
Below are the standard system configurations, which include a power supply, torch and work cable.

		85° hai	nd torch		nd 15° torch			180° full-length machine torch				
		25'	50'	25'	25' 50' 25'			50'			50'/25'	
Power supplies	Voltage configuration			ren	hout note dant	with remote pendant	without remote pendant	with I/O cables (no pendant)	with remote pendant	without remote pendant	with I/O cables (no pendant)	with remote pendant
Power supply	480 V	059536	059537	059538	059569	059539			059540			059541
with CPC port and voltage divider	600 V	059546	059547	059555	059570	059552			059553			059554
Power supply with	480 V						059542	059544		059543	059545	
CPC port, voltage divider, and serial port	600 V						059550	059548		059551	059549	



Custom configurations (select power supply, torch, consumable kit, work cable, and other components)

Power supply options

	Power supply with CPC port and voltage divider	Power supply with CPC port, voltage divider, and serial port
480 V CSA	059488	059489
600 V CSA	059509	059510

Starter kit consumable options

	Handheld	Mechanized	Mechanized with ohmic retaining cap
Kit	428099	428100	428101

Torch options

	Hand t	orches	Machine	e torches	Robotic torches			Long torches			
Cable length	85°	15°	180°	Mini 180°	45°	90°	180°	2', 45°	2', 90°	4', 45°	4', 90°
15'			059519	059514							
25'	059492	059495	059520	059515	059564	059565	059566	059562	059563	059567	059568
35'			059521	059516							
50'	059493	059496	059522	059517				059579	059580	059581	059582
75'	059494	059497	059523								

Cable options

		Work cables		Control cables						
Cable length	Hand clamp	C-style clamp	Ring terminal	Remote pendant	CNC, spade connector, divided voltage	CNC, spade connector, no divided voltage	CNC, D-sub connector, divided voltage	RS-485 Serial comm, unterminated	RS-485 Serial comm, D-sub	
25'	223292	223298	223295	128650	228350	023206	223048	223236	223239	
50'	223293	223299	223296	128651	228351	023279	123896	223237	223240	
75'	223294	223300	223297	128652						

Torch consumable parts

Nozzles and electrodes are available in various quantities. Contact your distributor for more information.

Consumable type	Torch type	Amperage	Nozzle	Shield/ Deflector	Retaining cap	Swirl ring	Electrode	
		45	420158	420172				
Drag-cutting	Hand	65	420169	420172	220977	220997	220971	
		125	220975	420000				
		45	420158	420168				
Mechanized	Machine	65	420169	420168	220977 or 420156¹	220997	220971	
		125/105	220975	220976				
FineCut®	Hand	45	420151	420152	220977 or 420156 ¹	420159	000071	
FilleGat	Machine	40	420101	420132	220977 OF 420130	220997	220971	
Couging	Hand	30-125	420001	420112	220977	220997	220971	
Gouging	Machine	JU-120	420001	420112	220911	220997	220971	

¹ Ohmic retaining cap

Recommended Hypertherm genuine accessories



Hyamp™ deluxe circle cutting quide

Quick and easy setup for accurate circles up to 28" diameter. For use with the Powermax125®. Made in USA

017053 Hyamp deluxe kit



Air filtration kit

A ready-to-install kit with a 1-micron filter and an auto drain moisture separator protects against contaminated air. Made in USA

228890 Filter plus cover for Powermax105/125

011092 Replacement filter element for Eliminizer

101215 Cover only for Powermax105/125



Leather torch sheathing

Available in 25' sections, this option provides additional protection for torch leads against burn-through and abrasion.

024548 Brown leather 024877 Black leather with Hypertherm logos



System dust covers

Made from a flame-retardant vinyl, a dust cover will protect your Powermax system for years. Made in USA

Greener

127360 Cover, Powermax125



Wheel/gantry kits

Complete, pre-assembled kits for added mobility or mounting on a cutting table gantry.

229467 Powermax105/125 wheel kit

229570 Powermax105/125 gantry kit



Hyamp cutting and gouging gloves

Insulated for heavy duty applications. Fire resistant goatskin leather and suede. Padded areas for extra heat and abrasion protection.

Made in USA

017025 Medium

017026 Large

017027 X-Large

017028 2X-Large

Engineered and assembled in the USA

ISO 9001:2008

Environmental stewardship is a core value of Hypertherm. Our Powermax products are engineered to meet and exceed global environmental regulations including the RoHS directive.

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