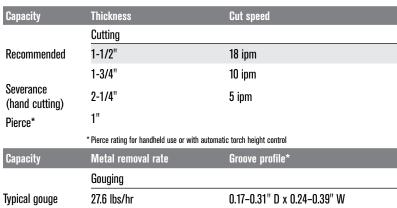
Hypertherm[®]

Powermax 125®

Professional-grade plasma metal cutting and gouging system for handheld cutting 1.5" and mechanized piercing 1".



Maximum productivity

 Finish jobs faster with cut speeds 5 times greater than oxyfuel on 1/2" mild steel.

* Actual groove profile varies with torch angle, arc stretch, and technique

- 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 for maximum uptime



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

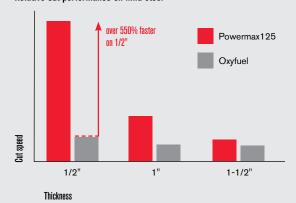








Relative cut performance on mild steel



Specifications

opecinications	
Input voltages	480/600 V, 3-PH, 50/60 Hz
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 (40° C)	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	400V 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 I/min (550 scfh) @ 5.9 bar (85 psi) Gouging: 212 I/min (450 scfh) @ 4.1 (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° har	nd torch		nd 15° torch	180° full-length machine torch					180° full-length machine torch and 85° hand torch	
		25'	50'	25'	50'		25' 50'					50'/25'
Power supplies	Voltage configuration			without remote pendant		with remote pendant	without remote pendant	with I/O cables (no pendant)	with remote pendant	without remote pendant	with 1/0 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	059555 059570				059553			059544
Power supply with CPC port, voltage	480 V						059542	059544		059543	059545	
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 torches Machine to			e torches	ı	Robotic torche:	S 1	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								

¹ Available Q1 2014.

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 420156 ²	220997	220971	
		125/105	220975	220976				
FineCut®	Hand	45	420151	420152	220977 or 420156 ²	420159	220971	
Tilleout	Machine	45	420131	420132	220377 01 420130	220997	220971	
Causing		30-125	420001	420112	220977	220997	220971	
Gouging	Machine	30-123	420001	420112	720911	220991	220971	

² Ohmic retaining cap

Recommended Hypertherm genuine accessories

- Hypertherm plasma cutting gloves, 127169
- Powermax125 wheel kit, 229467
- Powermax125 gantry kit, 229570
- System storage dust cover, 127360
- Eliminizer filter and cover, 228890
- Replacement filter element for Eliminizer, 011092
- Torch lead cover, black, 024877



Wheel kit







System dust cover



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

Greener

Greener

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