Hypertherm[®]

Powermax125®

Professional grade plasma metal cutting and gouging system for handheld cutting 38 mm and mechanized piercing 25 mm.

Capacity	Thickness	Cut speed						
	Cutting							
Recommended	38 mm	457 mm/min						
	44 mm	250 mm/min						
Severance (hand cutting)	57 mm	125 mm/min						
Pierce*	25 mm							
	* Pierce rating for handheld use or with automatic torch height control							
Capacity	Metal removal rate	Groove profile*						
	Gouging							
Typical gouge	12,52 kg/hr	4,3 mm-7,9 mm D x 6,1 mm-9,9 mm W						
	* Actual groove profile varies with torc	h angle, arc stretch, and technique						

Maximum productivity

- Finish jobs faster with cut speeds 5 times greater than oxyfuel on 12 mm 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 for maximum uptime.



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

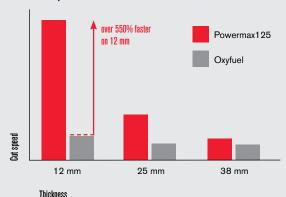








Relative cut performance on mild steel



Specifications

Specifications	
Input voltages CCC	380 V, 3-PH, 50/60 Hz
CE	400 V, 3-PH, 50/60 Hz
Input current @ 21,9 kW	380 V, 3-PH, 38 A 400 V, 3-PH, 36 A
Output current	30–125 A
Rated output voltage	175 VDC
Duty cycle @ 40° C	100% @ 125 A, 380/400 V, 3-PH
Open circuit voltage (OCV)	380 V CCC 290 VDC 400 V CE 305 VDC
Dimensions with handles	592 mm D; 274 mm W; 508 mm H
Weight w/7,6 m torch	380 V 45,2 kg 400 V 48,9 kg
Gas supply	Clean, dry, oil-free air or nitrogen
Recommended gas inlet flow rate/pressure	Cutting: 260 I/min @ 5,9 bar Gouging: 212 I/min @ 4,1 bar
Power supply type	Inverter - IGBT
Engine drive requirement	40 kW for full 125 A output
Certifications	CE, C-Tick, CU/GOST, Ukr, and Serbian — for use in Europe, Australia, Belarus, Kazakhstan, Russia, Serbia, Ukraine, and other countries where accepted. CCC for use in 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. Additional mechanized configurations are listed on our web site.

			5° torch	85° ai hand	nd 15° torch	180° full-length machine torch						180° full-length machine torch and 85° hand torch
		7,6 m	15,2 m	7,6 m	15,2 m	7,6 m 15,2 m					15,2 m/7,6 m	
Power supplies ¹	Voltage configuration				nout note dant	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 with CPC	380 V CCC	059556	059557			059558						059559
port and voltage divider	400 V CE	059526	059527	059528	059572	059530			059531			059529
Power supply with CPC port, voltage divider, and serial port	380 V CCC						059560			059561		
	400 V						059532	059534		059533	059535	

¹ Does not include a power cord.



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				
380 V CCC	059490	059491				
400 V CE	059486	059487				

Does not include a power cord.

Starter kit consumable options

			Mechanized with
	Handheld	Mechanized	ohmic retaining cap
Kit	428099	428100	428101

Torch options

	Hand t	orches	Machine	ine torches Robotic torches²			Long torches ²				
Cable length	85°	15°	180°	Mini 180°	45°	90°	180°	0,6 m, 45°	0,6 m, 90°	1,2 m, 45°	1,2 m, 90°
4,5 m			059519	059514							
7,6 m	059492	059495	059520	059515	059564	059565	059566	059562	059563	059567	059568
10,7 m			059521	059516							
15,2 m	059493	059496	059522	059517				059579	059580	059581	059582
22,8 m	059494	059497	059523								

² Available Q1 2014.

Cable options

		Work cables		Control cables							
					CNC, spade	CNC, spade	CNC, D-sub	RS-485	RS-485		
				connector,	connector, no	connector,	Serial comm,	Serial comm,			
Cable length	Hand clamp	C-style clamp	Ring terminal	Remote pendant	divided voltage	divided voltage	divided voltage	unterminated	D-sub		
7,6 m	223292	223298	223295	128650	228350	023206	223048	223236	223239		
15,2 m	223293	223299	223296	128651	228351	023279	123896	223237	223240		
22,8 m	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	
Drag-cutting	Hand	45 65	420158 420169	420172	220977	220997	220971	
		125	220975	420000				
		45	420158	420168	220977 or 420156 ³	220997		
Mechanized	Machine	65	420169				220971	
		125/105	220975	220976				
FineCut®	Hand	45	400454	420152	220977 or 420156 ³	420159	220971	
rinecut	Machine	40	420151			220997	220971	
Gouging	Hand Machine	30-125	420001	420112	220977	220997	220971	

³ 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

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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