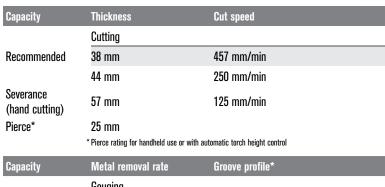
# Hypertherm<sup>®</sup>

# Powermax 125®

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



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 toro	ch 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<sup>®</sup> Hyamp<sup>™</sup> 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)

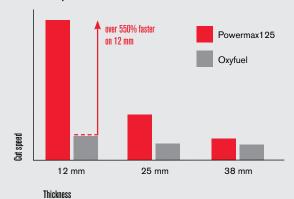








#### Relative cut performance on mild steel



#### **Specifications**

opecinications	
Input voltages CCC	380 V, 3-PH, 50/60 Hz
CE	400 V, 3-PH, 50/60 Hz
Kilowatt output	21,9 kW
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.

		85° har	nd torch	85° al hand			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	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 with CPC	380 V CCC1	059556	059557			059558	059583			059584		059559
port and voltage divider	400 V CE	059526	059527	059528	059572	059530			059531			059529
Power supply with CPC	380 V CCC1						059560			059561		
port, voltage divider, and erial port	400 V						059532	059534		059533	059535	

<sup>&</sup>lt;sup>1</sup> Does not include a power cord.



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

### Power supply¹ 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

<sup>&</sup>lt;sup>1</sup> Does not include a power cord.

#### Starter kit consumable options

	Handheld	<b>M</b> echanized	Mechanized with ohmic retaining cap
Kit	428099	428100	428101

#### **Torch options**

	Hand t	orches	Machin	e torches	Robotic torches			Long torches				
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°	1,8 m, 90°
4,5 m			059519	059514								
7,6 m	059492	059495	059520	059515	059564	059565	059566	059562	059563	059567	059568	059623
10,7 m			059521	059516								
15,2 m	059493	059496	059522	059517				059579	059580	059581	059582	059624
22,8 m	059494	059497	059523									
45,7 m	059664	059665		059666						059667	059668	

<sup>\*45,7</sup> m torch leads are compatible only with Powermax125 systems with a serial number of 125-007944 or higher.

#### 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			
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								
45,7 m	223737		223744	428755								

#### 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 <sup>2</sup>	220997	220971	
		125/105	220975	220976				
F: 0 + @	Hand	AE	400454	400450	000077 4004502	420159	000071	
FineCut® Machine		45	420151	420152	220977 or 420156 <sup>2</sup>	220997	220971	
Max removal gouging	Hand/Machine	30-125	420001	420112	220977	220997	220971	
Max control gouging	Hand/Machine	30-125	420001	420519	220977	220997	220971	

<sup>&</sup>lt;sup>2</sup> Ohmic retaining cap

## Recommended Hypertherm genuine accessories



#### Hvamp™ deluxe circle cuttina auide

Quick and easy setup for accurate circles up to 70 cm diameter. For use with the Powermax125®.

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.

228890 Filter plus cover for Powermax105/125

011092 Replacement filter element for Eliminizer

101215 Cover only for Powermax105/125



#### Leather torch sheathing

Available in 7,6 m sections, this option provides additional protection for torch leads against burn-through and abrasion.

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.

127360 Cover, Powermax125



#### Wheel/gantry kits

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

229467 Powermax105/125 wheel kit229570 Powermax105/125 gantry kit



#### Hvamp™ torch adapter

The Hyamp torch adapter kit makes the 44 mm machine torches (on the Powermax125 and MAXPRO200® systems) compatible with track burners, pipe cutters, cutting tables, and legacy equipment that accept a 35 mm barrel torch.

428495 Hyamp torch adapter

#### ISO 9001:2008

Environmental stewardship is one of Hypertherm's core values, and it is critical to our success and our customers' success. We are striving to reduce the environmental impact of everything we do. For more information: www.hypertherm.com/environment.



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