

# 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	

<sup>\*</sup>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

<sup>\*</sup>Actual groove profile varies with torch 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<sup>™</sup> 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<sup>™</sup> 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)

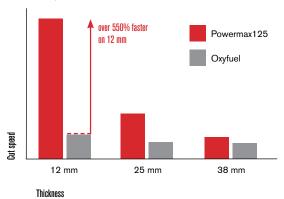








#### Relative cut performance on mild steel



# **Specifications**

opoumoutiono	
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° and 15° 180° full-length machine torch						180° full-length machine torch and 85° hand torch		
		7,6 m	15,2 m	7,6 m	7,6 m 15,2 m 7,6 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 I/O cables (no pendant)	with remote pendant
Power supply with CPC port and voltage divider	380 V CCC <sup>1</sup> 400 V CE	059556 059526	059557 059527	059528	059572	059558 059530	059583		059531	059584		059559 059529
Power supply with CPC port, voltage divider, and serial port	380 V CCC¹						059560 059532	059534		059561 059533	059535	

<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	Mechanized	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*	059665	059664		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				
Mechanized Machine		45	420158	420168		220997		
	Machine	65	420169	420168	220977 or 420156 <sup>2</sup>		220971	
		125/105	220975	220976				
F: 0±®	Hand	AE	400454	400150	000077 4001502	420159	000071	
ineCut® 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	420509	220977	220997	220971	

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

# Recommended Hypertherm genuine accessories



#### Hyamp™ deluxe circle cutting quide

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 kit 229570 Powermax105/125 gantry kit



#### Hyamp™ 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

### For more information, visit: www.hypertherm.com

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