HYPERTHERM®
A Hypertherm Associates Brand

Powermax125

Recommended cut capacity of 38 mm (1-1/2")
Severance capacity of 57 mm (2-1/4")
Professional grade



Part of the Powermax® family, the Powermax125 features a 100% duty cycle for the most demanding hand cutting, mechanized or robotic cutting, or gouging.

Key business benefits

Boost productivity
Finish jobs faster with cut speeds five times greater than oxyfuel on 12 mm (1/2") mild steel

Minimize operating costs
Consumable life up to four times longer than other systems in this amperage range

Reduce secondary operations
Superior cut and gouge quality lets you spend less time grinding and preparing edges

Simplify operator onboarding
Simple setup and operation enables accelerated operator training

Maximum power and performance.

The Powermax125® cuts thick metals fast and makes short work of your toughest cutting and gouging jobs. It offers a 100% duty cycle for maximum operation time, making it the preferred system for many mechanized or robotic cutting jobs. Smart Sense™ technology automatically adjusts the gas pressure so you can focus on the job and not the setup.

Cut and gouge capacities

Cut capacity	Thickness	Cut speed
Recommended	38 mm (1-1/2")	457 mm/min (18 ipm)
	44 mm (1-3/4")	250 mm/min (10 ipm)
Severance (hand cutting)	57 mm (2-1/4")	125 mm/min (5 ipm)
Pierce*	25 mm (1")	

*Pierce rating for handheld use or with automatic torch height control

Gouge capacity	Metal removal rate	Groove profile
Typical gouge	12.52 kg/hr (27.6 lbs/hr)	4.3–7.9 mm D x 6.1–9.9 mm W (0.17–0.31" D x 0.24–0.39" W)

Torch output**	21.9 kW
	125 A x 175 V ÷ 1000 W = 21.9 kW

**Higher output voltage at the torch plus efficiently designed consumables result in a faster, cleaner cut.

Make short work of your toughest cutting and gouging jobs with the Powermax125.

THE **BEST** INVESTMENT IS IN YOUR **POWER**

Our customers' preferred cutting tool for industries including:

- Shipbuilding/ship repair
- Truck and trailer fabrication
- Tank and vessel manufacturing
- Railyard maintenance and railcar fabrication
- Demolition and metal salvage
- Agricultural/equipment maintenance

Highlighted product features:

Easy to use

- No need to change the air pressure – Smart Sense™ technology ensures it's correctly set
- Drag cut at full output with a patented shield that reduces dross buildup for smoother cutting
- Electrode end-of-life detection protects the torch and workpiece from damage by automatically stopping power when the electrode is overused
- **Now available:** Smaller and lighter Cartridge retrofit torch or Hyamp adapter enables use of single-piece Hyamp cartridge for quick and easy consumable changeouts

Low operating costs

- Superior cut and gouge quality lets you spend less time on grinding and edge preparation
- Eleven Duramax® Hyamp™ torch styles provide versatility for hand cutting, portable automation, X-Y table cutting, extended reach cutting, and robotic cutting
- Six types of consumables for drag cutting, fine feature cutting, flush cutting, mechanized cutting, plus maximum control and removal gouging

Industry-leading reliability

- Powermax plasma cutters are known to last decades in the field, minimizing maintenance and downtime
- Power supplies and torches are engineered for rugged industrial environments
- Each Powermax component is tested to perform reliably in demanding conditions
- SpringStart™ technology ensures consistent starting and a more reliable torch

Specifications – CSA

Input voltages (± 10%)	480/600 V, 3-PH, 50/60 Hz
Input current @ 12.2 kW	480/600 V, 31/24 A
Output current	30–125 A
Rated output voltage	175 VDC
Duty cycle @ 40° C (104° F)	100% @ 125 A, 480/600 V, 3-PH
Open circuit voltage (OCV)	320 VDC
Weight with 7.6 m (25') torch	480 V 47.9 kg (105.7 lbs)
	600 V 47.5 kg (104.7 lbs)

CSA – for use in the Americas and Asia, except China

Specifications – CE

Input voltages (± 10%)	400 V, 3-PH, 50–60 Hz
Input current @ 12.2 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 (104° F)	100% @ 125 A, 380/400 V, 3-PH
Open circuit voltage (OCV)	305 VDC
Weight with 7.6 m (25') torch	380 V 45.2 kg
	400 V 48.9 kg

CE – for use in Europe, Australia & New Zealand - RCM, Serbia, UK – UKCA, Ukraine, and other countries where accepted.

Specifications – CCC

Input voltages (± 10%)	380 V, 3-PH, 50/60 Hz
Input current @ 12.2 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 (104° F)	100% @ 125 A, 380/400 V, 3-PH
Open circuit voltage (OCV)	290 VDC
Weight with 7.6 m (25') torch	380 V 45.2 kg
	400 V 48.9 kg

CCC – for use in China.

Dimensions with handles	483 mm D; 233 mm W; 430 mm H (19" D; 9.2" W; 17" H)
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	3 m (10')
Power supply type	Inverter – IGBT
Engine drive requirement	40 kW or 50 kVA for full 125 A output
Electrical efficiency	91%–92%
Recyclability	100%
Warranty	Power supply: 6-year, Torch: 1-year

Ordering information – CSA

Below are the standard systems configurations, which include a power supply, torch or torches, work cable, and consumable kit.

CSA – for use in the Americas and Asia, except China	85° hand torch		85° and 15° hand torch		180° full-length machine torch						180° full-length machine torch and 85° hand torch
Torch lead length	7.6 m (25')	15.2 m (50')	7.6 m (25')	15.2 m (50')	7.6 m (25')		7.6 m (25') with I/O cables	15.2 m (50')		15.2 m (50') with I/O cables	15.2 m/7.6 m (50'/25')
✔ = With remote pendant					✔			✔			✔
Powermax125® power supplies	**Handheld**				**Mechanized**						**Handheld and Mechanized**
480 V CSA power supply with CPC port and voltage divider	059536	059537	059538	059569	059539			059540			059541
600 V CSA power supply with CPC port and voltage divider	059546	059547	059555	059570	059552			059553			059554
480 V CSA power supply with CPC port, voltage divider, and serial port						059542	059544		059543	059545	
600 V CSA power supply with CPC port, voltage divider, and serial port						059550	059548		059551	059549	

Custom configurations – CSA

Select power supply, torch, work cable, and other components.

Power supply options	With CPC port and voltage divider	With CPC port, voltage divider and serial port
Powermax125 480 V	059488	059489
Powermax125 600 V	059509	059510

Ordering information – CE

Below are the standard systems configurations, which include a power supply, torch or torches, work cable, and consumable kit.

CE – for use in Europe, Australia & New Zealand – RCM, Serbia, UK – UKCA, Ukraine, and other countries where accepted.	85° hand torch		85° and 15° hand torch		180° full-length machine torch						180° full-length machine torch and 85° hand torch
Torch lead length	7.6 m (25')	15.2 m (50')	7.6 m (25')	15.2 m (50')	7.6 m (25')		7.6 m (25') with I/O cables	15.2m (50')		15.2 m (50') with I/O cables	15.2m/7.6 m (50'/25')
✔ = With remote pendant					✔			✔			✔
Powermax125® power supplies	**Handheld**				**Mechanized**						**Handheld and Mechanized**
400 V CE power supply with CPC port and voltage divider	059526	059527	059528	059572	059530			059531			059529
400 V CE power supply with CPC port, voltage divider, and serial port						059532	059534		059533	059535	

Custom configurations – CE

Select power supply, torch, work cable, and other components.

	With CPC port and voltage divider	With CPC port, voltage divider and serial port
Powermax125® 400 V CE	059486	059487

Ordering information – CCC

Below are the standard systems configurations, which include a power supply, torch or torches, work cable, and consumable kit.

CCC – for use in China.	85° hand torch		85° and 15° hand torch		180° full-length machine torch						180° full-length machine torch and 85° hand torch
Torch lead length	7.6 m (25')	15.2 m (50')	7.6 m (25')	15.2 m (50')	7.6 m (25')		10.7 m (35')	15.2 m (50')		15.2 m (50') with I/O cables	15.2m/7.6 m (50'/25')
✔ = With remote pendant					✔			✔			✔
Powermax125® power supplies	**Handheld**				**Mechanized**						**Handheld and Mechanized**
380 V CE power supply with CPC port and voltage divider	059556	059557			059558	059583			059584		059559
380 V CE power supply with CPC port, voltage divider, and serial port						059560			059561		

Custom configurations – CCC

Select power supply, torch, work cable, and other components.

	With CPC port and voltage divider	With CPC port, voltage divider and serial port
Powermax125® 380 V CCC	059490	059491

Work leads		
	Hand clamp	Ring terminal
7.6 m (25')	223292	223295
15.2 m (50')	223293	223296
22.8 m (75')	223294	223297
45.7 m (150')	223737	

Control cable options						
Cable length	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 (25')	128650	228350	023206	223048	223236	223239
15.2 m (50')	128651	228351	023279	123896	223237	223240
22.8 m (75')	128652					
45.7 m (150')	428755					

Torch options

	Hand torches		Machine torches		Robotic torches			Long torches					
Cable length	85°	15°	180°	Mini 180°	45°	90°	180°	0.6 m (2'), 45°	0.6 m (2'), 90°	1.2 m (4'), 45°	1.2 m (4'), 90°	1.8 m (6') 45°	1.8 m (6'), 90°
4.5 m (15')			059519	059514									
7.6 m (25')	059492	059495	059520	059515	059564	059565	059566	059562	059563	059567	059568	059758	059623
10.7 m (35')			059521	059516									
15.2 m (50')	059493	059496	059522	059517	059670	059671	059672	059579	059580	059581	059582	059759	059624
22.8 m (75')	059494	059497	059523										
45.7 m (150')*	059665	059664		059666						059667	059668		

*45.7 m (150') torch leads are compatible only with Powermax125 systems with a serial number of 125-007944 or higher.

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	420158	420172	220977	220997	220971
		65	420169	420172			
		125	220975	420000			
Mechanized	Machine	45	420158	420168	220977 or 420156[1]	220997	220971
		65	420169	420168			
		125/105	220975	220976			
FineCut®	Hand	45	420151	420152	220977 or 420156[1]	420159	220971
	Machine					220997	
Max removal gouging	Hand/Machine	30–125	420001	420112	220977	220997	220971
Max control gouging	Hand/Machine	30–125	420001	420509	220977	220997	220971
FlushCut®	Hand/Machine	125	420489	420485	420490	420484	420553

Hyamp cartridge, adapters and retrofit torches

Hyamp adapter cartridge (528160)



Hyamp drag cartridge (528162)



Hyamp mechanized cartridge (528161)



50' 180° mini mechanized torch (059940)



50' 180° mechanized torch (059930)



25' 75° hand torch (059920)



Learn more at www.hypertherm.com/Powermax125

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