

# 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

## 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.

## 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.

**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
- Superior cut and gouge quality lets you spend less time on grinding and edge preparation
- Electrode end-of-life detection protects the torch and workpiece from damage by automatically stopping power when the electrode is overused
- 100% duty cycle maximizes your operating time

### Low operating costs

- 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 75° hand torch			
	7.6 m (25')	15.2 m (50')	7.6 m (25')		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')	
Torch lead length										
✓ = With remote pendant					✓		✓		✓	
<b>Powermax125® power supplies</b>	<b>Handheld</b>				<b>Mechanized</b>					
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.	75° hand torch		75° and 15° hand torch		180° full-length machine torch		180° full-length machine torch and 75° hand torch			
	7.6 m (25')	15.2 m (50')	7.6 m (25')		7.6 m (25')	7.6 m (25') with I/O cables	15.2 m (50')	15.2 m (50') with I/O cables	15.2m/7.6 m (50'/25')	
Torch lead length										
✓ = With remote pendant					✓		✓		✓	
<b>Powermax125® power supplies</b>	<b>Handheld</b>				<b>Mechanized</b>					
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.

Power supply options	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.	75° hand torch		75° and 15° hand torch		180° full-length machine torch		180° full-length machine torch and 75° hand torch			
	7.6 m (25')	15.2 m (50')	7.6 m (25')		7.6 m (25')	7.6 m (25') with I/O cables	15.2 m (50')	15.2 m (50') with I/O cables	15.2m/7.6 m (50'/25')	
Torch lead length										
✓ = With remote pendant					✓		✓		✓	
<b>Powermax125® power supplies</b>	<b>Handheld</b>				<b>Mechanized</b>					
380 V CCC power supply with CPC port and voltage divider	059556	059557			059558	059583		059584		
380 V CCC power supply with CPC port, voltage divider, and serial port						059560		059561		

## Custom configurations – CE

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® 380 V CCC	059490	059491

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					

### Torch options

Cable length	Hand torches		Machine torches		Robotic torches			Long torches					
	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'), 90°	1.8 m (6') 45°
4.5 m (15')			059519	059514									
7.6 m (25')	059492	059495	059520	059515	059564	059565	059566	059562	059563	059567	059568	059623	059758
10.7 m (35')			059521	059516									
15.2 m (50')	059493	059496	059522	059517	059670	059671	059672	059579	059580	059581	059582	059624	059759
22.8 m (75')	059494	059497	059523										
45.7 m (150')*	059665	059664		059666				059667		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 <sup>1</sup>	220997	220971
		65	420169	420168			
		125/105	220975	220976			
FineCut®	Hand	45	420151	420152	220977 or 420156 <sup>1</sup>	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

### Torches and consumables



Learn more at [www.hypertherm.com/Powermax125](http://www.hypertherm.com/Powermax125)

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