

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

Powermax125. 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.

Powermax125 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)

Touch autout**	21.9 kW
Torch output**	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.



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

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

CCC - for use in China

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

CE CCC CSA

UL	000	UUA	
Input volta	ges (± 10%)		
		\rightarrow	480/600 V, 3-PH, 50/60 Hz
	\vdash		380 V, 3-PH, 50/60 Hz
\vdash			400 V, 3-PH, 50/60 Hz
Input curre	nt @ 12.2 kV	V	
		\rightarrow	480/600 V, 31/24 A
\vdash	\vdash		380 V, 3-PH, 38 A
\vdash	\vdash		400 V, 3-PH, 36 A
Output cur	rent		30–125 A
Rated outp	ut voltage		175 VDC
Duty cycle	@ 40° C (10	4° F)	
		\hookrightarrow	100% @ 125 A, 480/600 V, 3-PH
\vdash	\vdash		100% @ 125 A, 380/400 V, 3-PH
Open circu	it voltage (Ol	CV)	
		\vdash	320 VDC
	\vdash		290 VDC
\vdash			305 VDC
Dimensions	with handle	s	592 mm D; 274 mm W; 508 mm H
Weight wit	h w/7,6 m (2!	5') torch	(23.3" D; 10.8" W; 20.0" H)
Worgint Wit	ii w//,0 iii (2.), tololi	480 V 47.9 kg (105.7 lbs)
			600 V 47.5 kg (104.7 lbs)
\vdash	\vdash		380 V 45.2 kg
⊢	L		400 V 48.9 kg
Gas supply			Clean, dry, oil-free air or nitrogen
Optimum ir	ilet gas pres	sure	7.6-8.3 bar (110-120 psi)
Minimum i	nlet gas pres	sure	5.5 bar (80 psi)
			Cutting:
Recommen	ded gas inlet	flow rate/	260 l/min (550 scfh) @ 5.9 bar (85 psi)
pressure	gv.		Gouging:
			212 I/min (450 scfh) @ 4.1 bar (60 psi)
Input powe	r cable lengt	h	3 m (10')
Power supp	oly type		Inverter – IGBT
Engine driv	e requiremen	ıt	40 kW or 50 kVA for full 125 A output
Electrical e	efficiency		91%-92%
Recyclabili	ty		100%
Warranty			Power supply: 3-year, Torch: 1-year

Ordering information

Below are the standard system configurations, which include a power supply, torch and work cable.

- 0.0	clow are the standard system configurations, which include a power supply, toron and work cable.														
CE – for use in Europe, Australia & New Zealand - RCM, Serbia, UK – UKCA, Ukraine, and other countries where accepted. CCC – for use in China CSA – for use in the Americas and Asia, except China				85° har	nd torch		nd 15° torch		180	D° full-leng	th machi	ne torch		180° full-length machine torch and 85° hand torch	
CE	CCC	CSA	Torch lead length		7.6 m (25')	15.2 m (50')	7.6 m (25')			i m 5')	7.6 m (25') with I/O cables	with 1/0 13.2 111 (50')		15.2 m (50') with I/O cables	10.7 m/7.6 m (35'/25')
			✓ = With remote pendant						✓			~			✓
Powermax125® power supplies			Voltage configuration	ı	Handheld	d					Mecha	nized			
	\mapsto			380 V CCC1	059556	059557			059558	059583			059584		
\mapsto			Power supply with CPC	400 V CE	059526	059527	059528	059572	059530			059531			059529
		\hookrightarrow	port and voltage divider	480 V	059536	059537	059538	059569	059539			059540			059541
		\hookrightarrow		600 V	059546	059547	059555	059570	059552			059553			059554
	\mapsto			380 V CCC ¹						059560			059561		
L			Power supply with CPC	400 V						059532	059534		059533	059535	
		\vdash	port, voltage divider, and serial port	480 V						059542	059544		059543	059545	
		\rightarrow		600 V						059550	059548		059551	059549	

¹ Does not include a power cord.

Custom configurations

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

Power supply options

CE – for use in Europe, Australia & New Zealand - RCM, Serbia, UK – UKCA, Ukraine, and other countries where accepted. CCC –for use in China CSA – for use in the Americas and Asia, except China CE CCC CSA	With CPC port and voltage divider	With CPC port, voltage divider and serial port
└ → Powermax125 380 V₁	059490	059491
Powermax125 400 V	059486	059487
L→ Powermax125 480 V	059488	059489
Powermax125 600 V	059509	059510

¹ Does not include a power cord.

Work leads

	Hand clamp	C-clamp	Ring terminal
7.6 m (25')	223292	223298	223295
15.2 m (50')	223293	223299	223296
22.8 m (75')	223294	223300	223297
45.7 m (150')	223737		223744

Cable options

	Control cables										
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

	Hand t	orches	Machine	e 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'), 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		

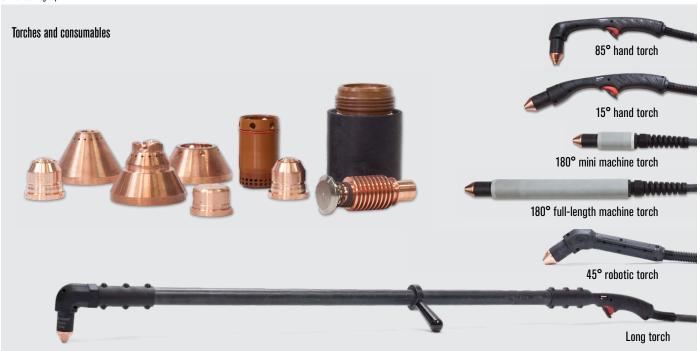
^{*45.7} m (150') torch leads are compatible only with Powermax125 systems with a serial number of 125-007944 or higher.

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
		45	420158	420172			
Drag-cutting	Hand	65	420169	420172	220977	220997	220971
		125	220975	420000			
		45	420158	420168		220997	
Mechanized	Machine	65	420169	420168	220977 or 4201561		220971
		125/105	220975	220976			
Fina Cuta	Hand	45	420151	420152	000077 . 4004501	420159	220971
FineCut®	Machine	40	420131	420102	220977 or 420156 ¹	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

¹ Ohmic retaining cap



Learn more at www.hypertherm.com/Powermax125

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