

Hypertherm®

Powermax65®

Professional-grade plasma metal cutting and gouging system for handheld cutting 3/4" and mechanized piercing 5/8".



Capacity	Thickness	Cut speed
Cutting		
Recommended	3/4"	20 ipm
	1"	10 ipm
Severance (hand cutting)	1-1/4"	5 ipm
Pierce*	5/8"	

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

Capacity	Metal removal rate	Groove profile
Gouging		
Typical gouge	10.7 lbs per hour	.14" D x .26" W

Maximum productivity

- Finish jobs faster with cut speeds one and a half times greater than oxyfuel on 1/2" mild steel.
- Spend less time on grinding and edge preparation due to superior cut and gouge quality.

Easy-to-use for cutting and gouging

- No need to change the air pressure. Smart Sense™ technology ensures that it is always correctly set.
- Drag cut at full output with a patented shield that reduces dross buildup for smoother cutting.
- Tackle different jobs with multiple, easy-to-use torch styles.

Low operating costs

- Reduce costs with long consumable life and more uptime.
- High power efficiency lowers energy consumption.

Built and tested to withstand the harshest conditions

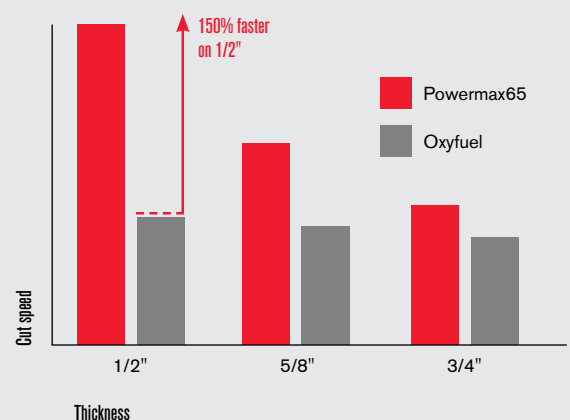
- Duramax™ torches are designed for high-impact and heat resistance.
- SpringStart™ technology ensures consistent starting and a more reliable torch.
- Low maintenance for maximum uptime.

Duramax standard torch styles

(for more torch options, see www.hypertherm.com)



Relative cut performance on mild steel



Specifications

Input voltages	200–480 V, 1-PH, 50/60 Hz 200–600 V, 3-PH, 50/60 Hz
Kilowatt output	9 kW
Input current @ 9 kW	200/208/240/480 V, 1-PH 52/50/44/22 A 200/208/240/480/600 V, 3-PH 32/31/27/13/13 A
Output current	20–65 A
Rated output voltage	139 VDC
Duty cycle @ 104° F (40° C)	50% @ 65 A, 230–600 V, 1/3-PH 40% @ 65 A, 200–208 V, 1/3-PH 100% @ 46 A, 230–600 V, 1/3-PH
Open circuit voltage (OCV)	295 VDC
Dimensions with handles	19.7" D; 9.2" W; 17.9" H
Weight w/25' torch	64 lbs
Gas supply	Clean, dry, oil-free air or nitrogen
Recommended gas inlet flow rate/pressure	Cutting: 400 scfh, 6.7 scfm @ 85 psi Gouging: 450 scfh, 7.5 scfm @ 70 psi
Input power cable length	10'
Power supply type	Inverter – IGBT
Engine drive requirement	15 kW for full 65 A output
Certifications	CSA-certified for use in the Americas and Asia, except 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.

	75° hand torch		75° and 15° hand torch		180° full-length machine torch						180° full-length machine torch and 75° hand torch	
	25'	50'	25'	50'	25'		50'				25'	
Power supplies		With Eliminator filter and cover			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
Standard power supply	083270	083273	083271									
Power supply with CPC port and voltage divider	083275		083276	083307	083308	083277	083294		083278	083302		083300
Power supply with CPC port, voltage divider, and serial port								083303			083305	



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

Power supply options

	Standard power supply	Power supply with CPC port and voltage divider	Power supply with CPC port, voltage divider, and serial port
200–600 V CSA	083234	083266	083267

Starter kit consumable options

	Handheld	Mechanized	Mechanized with ohmic retaining cap
Kit	228963	228964	228965

Torch options

Cable length	Hand torches		Machine torches		Robotic torches		
	75°	15°	180°	Mini 180°	45°	90°	180°
15'			059476	059481			
25'	059473	059470	059477	059482	059464	059465	059466
35'			059478	059483			
50'	059474	059471	059479	059484			
75'	059475	059472	059480				

Cable options

Cable length	Work cables			Remote pendant	Control cables				
	Hand clamp	C-style clamp	Ring terminal		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
25'	223125	223194	223200	128650	228350	023206	223048	223236	223239
50'	223126	223195	223201	128651	228351	023279	123896	223237	223240
75'	223127	223196	223202	128652					

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	Electrode	Swirl ring
Drag-cutting	Hand	45	220941	220818	220854	220842	220857
		65	220819				
Mechanized	Machine	45	220941	220817 or 220955 ¹	220854 or 220953 ²	220842	220857
		65	220819				
FineCut®	Hand	45	220930	220931	220854 or 220953 ²	220842	220947
	Machine			220948			220857
Gouging	Hand	20–65	220797	220798	220854	220842	220857
	Machine						

¹ Deflector for unshielded cutting

² Ohmic retaining cap

Recommended Hypertherm genuine accessories



Hyamp™ helmet

Premium auto-dim shade 8–12 with large 7.92 square inches viewing area for cutting, welding and gouging. Includes clear safety shields, pouch and sticker sheet. ANSI Z87.1, CSA Z94.3, CE

017031



Leather torch sheathing

Available in 25' sections, this option provides additional protection for torch leads against burn-through and abrasion.

024548 Brown leather

024877 Black leather with Hypertherm logos



Wheel/gantry kits

Complete, pre-assembled kits for added mobility.

229370 Powermax65/85 wheel kit



Air filtration kit

A ready-to-install kit with a 1-micron filter and an auto drain moisture separator protects against contaminated air. Made in USA

228570 Filter plus cover for Powermax65/85

011092 Replacement filter element for Elimimizer

228624 Cover only for Powermax65/85



System dust covers

Made from a flame-retardant vinyl, a dust cover will protect your Powermax system for years. Made in USA

127301 Cover, Powermax65



Hyamp cutting and gouging gloves

Insulated for heavy duty applications. Fire resistant goatskin leather and suede. Padded areas for extra heat and abrasion protection. Made in USA

017025 Medium

017026 Large

017027 X-Large

017028 2X-Large

Engineered and assembled in the USA

ISO 9001:2008

Environmental stewardship is a core value of Hypertherm. Our Powermax products are engineered to meet and exceed global environmental regulations including the RoHS directive.



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