Hypertherm®

Powermax45®

Professional-grade plasma metal cutting and gouging system for handheld cutting 1/2".



Capacity	Thickness	Cut speed	
	Cutting		
Recommended	1/2"	20 ipm	
	3/4"	10 ipm	
Severance (hand cutting)	1"	5 ipm	
Pierce*	1/2"		
	* Pierce rating for handheld use or wi	th automatic torch height control	
Capacity	Metal removal rate	Groove profile	
	Gouging		
Typical gouge	6.2 lbs per hour	.13" D x .22" W	





Easy-to-use with versatile design

- Small size and light weight provides exceptional portability for a 1/2" rated cutting system.
- Handheld and mechanized usage with CNC interface and FastConnect™ torch connection.
- Patented drag-cutting technology makes it easy to use even for first time operators.

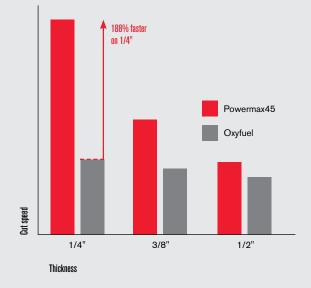
Finish jobs faster

- Less edge preparation patented consumables designs provide superior cut and gouge quality.
- Cut speeds 188% faster than oxyfuel on 1/4" mild steel.

Rugged and reliable

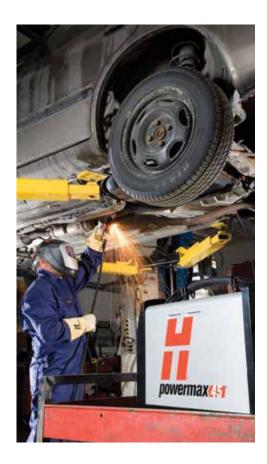
- Hypertherm Certified[™] reliability ensures performance in the most demanding environment.
- Powercool[™] design cools internal components more effectively for long system life and improved uptime.

Relative cut performance on mild steel



Specifications

Input voltages (±10%)	200–240 V, 1-PH, 50–60 Hz 480 V, 3-PH, 50–60 Hz
Input current @ 5.95 kW	200/230 V, 1-PH, 34/28 A 480 V, 3-PH, 9 A
Output current	20-45 A
Rated output voltage	132 VDC
Duty cycle @ 104° F	50% @ 45 A, 200-240 V, 1-PH 60% @ 41 A, 200-240 V, 1-PH 100% @ 32 A, 200-240 V, 1-PH 50% @ 45 A, 480 V, 3-PH 60% @ 41 A, 480 V, 3-PH 100% @ 32 A, 480 V, 3-PH
Open circuit voltage (OCV)	275 VDC
Dimensions with handles	16.75" D; 6.75" W; 13.7" H
Weight w/20' torch	37 lbs
Gas supply	Clean, dry, oil-free air or nitrogen
Recommended gas inlet flow rate/ pressure	Cutting: 360 scfh; 6 cfm @ 80 psi Gouging: 360 scfh; 6 cfm @ 60 psi
Input power cable length	10'
Power supply type	Inverter-IGBT
Engine drive requirement	8 kW for full 45 A output
Certifications	CSA-certified for use in the Americas and Asia, except China.
Warranty	Power supply: 3-year Torch: 1-year



Ordering information Below are some of the most common system configurations which include a power supply, torch and work cable.

	Handheld systems		Mechanized systems		
	T45 v torch 20'	T45 v torch 50'	T45m torch 25'	T45m torch 35'	T45m torch 50'
200–240 V CSA	088016	088017	088022	088023	088024
480 V CSA	088072	088073			

Custom configurations (select power supply, torch and other components)

Power supply options

	Power supply with CPC port and 50:1 voltage ratio
200-240 V CSA	088013
480 V CSA	088068

Cable options

	Torches		Control cables		
Cable length	T45v	T45m	Remote pendant	CNC spade plug¹	CNC spade plug²
20'	088008				
25'		088010	128650	228350	023206
35'		088011			
50'	088009	088012	128651	228351	023279

 $^{\scriptscriptstyle 1}$ For use with automation equipment that requires divided arc voltage.

² For use when divided arc voltage is not required.

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
Dread outting	Hand	30	220480	220569	220483	220478	220479
Drag-cutting	naliu	45	220671 ¹	220674	220713	220669 ¹	220670
Mechanized	Machine	45	220671	220673	220713 or 220719 (Ohmic)	220669	220670
Gouging	Hand		220672	220675	220713	220669	220670
Machine			220012	220013	220113	220003	220070
HyAccess™	Hand	45	420144 (cutting) 420147 (gouging)		420148	420137	220670

¹ Electrodes and nozzles are sold in packs of five, as well as combination packs of 2 electrodes and 2 nozzles (part number 428442)

Consumable kits



Essential consumable kit

Essential kits provide a convenient assortment of standard consumables for your Powermax system. The storage case protects and organizes your consumables and provides part number information for ease of reordering your consumables. Made in USA.

851478 Powermax45 CSA kit

Hypertherm Hykosess consumation in

HyAccess consumable kit

Uniquely designed for accessibility, the patented HyAccess™ extended consumables provide the extra reach needed when cutting or gouging in hard to reach or confined spaces.

428337 HyAccess consumable kit



Recommended Hypertherm genuine accessories



Face Shield

Clear face shield with flip-up shade for cutting and grinding. Safety shield included. ANSI Z87.1, CSA Z94.3, CE

127239	Face	shield	shade	6
127103	Face	shield	shade	8



Air filtration kit

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

128647 Eliminizer filter



Durafit cutting gloves

Designed to offer maximum dexterity and fine-motor control. Fire resistant goatskin leather and stretch Nomex[®] backhand. Reinforced leather in wear areas.

017037	Medium
017038	Large
017039	X-large
017040	2X-large



System dust cover

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

127219 Cover, Powermax45



Circle cutting guides

Quick and easy set up for accurate circles up to 28" diameter. For optional use as a stand-off guide for straight and bevel cuts.

- 127102 Basic kit 15" arm, wheels and pivot pin
- 027668 Deluxe kit 11" arm, wheels, pivot pin, anchor base and plastic case



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

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.



Hypertherm, Powermax, Duramax and FineCut are trademarks of Hypertherm Inc. and may be registered in the United States and/or other countries. All other trademarks are the properties of their respective owners.

© 1/2016 Hypertherm Inc. Revision 8 860280



Cut with confidence[®]

