

# 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 with 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

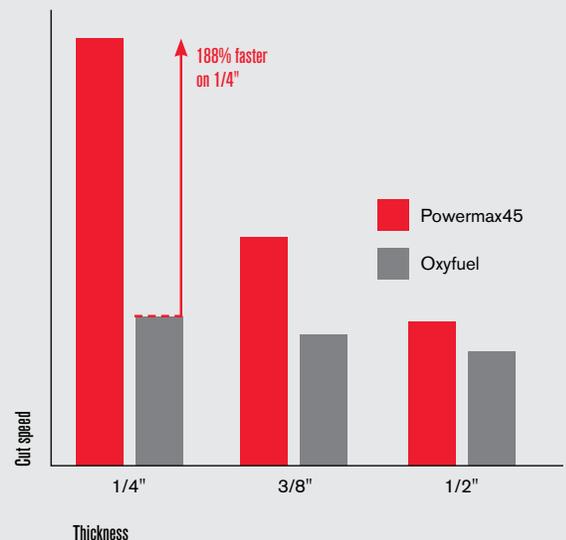
- Less edge preparation – patented consumables designs provide superior cut and gouge quality.
- Cut speeds 188% faster than oxyfuel on 1/4" mild steel.

### 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 ( $\pm 10\%$ )	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 (40° C)	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 scfm @ 80 psi Gouging: 360 scfh, 6 scfm @ 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 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.

	Handheld systems		Mechanized systems		
	T45 v torch 20'	T45 v torch 50'	T45m torch 25'	T45m torch 35'	T45m torch 50'
200–240 V	088016	088017	088022	088023	088024
480 V	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	088013
480 V	088068

### Cable options

Cable length	Torches		Control cables		
	T45v	T45m	Remote pendant	CNC spade plug <sup>1</sup>	CNC spade plug <sup>2</sup>
20'	088008				
25'		088010	128650	228350	023206
35'		088011			
50'	088009	088012	128651	228351	023279

<sup>1</sup> For use with automation equipment that requires divided arc voltage.

<sup>2</sup> For use when divided arc voltage is not required.

## Recommended Hypertherm genuine accessories

- Plasma cutting gloves, 127169
- Operator face shield, shade 6, 127239
- Powermax45 dust cover, 127219
- Eliminator filter, 128647
- Torch lead cover, black, 024877



Leather torch sheathing

## 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	30	220480	220569	220483	220478	220479
		45	220671	220674	220713	220669	220670
Mechanized	Machine	45	220671	220673	220713 or 220719 (Ohmic)	220669	220670
Gouging	Hand						
	Machine		220672	220675	220713	220669	220670

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

Power supplies have a 3-year warranty and torches have a 1-year warranty.



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