

Hypertherm®

Powermax45®

Professional-grade plasma metal cutting and gouging system for handheld cutting 12 mm.



Capacity	Thickness	Cut speed
	Cutting	
Recommended	12 mm	500 mm/min
	20 mm	250 mm/min
Severance (hand cutting)	25 mm	125 mm/min
Pierce*	12 mm	

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

Capacity	Metal removal rate	Groove profile
	Gouging	
Typical gouge	2,8 kg per hour	3,3 mm D x 5,5 mm W

Easy-to-use with versatile design

- Small size and light weight provides exceptional portability for a 12 mm 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

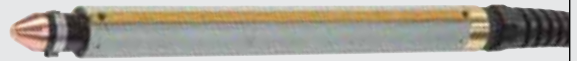
- Less edge preparation – patented consumables designs provide superior cut and gouge quality.
- Cut speeds 188% faster than oxyfuel on 6 mm mild steel.

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.

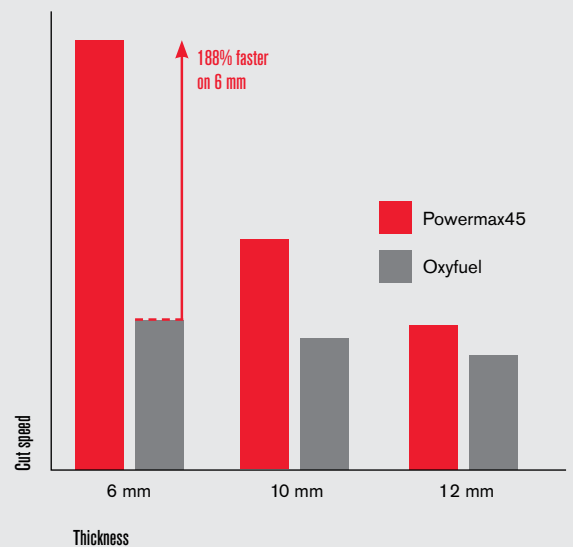


T45v hand torch



T45m machine torch

Relative cut performance on mild steel



Specifications

Input voltages ($\pm 10\%$)	CE 230 V, 1-PH, 50-60 Hz 400 V, 3-PH, 50-60 Hz
Input current @ 5,95 kW	CE 230 V, 1-PH, 30 A 380/400 V, 3-PH, 10.5/10 A
Output current	20-45 A
Rated output voltage	132 VDC
Duty cycle @ 40° C	CE 60% @ 41 A, 230 V, 1-PH 100% @ 32 A, 230 V, 1-PH 50% @ 45 A, 380/400 V, 3-PH CE 60% @ 41 A, 380/400 V, 3-PH 100% @ 32 A, 380/400 V, 3-PH
Open circuit voltage (OCV)	275 VDC
Dimensions with handles	426 mm D; 172 mm W; 348 mm H
Weight w/6,1 m torch	16 kg
Gas supply	Clean, dry, oil-free air or nitrogen
Recommended gas inlet flow rate/pressure	Cutting: 170 l/min @ 5,5 bar Gouging: 170 l/min @ 4,1 bar
Input power cable length	3 m
Power supply type	Inverter-IGBT
Engine drive requirement	8 kW for full 45 A output
Certifications	CE, C-Tick, CU/GOST, Ukr, and Serbian – for use in Europe, Australia, Belarus, Kazakhstan, Russia, Serbia, Ukraine, and other countries where accepted.
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 6,1 m	T45 v torch 15,2 m	T45m torch 7,6 m	T45m torch 10,7 m	T45m torch 15,2 m
200-240 V CE	088018	088019	088025	088026	088027
480 V CE	088020	088021	088028	088029	088030

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

Power supply options

	Power supply with CPC port and 50:1 voltage ratio
230 V CE	088015
400 V CE	088014

Cable options

Cable length	Torches		Control cables		
	T45v	T45m	Remote pendant	CNC spade plug ¹	CNC spade plug ²
6 m	088008				
7,6 m		088010	128650	228350	023206
10,7 m		088011			
15,2 m	088009	088012	128651	228351	023279

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
Drag-cutting	Hand	30	220480	220569	220483	220478	220479
		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						
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.

851477 Powermax45 CE kit



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 Eliminator 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



Circle cutting guides

Quick and easy set up for accurate circles up to 70 cm diameter. For optional use as a stand-off guide for straight and bevel cuts.

- 127102 Basic kit – 38 cm arm, wheels and pivot pin
- 027668 Deluxe kit – 28 cm arm, wheels, pivot pin, anchor base and plastic case



System dust cover

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

- 127219 Cover, Powermax45



Leather torch sheathing

Available in 7,6 m sections, this option provides additional protection for torch leads against burn-through and abrasion.

- 024548 Brown leather
- 024877 Black leather with Hypertherm logos

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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