

Handheld or mechanized plasma system for cutting and gouging metal

Capacity	Thickness	Cut speed			
	Handheld cut				
Recommended	12 mm	500 mm/min			
	19 mm	250 mm/min			
Severance	25 mm	125 mm/min			
Pierce	12 mm*				
	* Pierce rating for handheld use or with	automatic torch height control			
	Metal removal rate	Groove profile			
	Gouge capacity				
	2,8 kg per hour	3,3 mm D x 5,5 mm W			



- Small size and light weight provide unmatched portability among 12 mm machines.
- Boost Conditioner™ (on CSA models) compensates for input voltage variations on 200 – 240 V lines, providing improved performance on low-line voltage, on motor generators and on fluctuating input power.
- CNC interface and FastConnect™ torch connection increase versatility for handheld and mechanized usage.
- Powercool™ design cools internal components more effectively for greater system reliability and improved uptime.

Key torch advantages

- Conical Flow™ increases arc energy density for superior cut quality with little dross.
- Patented drag-cutting technology makes it easy to use even for first-time operators.
- Dual-angle design extends nozzle life and lowers operating cost.

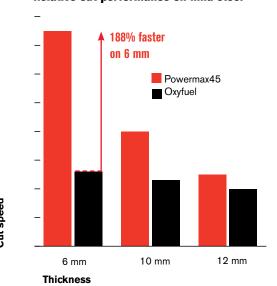


T45v hand torch

T45m machine torch



Relative cut performance on mild steel



Specifications

Input voltages (±10%) Input current @ 5,95 kW	CSA 200 - 240 V, 1-PH, 50-60 Hz CE 230 V, 1-PH, 50-60 Hz 400 V, 3-PH, 50-60 Hz CSA 200/230 V, 1-PH, 34/28 A CE 230 V, 1-PH, 30 A		
0.44	380/400 V, 3-PH, 10.5/10 A		
Output current	20 - 40 A		
Rated output voltage	132 VDC		
Duty cycle @ 40° C (104° F)	CSA 50% @ 45 A, 200 – 240 V, 1-PH 60% @ 41 A, 200 – 240 V, 1-PH 100% @ 32 A, 200 – 240 V, 1-PH CE 50% @ 45 A, 230 V, 1-PH 60% @ 41 A, 230 V, 1-PH 100% @ 32 A, 230 V, 1-PH CE 50% @ 45 A, 380/400 V, 3-PH 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 with 6,1 m torch	CSA 17 kg CE 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-driven generator operation

Engine drive rating (kW)	System output (amps)	Performance (arc stretch)
8	45	Full
6	45	Limited
6	30	Full

Cut chart

Material	Thickness (mm)	Current (amps)	Maximum cut speed¹ (mm/min)
Mild steel	3	45	4445
linia otooi	6	45	1905
	10	45	1016
	12	45	635
	19	45	254
	25	45	127
Stainless steel	3	45	3810
	6	45	1397
	10	45	813
	12	45	457
	19	45	229
Aluminum	3	45	3810
	6	45	1397
	10	45	813
	12	45	457
	19	45	229

¹ Maximum cut speeds are the results of Hypertherm's laboratory testing. For optimum cut performance, actual cutting speeds may vary based on different cutting applications. Refer to the operator manual for more details.

Ordering information

	Handheld	systems	Mechanized systems		
Input voltages	T45v torch 6 m	T45v torch 15 m	T45m torch 7,6 m	T45m torch 10,7 m	T45m torch 15 m
200 - 240 V CSA ²	088016	088017	088022	088023	088024
230 V CE ³	088018	088019	088025	088026	088027
400 V CE ³	088020	088021	088028	088029	088030

² For use in the Americas and Asia, except China.

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
230 V CE	088015
400 V CE	088014

Component options

Cable	Torches		Control cables			
length	T45v	T45m	Remote pendant	CNC spade plug ⁴	CNC spade plug ⁵	
6 m	088008					
7,6 m		088010	128650	228350	023206	
10,7 m		088011				
15 m	088009	088012	128651	228351	023279	

⁴ For use with automation equipment that requires divided arc voltage.

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
туро	туро	30	220480	220569	220483	220478	220479
Drag-cutting	Hand	45	220400	220674	220713	220669	220670
		40	220071	220014	220/13	220009	220070
Mechanized	Machine	45 220671	220671	0671 220673	220713 or	220669	220670
			220071		220719 (Ohmic)		
Couring	Hand		220672	220675	220713	220669	220670
Gouging	Machine		220012	220073	220/13	220009	220070



This system meets the RoHS directive restricting the use of lead, mercury, cadmium and other hazardous compounds.

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

ISO 9001:2008

Hypertherm[®]

Cut with confidence™

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For more information, contact your authorized Hypertherm dealer or visit **www.hypertherm.com**.

³ For use in countries that require CE, CCC or GOST marks.

⁵ For use when divided arc voltage is not required.