

.13" (3.3 mm) D x .22" (5.5 mm) W

Handheld or mechanized plasma system for cutting and gouging metal

Capacity	Thickness	Cut speed	
	Handheld cut		
Recommended	1/2" (12 mm)	20 ipm (500 mm/min)	
	3/4" (20 mm)	10 ipm (250 mm/min)	
Severance	1" (25 mm)	5 ipm (125 mm/min)	
Pierce	1/2" (12 mm)*		
	* Pierce rating for handheld use or with	n automatic torch height control	
	Metal removal rate	Groove profile	



Key power supply advantages

Gouge capacity

6.2 lbs. (2.8 kg) per hour

- Small size and light weight provide unmatched portability among 12 mm (1/2") machines.
- Boost Conditioner™ (on CSA, 1-PH 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

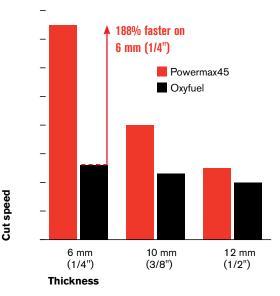
- Conical Flow™ increases arc energy density for superior cut quality with little dross.
- Patented drag-cutting technology makes it easy to use even for first-time operators.
- Dual-angle design extends nozzle life and lowers operating cost.

T45v hand torch

T45m machine torch



Relative cut performance on mild steel



Specifications

Input voltages	CSA 200-240 V, 1-PH, 50-60 Hz
(±10%)	480 V, 3-PH, 50-60 Hz
(,)	CE 230 V, 1-PH, 50–60 Hz
	400 V, 3-PH, 50-60 Hz
Input current @ 5.95 kW	CSA 200/230 V, 1-PH, 34/28 A
	480 V, 3-PH, 9 A
	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 (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
	CSA 50% @ 45 A, 480 V, 3-PH
	60% @ 41 A, 480 V, 3-PH
	100% @ 32 A, 480 V, 3-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 (16.75") D; 172 mm (6.75") W; 348 mm (13.7") H
Weight with 6.1 m (20') torch	CSA 17 kg (37 lbs)
• • • •	CE 16 kg (35 lbs)
Gas supply	Clean, dry, oil-free air or nitrogen
Recommended gas inlet	Cutting: 170 l/min (360 scfh, 6 scfm)
flow rate / pressure	@ 5.5 bar (80 psi)
	Gouging: 170 l/min (360 scfh, 6 scfm)
	@ 4.1 bar (60 psi)
Input power cable length	@ 4.1 bar (bU psi) 3 m (10') 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

	Thick	kness	Current	Maximum cut speed ¹	
Material	(mm)	(inches)	(amps)	(mm/min)	(ipm)
Mild steel	3	10 GA	45	4445	175
	6	1/4	45	1905	75
	10	3/8	45	1016	40
	12	1/2	45	635	25
	20	3/4	45	254	10
	25	1	45	127	5
Stainless steel	3	10 GA	45	3810	150
	6	1/4	45	1397	55
	10	3/8	45	813	32
	12	1/2	45	457	18
	20	3/4	45	229	9
Aluminum	3	10 GA	45	3810	280
	6	1/4	45	1397	100
	10	3/8	45	813	42
	12	1/2	45	457	25
	20	3⁄4	45	229	10

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.



Cut with confidence.

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

Ordering information

	Handheld systems		Mechanized systems			
Input voltages	T45v torch T45v torch 6.1 m (20') 15.2 m (50')		T45m torch 7.6 m (25')	T45m torch 10.7 m (35')	T45m torch 15.2 m (50')	
200-240 V CSA ²	088016	088017	088022	088023	088024	
480 V CSA ³	088072	088073				
230 V CE ⁴	088018	088019	088025	088026	088027	
400 V CE ⁴	088020	088021	088028	088029	088030	

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

³ For use in N. America.

⁴ For use in countries that require CE, CCC or GOST marks.

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
230 V CE	088015
400 V CE	088014

Component options

Cable	Torches		Control cables			
length	T45v	T45m	Remote pendant	CNC spade plug⁵	CNC spade plug ⁶	
6.1 m (20')	088008					
7.6 m (25')		088010	128650	228350	023206	
10.7 m (35')		088011				
15.2 m (50')	088009	088012	128651	228351	023279	

⁵ For use with automation equipment that requires divided arc voltage.

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
Duran authors	Used	30	220480	220569	220483	220478	220479
Drag-cutting	Hand	45	220671	220674	220713	220669	220670
Mechanized	Machine	45	220671	220673	220713 or 220719 (Ohmic)	220669	220670
Gouging	Hand		220672	220675	220713	220669	220670
	Machine		220012	220010	223110	220000	220010



Greener 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.



Engineered and assembled in the USA

ISO 9001:2008

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