Hypertherm®

powermax30®

Handheld plasma system for cutting metal

	Thickness	Cut speed
	Handheld cut capacity	
Recommended	1/4" (6 mm)	20 ipm (500 mm/min)
	3/8" (10 mm)	10 ipm (250 mm/min)
Severance	1/2" (12 mm)	5 ipm (125 mm/min)

T30v hand torch

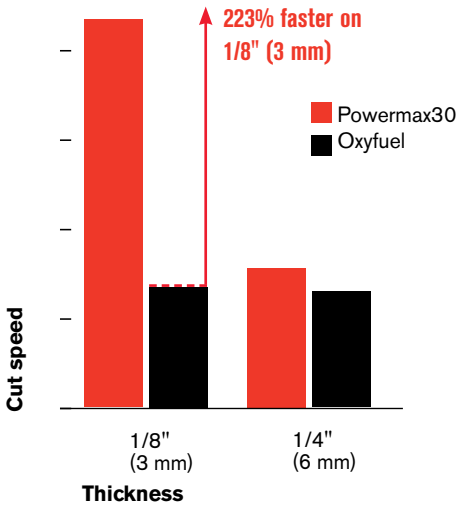
Key power supply advantages

- Small size and light weight provide excellent portability.
- Boost Conditioner™ compensates for input voltage variations, providing improved performance on low-line voltage, on motor generators and on fluctuating input power.
- Auto-voltage™ automatically adapts to any incoming power from 120 V – 230 V, single phase.
- Plug adapters provide improved versatility from the shop, to home, to the field.

Key torch advantages

- Tapered 75-degree torch provides excellent arc visibility, control, and access to hard-to-reach applications.
- FineCut®-like quality on thin material, while still delivering full performance on thicker metals.
- HyLife® electrode technology extends consumable life and lowers operating cost.
- Rapid refire delivers fast cut speeds on expanded metal.

Relative cut performance on mild steel



Specifications

Input voltages	CSA 120 – 230 V, 1-PH, 50/60 Hz CE 120 – 230 V, 1-PH, 50/60 Hz
Input current @ 2.49 kW	CSA 120 – 230 V, 1-PH, 26 – 13.5 A CE 120 – 230 V, 1-PH, 26 – 13.5 A
Output current	15 – 30 A
Rated output voltage	83 VDC
Duty cycle @ 40° C (104° F)	CSA 50%, 230 V 35%, 120 V CE 50%, 230 V 35%, 120 V
Open circuit voltage (OCV)	240 VDC
Dimensions with handles	14.0" (356 mm) D; 6.6" (168 mm) W; 12.0" (305 mm) H
Weight with 15' (4.5 m) torch	CSA 20 lbs (9.7 kg) CE 21 lbs (10 kg)
Gas supply	Air or N_2
Recommended gas inlet flow rate / pressure	240 scfh, 4 scfm (113 l/min) @ 80 psi (5.5 bar)
Input power cable length	10' (3 m)
Power supply type	Inverter – IGBT

Engine-driven generator operation

Engine drive rating (kW)	System output (amps)	Performance (arc stretch)
5.5	30	Full
4	25	Limited

Cut chart

Material	Thickness (inches)	Thickness (mm)	Current (amps)	Maximum cut speed[1] (ipm)	Maximum cut speed[1] (mm/min)
Mild steel	18 GA	1	30	394	10007
	10 GA	3	30	87	2210
	3/16	5	30	52	1321
	1/4	6	30	33	838
	3/8	10	30	15	381
Stainless steel	18 GA	1	30	399	10135
	10 GA	3	30	78	1981
	1/4	6	30	26	660
	3/8	10	30	11	279
Aluminum	18 GA	1	30	221	5613
	10 GA	3	30	55	1397
	1/4	6	30	24	610
	3/8	10	30	11	279

[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

Input voltages	System part numbers with 15' (4.5 m) T30v torch: Standard system	Deluxe system
120 – 230 V CSA[2]	088003	088004
230 V CE[3]	088005	088006

[2] For use in the Americas and Asia, except China.
[3] For use in countries that require CE, CCC or GOST marks.

Torch consumable parts

Consumable type	Torch type	Amperage	Nozzle	Shield/ Deflector	Retaining cap	Electrode	Swirl ring
Drag-cutting	Hand	30	220480	220569	220483	220478	220479

RoHS

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.

Engineered and assembled in the USA

ISO 9001:2008

Hypertherm®

Cut with confidence™

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