

Hypertherm®

powermax190c®

Handheld plasma system for cutting metal

Operating data

Cut capacity	Handheld
Recommended	1/8" (3 mm)
Maximum	3/16" (5 mm)
Severance	1/4" (6 mm)

Key advantages

- Integrated air compressor for convenient use on-site, in the field, or at home.
- Active electronic pilot arc controller improves productivity on grating without excessive nozzle wear.
- HyLife® technology extends electrode life.
- Nozzle shielding enables drag cutting for ease of use and longer consumable life for lower operating cost.
- Contact start eliminates high-frequency interference.

Applications

- Hand cutting

Standard system components

- Power supply with integrated air compressor
- PAC105 hand torch
- Extra consumables for cutting
- Work cable with clamp, 20' (6.1 m)



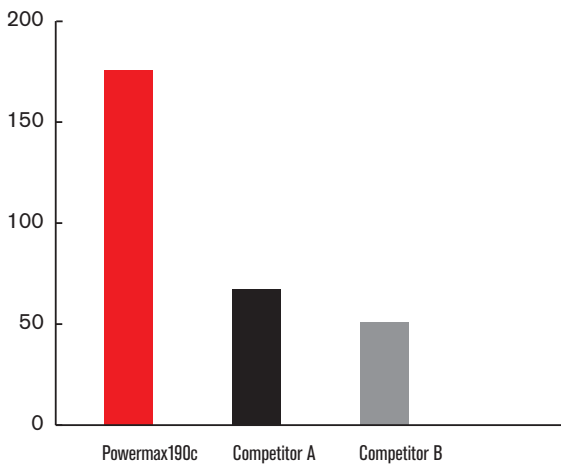
PAC105 hand torch

Specifications

Input voltages	120 V, 1-PH, 60 Hz, CSA
Input current @ 1.32 kW	20 A
Rated output voltage	110 VDC
Output current	12 A
Duty cycle @ 40°C (104°F)	35% @ 12 A
Maximum OCV	335 VDC
Dimensions	15.8" (400 mm) D; 8.5" (216 mm) W; 12" (305 mm) H
Weight with torch	46 lbs (20.9 kg)
Gas supply	On-board air compressor
Input power cable length	10' (3 m)
Work cable length	20' (6.1 m)
Warranty period	Full 3-year power supply warranty and a 1-year torch warranty.

Powermax190c versus other brands

Number of cuts



Cut chart

Material	Thickness		Current (amps)	Maximum cut speed*	
	(inches)	(mm)		(ipm)	(mm/min.)
Mild steel	18 GA	1.3	12	100	2540
	12 GA	2.7	12	26	660
	1/8	3.4	12	22	559
	3/16	4.7	12	16	406
	1/4	6.4	12	9	229

*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

	System part numbers With 20' (6.1 m) torch
120 V, 1-PH, 60 Hz CSA ¹	070783

¹ For use in the Americas and Asia, except China.

Capacity ratings

There is no industry standard for rating plasma systems, so it is important to take care when comparing products from different manufacturers.

Handheld cutting

Recommended – The thickness of mild steel on which the system delivers good cut quality and speeds at or greater than 20" (500 mm) per minute. Eighty percent or more of cutting should be at the recommended thickness.

Maximum – The thickness of mild steel on which the system delivers good cut quality but at reduced speeds of 10" (250 mm) per minute. Twenty percent or less of cutting should be at the maximum thickness.

Severance – The thickness of mild steel that can be reasonably severed, but with poor cut quality and at slow speed. Cutting the severance thickness should be infrequent.

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