Hypertherm®

powermax380®

High-Performance Portable Plasma Cutting System

1/4" (6 mm)	3/8" (10 mm)	1/2" (12 mm)
RECOMMENDED CAPACITY	MAXIMUM CAPACITY	SEVERANCE CAPACITY

ISO 9001

powermax380

The Leader In 115/230-volt Air Plasma Cutting Performance

The Powermax380 delivers outstanding plasma cutting performance and value to the sheetmetal contractor, fabricator and service professional. This portable system applies leading Hypertherm technology for the optimal use of the compressed air and 115/230-volt power most commonly available on the job site or in the shop. Superior portability and flexibility maximize on-demand productivity.

Powermax380 Makes These Industries More Productive:

- HVAC fabrication/installation
- Steel construction
- Plumbing and sprinkler installation
- Automotive repair
- Commercial kitchen installation
- Farm maintenance
- Metal artwork
- And much more

Superior Versatility and Performance

The Powermax380 delivers superior cut speed and quality on mild steel, galvanized, stainless and aluminum. With its easy-switching, dual-voltage (115/230 V) versatility, the Powermax380 combines the convenience of 115-volt operation wherever you go, with the added capacity supported by 230-volt input. At any setting, enjoy cut speeds two to ten times faster than with conventional mechanical (nibblers, snips and cutting wheels) or oxyfuel cutting processes, with excellent precision and edge quality.

- **Recommended Capacity:** metals* to ¼ inch (6 mm) at cutting speeds over 20 inches (500 mm) per minute.
- **Maximum Capacity:** metals* to ⅜ inch (10 mm) at cutting speeds over 10 inches (250 mm) per minute.
- **Severance Capacity:** rough cut on metals* up to ½ inch (12 mm) at low speed.

* The cut capacities noted above are on mild steel. Some metals, such as aluminum and stainless steel, may require up to a 20% reduction in cut speed and capacity.

Leading Power Supply Technology

Superior power supply design delivers Hypertherm's leading performance and versatility in a portable package.

- 27-amp, 2.43-kW output for enhanced speed and capacity.
- 115/230-volt dual-voltage system adapts quickly and easily to the power available.
- A boost circuit compensates for low-line conditions typical on work sites with long extension cords and shared circuits, while maintaining uncompromised performance.
- Advanced, digitally controlled design allows constant current control with infinite adjustment for the most consistent cut quality.
- Hypertherm's patented pilot-arc control circuit facilitates uninterrupted cutting on expanded metal or grating, while minimizing torch consumable wear.

The Smartest Torch Design

Hypertherm's patented PAC110T torch design delivers maximum performance and durability. The torch's intelligent features promote cut accuracy and speed, while enhancing productivity and life.

- Patented "blow-back" design generates a strong pilot arc for piercing metals through rust, paint and other coatings, without the electrical high frequency that can damage or interfere with sensitive electronics (PC's, phone systems, machine controllers, automobile microchips).
- No breakable ceramic torch parts; no special care required.
- Hypertherm's patented safety trigger protects against accidental starts.
- Durable clamshell handle design survives inevitable drops and field abuse.
- Post-flow cooling feature provides torch cooling after the cut for longer torch life and easier consumable handling. An interrupt feature automatically stops the post-flow for rapid re-firing.
- Safety interlocks deactivate the torch when consumables are removed.
- A built-in parts compartment keeps consumables close at hand.

A built-in parts compartment for on-site convenience.

- Backed by Hypertherm's full three-year power supply and one-year torch warranty.
- CSA/NRTL and CE safety certifications document safety compliance. Beware of systems without these important certifications.

Switching between 115 and 230-volt operation is quick and easy, for superior job-site versatility.

Additional Options for Specialized Requirements

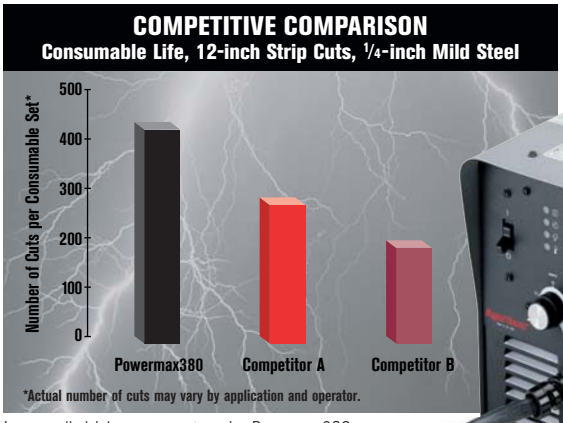
- **FineCut™ Consumables** for superior cut quality on thin plate, mild and stainless steel.
- **Circle Cutting Guide** for cutting measured circles.
- **Leather Cable Covers** for torch leads, providing additional protection against damage.

THREE YEAR WARRANTY

Engineered for Superior Field Reliability

The Powermax380 is designed to travel and work hard at the toughest job sites. With over 30 years dedicated exclusively to research and development of plasma cutting technology, Hypertherm's reliability is unsurpassed.

- Electro-mechanical design is validated through aggressive, accelerated life, stress, transportation and field-testing.
- Voltage sensing circuits protect against improper supply voltage.
- Designed to resist water damage (to IP23C standard).



In controlled laboratory testing, the Powermax380 cut 50% more steel per set of torch consumables than any major competitor tested – for superior operating value.

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Powermax380 System Components

Standard

- Power Supply
- PAC110T Torch 20' (6.1 m)
- Spare Consumables and Air Fitting
- Work Cable and Clamp 20' (6.1 m)

Options

- Circle Cutting Guide
- Leather Torch Lead Covers

Ordering Information

	System Part Numbers
	With 20' (6 m) Torch
115/230 V, 1 PH, 60 Hz, CSA	070075
115/230 V, 1 PH, 50 Hz, CE	070076

Operating Data

Recommended Capacity	¼" (6 mm)
Maximum Capacity	⅜" (10 mm)
Severance Capacity	½" (12 mm)

Material	Thickness (inches)	Thickness (mm)	Current (amps)	Approximate Travel Speed* (ipm)	Approximate Travel Speed* (mm/min)
Mild Steel	18 GA	1.3	27	160	4060
	10 GA	3.4	27	57	1460
	3/16	4.8	27	33	825
	¼	6.4	27	18	465
	⅜	9.5	27	12	325
Aluminum	18 GA	1.3	27	192	4875
	10 GA	3.4	27	51	1300
	3/16	4.8	27	29	735
	¼	6.4	27	13	345
	⅜	9.5	27	8	200
Stainless Steel	18 GA	1.3	27	156	3960
	10 GA	3.4	27	45	1150
	3/16	4.8	27	27	685
	¼	6.4	27	16	400
	⅜	9.5	27	8	220

*Travel speeds are approximately 80% of maximum.

A. Power On Indicator
B. Insufficient Air Pressure Warning
C. Torch Cap Sensor Warning
D. On/Off Switch
E. Over-Temperature Warning
F. Cutting Current Output Control 14 – 27 A
G. Air Pressure Gauge
H. Air Pressure Adjust Control Knob
I. Gas Test/Set Position

Specifications

(where indicated)

Input Voltages	115/230 V, 1 PH, 60 Hz, CSA 115/230 V, 1 PH, 50 Hz, CE Certified
Input Current @ 2.43 kW	115/230 V, 1 PH: 28/14 Amp
Output Voltage	92 VDC
Output Current	Adjustable, 14 – 27 Amps
Duty Cycle	35% @ 27 Amps, 40 °C (104 °F)
Maximum OCV	288 VDC
Dimensions	16" (406 mm) D; 8.5" (216 mm) W; 12" (305 mm) H
Weight with Torch	55 lbs (25 kg)
Gas Supply	Clean, dry, oil-free air
Flow Rate	270 scfh; 4.5 cfm (129 l/min)
Flow Pressure	60 psi (4.1 bar)

For additional information, call:
TOLL-FREE IN THE USA & CANADA:
1-800-643-0030

Hypertherm®
The world leader in plasma cutting technology™
www.hypertherm.com

Hypertherm, Inc. *USA 603-643-3441 Tel 603-643-5352 Fax manual.info@hypertherm.com*
Hypertherm Automation, LLC *USA 603-298-7970 Tel 603-298-7977 Fax info@hypermautomation.com*
Hypertherm Plasmatechnik, GmbH *Deutschland 49 6181 58 2100 Tel 49 6181 58 2134 Fax HTDeutschland.info@hypertherm.com*
Hypertherm (S) Pte Ltd *Singapore 65 6 841 2489 Tel 6 65 841 2490 Fax HTSingapore.info@hypertherm.com*
Hypertherm UK, Ltd *England 44 1928 579 074 Tel 44 1928 579 604 Fax HTUK.info@hypertherm.com*
France *00 800 3324 9737 Tél 00 800 4973 7329 Fax HTFrance.info@hypertherm.com*
Hypertherm S.r.l. *Italia 39 02 725 46 312 Tel 39 02 725 46 400 Fax HTItalia.info@hypertherm.com*
Hypertherm Europe B.V. *Nederland 31 165 59 69 08 Tel 31 165 59 69 01 Fax HTEurope.info@hypertherm.com*
Japan *81 05 5975 7387 Tel 81 05 5975 7376 Fax HTJapan.info@hypertherm.com*
Hypertherm Brasil Ltda. *55 21 2278 6162 Tel 55 21 2578 0947 Fax HTBrasil.info@hypertherm.com*

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