HYPERTHERM
A Hypertherm Associates Brand

7 reasons plasma cutting outperforms oxyfuel



Hypertherm Powermax® delivers the highest reliability, cut quality, and ease of use, providing operators with health, safety, and efficiency benefits over cutting with oxyfuel and abrasive discs.

1

Better cut quality

Plasma cuts have less dross, less warping, and a smaller heat-affected zone.

2

Cuts more parts faster

With significantly faster cut speeds, plasma outperforms oxyfuel even before you consider oxyfuel's preheat time and secondary operations.

3

Parts cost less

With operating costs spread over more parts per hour, and with less time spent on secondary operations, you have a lower cost per part.

4

More profitable

Lower operating costs and greater productivity result in more profit for you.

5

Easier to use

No gases to regulate, no flame chemistry to master. And there's no standoff to maintain. Hypertherm torches are designed for dragging the torch across the plate.

6

Increased flexibility

Cut mild steel, aluminum, stainless, copper, and most other metals. Cut by hand, with a track or pipe cutter, or on an X-Y table. Cut stacked metal, metal grate, or even rusty or painted pieces.

7

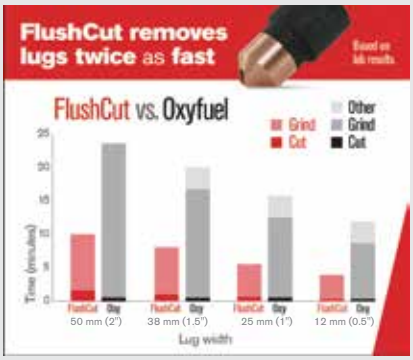
Uses only air for improved safety

No flammable gases required. With Powermax systems, compressed air is the only gas you need. The most popular fuel gas for oxyfuel is acetylene, a highly flammable and unstable gas.

Optimize gouging with plasma



FlushCut removes lugs twice as fast



More precise cuts with plasma



Why Powermax?

Powermax is the world's most versatile family of portable plasma cutters, delivering maximum productivity and unmatched reliability. With the industry's most extensive handheld and automated cutting, marking, and gouging capabilities, customers can confidently tackle any job with superior cut quality and minimized secondary operations—at a lower total cost of ownership. Easy to use. Versatile. Reliable.

The best in the world is worth the investment.



	Powermax30® AIR	Powermax33® XP	Powermax45 SYNC®	Powermax65 SYNC®	Powermax85 SYNC®	Powermax105 SYNC®	Powermax125®
Recommended cut capacity	8 mm (5/16")	13 mm (1/2")	16 mm (5/8")	20 mm (3/4")	25 mm (1")	32 mm (1-1/4")	38 mm (1-1/2")
Severance cut capacity	16 mm (5/8")	20 mm (3/4")	29 mm (1-1/8")	32 mm (1-1/4")	38 mm (1-1/2")	50 mm (2")	57 mm (2-1/4")
Output range	15–30	15–33	10–45	20–65	25–85	30–105	30–125
Input phase	Single	Single	Single or three	Single or three	Single or three	Three	Three

Application capabilities

Mechanized cutting			●	●	●	●	●
Drag cutting	●	●	●	●	●	●	●
FlushCut™				●	●	●	●

Consumables for portable automation, CNC table and robotic cutting.

Consumables for placing the torch directly on the work piece without a standoff.

FlushCut consumables for cutting closer to base materials as possible without piercing or damaging the workpiece.

*Mark and cut with the same cartridge

Scan QR code to learn more.

Unless otherwise noted in the collateral, all trademarks are property of Hypertherm, Inc. and may be registered in the United States and/or other countries.

Please visit www.hypertherm.com/patents for more details about Hypertherm Associates patent numbers and types.

© 7/2026 Hypertherm, Inc. Revision 10

895700

HYPERTHERM ASSOCIATES®

As 100% Associate owners, we are all focused on delivering a superior customer experience. www.hyperthermassociates.com/ownership

Environmental stewardship is one of Hypertherm Associates' core values. www.hyperthermassociates.com/environment

100% Associate-owned

Greener Cuts