

# Hypertherm®

## Powermax 105®

Professional-grade plasma metal cutting system for mechanized piercing 20 mm.

Capacity	Thickness	Cut speed
Severance	50 mm	125 mm / min
Pierce	20 mm	500 mm / min

### Maximum productivity

- Finish jobs faster with cut speeds three times greater than oxyfuel on 12 mm mild steel.
- Spend less time on grinding and edge preparation due to superior cut and gouge quality.

### Low operating costs

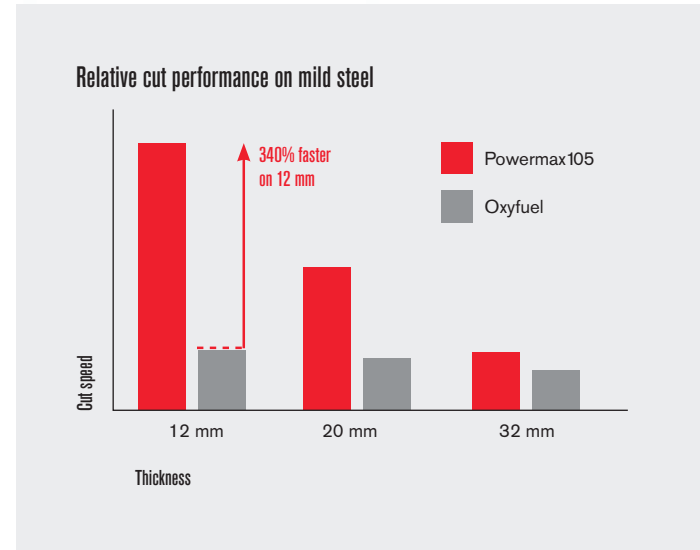
- Reduce costs with long consumable life and more uptime.
- Electrode end-of-life detection protects the torch and workpiece from damage by automatically stopping power when the electrode is overused.

### Easy-to-use for cutting

- No need to change the air pressure. Smart Sense™ technology ensures that it is always correctly set.

### Built and tested to withstand the harshest conditions

- Duramax™ torches are designed for high-impact and heat resistance.
- SpringStart™ technology ensures consistent starting and a more reliable torch.
- Low maintenance for maximum uptime.



## Specifications

Input voltages	200-600 V, 3-PH, 50/60 Hz
Kilowatt output	16.8 kW
Input current @ 16.8 kW	200/208/240/480/600 V, 3-PH 58/56/49/25/22 A
Output current	30-105 A
Rated output voltage	160 VDC
Duty cycle @ 104° F (40° C)	70% @ 105 A, 240 V, 3-PH 80% @ 105 A, 480-600 V, 3-PH 100% @ 94 A, 480-600 V, 3-PH 100% @ 88 A, 240 V, 3-PH
Open circuit voltage (OCV)	300 VDC
Dimensions with handles	23.3" D; 10.8" W; 20.0" H
Weight w/25' torch	100 lbs
Gas supply	Clean, dry, oil-free air or nitrogen
Recommended gas inlet flow rate/pressure	Cutting: 460 scfh, 7.7 scfm @ 85 psi Gouging: 480 scfh, 8.0 scfm @ 70 psi
Input power cable length	10'
Power supply type	Inverter - IGBT
Engine drive requirement	30 kW for full 105 A output
Certifications	GSA-certified for use in the Americas and Asia, except China
Warranty	Power supplies have a 3-year warranty and torches a 1-year warranty

Engineered and assembled in the USA

ISO 9001:2008

Environmental stewardship is a core value of Hypertherm. Our Powermax products are engineered to meet and exceed global environmental regulations including the RoHS directive.



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**Cut with confidence**<sup>®</sup>

