

Hypertherm®

Powermax105®

Professional-grade plasma metal cutting and gouging system for handheld cutting 32 mm and mechanized piercing 22 mm.



Capacity	Thickness	Cut speed
Cutting		
Recommended	32 mm	500 mm/min
	38 mm	250 mm/min
Severance (hand cutting)	50 mm	125 mm/min
Pierce*	22 mm	

* Pierce rating for handheld use or with automatic torch height control

Capacity	Metal removal rate	Groove profile
Gouging		
Typical gouge	9,8 kg per hour	6,4 mm D x 7,4 mm W

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 and gouging

- No need to change the air pressure. Smart Sense™ technology ensures that it is always correctly set.
- Drag cut at full output with a patented shield that reduces dross buildup for smoother cutting.
- Tackle different jobs with multiple, easy-to-use torch styles.

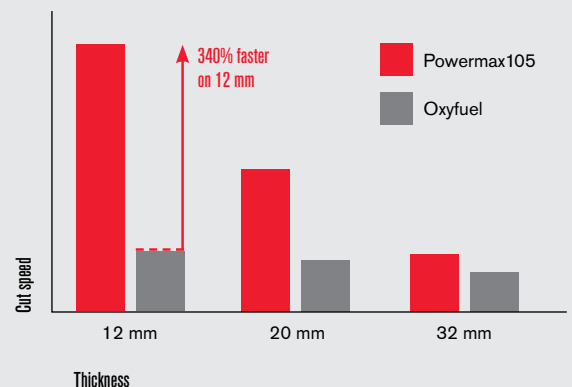
Built and tested to withstand the harshest conditions

- 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.

Duramax standard torch styles
(for more torch options, see www.hypertherm.com)



Relative cut performance on mild steel



Specifications

Input voltages	230-400 V, 3-PH, 50/60 Hz 400 V, 3-PH, 50/60 Hz
Kilowatt output	16,8 kW
Input current @ 16,8 kW	230/400 V, 3-PH, 50/29 A
Output current	30-105 A
Rated output voltage	160 VDC
Duty cycle @ 40° C	230-400 V 70% @ 105 A, 230 V 3-PH 80% @ 105 A, 400 V, 3-PH 100% @ 94 A, 400 V, 3-PH 100% @ 88 A, 230 V, 3-PH 400 V 80% @ 105 A, 400 V, 3-PH 100% @ 94 A, 400 V, 3-PH
Open circuit voltage (OCV)	230-400 V 288 VDC 400 V 292 VDC
Dimensions with handles	592 mm D; 274 mm W; 508 mm H
Weight w/7,6 m torch	45 kg (230-400 V) 41 kg (400 V)
Gas supply	Clean, dry, oil-free air or nitrogen
Recommended gas inlet flow rate/pressure	Cutting: 217 l/m @ 5,9 bar Gouging: 227 l/m @ 4,8 bar
Input power cable length	3 m
Power supply type	Inverter - IGBT
Engine drive requirement	30 kW for full 105 A output
Certifications	CE, C-Tick, CU/GOST, Ukr, and Serbian — for use in Europe, Australia, Belarus, Kazakhstan, Russia, Serbia, Ukraine, and other countries where accepted.
Warranty	Power supplies have a 3-year warranty and torches a 1-year warranty

