

Hypertherm®

Powermax85®

Professional-grade plasma metal cutting and gouging system for handheld cutting 25 mm and mechanized piercing 20 mm.



Capacity	Thickness	Cut speed
	Cutting	
Recommended	25 mm	500 mm/min
	32 mm	250 mm/min
Severance (hand cutting)	38 mm	125 mm/min
Pierce*	20 mm	

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

Capacity	Metal removal rate	Groove profile
	Gouging	
Typical gouge	8,8 kg per hour	5,8 mm D x 7,1 mm W

Maximum productivity

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

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.

Low operating costs

- Reduce costs with long consumable life and more uptime.
- High power efficiency lowers energy consumption.

Built and tested to withstand the harshest conditions

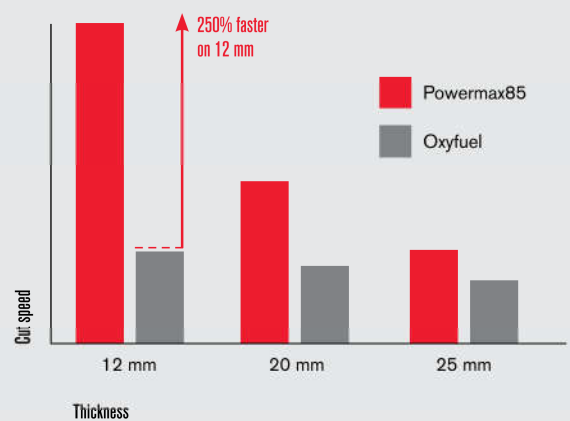
- Duramax™ torches are designed for high-impact and heat resistance.
- SpringStart™ technology ensures consistent starting and a more reliable torch.
- Low maintenance for maximum uptime.

Duramax standard torch styles

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



Relative cut performance on mild steel



Specifications

Input voltages	400 V, 3-PH, 50/60 Hz
Kilowatt output	12,2 kw
Input current @ 12,2 kW	380/400 V, 3-PH, 20,5/19,5 A
Output current	25–85 A
Rated output voltage	143 VDC
Duty cycle @ 40° C	60% @ 85 A, 380/400 V, 3-PH 100% @ 66 A, 380/400 V, 3-PH
Open circuit voltage (OCV)	270 VDC
Dimensions with handles	500 mm D; 234 mm W; 455 mm
Weight w/7,6 m torch	28 kg
Gas supply	Clean, dry, oil-free air or nitrogen
Recommended gas inlet flow rate/pressure	Cutting: 189 l/min @ 5,6 bar Gouging: 212 l/min @ 4,8 bar
Input power cable length	3 m
Power supply type	Inverter – IGBT
Engine drive requirement	20 kW for full 85 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



Ordering information

Below are the standard system configurations, which include a power supply, torch and work cable.

	75° hand torch		75° and 15° hand torch		180° full-length machine torch						180° full-length machine torch and 75° hand torch
	7,6 m	15,2 m	7,6 m	15,2 m	7,6 m		15,2 m				7,6 m
Power supplies		With Eliminator filter and cover		without remote pendant	with remote pendant	without remote pendant	with I/O cables (no pendant)	with remote pendant	without remote pendant	with I/O cables (no pendant)	with remote pendant
Standard power supply	087117	087120	087118								
Power supply with CPC port and voltage divider	087122		087123	087146	087147	087124	087131		087125		087136
Power supply with CPC port, voltage divider, and serial port							087139			087141	





R.D. VINCENT (PTY) LTD REG. NO. 1975/004192/07 Trading as:

VINCENT INDUSTRIAL SUPPLIES

P.O. BOX 1249
WITBANK
1035
48 INDUSTRIA CRESCENT
EXTENSION 25
WITBANK
TEL: 013 692 8151/2/3
FAX: 013 692 8154
dennis@vincentis.co.za

WEBSITE: <http://www.vincentis.co.za>