

# Hypertherm®

## Powermax65®

Professional-grade plasma metal cutting and gouging system for handheld cutting 20 mm and mechanized piercing 16 mm.



Capacity	Thickness	Cut speed
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Cutting		
Recommended	20 mm	500 mm/min
	25 mm	250 mm/min
Severance (hand cutting)	32 mm	125 mm/min
Pierce*	16 mm	

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

Capacity	Metal removal rate	Groove profile
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Gouging		
Typical gouge	4,8 kg per hour	3,5 mm D x 6,6 mm W

### Maximum productivity

- Finish jobs faster with cut speeds one 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

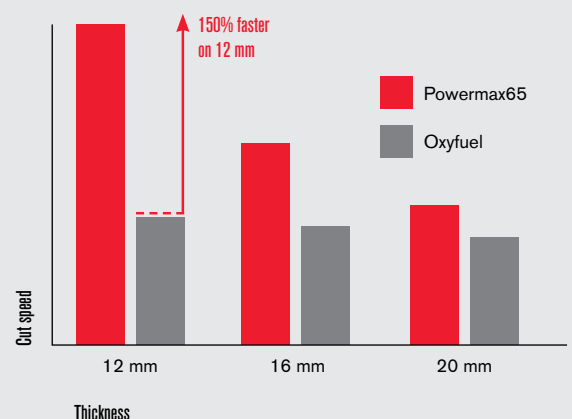
- Duramax® torches are designed for high-impact and heat resistance.
- SpringStart™ technology ensures consistent starting and a more reliable torch.
- Low maintenance for maximum uptime.

### Duramax standard torch styles

(for more torch options, see [www.hypertherm.com](http://www.hypertherm.com))



### Relative cut performance on mild steel



## Specifications

Input voltages	400 V, 3-PH, 50/60 Hz
Kilowatt output	9 kW
Input current @ 9 kW	380/400 V, 3-PH, 15,5/15 A
Output current	20–65 A
Rated output voltage	139 VDC
Duty cycle @ 40° C	50% @ 65 A 100% @ 46 A
Open circuit voltage (OCV)	270 VDC
Dimensions with handles	500 mm D; 234 mm W; 455 mm H
Weight w/7,6 m torch	26 kg
Gas supply	Clean, dry, oil-free air or nitrogen
Recommended gas inlet flow rate/pressure	Cutting: 189 l/m @ 5,9 bar Gouging: 212 l/m @ 4,8 bar
Input power cable length	3 m
Power supply type	Inverter – IGBT
Engine drive requirement	15 kW for full 65 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. Additional mechanized configurations are listed on our web site.

	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 Eliminer 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	083279	083282	083280								
Power supply with CPC port and voltage divider	083284		083285	083309	083310	083286	083293		083287		083301
Power supply with CPC port, voltage divider, and serial port							083304			083306	



## Custom configurations (select power supply, torch, consumable kit, work cable, and other components)

### Power supply options

	Standard power supply	Power supply with CPC port and voltage divider	Power supply with CPC port, voltage divider, and serial port
400 V	083235	083268	083269

### Starter kit consumable options

	Handheld	Mechanized	Mechanized with ohmic retaining cap
Kit	228963	228964	228965

### Torch options

Cable length	Hand torches		Machine torches		Robotic torches		
	75°	15°	180°	Mini 180°	45°	90°	180°
4,5 m			059476	059481			
7,6 m	059473	059470	059477	059482	059464	059465	059466
10,7 m			059478	059483			
15,2 m	059474	059471	059479	059484	059585	059586	059587
22,8 m	059475	059472	059480				

### Cable options

Cable length	Work cables				Control cables				
	Hand clamp	C-style clamp	Ring terminal	Remote pendant	CNC, spade connector, divided voltage	CNC, spade connector, no divided voltage	CNC, D-sub connector, divided voltage	RS-485 Serial comm, unterminated	RS-485 Serial comm, D-sub
7,6 m	223125	223194	223200	128650	228350	023206	223048	223236	223239
15,2 m	223126	223195	223201	128651	228351	023279	123896	223237	223240
22,8 m	223127	223196	223202	128652					

## Torch consumable parts

Nozzles and electrodes are available in various quantities. Contact your distributor for more information.

Consumable type	Torch type	Amperage	Nozzle	Shield/Deflector	Retaining cap	Electrode	Swirl ring
Drag-cutting	Hand	45	220941	220818	220854	220842	220857
		65	220819				
Mechanized	Machine	45	220941	220817 or 220955 <sup>1</sup>	220854 or 220953 <sup>2</sup>	220842	220857
		65	220819				
FineCut®	Hand	45	220930	220931	220854 or 220953 <sup>2</sup>	220842	220947
	Machine			220948			
Max control gouging	Hand/ Machine	20-65	220797	420480	220854	220842	220857
Max removal gouging	Hand/ Machine	20-65	220797	220798	220854	220842	220857

<sup>1</sup> Deflector for unshielded cutting

<sup>2</sup> Ohmic retaining cap

## Recommended Hypertherm genuine accessories



### Hyamp™ helmet

Premium auto-dim shade 8–12 with large 5100 square mm viewing area for cutting, welding and gouging. Includes clear safety shields, pouch and sticker sheet. ANSI Z87.1, CSA Z94.3, CE

017031



### Leather torch sheathing

Available in 7,6 m sections, this option provides additional protection for torch leads against burn-through and abrasion.

024877 Black leather with Hypertherm logos



### Wheel/gantry kits

Complete, pre-assembled kits for added mobility.

229370 Powermax65/85 wheel kit

229569 Powermax65/85 gantry kit



### Air filtration kit

A ready-to-install kit with a 1-micron filter and an auto drain moisture separator protects against contaminated air.

228570 Filter plus cover for Powermax65/85

011092 Replacement filter element for Eliminator

228624 Cover only for Powermax65/85



### System dust covers

Made from a flame-retardant vinyl, a dust cover will protect your Powermax system for years.

127301 Cover, Powermax65



### Hyamp cutting and gouging gloves

Insulated for heavy duty applications. Fire resistant goatskin leather and suede. Padded areas for extra heat and abrasion protection.

017025 Medium

017026 Large

017027 X-Large

017028 2X-Large

ISO 9001:2008

Environmental stewardship is one of Hypertherm's core values, and it is critical to our success and our customers' success. We are striving to reduce the environmental impact of everything we do. For more information: [www.hypertherm.com/environment](http://www.hypertherm.com/environment).

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ABN 21 060 672 979



# TOOWOOMBA WELDING SUPPLIES

Ph: 07 4659 0044  
500 Boundary Street, Toowoomba QLD 4350  
E: [sales@tweld.com.au](mailto:sales@tweld.com.au) | [www.tweld.com.au](http://www.tweld.com.au)

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SHAPING POSSIBILITY™

We deliver on time ... **EVERYTIME**  
We are an Australian locally owned family business

