

# Powermax45 SYNC

Recommended cut capacity of 16 mm (5/8")
Severance capacity of 29 mm (1 1/8")
Professional grade



Part of the Powermax family, Powermax45 SYNC® features built-in intelligence and patented single-piece cartridges for hand cutting, gouging, or mechanized cutting.

## Key business benefits

#### Simplify operations and boost productivity

Single-piece cartridge simplifies operations and dramatically reduces training time

#### Minimize operating costs

Up to 5x longer consumable life compared to competitors decreases operating costs

#### Reduce secondary operations

Improved cut quality over consumable life delivers better part consistency to reduce secondary operations

# Powermax45 SYNC cut and gouge capacities

Capacity	Thickness	Cut speed
	Cutting	
Recommended	16 mm (5/8")	500 mm/min (20 ipm)
Severance (hand cutting) 29 mm (1-1/8")		125 mm/min (5 ipm)
Pierce* 12 mm (1/2")		
*Pierce rating for handh	eld use or with automatic torch height con	trol
Capacity	Metal removal rate	Groove profile
	Gouging	
Typical gouge	3.4 kg (7.5 lbs) per hour	3.2 mm (.12") D x 6,8 mm (.26") W

Kilowatt output	6.9 kW

# Powermax45 SYNC. Easy to use. Versatile. Reliable.

For metal workers who want the most versatile system available to gouge, cut, and mark, Powermax45 SYNC delivers the best return on investment with a patented single-piece cartridge, up to 5x longer consumable life, and greater cutting power than higher-amperage competitors.

Our proprietary single-piece, color-coded cartridges help operators eliminate mix-ups, simplify inventory management, and decrease operating costs.





# Highlighted product features:

#### Easy to use

- A patented single-piece cartridge eliminates operator error and simplifies operations
- Advanced torch communication for automated setup improves cut quality
- Easy to set up for mechanized usage with optional CNC interface and FastConnect™ torch connection

#### Versatile

- Gain greater cutting power than higher-amperage competitors
- Expand application capabilities with a wide variety of specialty cartridges and torches
- Cut and mark using the same FineCut® cartridge

#### Industry-leading reliability

- Powermax plasma cutters are known to last decades in the field, minimizing maintenance and downtime
- SmartSYNC® torches are engineered for rugged industrial environments
- Each Powermax component is tested to perform reliably in demanding conditions

# Our customers' preferred cutting tool for industries including:

- Job shops/fabricators
- Property/plant maintenance
- HVAC/mechanical contracting
- Educational/trade schools
- Agricultural/equipment maintenance

#### **Specifications**

CE – for use in Europe, Australia, New Zealand, Belarus, Kazakhstan, Serbia, Ukraine, and other countries where accepted. Also RCM, Ukraine, and Serbian. UKCA – Great Britain

#### CCC - for use in China

CSA - for use in the Americas and Asia, except China

GE GGG GSA Specifications		CE	CCC	CSA	Specifications
---------------------------	--	----	-----	-----	----------------

UE	uuu	USA	Specifications			
Innut vol	tages (± 1	no%)				
input voi	tayes (± 1	U 70)	200-240 V, 1-PH, 50-60 Hz			
			480 V, 3-PH, 50-60 Hz1			
L	L		230 V, 1-PH, 50-60 Hz			
	<u></u>		400 V, 3-PH, 50-60 Hz			
	rrent @ 6.	5 kW	7.00 3, 0 3 3, 0 3 30 30			
		<u> </u>	200-240 V, 1-PH, 39/32 A			
$\vdash$	$\vdash$		230 V, 1-PH, 33 A			
$\vdash$	$\vdash$		400 V, 3-PH, 10 A			
Output c	urrent		9–45 A			
Rated ou	tput volta	ge	155 VDC			
Duty cycle @ 40° C (104° F)						
		<u></u>	50% @ 45 A, 200-240 V, 1-PH			
		$\vdash$	60% @ 41 A, 200-240 V, 1-PH			
		$\vdash$	100% @ 32 A, 200-240 V, 1-PH			
		$\vdash$	50% @ 45 A, 480 V, 3-PH			
		$\vdash$	60% @ 41 A, 480 V, 3-PH			
		$\vdash$	100% @ 32 A, 480 V, 3-PH			
<u></u>	<u> </u>		50% @ 45 A, 230 V, 1-PH			
<b>-</b>			60% @ 41 A, 230 V, 1-PH			
<b>→ →</b>			100% @ 32 A, 230 V, 1-PH			
L			50% @ 45 A, 400 V, 3-PH			
<u></u>	<u></u>		60% @ 41 A, 400 V, 3-PH			
	cuit voltag	o (OCV)	100% @ 32 A, 400 V, 3-PH			
Upen cm	Guit Voitay	e (UGV)	975 VDC 900 940 V			
	<b>→</b>	L	275 VDC 200-240 V 275 VDC 480 V			
L	L		265 VDC 400 V			
	ons with h	andles	442 mm (17.4") D; 173 mm (6.8") W; 357 mm (14.1") H			
		(20') torch	772 mm (17.7 ) B, 170 mm (6.0 ) W, 307 mm (17.1 ) H			
Weight	VILII 0.1 III		14 kg (31 lbs.)			
L	L		15 kg (33 lbs.)			
Gas supp			Cutting: air (clean, dry and oil-free), nitrogen, F5			
uas supp	ııy		Gouging: air (clean, dry and oil-free), nitrogen, F5			
			Marking: air (clean dry and oil-free)			
Recommended gas inlet flow rate/pressure		inlet flow	188 l/min (400 scfh) @ 5.9 bar (90 psi)			
Input power cable length		length	3 m (10")			
Power su	ipply type		Inverter - IGBT			
Engine d	rive requir	ement	12.5 kVA (10 kW) for full 45 A output			
Electrica	ıl efficiend	;y	90%			
Recyclab	ility		100%			
Warranty	y		Power supply: 3-year, Torch: 1-year			

# Ordering information

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

Ukra Also CCC	aine, and RCM, U - for u	d other ( Ikraine, se in Ch	pe, Australia, New Zealand, Belarus, Kazakhstan, Serbia, ountries where accepted. and Serbian. UKCA – Great Britain na Americas and Asia, except China	75° har	nd torch	75° and 15° hand torch		o° full-ler achine to		180° full-length machine torch and 75° hand torch
CE	ccc	CSA	Torch lead length	6.1 m (20')	15.2 m (50')	6.1 m (20') and 7.6m (25')	7.6 m	ı (25')	15.2 m (50')	7.6m (25') and 6.1 m (20')
-01	000	OUN	✓ = With remote pendant					•		<b>✓</b>

Powermax45 SYNC® power supplies			Handheld			Mechanized				
230V CSA standard power supply 0		088560	088561	088564						
230V CSA power supply with CPC port and voltage divider		088562	088563		088580	088582	088581	088583		
	230V CSA power supply with CPC port, voltage divider board, and serial port					088584				
L	<b>,</b> L		400V CE/CCC standard power supply	088565	088566					
L	<b>,</b> L		400V CE/CCC power supply with CPC port and voltage divider	088567			088585		088586	
L	<b>,</b> L		230V CE/CCC standard power supply	088568						
L	230V CE/CCC power supply with CPC port and voltage divider		088569			088587				

# **Custom configurations**

Select power supply, torch, work cable, cartridge, and other components.

### Power supply options

CE – for use in Europe, Australia, New Zealand, Belarus, Kazakhstan, Serbia, Ukraine, and other countries where accepted. Also RCM, Ukraine, and Serbian. UKCA – Great Britain  CCC –for use in China  CSA – for use in the Americas and Asia, except China  CE CCC CSA	Standard	With CPC port and voltage divider	With CPC port, voltage divider and serial port
► Powermax45 SYNC 230V CSA	088570	088571	088572
Powermax45 SYNC 480V CSA	088573		
Powermax45 SYNC 400V CE/CCC	088574	088575	088576
Powermax45 SYNC 230V CE/CCC	088577	088578	088579

#### **Torch options**

	Hand t	torches		Long	torches		Macl torcl
	75°	15°	0.6 m (2'), 45°	0.6 m (2'), 90°	1.2 m (4'), 45°	1.2 m (4'), 90°	180
4.5 m (15')							
7.6 m (25')	059726	059723			528114		059
10.7 m (35')							059
15.2 m (50')	059727	059724	528116	528117	528118	528119	059
30 m (100')	059770						

Machine torches		Robotic/Mini	
180°	180°	90°	45°
	059733		
059719	059734	059731	059729
059720			
059721	059735	059732	059730

#### Cable options

	Work cables			Control cables		
Cable length	Hand clamp	Remote pendant	CNC, spade connector, divided voltage	CNC, spade connector, no divided voltage	RS-485 Serial comm, unterminated	RS-485 Serial comm, D-sub
7.6 m (25')	223595	128650	228350	023206	223236	223239
15.2 m (50')	223596	128651	228351	023279	223237	223240
22.8 m (75')	223127	128652				

#### Powermax cartridge options

	Drag cutting	Mechanized/standoff cutting	Max removal gouging	Max control gouging	Ohmic ring kit
45 A	428927	428925	428932	428933	428895*

	Fine	Cut®		
	Handheld	Mechanized		
30-45 A	428928	428926		

#### **Accessories**

Part Number	Description
528083	Hypertherm Cartridge Reader
128647	Eliminizer Air Filtration Kit, 1-micron filter and auto-drain moisture separator
024877	Leather Torch Lead Cover with hook and loop closure, Black, 7.6 m (25') section
027669	Plasma Circle Cutting Guide, SmartSYNC Deluxe Kit with magnetic base
127219	System Storage Dust Cover, Powermax45/45 XP/45 SYNC



#### Learn more at www.hypertherm.com/powermax45sync

Hypertherm, Powermax, FastConnect, SmartSYNC, and FineCut are trademarks of Hypertherm, Inc. and may be registered in the United States and/or other countries. All other trademarks are the properties of their respective owners.

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

© 1/2024 Hypertherm, Inc. Revision 0

898550

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



