

# 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 hand	lheld use or with automatic torch height	control
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

CE CCC CSA Specifications

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Input voltages (± 10%)	
$\vdash$	200-240 V, 1-PH, 50-60 Hz
L <sub>y</sub>	480 V, 3-PH, 50-60 Hz1
L	230 V, 1-PH, 50–60 Hz
<u></u> Ц	400 V, 3-PH, 50–60 Hz
Input current @ 6.5 kW	100 1,0 1 11,00 00 112
L)	200-240 V, 1-PH, 39/32 A
L	230 V, 1-PH, 33 A
L, L,	400 V, 3-PH, 10 A
Output current	9-45 A
Rated output voltage	155 VDC
	133 400
Duty cycle @ 40° C (104° F)	
<u> </u>	50% @ 45 A, 200-240 V, 1-PH
<u> </u>	60% @ 41 A, 200-240 V, 1-PH
<u> </u>	100% @ 32 A, 200-240 V, 1-PH
<u></u>	50% @ 45 A, 480 V, 3-PH
<u></u>	60% @ 41 A, 480 V, 3-PH
L	100% @ 32 A, 480 V, 3-PH
L L	50% @ 45 A, 230 V, 1-PH
L L	60% @ 41 A, 230 V, 1-PH
L L	100% @ 32 A, 230 V, 1-PH
<u> </u>	50% @ 45 A, 400 V, 3-PH
L L	60% @ 41 A, 400 V, 3-PH
<b>Ь Ь</b>	100% @ 32 A, 400 V, 3-PH
Open circuit voltage (OCV)	
L→         L→	275 VDC 200-240 V
$\vdash$	275 VDC 480 V
<u></u> Ь Ь	265 VDC 400 V
Dimensions with handles	442 mm (17.4") D; 173 mm (6.8") W; 357 mm (14.1") H
Weight with 6.1 m (20') torc	h
<b>⊢</b>	14 kg (31 lbs.)
<b>Ь Ь</b>	15 kg (33 lbs.)
Gas supply	Cutting: air (clean, dry and oil-free), nitrogen, F5
,	Gouging: air (clean, dry and oil-free), nitrogen, F5
	Marking: air (clean dry and oil-free)
Recommended gas inlet flow rate/pressure	188 I/min (400 scfh) @ 5.9 bar (90 psi)
Input power cable length	3 m (10")
Power supply type	Inverter - IGBT
Engine drive requirement	12.5 kVA (10 kW) for full 45 A output
Electrical efficiency	90%
Recyclability	100%
Warranty	Power supply: 3-year, Torch: 1-year

# **Ordering information**

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

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	75° hand	d torch	75° and 15° hand torch	180° full-l machine	•	180° full-length machine torch and 75° hand torch
CE CCC CSA Torch lead le	ngth 6.1 m (20')	15.2 m (50')	6.1 m (20') and 7.6m (25')	7.6 m (25')	15.2 m (50')	7.6m (25') and 6.1 m (20')
✓ = With remote pen	lant			•		<b>✓</b>

	Powermax45 SYNC® power supplies				Handheld			Mechanized			
	230V CSA standard power supply 0			088560	088561	088564					
		$\mapsto$	230V CSA power supply with CPC port and voltage divider	088562	088563		088580	088582	088581	088583	
		<b>L</b>	230V CSA power supply with CPC port, voltage divider board, and serial port				088584				
$\mapsto$	Ь		400V CE/CCC standard power supply	088565	088566						
$\mapsto$	Ь		400V CE/CCC power supply with CPC port and voltage divider	088567			088585		088586		
$\mapsto$	Ь		230V CE/CCC standard power supply	088568							
$\mapsto$	Ь		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	Standard	With CPC port and voltage divider	With CPC port, voltage divider and serial port	
CSA – for use in the Americas and Asia, except China  CE CCC CSA				
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**

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	Hand torches		Long torches			Machine torches	Robotic/Mini			
	75°	15°	0.6 m (2'), 45°	0.6 m (2'), 90°	1.2 m (4'), 45°	1.2 m (4'), 90°	180°	180°	90°	45°
4.5 m (15')								059733		
7.6 m (25')	059726	059723			528114		059719	059734	059731	059729
10.7 m (35')							059720			
15.2 m (50')	059727	059724	528116	528117	528118	528119	059721	059735	059732	059730
30 m (100')	059770									

### 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

	FineCut*  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

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