

Powermax105 SYNC

Recommended cut capacity of 32 mm (1-1/4")

Severance capacity of 50 mm (2")

Professional grade



Part of the Powermax[®] family, the Powermax105 SYNC features advanced torch communication for automated setup and patented single-piece cartridges for hand cutting, mechanized or robotic cutting, and gouging.

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

Powermax105 SYNC. Easy to use. Versatile. Reliable.

For metal workers who want the most versatile system available to gouge and cut, Powermax105 SYNC delivers the best return on investment. It features a patented singlepiece cartridge, greater cutting power than higher-amperage competitors, an automated system process set-up, and SmartSYNC® torches that provide trackable utilization data.

Powermax105 SYNC cut and gouge capacities

Cut capacity	Thickness	Cut speed					
Recommended	32 mm (1-1/4")	500 mm/min (20 ipm)					
	38 mm (1-1/2")	250 mm/min (10 ipm)					
Severance (hand cutting)	50 mm (2")	125 mm/min (5 ipm)					
Pierce*	22 mm (7/8")						
*Pierce rating for handhel	d use or with automatic torch height cont	rol					
Gouge capacity	Metal removal rate	Groove profile					
Typical gouge	8.6 kg (19.1 lbs.) per hour	6.6 mm D x 6.2 mm W (.26 D x .24 W)					
Torch output**	16.8 kW	16.8 kW					
	105 A x 160 V ÷ 1000 W =	105 A x 160 V ÷ 1000 W = 16.8 kW					

**Higher output voltage at the torch plus efficiently designed consumables result in a faster, cleaner cut.

"Our operators just love the Powermax SYNC. It's a much simpler process changing the consumables, and we're seeing better life."

Best Fender Products United States



Our customers' preferred cutting tool for industries including:

- Shipbuilding/ship repair
- Truck and trailer fabrication
- Tank and vessel manufacturing
- Railyard maintenance and railcar fabrication
- Demolition and metal salvage
- Agricultural/equipment maintenance

Highlighted product features:

Easy to use

- SmartSYNC[®] torches with the cartridge automatically set the correct amperage and operating mode, eliminating setup errors
- Easy to identify single-piece cartridges are color-coded by process to eliminate parts mix-up and simplify consumable inventory management
- End-of-life detection lets the operator know when it's time to change the cartridge
- Simplified operation minimizes downtime, troubleshooting, waste, and training time

Versatile

- Tackle a wide range of jobs with easily interchangeable torch styles and application-specific cartridges for various types of cutting and gouging
- Time-saving torch controls allow the operator to adjust the amperage on the fly and change cartridges and applications without returning to the power supply
- Access cartridge data for performance tracking, analyzing usage patterns

Industry-leading reliability

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

Specifications

 $\rm CE$ – for use in Europe, Australia & New Zealand - RCM, Serbia, UK – UKCA, Ukraine, and other countries where accepted.

CCC - for use in China

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

CE CCC CSA

→ 200-600 V, 3-PH, 50/60 Hz Input current @ 16.8 kW 200/208/240/480/600 V, 3-PH 58/56/49/25/22 A → 203/400 V, 3-PH 50/29 A 380-400 V, 3-PH 50/29 A 380/400 V, 3-PH 50/29 A → 30-105 A Rated output voltage 160 VDC Duty cycle @ 40° C (104° F) 70% @ 105 A, 240 V, 3-PH → → 70% @ 105 A, 480-600 V, 3-PH 100% @ 94 A, 480-600 V, 3-PH 100% @ 88 A, 240 V, 3-PH 100% @ 94 A, 400 V, 3-PH 100% @ 88 A, 230 V, 3-PH 100% @ 94 A, 400 V, 3-PH 100% @ 88 A, 230 V, 3-PH 0pen circuit voltage (0CV) 288 VDC 1→ 300 VDC → 230-400 V: 42.7 kg (94 lbs.) Gas supply Clean, dry, oil-free air or nitrogen 0ptimum inlet gas pressure 7.6-8.3 bar (110-120 psi) Minimum inlet gas pressure	Input voltages (± 10%)	
Input current @ 16.8 kW 200/208/240/480/600 V, 3-PH 58/56/49/25/22 A 230/400 V, 3-PH 50/29 A 380/400 V, 3-PH 30/28 A Output current 30-105 A Rated output voltage 160 VDC Duty cycle @ 40° C (104° F) Imput current 100% @ 105 A, 240 V, 3-PH 100% @ 105 A, 480-600 V, 3-PH 100% @ 94 A, 400 V, 3-PH 100% @ 88 A, 230 V, 3-PH 0pen circuit voltage (0CV) 288 VDC 592 mm D; 274 mm W; 508 mm H (23.3" D; 10.8" W; 20.0" H) Weight with 7.6 m (25') torch 230-400 V: 32.4 Kg (87 lbs.) 400 V: 39.4 Kg (87 lbs.) Gas supply Clean, dry, oil-free air or nitrogen 0ptimum inlet gas pressure 5.5 bar (80 psi) Recommended gas inlet flow rate/pressure 260 I/min @ 6.2 bar (550 scfh, 9.1 scfm @ 90 psi) Gouging:		200-600 V, 3-PH, 50/60 Hz
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Duty cycle @ 40° C (104° F) Image: Constraint of the system of	Output current	30–105 A
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Engine drive requirement 30 kW or 37.5 kVA for full 105 A output Electrical efficiency 91% Recyclability 100%	Input power cable length	3 m (10')
Electrical efficiency91%Recyclability100%	Power supply type	Inverter – IGBT
Recyclability 100%	Engine drive requirement	30 kW or 37.5 kVA for full 105 A output
	Electrical efficiency	91%
Warranty Power supply: 3-year, Torch: 1-year	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 - RCM, Serbia, UK – UKCA, Ukraine, and other countries where accepted. CCC – for use in China CSA – for use in the Americas and Asia, except China			75° hand torch 75° hand torch hand torch			, 180° full-length machine torch				
CE CCC CSA	CE CCC CSA				7.6 (2		10.7 m (35')	15.: (5		10.7 m/7.6 m (35'/25')
				~			~		~	
	Powermax105 SYNC® power supplies		Handheld	i	Mechanized					
L , L ,	Standard power supply 380-400 V	059690	059691	059692						
└→	Standard power supply 230-400 V	059679	059680							
$ \rightarrow $	Standard power supply 200–600 V	059625	059626	059634						
	Power supply with CPC port and voltage divider 380-400 V	059679	059680		059694	059693		059695	059681	
└→	Power supply with CPC port and voltage divider 230-400 V $$					059682			059683	
	Power supply with CPC port and voltage divider	059627	059628		059636	059637		059639	059638	059687
	Power supply with CPC port, voltage divider, and serial port					059697	059765		059698	
	Power supply with CPC port, voltage divider, and serial port 380-400 V					059712	059764			
Power supply with CPC port, voltage divider, and serial port 230-400 V						059684	059762*		059763	

* with ring terminated work lead

Custom configurations

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

Power supply options

CE – for use in Europe, Australia & New Zealand - RCM, Serbia, UK – UKCA, Ukraine, and other countries where accepted. 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
→ → Powermax105 SYNC 380-400 V	059708	059709	059710
→ Powermax105 SYNC 230-400 V	059701	059702	059703
Powermax105 SYNC 200-600 V	059704	059705	059706

Work leads

	Hand clamp	C-clamp	Ring terminal
7.6 m (25')	223254	223287	223284
15.2 m (50')	223255	223288	223285
22.8 m (75')	223256	223289	223286

Cable options

Control cables									
Cable length	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 (25')	128650	228350	023206	223048	223236	223239			
15.2 m (50')	128651	228351	023279	123896	223237	223240			
22.8 m (75')	128652								

Torch options

	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
22.8 m (75')	059728	059725					059722		059767	059766
30 m (100')	059770									

Powermax cartridge options

	Drag cutting	Mechanized/standoff cutting	Max removal gouging	Max control gouging	Ohmic ring kit
45 A	428927	428925	400000	400000	400005*
65 A	428931	428930	428932	428933	428895*
85 A	428935	428934			
105 A	428937	428936	428938	428939	

	FlushCut™	Fin	FineCut [®]		HyAccess™			
	Flusiluu	Handheld	Mechanized	Drag cutting	Gouging	Mechanized		
30-45 A		428928	428926					
65 A	428952			400004	400007	E00070		
85 A	428953			428984	428987	528079		
105 A	428954							



Cartridge reader

The cartridge reader works with the Powermax SYNC* cartridge reader app to provide a simple process for reviewing data stored in Powermax cartridges. Part number 528083

*Kit includes three 420580 ohmic ring clips.



Learn more at www.hypertherm.com/powermax105sync

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Environmental stewardship is one of Hypertherm Associates' core values. www.hyperthermassociates.com/environment

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