

HySpeed[®] Plasma **HSD130™**



Easy, reliable, and incredibly productive

LongLife[®] oxygen plasma cutting system

Hypertherm[®]

HySpeed Plasma HSD130



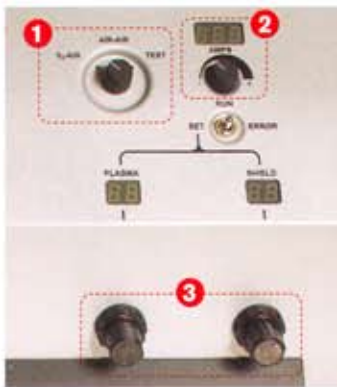
Easy, reliable, and incredibly productive

HySpeed Plasma HSD130 is an easy-to-use oxygen plasma system that is more productive and more cost-effective than other metal cutting solutions such as oxyfuel, air plasma, and non-LongLife oxygen plasma systems. With our patented LongLife technology and 100% duty cycle, HySpeed Plasma is in a class of its own – between our Powermax® air plasma line and our state-of-the-art HyPerformance® Plasma family of precision products.

Easy to use

Easiest plasma system available on the market for oxygen and air plasma cutting – easy to install, easy to run, easy to troubleshoot.

- Three steps to cutting:



1. Select process
2. Set current
3. Set gas pressures

It's that easy!

- Diagnostics display greatly simplifies troubleshooting and service, which leads to greater up-time for you.
- Fewer consumable parts and quicker consumable changeout means reduced downtime.

Unmatched reliability

Rigorous, extensive testing, backed by four decades of experience, guarantees the Hypertherm quality you know you can count on.

- Endured rigorous reliability and exhaustive life testing procedures equivalent to over 10 years of use in operating environments from -10° C to +40° C (+14° F to +104° F).
- Dramatically reduced number of internal parts; less than half compared to other systems on the market. Studies have shown that fewer parts directly relates to greater reliability.
- Designed for easy access to components and simplified service, to keep you up and running.
- Self-diagnostics are performed automatically at startup and continually throughout the cutting process. This ensures the system is operating at peak performance.

Shield



Retaining cap



Nozzle



Swirl ring



Electrode



Water tube



Torch body



Step up to a superior technology

HySpeed Plasma vs. oxyfuel

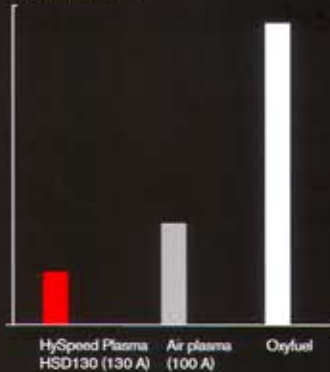
- Cut speeds as much as 7 times faster depending on material thickness translate into a lot more parts cut per hour and a faster payback on your investment
- Significantly lower cost per meter (foot), from 0.5 mm (26 ga.) to 25 mm (1")
- Virtually dross-free cut quality means no secondary operations
- Faster pierce time, with no preheat required



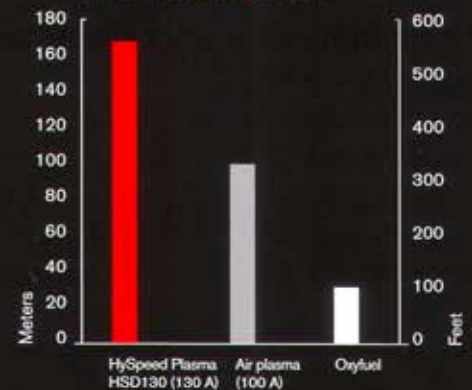
HySpeed Plasma vs. air plasma

- 100% duty cycle
- Faster cut speeds for greater productivity
- Thicker material capability
- Virtually dross-free cut quality means no secondary operations
- Better weldability

Relative cost per foot
Includes labor rate



Meters (feet) cut per hour



Incredibly productive

With the fastest cut speeds in this class, rapid pierce, and minimal secondary operations, you will be more productive.

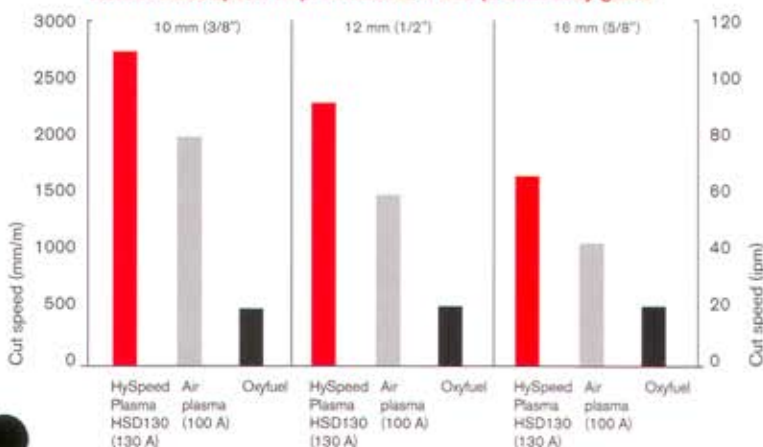
- Patented LongLife technology significantly improves consumable life for both oxygen and air processes.
- 100% duty cycle for the most demanding production requirements.
- Fastest cut speed per amp compared to its closest competitors.

Cost-effective

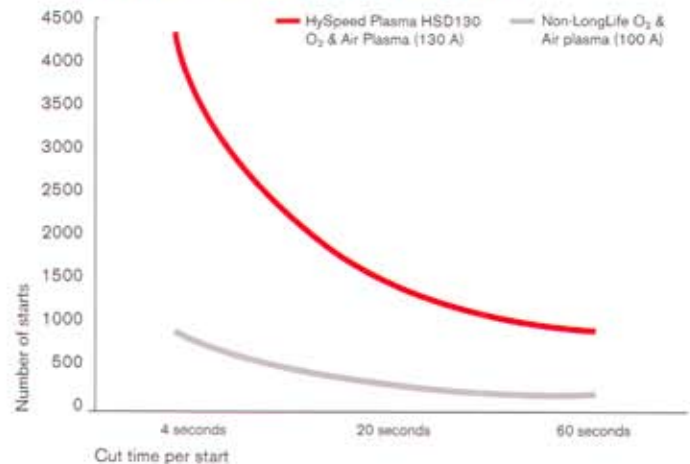
Ease of use, reliability, and productivity all add up to a more cost-effective system than other metal cutting solutions.

- Less rework and more parts per hour mean lower cost per cut.
- LongLife technology means our consumables last longer, so your consumable cost per part is lower.

Tremendous speed improvements = BIG productivity gains



Longer consumable life = more cost-effective



Specifications

Input voltages	VAC	Hz	Amps	Approvals
	200/208	50-60	62/60	CSA
	220	50-60	65	CSA
	240	60	52	CSA
	380	50-60	33	CCC
	400	50-60	32	CE, GOST-R
	440	50-60	28	CSA
Output current	150 A (maximum)			
	150 A (maximum)			
Duty cycle	100% at 40° C (104° F), 1.9.5 kW			
Maximum OCV	311 VDC			
Operating temperature	-10° C to +40° C (+14° F to +104° F)			
Dimensions	107 cm H, 57 cm W, 112 cm L 42.25" H, 22.6" W, 44" L			
Weight	295 kg (651 lb)			
Gas supply	Plasma gas	O ₂ , Ar, N ₂ , F5 [*] , H35 ^{**}		
	Shield gas	Ar, N ₂		
	Gas pressure	7.93 bar (115 psi) 6.55 bar (95 psi) - Ar		
Fuel-gas console (optional)	Required for F5 and H35 fuel gases			

* F5 = 50% N₂, 5% H₂
** H35 = 35% H₂, 65% Ar



Base model does not include fuel-gas console (pictured above on top of power supply).

- Hypertherm is ISO 9001:2000 registered.
- Hypertherm's full-system warranty: complete coverage for one year on the torch and leads and two years on all other system components.

Operating data

Virtually dress-free cutting capacity - mild steel

16 mm (5/8")

Production pierce capacity - mild steel

25 mm (1")

Maximum cutting capacity (edge start) - mild steel

38 mm (1 1/2")

Material	Current (amps)	Thickness (mm)	Approximate cutting speed (mm/min.)	Thickness (inches)	Approximate cutting speed (ipm)		
Mild steel Air plasma Air shield	45	0.5	8030	28 ga	380		
		1	7750	20 ga	315		
		3	3900	0.135	90		
		6	1575	1/4	60		
		50	0.5	7550	28 ga	300	
			1	6775	20 ga	270	
	3		3650	0.135	130		
	6		1750	1/4	55		
	130		8	6500	0.135	240	
			6	4000	1/4	150	
		10	2650	3/8	110		
		12	2200	1/2	80		
15		1650	5/8	60			
25		675	1	25			
Air plasma Air shield	130	3	6000	0.135	220		
		6	3850	1/4	150		
		10	2450	3/8	100		
		12	2050	1/2	75		
		20	810	3/4	35		
		25	410	1	15		
	Stainless steel Air plasma Air shield	45	0.5	8800	28 ga	270	
			1	8500	20 ga	230	
			3	2250	0.135	70	
			6	1050	1/4	40	
			45	0.5	7000	28 ga	280
				1	5850	20 ga	240
3		2450		0.135	75		
6		1125		1/4	40		
45		0.5		7000	28 ga	290	
		1		5875	20 ga	240	
		3	2740	0.135	100		
		6	1325	1/4	45		
	130	6	2600	1/4	100		
		10	1700	3/8	70		
12		1380	1/2	50			
15		900	5/8	30			
20		430	3/4	20			
N ₂ plasma N ₂ shield		130	6	2340	1/4	90	
	10		1640	3/8	70		
	12		1080	1/2	35		
	20		300	3/4	15		
	H35 plasma [†] N ₂ shield		130	10	580	3/8	40
				12	620	1/2	30
20		300		3/4	15		
25		260		1	10		
Aluminum Air plasma Air shield		45		0.5	7600	0.018	310
				1	6350	0.032	270
	1.5		5000	0.064	185		
	3		2400	1/8	90		
	6		1150	1/4	40		
	130		6	2370	1/4	90	
		10	1465	3/8	60		
		12	1225	1/2	45		
		20	725	3/4	30		
		25	525	1	20		
		H35 plasma [†] N ₂ shield	130	10	1615	3/8	65
	12			1455	1/2	55	
20	940			3/4	40		
25	540			1	20		

Note: Take care in comparison: Competitors often show maximum cutting speeds, rather than speeds that deliver the best cuts, as shown above. Cut speeds listed above deliver best cut quality, but maximum cut speeds can be up to 50% faster.

[†]Optional fuel-gas console required for H35 and F5 plasma.

Hypertherm

www.hypertherm.com

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