

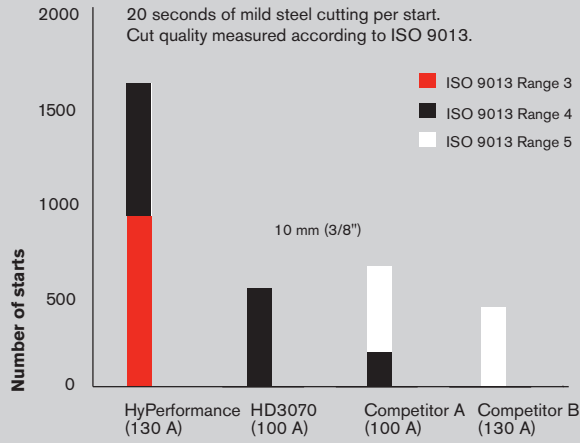


# ***Hypertherm<sup>®</sup>*** ***Plasma HPR130<sup>™</sup>***

***Superior cut quality and consistency  
Maximized productivity  
Minimized operating costs***

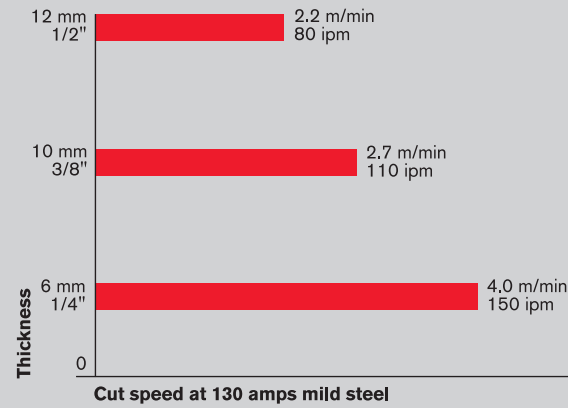
***Hypertherm<sup>®</sup>***

## Superior cut quality and consistency



- Lower cut angle variability than any “precision” competitor tested.
- Consistent, repeatable cutting performance.
- Virtually dross-free cutting reduces the need for secondary operations.

## Maximized productivity



- Increased cut speeds, approaching 200-amp processes.
- Cut speeds listed deliver the best cut quality, but cut speeds can be up to 50% faster.
- Rapid cut-to-cut cycle times increase productivity.

# The next generation

Hypertherm has led the advancement of plasma cutting technology for over 35 years and is the world's foremost manufacturer of plasma arc cutting equipment. By continually delivering breakthrough advances in cut quality, productivity and operating costs, Hypertherm reaffirms and extends its position as the world's leading supplier of advanced high-temperature metal cutting technology.

## HyPerformance Plasma delivers incomparable HyDefinition® cutting at half the operating cost

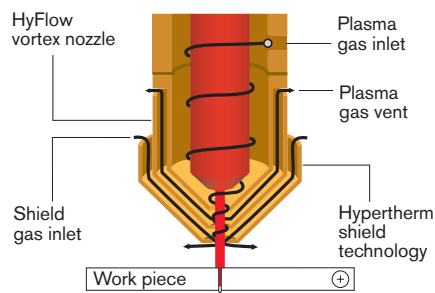
HyPerformance Plasma delivers the virtually dross-free cut quality of HyDefinition, but does it with greater consistency, faster cut speeds, longer consumable life and half the operating cost.

## HyPerformance Plasma cuts, bevels and marks a variety of metals, thick and thin, making it the one system that does it all



Stainless steel cuts

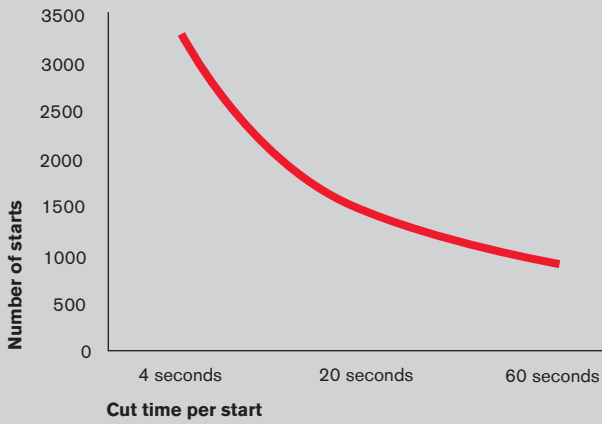
### Patented HyDefinition cutting for consistent quality



HyFlow vortex technology stabilizes the arc precisely in the center of the electrode. This consistency improves cut quality and extends consumable life.

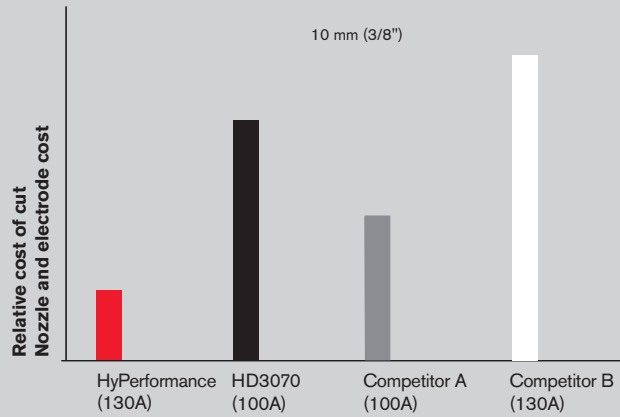
- Patented HyDefinition cutting for consistent cut quality.
- Full range of cutting thicknesses from gauge material to production piercing of 25 mm (1 inch).
- Superior HyPerformance stainless steel cutting.
- Marking and cutting performed with the same consumables.
- Quick-disconnect torch for simple and fast consumable changes.
- Bevel cutting up to 45°.

## Longer consumable life



- Hypertherm's patented LongLife process significantly extends consumable life.
- Patent-pending water tube and electrode design delivers improved consumable life and consistent cut quality.

## Minimized operating costs



- Half the operating costs of any "precision" competitor tested.
- HyDefinition cut quality at half the operating costs.

# of mechanized plasma

## HyPerformance Plasma is designed to be operator-friendly and highly consistent

### Simple, easy-to-use controls

- Manual gas console with power, current, troubleshooting and gas settings in one console.
- Auto gas fully integrated into CNC for full control of all plasma parameters.\*

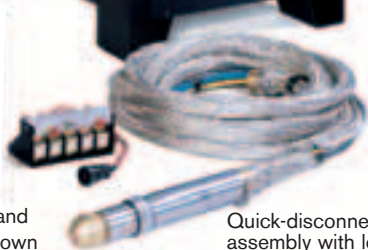


Manual gas console



Power supply

Manual off-valve assembly



Quick-disconnect torch assembly with leads

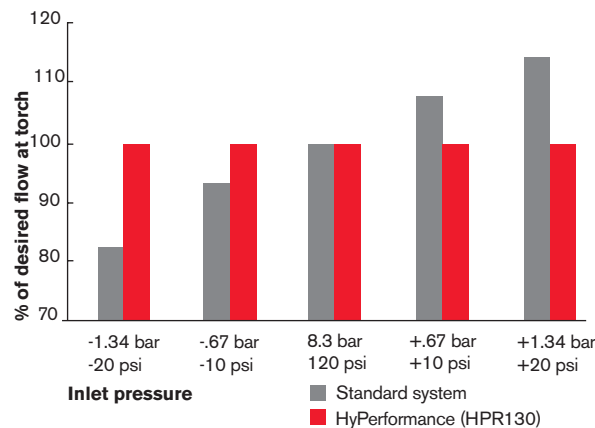
## HyPerformance Plasma is available with auto gas or manual gas delivery

- Responsive gas control compensates for variation in incoming pressure.
- The automatic and manual gas systems both provide diagnostic information via serial link to CNC.

### Additional benefits of auto gas delivery

- Gas delivery is monitored and controlled near the torch for optimal cut quality and consumable life.
- Fast switching from cutting to marking.
- Full integration to CNC for control of all plasma parameters
- Fuel gas mixing for improved stainless and aluminum cutting.

### Responsive gas control reduces variability, while improving cut quality and increasing consumable life



\* Automatic gas selection and metering consoles not shown

## Specifications CE, CCC, CSA

Input voltages (3-PH) and currents	VAC	Hz	Amps
	200/208	50 – 60	62/58
	220	50 – 60	58
	240	60	52
	380	50 – 60	34
	400	50 – 60	32
	440	60	28
	480	60	26
600	60	21	
Output voltage	50 – 150 VDC		
Output current	130 A		
Duty cycle	100%		
Maximum OCV	311 VDC		
Dimensions	1079.5 mm (42.5") D, 566.4 mm (22.3") W, 967.7 mm (38.1") H		
Weight with torch	317.5 kg (700 lbs)		
Gas supply			
Plasma gas	O <sub>2</sub> , N <sub>2</sub> , F5*, H35**, Air		
Shield gas	N <sub>2</sub> , O <sub>2</sub> , Air		
Gas pressure	8.3 bar (120 psi) Manual gas console 8 bar (115 psi) Automatic gas console		

\* F5 = 95% N<sub>2</sub>, 5% H

\*\* H35 = 35% H, 65% Ar

## Hypertherm, quality built in

HyPerformance Plasma systems have been subjected to thousands of hours of reliability testing in Hypertherm's laboratories. The results give Hypertherm the confidence to boast a 100% duty cycle in operating environments from -10° C to 40° C.

- CCC, CE, CSA certification.
- Hypertherm is ISO 9001:2000 certified.
- Hypertherm full-system warranty – complete coverage for two years on all system components and one year on the torch.
- Enhanced serviceability and reduced part count provide a simple, robust design.

## 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	30	.5	5355	.018	215	
		O <sub>2</sub> plasma	1	3615	.036	155
		O <sub>2</sub> shield	1.5	2210	.060	85
			3	1160	.135	40
O <sub>2</sub> plasma	50	6	665	1/4	25	
		O <sub>2</sub> shield	1	5000	.036	210
		O <sub>2</sub> shield	3	1800	.135	60
			6	950	1/4	35
O <sub>2</sub> plasma	80	3	6145	.135	180	
		Air shield	6	3045	1/4	110
			10	1810	3/8	75
			12	1410	1/2	50
O <sub>2</sub> plasma	130	20	545	3/4	25	
		Air shield	6	4035	1/4	150
			10	2680	3/8	110
			12	2200	1/2	80
Stainless steel	45	20	1050	3/4	45	
		F5* plasma	25	550	1	20
		N <sub>2</sub> shield	38	255	1 1/2	10
			1	5740	.036	240
F5* plasma	80	2.5	2510	.105	90	
		N <sub>2</sub> shield	6	845	1/4	30
			4	2180	.135	105
		H35** plasma	130	6	1225	1/4
N <sub>2</sub> shield	10			560	3/8	25
	10			980	3/8	40
Aluminum	45			12	820	1/2
		Air/Air	20	360	3/4	15
			25	260	1	10
		H35** plasma	130	1.5	4420	.048
Air/Air	4			2575	.135	110
	6			1690	1/4	60
N <sub>2</sub> shield	130			12	1455	1/2
			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 cut speeds can be up to 50% faster.

The operating data chart does not list all processes available for the HPR130. Please contact Hypertherm for more information.

# Hypertherm®

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