



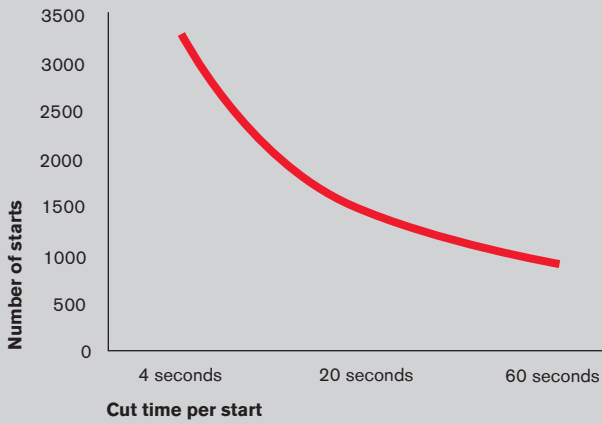
# ***HyPerformance<sup>®</sup> Plasma HPR130<sup>™</sup>***

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

***Hypertherm<sup>®</sup>***

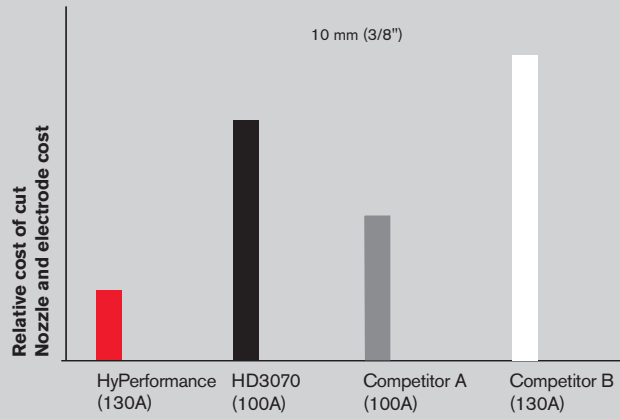


## Longer consumable life



- 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.\*

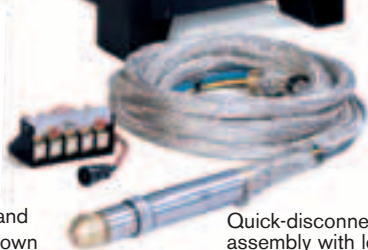


Manual gas console



Power supply

Manual off-valve assembly



Quick-disconnect torch assembly with leads

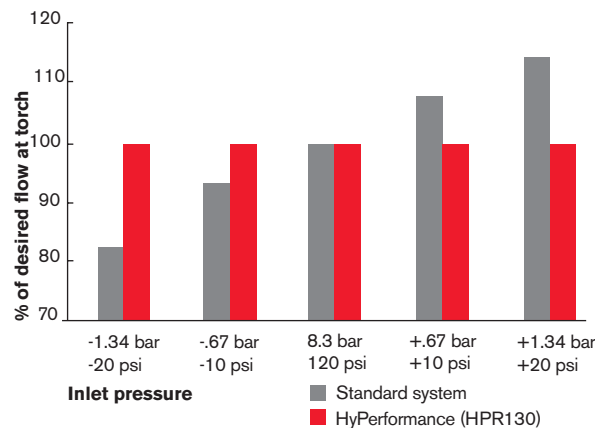
## HyPerformance Plasma is available with auto gas or manual gas delivery

- 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
		6	665	1/4	25
O <sub>2</sub> plasma	50	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
		20	545	3/4	25
O <sub>2</sub> plasma	130	6	4035	1/4	150
Air shield		10	2680	3/8	110
		12	2200	1/2	80
		20	1050	3/4	45
		25	550	1	20
		38	255	1 1/2	10
Stainless steel	45	1	5740	.036	240
F5* plasma		2.5	2510	.105	90
N <sub>2</sub> shield		6	845	1/4	30
F5* plasma	80	4	2180	.135	105
N <sub>2</sub> shield		6	1225	1/4	45
		10	560	3/8	25
H35** plasma	130	10	980	3/8	40
N <sub>2</sub> shield		12	820	1/2	30
		20	360	3/4	15
		25	260	1	10
Aluminum	45	1.5	4420	.048	220
Air/Air		4	2575	.135	110
		6	1690	1/4	60
H35** plasma	130	12	1455	1/2	55
N <sub>2</sub> shield		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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