

# Hypertherm®

## HyPerformance® Plasma HPR130XD®

### **The HPR130XD delivers incomparable HyDefinition cut quality at half the operating costs**

Hypertherm has spent more than four decades developing over 75 patented plasma technologies to provide customers with exceptional performance they can count on. With thousands of HyPerformance Plasma systems sold around the world, the HPR product family has become the plasma system of choice for customers who demand the most consistent cut quality, highest productivity, lowest operating cost and unmatched reliability.

#### **Operating data**

##### *Mild steel cut capacity*

Dross free	16 mm ( $\frac{5}{8}$ "
Production (pierce)	32 mm ( $1\frac{1}{4}$ "
Severance (edge starts)	38 mm ( $1\frac{1}{2}$ "

##### *Stainless steel cut capacity*

Production (pierce)	20 mm ( $\frac{3}{4}$ "
Severance (edge starts)	25 mm (1")

##### *Aluminum cut capacity*

Production (pierce)	20 mm ( $\frac{3}{4}$ "
Severance (edge starts)	25 mm (1")

#### **Key advantages**

##### **Superior cut quality and consistency**

*HyPerformance Plasma cuts fine-feature parts with superior quality and consistency, eliminating the cost of secondary operations.*

- Patented HyDefinition® technology aligns and focuses the plasma arc for more powerful precision cutting up to 38 mm ( $1\frac{1}{2}$ ").
- Patented system technologies deliver more consistent cut quality over a longer period of time than other systems available on the market.

##### **Maximized productivity**

*HyPerformance Plasma combines fast cutting speeds, rapid process cycling, quick changeovers and high reliability to maximize productivity.*

##### **Minimized operating cost**

*HyPerformance Plasma lowers operating cost and improves profitability.*

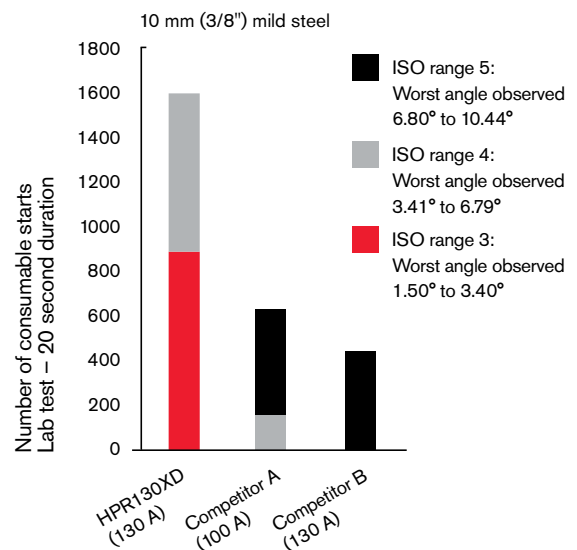
- Patented LongLife® technology significantly increases consumable life and enables consistent HyDefinition cut quality over the longest period of time.

##### **Unmatched reliability**

*Extensive testing, backed by more than four decades of experience, guarantees the Hypertherm quality you can count on.*



#### **Cut quality over life (130 A)**



## Specifications

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	97 cm (38.1") H, 57 cm (22.3") W, 108 cm (42.5") L		
Weight with torch	317.5 kg (700 lbs)		
Gas supply			
Plasma gas	O <sub>2</sub> , N <sub>2</sub> , F5*, H35**, Air, Ar		
Shield gas	N <sub>2</sub> , O <sub>2</sub> , Air, Ar		
Gas pressure	8.3 bar (120 psi) Manual gas console 8 bar (115 psi) Automatic gas console		

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

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



## Operating data

**Virtually dross-free cutting capacity – mild steel**

16 mm (5/8")

**Production pierce capacity – mild steel**

32 mm (1 1/4")

**Maximum cutting capacity (edge start) – mild steel**

38 mm (1 1/2")

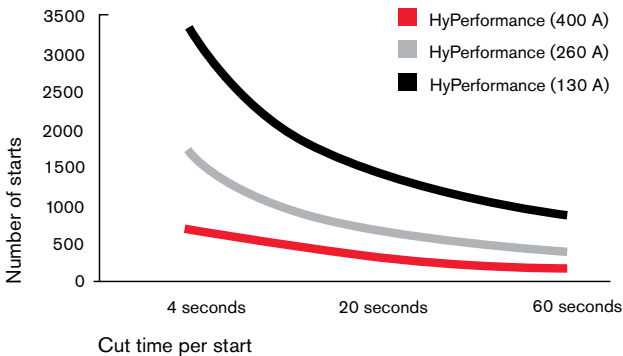
Material	Current (amps)	Thickness (mm)	Approximate cutting speed (mm/min.)	Thickness (inches)	Approximate cutting speed (ipm)		
Mild steel	30	0.5	5355	.018	215		
		O <sub>2</sub> plasma	1	3615	.036	155	
		O <sub>2</sub> shield	1.5	2210	.060	85	
			3	1160	.135	40	
			6	665	1/4	25	
			50	1	5000	.036	210
	O <sub>2</sub> plasma	3	1800	.135	60		
	O <sub>2</sub> shield	6	950	1/4	35		
	O <sub>2</sub> plasma Air shield	80	3	6145	.135	180	
			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 Air shield			130 <sup>†</sup>	6	4035	1/4	150
	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
N <sub>2</sub> shield			6	845	1/4	30	
F5* plasma N <sub>2</sub> shield			80	4	2180	.135	105
				6	1225	1/4	45
				10	560	3/8	25
H35** plasma N <sub>2</sub> shield		130 <sup>†</sup>	10	980	3/8	40	
			12	820	1/2	30	
			20	360	3/4	15	
			25	260	1	10	
Aluminum		45	1.5	4420	.048	220	
			Air plasma	4	2575	.135	110
	Air shield		6	1690	1/4	60	
	H35** plasma N <sub>2</sub> shield	130 <sup>†</sup>	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 cut speeds can be up to 50% faster.

The operating data chart does not list all processes available for the HPR130XD. Please contact Hypertherm for more information.

† Consumables support up to 45° bevel capability.

### Longer consumable life



- 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.

# Hypertherm®

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