

# 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 100 patented plasma technologies to provide Customers with exceptional performance they can count on. With over 20 thousand HyPerformance Plasma systems in use around the world, the HPRXD 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.

#### **Key advantages**

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

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

- HyDefinition® technology aligns and focuses the plasma arc for more powerful precision cutting up to 38 mm (1½").
- **New HDi technology** delivers HyDefinition cut quality on thin stainless steel from 3 to 6 mm (12 ga. to 1/4").
- 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.*

- 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.*



#### **Operating data**

##### *Mild steel cut capacity*

Dross free*	16 mm (5/8")
Production pierce	32 mm (1¼")
Maximum cutting capacity	38 mm (1½")

##### *Stainless steel cut capacity*

Production pierce	20 mm (¾")
Maximum cutting capacity	25 mm (1")

##### *Aluminum cut capacity*

Production pierce	20 mm (¾")
Maximum cutting capacity	25 mm (1")

\*Feature and material type can influence dross free performance.



## 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
	415	50/60	32
	440	60	28
	480	60	26
600	60	21	
Output voltage	50 – 150 VDC		
Output current	130 A		
Duty cycle	100%		
Power factor	0.88@19.5kW output 		
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

Material	Current (amps)	Thickness (mm)	Approximate cutting speed (mm/min)	Thickness (inches)	Approximate cutting speed (ipm)
Mild steel	30	0.5	5355	.018	215
		3	1160	.135	40
		6	665	1/4	25
	50	1	5000	.036	210
		3	1800	.135	60
		6	950	1/4	35
O <sub>2</sub> plasma	80	3	6145	.135	180
		12	1410	1/2	50
		20	545	3/4	25
O <sub>2</sub> plasma	130†	6	4035	1/4	150
		10	2680	3/8	110
		25	550	1	20
Stainless steel	60	3	2770	0.105	120
		4	2250	0.135	95
		5	1955	3/16	80
		6	1635	1/4	60
	130†	8	1140	5/16	45
		12	820	1/2	30
H35 plasma	130†	8	1515	5/16	60
		12	875	1/2	30
		20	305	3/4	15
Aluminum	45	3	2850	1/8	110
		4	2660	3/16	90
		6	1695	1/4	60
	130†	6	2215	1/4	85
		12	1455	1/2	55
		20	815	3/4	35

HDI

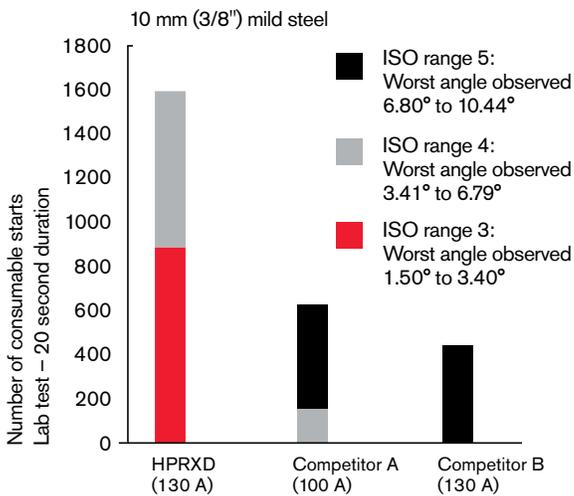
† Consumables support up to 45° bevel capability.

H35 and N<sub>2</sub>/N<sub>2</sub> require use of an autogas console.

The operating data chart does not list all processes available for the HPR130XD.

Please contact Hypertherm for more information.

### Cut quality over life (130 A)



### Cut with confidence

- Hypertherm is ISO 9001: 2000 registered.
- Hypertherm's full-system warranty provides complete coverage for one year on the torch and leads and two years on all other system components.
- Hypertherm's plasma power supplies are engineered to deliver industry leading energy efficiency and productivity with power efficiency ratings of 90% or greater and power factors up to 0.98. Extreme energy efficiency, long consumable life, and lean manufacturing lead to the use of fewer natural resources and a reduced environmental impact.



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