

Hypertherm®

HyPerformance® Plasma HPR400XD®

The HPR400XD delivers the ultimate in mild steel plasma cutting performance with the versatility to deliver industry leading stainless steel cut quality

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 mild steel cutting up to 80 mm.
- **New HDi technology** delivers HyDefinition cut quality on thin stainless steel from 3 to 6 mm.
- 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*	38 mm
Production pierce	50 mm
Maximum cutting capacity	80 mm

Stainless steel cut capacity

Production pierce	45 mm
Maximum pierce**	75 mm
Severance	80 mm

Aluminum cut capacity


Production pierce	38 mm
Maximum cutting capacity	80 mm

* Feature and material type can influence dross free performance.

** Maximum pierce requires use of an autogas console and controlled motion process. See technical documentation for details.



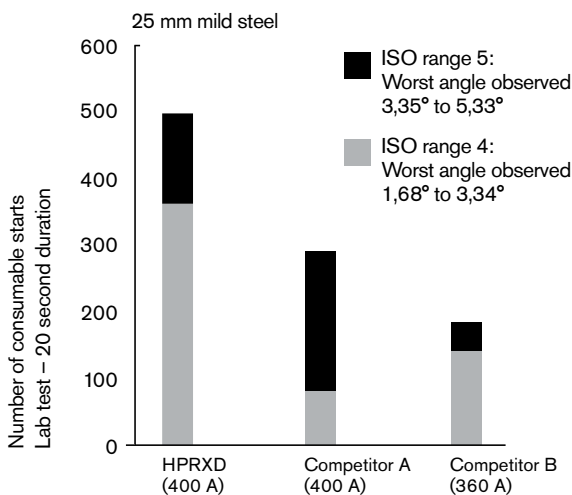
Specifications

Input voltages	VAC	Hz	Amps
	200/208	50/60	262/252
	220	50/60	238
	240	60	219
	380	50/60	138
	400	50/60	131
	440	50/60	120
	480	60	110
600	60	88	
Output voltage	200 VDC		
Output current	400 A		
Duty cycle	100% at 40° C at 80 kW		
Power factor	0,98 @ 80kW output 		
Maximum OCV	360 VDC		
Dimensions	118 cm H, 88 cm W, 126 cm L		
Weight	851 kg		
Gas supply			
Plasma gas	O ₂ , N ₂ , F5*, H35**, Air, Ar		
Shield gas	N ₂ , O ₂ , Air, Ar		
Gas pressure	8,3 bar Manual gas console 8,0 bar Automatic gas console		

* F5 = 5% H, 95% N₂
** H35 = 35% H, 65% Ar



Cut quality over life (400 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.



Operating data

Material	Current (amps)	Thickness (mm)	Approximate cutting speed (mm/min)	
Mild steel	30	0,5	5355	
		3	1160	
		6	665	
	80	3	6145	
		12	1410	
		20	545	
	130†	6	4035	
		10	2680	
		25	550	
	260†	10	4440	
		20	2170	
		32	1135	
O ₂ plasma Air shield	400†	12	4430	
		25	2210	
		50	795	
	80	180		
	Stainless steel	60	3	2770
			4	2250
5			1955	
130†		6	1835	
		12	875	
		20	305	
260†		10	2190	
		12	1790	
		20	1320	
400†		20	1100	
		50	400	
		60	280	
400†	20	1810		
	50	520		
	80	180		
Aluminum	130†	6	2215	
		12	1455	
		20	815	
	260†	12	4290	
		20	1940	
		32	940	
	400†	12	5190	
		50	1000	
		80	210	

HDI

† Consumables support up to 45° bevel capability.

H35 and N₂/N₂ require use of an autogas console.

The operating data chart does not list all processes available for the HPR400XD. Please contact Hypertherm for more information.

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