

Hypertherm®

HyPerformance® Plasma HPR400XD®

***The HPR400XD is the fastest, thickest and most versatile
HyPerformance Plasma system available on the market***

Hypertherm has spent more than four decades developing over 70 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	38 mm (1½")
Production (pierce)	50 mm (2")
Severance (edge starts)	80 mm (3.2")

Stainless steel cut capacity

Production (pierce)	45 mm (1¾")
Severance (edge starts)	80 mm (3.2")

Aluminum cut capacity

Production (pierce)	38 mm (1½")
Severance (edge starts)	80 mm (3.2")

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 80 mm (3.2").
- 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.

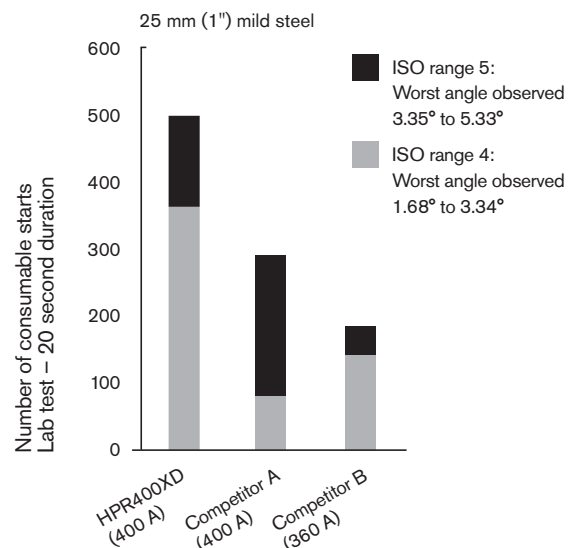
- Patented LongLife® technology significantly increases consumable life and enables consistent HyDefinition cut quality over the longest period of time.

Unmatched reliability

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



Cut quality over life (400 A)



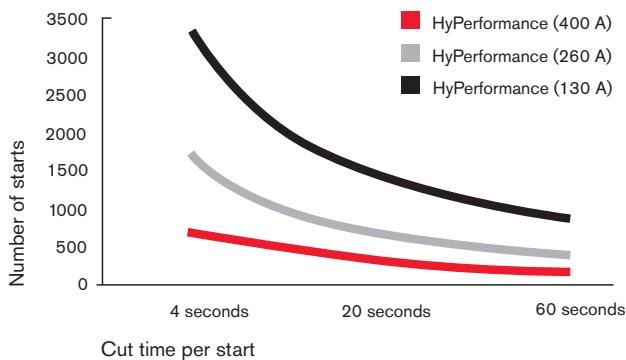
Specifications

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 (104° F) at 80 kW		
Maximum OCV	360 VDC		
Dimensions	118 cm (46.4") H, 88 cm (34.7") W, 126 cm (49.7") L		
Weight	851 kg (1877 lbs)		
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 (120 psi) Manual gas console 8.0 bar (115 psi) Automatic gas console		

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



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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Operating data

Virtually dross-free cutting capacity – mild steel

38 mm (1½")

Production pierce capacity – mild steel

50 mm (2")

Maximum cutting capacity (edge start) – mild steel

80 mm (3.2")

Material	Current (amps)	Thickness (mm)	Approximate cutting speed (mm/min.)	Thickness (inches)	Approximate cutting speed (ipm)
Mild steel O ₂ plasma O ₂ shield	30	0.5	5355	.018	215
		3	1160	.135	40
		6	665	¼	25
	80	3	6145	.135	180
		6	3045	¼	110
		20	545	¾	25
	130†	6	4035	¼	150
		10	2680	⅜	110
		25	550	1	20
	200	6	5248	¼	200
		12	3061	½	115
		25	1167	1	45
		50	254	2	10
O ₂ plasma Air shield	260†	10	4440	⅜	180
		20	2170	¾	90
		64	195	2½	8
	400†	12	4430	½	170
		25	2210	1	85
		50	795	2	30
		80	180	3	10
Stainless steel F5 plasma N ₂ shield	45	1	5740	.036	240
		2.5	2510	.105	90
		6	845	¼	30
	80	4	2180	.135	105
		6	1225	¼	45
		10	560	⅜	25
	130†	10	980	⅜	40
		12	820	½	30
		25	260	1	10
	200	10	1620	⅜	65
		12	1450	½	55
		20	820	¾	35
H35 plasma N ₂ shield	260†	12	1710	½	65
		20	1085	¾	45
		25	785	1	30
		50	270	2	10
	400†	20	1810	¾	75
		40	720	1½	30
		80	190	3	10
Aluminum Air plasma Air shield	45	1.5	4420	.048	220
		4	2575	.135	110
		6	1690	¼	60
	130†	12	1455	½	55
		20	940	¾	40
		25	540	1	20
	200	10	4400	⅜	180
		12	3800	½	140
		20	1450	¾	70
	260†	12	5160	½	190
		20	2230	¾	90
		50	390	2	14
H35 plasma N ₂ shield	400†	20	2420	¾	100
		40	1190	1½	50
		80	210	3	10

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 for a given process, but cut speeds can be up to 50% faster.

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

† Consumables support up to 45° bevel capability.