

Hypertherm®

HyPerformance® Plasma HPR260XD®

The HPR260XD combines fast cutting speeds, rapid process cycling, quick changeovers, and high reliability to maximize productivity

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	32 mm (1¼")
Production (pierce)	38 mm (1½")
Severance (edge starts)	64 mm (2½")

Stainless steel cut capacity

Production (pierce)	32 mm (1¼")
Severance (edge starts)	50 mm (2")

Aluminum cut capacity

Production (pierce)	25 mm (1")
Severance (edge starts)	50 mm (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 64 mm (2½").
- 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.

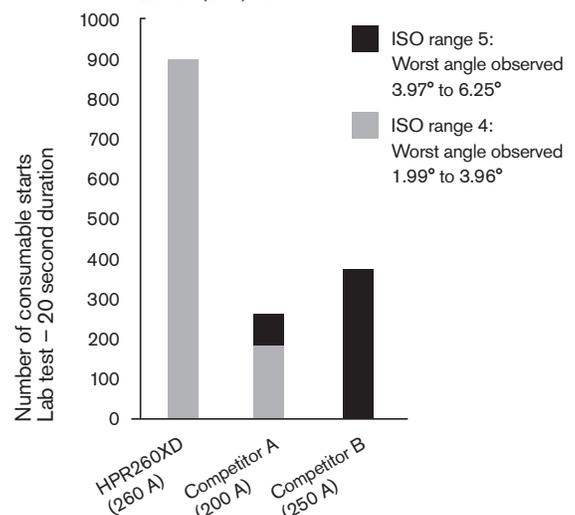
Unmatched reliability

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



Cut quality over life (260 A)

20 mm (¾") mild steel



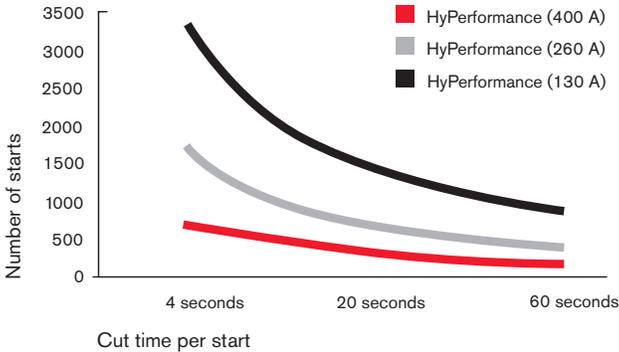
Specifications

Input voltages	VAC	Hz	Amps
	200/208	50/60	149/144
	220	50/60	136
	240	60	124
	380	50/60	84
	400	50/60	75
	440	60	68
	480	60	62
	600	60	50
Output voltage	175 VDC		
Output current	260 A		
Duty cycle	100% at 40°C (104° F) at 45.5kW		
Maximum OCV	311 VDC		
Dimensions	115 cm (45.1") H, 82 cm (32.1") W, 119 cm (46.7") L		
Weight with torch	567 kg (1250 lbs)		
Gas supply			
Plasma gas	O ₂ , N ₂ , F5*, H35**, Air		
Shield gas	N ₂ , O ₂ , Air		
Gas pressure	8.3 bar (120 psi) Manual gas console 8 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 32 mm (1 ¼")

Production pierce capacity – mild steel 38 mm (1 ½")

Maximum cutting capacity (edge start) – mild steel 64 mm (2 ½")

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 ₂ plasma	1	3615	.036	155
		O ₂ shield	3	1160	.135	40
			6	665	¼	25
	50	O ₂ plasma	1	5000	.036	210
		O ₂ shield	3	1800	.135	60
			6	950	¼	35
		80	O ₂ plasma	3	6145	.135
	Air shield		6	3045	¼	110
			10	1810	⅜	75
			20	545	¾	25
	130†	O ₂ plasma	6	4035	¼	150
Air shield		10	2680	⅜	110	
		12	2200	½	80	
		25	550	1	20	
200	O ₂ plasma	6	5248	¼	200	
	Air shield	12	3061	½	115	
		20	1575	¾	65	
		25	1167	1	45	
		50	254	2	10	
260†	O ₂ plasma	10	4440	⅜	180	
	Air shield	12	3850	½	145	
		20	2170	¾	90	
		32	1135	1½	45	
		64	195	2½	8	
	Stainless steel	45	F5* plasma	1	5740	.036
N ₂ shield			2.5	2510	.105	90
			6	845	¼	30
80		F5* plasma	4	2180	.135	105
		N ₂ shield	6	1225	¼	45
			10	560	⅜	25
130†		H35** plasma	10	980	⅜	40
		N ₂ shield	12	820	½	30
			25	260	1	10
200		H35** plasma	10	1620	⅜	65
		N ₂ shield	12	1450	½	55
			15	1200	⅝	45
			20	820	¾	35
260†		H35** plasma	12	1710	½	65
		N ₂ shield	20	1085	¾	45
			25	785	1	30
			50	270	2	10
		Aluminum	45	Air plasma	1.5	4420
Air shield	4			2575	.135	110
	6			1690	¼	60
130†	H35** plasma		12	1455	½	55
	N ₂ shield		20	940	¾	40
			25	540	1	20
200	H35** plasma		10	4400	⅜	180
	N ₂ shield		12	3800	½	140
			20	1450	¾	70
260†	H35** plasma		12	5160	½	190
	N ₂ shield		20	2230	¾	90
			50	390	2	14

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 HPR260XD. Please contact Hypertherm for more information.

† Consumables support up to 45° bevel capability.