

Specifications

		Per power supply		Chiller
Input voltages	VAC	Hz	Amps	Amps
	200/208	50/60	262/252	30
	220	50/60	238	30
	240	60	219	30
	380	50/60	138	20
	400	50/60	131	20
	440	50/60	120	20
	480	60	110	15
	600	60	88	12
Output voltage	200 VDC			
Output current	800 A			
Duty cycle	100% at 40° C (104° F) at 160 kW			
Maximum OCV	360 VDC			
Dimensions per power supply	118 cm (46.4") H, 88 cm (34.7") W, 126 cm (49.7") L			
Chiller	170.2 cm (67") H, 87.6 cm (34.5") W, 137.2 cm (54") L			
Weight per power supply	851 kg (1877 lbs)			
Chiller	449 kg (990 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



- 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 and leads.

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870830

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		
	O ₂ plasma	80†	3	6145	.135	180	
			6	3045	1/4	110	
			20	545	3/4	25	
	O ₂ plasma	130†	6	4035	1/4	150	
			10	2680	3/8	110	
			25	550	1	20	
	Air shield	260†	10	4440	3/8	180	
			20	2170	3/4	90	
			64	195	2 1/2	8	
O ₂ plasma	400†	12	4430	1/2	170		
		25	2210	1	85		
		50	795	2	30		
Air shield		80	180	3	10		
		Stainless steel	45	1	5740	.036	240
				2.5	2510	.105	90
6	845			1/4	30		
F5 plasma	80	4	2180	.135	105		
		6	1225	1/4	45		
		10	560	3/8	25		
N ₂ shield	130†	10	980	3/8	40		
		12	820	1/2	30		
		25	260	1	10		
H35 plasma	260†	12	1710	1/2	65		
		20	1085	3/4	45		
		25	785	1	30		
N ₂ shield	400†	20	1810	3/4	75		
		40	720	1 1/2	30		
		80	190	3	10		
H35 plasma	600†	40	721	1 1/2	29		
		60	492	2 1/2	18		
		100	187	4	7		
N ₂ plasma	600†	40	970	1 1/2	40		
		60	434	2 1/2	16		
		80	305	3	12		
N ₂ shield	800†	75	464	3	18		
		125	155	5	6		
		160	100	6 1/4	4		
Aluminum	45	1.5	4420	.048	220		
		4	2575	.135	110		
		6	1690	1/4	60		
Air plasma	130†	12	1455	1/2	55		
		20	940	3/4	40		
		25	540	1	20		
Air shield	260†	12	5160	1/2	190		
		20	2230	3/4	90		
		50	390	2	14		
H35 plasma	400†	20	2420	3/4	100		
		40	1190	1 1/2	50		
		80	210	3	10		
N ₂ shield	600†	50	1302	2	50		
		60	839	2 1/2	30		
		100	378	4	14		
H35 plasma	600†	50	1048	2	40		
		60	832	2 1/2	30		
		80	600	3	26		
N ₂ shield	800†	75	907	3	35		
		160	179	6 1/4	7		

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 HPR800XD. Please contact Hypertherm for more information.

† Consumables support up to 45° bevel capability.