Hypertherm[®]

HyPerformance® Plasma HPR800XD®

The HPR800XD delivers all the mild steel capability of the HPR400XD and adds the thickest stainless steel and aluminum cutting on the market today.

Mild steel cut capacity			
Dross free*	38 mm (1-1/2")		
Production pierce	50 mm (2")		
Maximum cutting capacity	80 mm (3.2")		
Stainless steel cut capacity			
Production pierce	75 mm (3")		
Maximum pierce**	100 mm (4")		
Severance	160 mm (6-1/4")		
Aluminum cut capacity			
Production pierce	75 mm (3")		
Maximum cutting capacity	160 mm (6-1/4")		

^{*} Feature and material type can influence dross free performance.

Unrivaled stainless steel performance, from very thin to very thick

New HDi technology delivers HyDefinition cut quality from 3 mm to 6 mm (12 gauge to 1/4"), optimized gas mixing provides superior results from 6 mm to 80 mm (1/4" to 3.2") and patented PowerPierce™ technology enables industry leading piercing and cutting capability on very thick stainless steel.

Impressive process range and versatility

The HPR800XD uses all HyPerformance Plasma processes from 30 to 400 amps for marking, beveling and cutting mild steel, stainless steel and aluminum. This versatility is extended to thick stainless steel and aluminum, up to 800 amps.

Maximized productivity and improved profitability

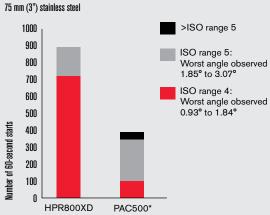
LongLife® and HyDefinition technologies deliver more consistent cut quality over a longer period of time. HyPerformance Plasma combines this consistency with fast cutting speeds and quick changeovers to maximize productivity and improve profitability.

Unmatched reliability

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



Cut quality over life (800 A)



Superior cut quality on mild steel and stainless steel

*Discontinued Hypertherm plasma system



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

Specifications

oheminaminis						
Input voltages (3-PH) and currents	VAC 200/208 220 240 380 400 440 480 600	Hz 50/60 50/60 60 50/60 50/60 50/60 60	Per power supply Amps 262/252 238 219 138 131 120 110 88	Chiller Amps 30 30 30 20 20 20 15		
Output voltage	200 VDC					
Output current	800 A					
Duty cycle	100% at 40°C (104°F) at 160 kW					
Power factor	0.98 @ 160 kW output					
Maximum OCV	360 VDC					
Dimensions per power supply Chiller	118 cm (46.4") H, 88 cm (34.7") W, 126 cm (49.7") L 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 Shield gas Gas pressure	N ₂ , O ₂ , Air, A 8.3 bar (120	psi) Manual	gas console c gas console			

^{*} $F5 = 5\% H, 95\% N_2$















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.

One of Hypertherm's long-standing core values is a focus on minimizing our impact on the environment. Doing so is critical to our, and our customers', success. We are always striving to become better environmental stewards; it is a process we



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Operating data

operating data					
			Approximate		Approximate
88-4	Current	Thickness	cutting speed	Thickness	cutting speed
Material	(amps)	(mm)	(mm/min)	(inches)	(ipm)
Mild steel O ₂ plasma	30	0.5 3	5355 1160	.018 .135	215 40
O ₂ shield		6	665	1/4	25
O ₂ plasma	80 [†]	3	6145	.135	180
Air shield		12	1410	1/2	50
0 1	400	20	545	3/4	25
O ₂ plasma Air shield	130†	6 10	4035 2680	1/4 3/8	150 110
All Siliciu		25	550	1	20
O ₂ plasma	260†	10	4440	3/8	180
Air shield		20	2170	3/4	90
		32	1135	1-1/2	35
O ₂ plasma	400†	12 25	4430	1/2	170
Air shield		50	2210 795	1 2	85 30
		80	180	3	10
Stainless steel	60	3	2770	0.105	120
F5 plasma		4	2250	0.135	95
N ₂ shield		5 6	1955 1635	3/16 1/4	80 60
H35 and N ₂ plasma*	130†	6	1835	1/4	70
N ₂ shield	100	12	875	1/2	30
		20	305	3/4	15
H35 and N ₂ plasma*	260†	6	3980	1/4	150
N ₂ shield		12 20	1790 1320	1/2 3/4	65 55
H35 plasma	400†	20	1100	3/4	45
N ₂ shield		50	400	2	15
		60	280	2-1/2	10
H35 and N ₂ plasma* N ₂ shield	400†	20 50	1810 520	3/4 2	75 20
N ₂ Siliciu		80	180	3	10
H35 plasma	800†	75	464	3	18
N ₂ shield	000	125	155	5	6
		160	100	6-1/4	4
Aluminum	130	6	2215	1/4	85
H35 and N ₂ plasma* N ₂ shield		12 20	1455 815	1/2 3/4	55 35
N ₂ plasma*	260	12	4290	1/2	160
Air shield		20	1940	3/4	80
		32	940	1-1/4	40
H35 and N ₂ plasma*	400	12	5190	1/2	200
N ₂ shield		50 80	1000 210	2 3	40 10
N ₂ plasma	600	50	1048	2	40
N ₂ shield		60	832	2-1/2	30
		80	600	3	26
H35 plasma	800	75 100	907	3	35
N ₂ shield		160	179	6-1/4	7

[†]Consumables support up to 45° bevel capability.









^{**} H35 = 35% H, 65% Ar

 $^{^{\}star}$ H35 and N $_{2}$ mixed plasma gas requires the use of an autogas console. The operating data chart does not list all processes available for the HPR800XD. Please contact Hypertherm for more information.