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

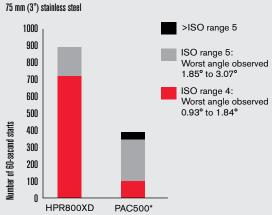
LongLife® and HyDefinition technologies deliver more consistent cut quality over a longer period of time. HyPerformance Plasma combines this consistency with fast cutting speeds and quick changeovers to maximize productivity and improve profitability.

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)



*Discontinued Hypertherm plasma system

Superior cut quality on mild steel and stainless steel



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

Specifications

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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 Chiller	851 kg (1877 lbs) 449 kg (990 lbs)						
Gas supply Plasma gas Shield gas Gas pressure	O ₂ , N ₂ , F5*, H35**, Air, Ar N ₂ , O ₂ , Air, Ar 8.3 bar (120 psi) Manual gas console 8 bar (115 psi) Automatic 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

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	0	Thislman	Approximate	Thislesses	Approximate
Material	Current (amps)	Thickness (mm)	cutting speed (mm/min)	Thickness (inches)	cutting speed (ipm)
Mild steel 0 ₂ plasma 0 ₂ shield	30	0.5 3 6	5355 1160 665	.018 .135 1/4	215 40 25
O ₂ plasma Air shield	80†	3 12 20	6145 1410 545	.135 1/2 3/4	180 50 25
O ₂ plasma Air shield	130†	6 10 25	4035 2680 550	1/4 3/8 1	150 110 20
O ₂ plasma Air shield	260†	10 20 32	4440 2170 1135	3/8 3/4 1-1/2	180 90 35
O ₂ plasma Air shield	400†	12 25 50 80	4430 2210 795 180	1/2 1 2 3	170 85 30 10
Stainless steel F5 plasma N ₂ shield	60	3 4 5 6	2770 2250 1955 1635	0.105 0.135 3/16 1/4	120 95 80 60
${ m H35}$ and ${ m N_2}$ plasma* ${ m N_2}$ shield	130†	6 12 20	1835 875 305	1/4 1/2 3/4	70 30 15
H35 and N ₂ plasma* N ₂ shield	260†	6 12 20	3980 1790 1320	1/4 1/2 3/4	150 65 55
H35 plasma N ₂ shield	400†	20 50 60	1100 400 280	3/4 2 2-1/2	45 15 10
H35 and N ₂ plasma* N ₂ shield	400†	20 50 80	1810 520 180	3/4 2 3	75 20 10
H35 plasma N ₂ shield	800†	75 125 160	464 155 100	3 5 6-1/4	18 6 4
Aluminum H35 and N ₂ plasma* N ₂ shield	130	6 12 20	2215 1455 815	1/4 1/2 3/4	85 55 35
N ₂ plasma* Air shield	260	12 20 32	4290 1940 940	1/2 3/4 1-1/4	160 80 40
H35 and N ₂ plasma* N ₂ shield	400	12 50 80	5190 1000 210	1/2 2 3	200 40 10
N_2 plasma N_2 shield	600	50 60 80	1048 832 600	2 2-1/2 3	40 30 26
H35 plasma N ₂ shield	800	75 160	907 179	3 6-1/4	35 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.