HUPGITIGIII

HyPerformance® Plasma HPR800x0®

The HPR800XD extends the versatility of HyPerformance Plasma to provide the most expansive process range and thickest stainless steel and aluminum cutting capacity available on the market

Hypertherm has spent more than four decades developing over 100 patented plasma technologies to provide customers with exceptional performance they can count on. With over 20 thousand HyPerformance Plasma systems in use around the world, the HPRXD 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.

Key advantages

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.



Operating data

wind steel cut capacity			
Dross free*	38 mm (1½")		
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 (6¼")		
Aluminum cut capacity			
Production pierce	75 mm (3")		
Severance	160 mm (6¼")		

- * Feature and material type can influence dross free performance.
- ** Maximum pierce requires use of controlled motion process. See technical documentation for details.



Specifications

			Daw				
			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						
Power factor	0.98 @ 160 kW output						
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% N. ** H35 = 35% H, 65% Ar

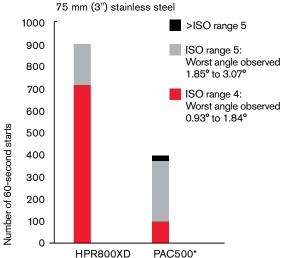








Cut quality over life (800 A)



*Discontinued Hypertherm plasma system

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 Greener Cuts 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.

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
O ₂ plasma		3	1160	.135	40
O ₂ shield		6	665	1/4	25
O, plasma	80	3	6145	.135	180
Air shield	00	12	1410	1/2	50
7tii Silicia		20	545	3/4	25
O, plasma	130 ⁺	6	4035	1/4	150
Air shield	100	10	2680	3/8	110
		25	550	1	20
O ₂ plasma	260 [†]	10	4440	3/8	180
Air shield		20	2170	3/4	90
		32	1135	11/2	35
O ₂ plasma	400 [†]	12	4430	1/2	170
Air shield		25	2210	1	85
		50	795	2	30
		80	180	3	10
Stainless steel	60	3	2770	0.105	120
F5 plasma		4	2250	0.135	95
N ₂ shield		5	1955	3/16	80
_		6	1635	1/4	60
H35 and N ₂	130 [†]	6	1835	1/4	70
plasma		12	875	1/2	30
N ₂ shield		20	305	3/4	15
H35 and N ₂	260 [†]	6	3980	1/4	150
plasma		12	1790	1/2	65
N ₂ shield		20	1320	3/4	55
H35 plasma	400 [†]	20	1100	3/4	45
N ₂ shield		50	400	2	15
		60	280	21/2	10
$H35$ and N_2	400 [†]	20	1810	3/4	75
plasma		50	520	2	20
N ₂ shield		80	180	3	10
H35 plasma	800 [†]	75	464	3	18
N ₂ shield		125	155	5	6
		160	100	61/4	4
Aluminum	130 [†]	6	2215	1/4	85
H35 and N ₂		12	1455	1/2	55
plasma N ₂ shield		20	815	3/4	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	400†	12	5190	1/2	200
plasma		50	1000	2	40
N ₂ shield		80	210	3	10
N ₂ plasma	600 [†]	50	1048	2	40
N ₂ shield		60	832	21/2	30
		80	600	3	26
H35 plasma	800 [†]	75	907	3	35
N ₂ shield		160	179	61/4	7

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

Hypertherm[®]

Cut with confidence®

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H35 and N_2/N_2 require use of an autogas console.

The operating data chart does not list all processes available for the HPR800XD. Please contact Hypertherm for more information.