

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.

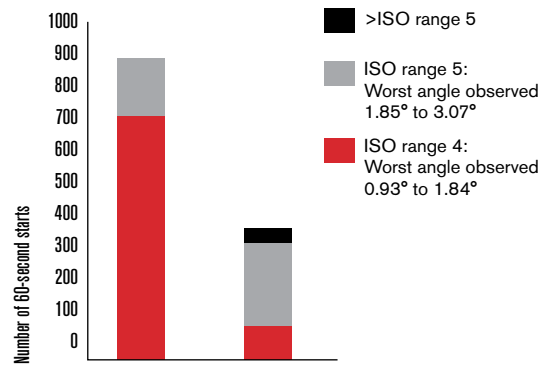


Mild steel cut capacity	
Dross free*	38 mm (1-1/2")
Production pierce	50 mm (2")
Maximum cutting capacity	80 mm (3.2")
Stainless steel cut capacity	
Production pierce	75 mm (3")
Maximum pierce**	100 mm (4")
Severance	160 mm (6-1/4")
Aluminum cut capacity	
Production pierce	75 mm (3")
Maximum cutting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

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

Cut quality over life (800 A)

75 mm (3") stainless steel



*Discontinued Hypertherm plasma system

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 five decades of experience, guarantees Hypertherm Associates quality you can count on.

Superior cut quality on mild steel and stainless steel



Specifications

Input voltages (3-PH) and currents	Per power supply		Chiller Amps
	VAC	Hz	
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	O ₂ , N ₂ , F5*, H35**, Air, Ar		
Plasma gas	N ₂ , O ₂ , Air, Ar		
Shield gas	8.3 bar (120 psi) Manual gas console		
Gas pressure	8 bar (115 psi) Automatic gas console		

*F5= 5% H, 95% N₂

**H35 = 35% H, 65% Ar



Cut with confidence

- Hypertherm Associates is ISO 9001: 2000 registered.
- Hypertherm Associates' full-system warranty provides complete coverage for one year on the torch and leads and two years on all other system components.
- Hypertherm 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.

For more information, visit: www.hypertherm.com

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Please visit www.hypertherm.com/patents for more details about Hypertherm Associates patent numbers and types.

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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 ₂ plasma	80†	3	6145	.135	180
Air shield		12	1410	1/2	50
		20	545	3/4	25
O ₂ plasma	130†	6	4035	1/4	150
Air shield		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	1-1/2	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 plasma*	130†	6	1835	1/4	70
N ₂ shield		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	1790	1/2	65
		20	1320	3/4	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*	400†	20	1810	3/4	75
N ₂ shield		50	520	2	20
		80	180	3	10
H35 plasma	800†	75	464	3	18
N ₂ shield		125	155	5	6
		160	100	6-1/4	4
Aluminum	130	6	2215	1/4	85
H35 and N ₂ plasma*		12	1455	1/2	55
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 plasma*	400	12	5190	1/2	200
N ₂ shield		50	1000	2	40
		80	210	3	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	907	3	35
N ₂ shield		160	179	6-1/4	7

HDi

† Consumables support up to 45° bevel capability.

* H35 and N₂ 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.

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Environmental stewardship is one of Hypertherm Associates' core values. www.hyperthermassociates.com/environment

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