Hypertherm®

HyPerformance® Plasma HPR260XD®

The HPR260XD delivers superior HyPerformance cutting across a broad range of application needs, from very thin to heavier thicknesses.



Mild steel cut capacity	
Dross free*	32 mm (1-1/4")
Production pierce	38 mm (1-1/2")
Maximum cutting capacity	64 mm (2-1/2")
Stainless steel cut capacity	
Production pierce	32 mm (1-1/4")
Maximum cutting capacity	50 mm (2")
Aluminum cut capacity	
Production pierce	25 mm (1")
Maximum cutting capacity	50 mm (2")

* Feature and material type can influence dross free performance.

Superior cut quality and consistency

HyPerformance Plasma cuts fine-feature parts with superior quality and consistency, eliminating the cost of secondary operations.

- HyDefinition® technology aligns and focuses the plasma arc for more powerful precision cutting up to 64 mm (2-1/2") on mild steel.
- New HDi™ technology delivers HyDefinition cut quality on thin stainless steel from 3 to 6 mm (12 ga. to 1/4").
- Patented system technologies deliver more consistent cut quality over a longer period of time than other systems available on the market.

Maximized productivity

HyPerformance Plasma combines fast cutting speeds, rapid process cycling, quick changeovers and high reliability to maximize productivity.

Minimized operating cost

HyPerformance Plasma lowers operating cost and improves profitability.

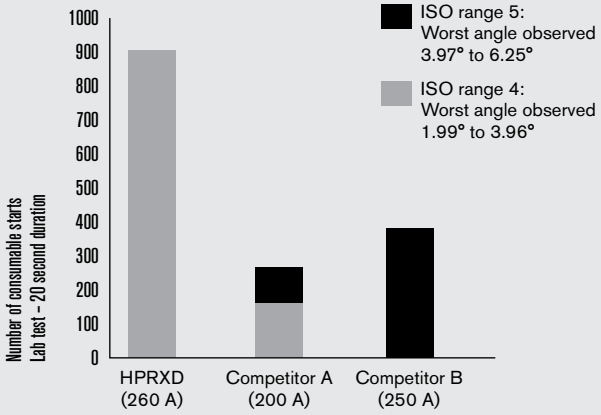
- LongLife® technology significantly increases consumable life and enables consistent HyDefinition cut quality over the longest period of time.

Unmatched reliability

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

Cut quality over life (260 A)

20 mm (3/4") mild steel



Superior cut quality on mild steel and stainless steel



Specifications

Input voltages (3-PH) and currents	VAC	Hz	Amps
	200/208	50/60	149/144
	220	50/60	136
	240	60	124
	380	50/60	84
	400	50/60	75
	415	50/60	75
	440	60	68
	480	60	62
	600	60	50
Output voltage	175 VDC		
Output current	260 A		
Duty cycle	100% at 40°C (104°F) at 45.5 kW		
Power factor	0.98 @ 45.5 kW output		
Maximum OCV	311 VDC		
Dimensions	115 cm (45.1") H, 82 cm (32.1") W, 119 cm (46.7") L		
Weight with torch	567 kg (1250 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 bar (115 psi) Automatic gas console		

* F5 = 5% H, 95% N_2
**H35 = 35% H, 65% Ar

Operating data

Material	Current (amps)	Thickness (mm)	Approximate cutting speed (mm/min)	Thickness (inches)	Approximate cutting speed (ipm)
Mild steel O_2 plasma O_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	200†	10 20 32	3460 1575 750	3/8 3/4 1-1/2	140 65 20
O_2 plasma Air shield	260†	12 20 32	3850 2170 1135	1/2 3/4 1-1/2	145 90 35
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
H35 and N_2 plasma* 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	200	8 12 20	2000 1800 1000	5/16 1/2 3/4	79 70 45
H35 plasma N_2 shield	260†	10 12 20	2030 1710 1085	3/8 1/2 3/4	75 65 45
H35 and N_2 plasma* N_2 shield	260†	10 12 20	2190 1790 1320	3/8 1/2 3/4	90 65 55
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
H35 and N_2 plasma* N_2 shield	200	8 12 20	4350 3650 1050	5/16 1/2 3/4	171 140 50
H35 plasma N_2 shield	260	12 20 32	4290 1940 940	1/2 3/4 1-1/4	160 80 40

HDi

†Consumables support up to 45° bevel capability.
* 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 HPR260XD.
Please contact Hypertherm for more information.

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 care deeply about.

Greener Cuts

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870800

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