

# Hypertherm®

## HyPerformance® Plasma HPR260XD®

**The HPR260XD combines fast cutting speeds, rapid process cycling, quick changeovers, and high reliability to maximize productivity**

Hypertherm has spent more than four decades developing over 75 patented plasma technologies to provide customers with exceptional performance they can count on. With thousands of HyPerformance Plasma systems sold around the world, the HPR 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.

### Operating data

#### Mild steel cut capacity

Dross free	32 mm
Production (pierce)	38 mm
Severance (edge starts)	64 mm

#### Stainless steel cut capacity

Production (pierce)	32 mm
Severance (edge starts)	50 mm

#### Aluminum cut capacity

Production (pierce)	25 mm
Severance (edge starts)	50 mm

### Key advantages

#### Superior cut quality and consistency

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

- Patented HyDefinition® technology aligns and focuses the plasma arc for more powerful precision cutting up to 64 mm.
- 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.

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

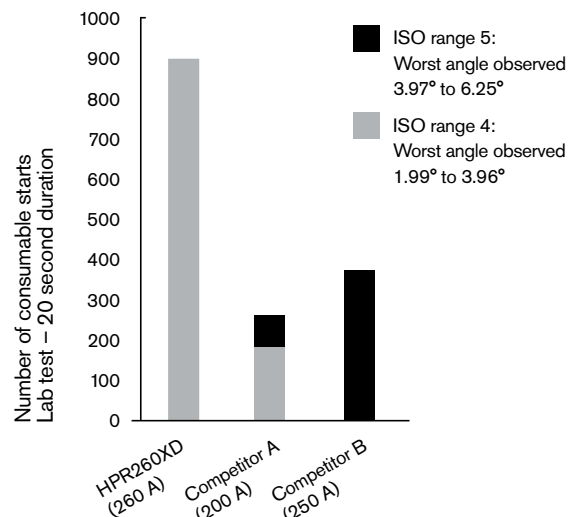
#### Unmatched reliability

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 mild steel



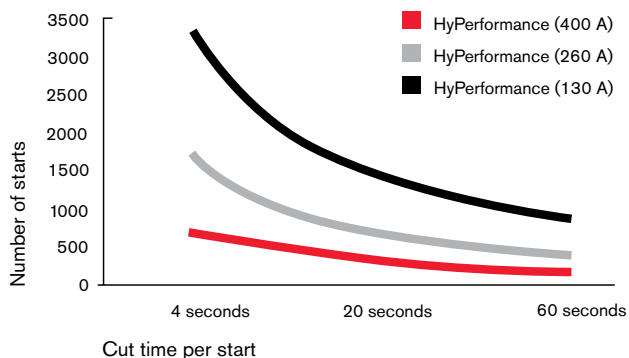
## Specifications

Input voltages	VAC	Hz	Amps
	200/208	50/60	149/144
	220	50/60	136
	240	60	124
	380	50/60	84
	400	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 at 45.5kW		
Maximum OCV	311 VDC		
Dimensions	115 cm H, 82 cm W, 119 cm L		
Weight with torch	567 kg (1250 lbs)		
Gas supply			
Plasma gas	O <sub>2</sub> , N <sub>2</sub> , F5*, H35**, Air, Ar		
Shield gas	N <sub>2</sub> , O <sub>2</sub> , Air, Ar		
Gas pressure	8,3 bar Manual gas console 8 bar Automatic gas console		

\* F5 = 5% H, 95% N<sub>2</sub>  
\*\* H35 = 35% H, 65% Ar



### Longer consumable life



- Hypertherm is ISO 9001:2000 certified.
- Hypertherm full-system warranty – complete coverage for two years on all system components and one year on the torch.

# Hypertherm®

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87080D

## Operating data

**Virtually cross-free cutting capacity – mild steel** 32 mm  
**Production pierce capacity – mild steel** 38 mm  
**Maximum cutting capacity (edge start) – mild steel** 64 mm

Material	Current (amps)	Thickness (mm)	Approximate cutting speed (mm/min.)
Mild steel	30	O <sub>2</sub> plasma	5355
		O <sub>2</sub> shield	3615
		O <sub>2</sub> shield	1160
	50	O <sub>2</sub> plasma	665
		O <sub>2</sub> shield	5000
		O <sub>2</sub> shield	1800
	80	O <sub>2</sub> plasma	950
		Air shield	6145
		Air shield	3045
	130 <sup>†</sup>	O <sub>2</sub> plasma	1810
		Air shield	545
		Air shield	4035
200	O <sub>2</sub> plasma	2680	
	Air shield	2200	
	Air shield	550	
260 <sup>†</sup>	O <sub>2</sub> plasma	5248	
	Air shield	3061	
	Air shield	1575	
260 <sup>†</sup>	O <sub>2</sub> plasma	1167	
	Air shield	254	
	Air shield	4440	
Stainless steel	45	Air shield	3850
		Air shield	2170
		Air shield	1135
F5* plasma	2,5	N <sub>2</sub> shield	195
		N <sub>2</sub> shield	5740
		N <sub>2</sub> shield	2510
80	4	N <sub>2</sub> shield	845
		N <sub>2</sub> shield	2180
		N <sub>2</sub> shield	1225
130 <sup>†</sup>	6	N <sub>2</sub> shield	560
		N <sub>2</sub> shield	1225
		N <sub>2</sub> shield	560
H35** plasma	10	N <sub>2</sub> shield	980
		N <sub>2</sub> shield	820
		N <sub>2</sub> shield	260
200	12	N <sub>2</sub> shield	1620
		N <sub>2</sub> shield	1450
		N <sub>2</sub> shield	1200
260 <sup>†</sup>	15	N <sub>2</sub> shield	820
		N <sub>2</sub> shield	1710
		N <sub>2</sub> shield	1085
Aluminum	45	N <sub>2</sub> shield	785
		N <sub>2</sub> shield	270
		N <sub>2</sub> shield	4420
Air plasma	1,5	Air plasma	2575
		Air plasma	1690
		Air plasma	1690
H35** plasma	130 <sup>†</sup>	N <sub>2</sub> shield	1455
		N <sub>2</sub> shield	940
		N <sub>2</sub> shield	540
200	10	N <sub>2</sub> shield	4400
		N <sub>2</sub> shield	3800
		N <sub>2</sub> shield	1450
260 <sup>†</sup>	12	N <sub>2</sub> shield	5160
		N <sub>2</sub> shield	2230
		N <sub>2</sub> shield	390

Note: Take care in comparison: Competitors often show maximum cutting speeds, rather than speeds that deliver the best cuts, as shown above. Cut speeds listed above deliver best cut quality, but cut speeds can be up to 50% faster.

The operating data chart does not list all processes available for the HPR260XD. Please contact Hypertherm for more information.

<sup>†</sup> Consumables support up to 45° bevel capability.