

Hypertherm[®]

MAXPRO200[®]

LongLife[®] air and oxygen plasma cutting system



Maximized productivity, easy operation, reliable performance

MAXPRO200



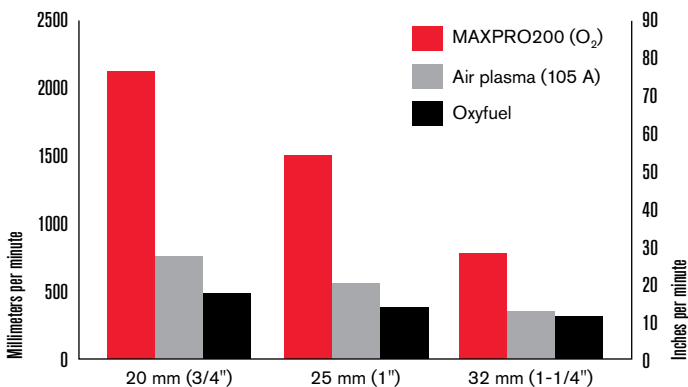
The MAXPRO200 plasma cutting system achieves impressive cut speeds, consistent cut quality and exceptional consumable life with air or oxygen plasma gas. Optimized cutting parameters are automatically set and controlled in one step for easy operation. Engineered for heavy-duty, high capacity mechanized and handheld cutting and gouging, the MAXPRO200 delivers reliable performance across a wide range of industrial applications.

Maximized productivity

MAXPRO200 combines fast cutting speeds and quick process changes to maximize productivity.

- The fastest cut speeds in its class produce more finished parts per hour.
- Engineered with 100% duty cycle for the most demanding production environments.
- Quickly transition between cutting, gouging, mechanized and handheld processes with automatic settings, tool free leads and quick disconnect torches.

Fast cutting speeds = maximum productivity



Easy operation

The easiest plasma system in its class for air and oxygen plasma cutting – easy to install, easy to operate, easy to maximize performance.

- Intuitive one step interface and automatic gas control deliver consistent results without operator intervention.



- Advanced diagnostics simplify troubleshooting and service.
- Optional serial communications allow full control of the system from the CNC.

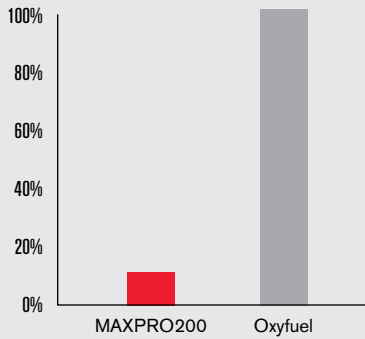
Step up to a superior technology

MAXPRO200 vs. oxyfuel

Cut speeds and pierce times are as much as 7 times faster for maximized productivity.

- Significantly lowers operating cost per part up to 50 mm (2").
- Less dross, less warping, and a smaller heat-affected zone to minimize high-cost secondary operations.
- Increases flexibility to cut and gouge mild steel, stainless steel, aluminum, and stacked, painted or rusted metal.
- Improves mild steel cutting safety over the use of acetylene, a highly flammable gas used for oxyfuel cutting.

Ten times lower cost per meter (foot)



Low operating cost

Exceptional consumable life and consistent performance deliver more cost-effective results.

- Do more with less power: patented consumable designs enable best in class cut speeds and robust production piercing using lower amperage levels.
- Superior cut quality and consistency minimize high cost secondary operations.
- Advanced consumable technologies including LongLife®, CoolFlow™ and TrueFlow™ significantly increase consumable life to reduce cost per part.



Reliable performance

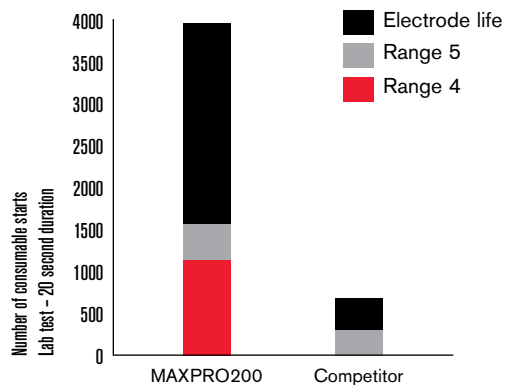
Engineered and tested using the same proven design process as the HyPerformance® HPRXD® product family for superior reliability in the most demanding cutting environments.

- During development, Hypertherm systems endure rigorous reliability testing procedures equivalent to years of use in extreme operating environments.
- The MAXPRO200 is built with less than half the number of internal parts compared to other systems on the market. Fewer parts provide greater reliability and serviceability.
- Self-diagnostics are performed automatically at startup and continually throughout the cutting process.

Longer consumable life = more cost effective

12 mm (1/2") mild steel

200 A Air/Air, 30 m (100') leads



MAXPRO200 65° handheld torch

MAXPRO200 90° handheld torch

MAXPRO200 straight machine torch

MAXPRO200 quick-disconnect machine torch



Specifications

Input voltages	200/208 VAC, 3-PH, 50 Hz, 108/104 A 220 VAC, 3-PH, 50 - 60 Hz, 98 A 240 VAC, 3-PH, 60 Hz, 90 A 380 VAC, 3-PH, 50 Hz, 57 A 400 VAC, CE, 3-PH, 50 - 60 Hz, 54 A 415 VAC, CE, 3-PH, 50 Hz, 52 A 440 VAC, 3-PH, 50 - 60 Hz, 49 A 480 VAC, 3-PH, 60 Hz, 45 A 600 VAC, 3-PH, 60 Hz, 36 A
Output voltage	50-165 VDC
Maximum output current	200 A
Duty cycle rating	100% @ 33 kW, at 40° C (104° F)
Operating temperature	-10° C to 40° C (+14° F to +104° F)
Power factor	0.98 @ 33 kW output
Maximum OCV	360 VDC
Dimensions	102 cm (40.14") H, 69 cm (27.12") W, 105 cm (41.23") L
Weight	335 kg (740 lbs)
Gas supply	
Plasma gas	Air, O ₂ , N ₂
Shield gas	Air, N ₂
Supply gas pressure	6,2 +/- 0,7 bar (90 +/- 10 psig)



Handheld torch and gouging

- 200 A handheld torch capable of cutting up to 75 mm (3") for demolition, scrapping and other heavy-duty cutting demands.
- Drag-cutting consumables make it easy to follow a line or template.
- Metal removal rate on mild steel up to 18.7 kg/hr (41.2 lbs/hr).
- Plasma gouging can replace grinding or carbon arc gouging for many metal-removal applications. Plasma gouging produces less noise and fumes than carbon arc gouging and avoids risks of metallurgic problems from carbon contamination.

For more information, visit:
www.hypertherm.com

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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.



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Operating data

Virtually dross-free cutting capacity - mild steel 20 mm (3/4")
Production pierce capacity - mild steel 32 mm (1-1/4")
Severance* - mild steel 75 mm (3")
Bevel - 200 amp consumables support 45° bevel capability

Material	Current (amps)	Thickness (mm)	Approximate cutting speed (mm/min)	Thickness (inches)	Approximate cutting speed (ipm)
Mild steel					
Air plasma	50	1	8050	20 ga	325
Air shield		3	3760	0.135	110
Air plasma	130	6	3865	1/4	150
Air shield		12	2045	1/2	75
Air plasma	200	6	4885	1/4	190
Air shield		12	2794	1/2	110
		20	1415	3/4	60
		25	940	1	35
		32	630	1-1/4	25
		50	215	2	8
O ₂ plasma	50	1	6775	20 ga	270
Air shield		3	3650	0.135	130
O ₂ plasma	130	6	3925	1/4	150
Air shield		12	2200	1/2	80
O ₂ plasma	200	6	6210	1/4	235
Air shield		12	3415	1/2	130
		20	1920	3/4	80
		25	1430	1	55
		32	805	1-1/4	32
		50	270	2	10
Stainless steel					
N ₂ plasma	200	12	2260	1/2	80
N ₂ shield		20	1190	3/4	50
Air plasma	200	12	3320	1/2	120
Air shield		20	1440	3/4	60

* The thickness that can be severed at approximately 125 mm/min (5 ipm) with reduced cut quality. Cutting at severance thickness should be infrequent.

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.





HySpeed[®] Plasma HSD130[®]

Easy, reliable, and incredibly productive conventional LongLife[®] oxygen plasma cutting system

Mild steel cut capacity	
Dross free	16 mm (5/8")
Production pierce	25 mm (1")
Maximum cutting capacity	38 mm (1-1/2")
Stainless steel cut capacity	
Production pierce	20 mm (3/4")
Maximum cutting capacity	25 mm (1")
Aluminum cut capacity	
Production pierce	20 mm (3/4")
Maximum cutting capacity	25 mm (1")

Incredibly productive

Positioned between Powermax air plasma and HyPerformance HyDefinition plasma systems, the HSD130 features impressive cut speeds, rapid piercing and minimal secondary operations for maximum productivity.

Easy to use

One of the easiest plasma systems available on the market for oxygen and air plasma cutting – easy to install, easy to run, easy to troubleshoot.

Unmatched reliability

Rigorous, extensive testing, backed by four decades of experience, guarantees the Hypertherm quality you know you can count on.

Cost-effective

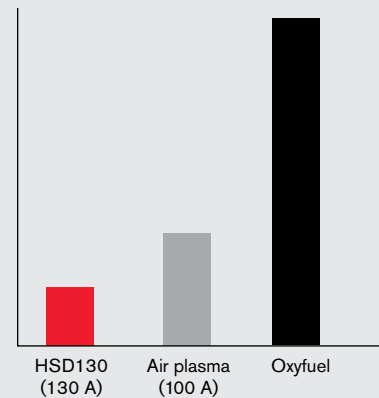
Ease of use, reliability, and productivity all add up to a more cost-effective system than other metal cutting solutions.

Flexibility

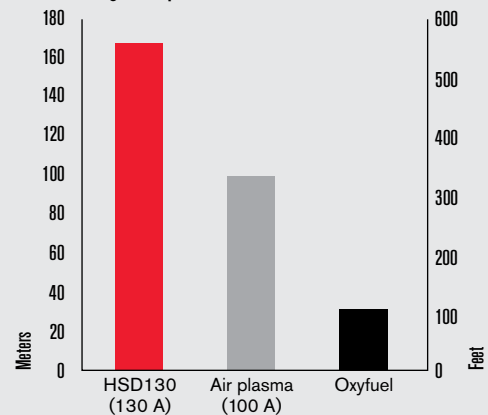
An optional fuel gas console delivers F5 and H35 for superior cut quality on ferrous materials.



Relative cost per meter and feet
Includes labor rate



Length cut per hour in meters and feet



Specifications

Input voltages	VAC	Hz	Amps	Approvals
	200/208	50-60	62/60	CSA
	220	50-60	56	CSA
	240	60	52	CSA
	380	50-60	33	CCC
	400	50-60	32	CE, GOST-R
	440	50-60	28	CSA
	480	60	26	CSA
	600	60	21	CSA
Output current	130 A (maximum)			
Duty cycle	100% at 40° C (104° F), 19.5 kW			
Maximum OCV	311 VDC			
Operating temperature	-10° C to +40° C (+14° F to +104° F)			
Dimensions	107 cm H, 57 cm W, 112 cm L (42.25" H, 22.5" W, 44" L)			
Weight	286 kg (631 lbs)			
Gas supply	Plasma gas	O ₂ , Air, N ₂ , F5*, H35**		
	Shield gas	Air, N ₂		
	Gas pressure	7.93 bar (115 psi) 6.55 bar (95 psi) – Air		
Fuel-gas console (optional)	Required for F5 and H35 fuel gases			

* F5 = 95% N₂, 5% H

**H35 = 35% H, 65% Ar



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.



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Operating data

Material	Current (amps)	Thickness (mm)	Approximate cutting speed (mm/min)	Thickness (inches)	Approximate cutting speed (ipm)			
Mild steel Air plasma Air shield	45	0.5	8930	26 ga.	360			
		1	7750	20 ga.	315			
		3	3300	0.135	90			
		6	1575	1/4	60			
		O ₂ plasma Air shield	50	0.5	7550	26 ga.	300	
				1	6775	20 ga.	270	
	3			3650	0.135	130		
	6			1750	1/4	65		
	O ₂ plasma Air shield			130	3	6500	0.135	240
					6	4000	1/4	150
		10	2650		3/8	110		
		12	2200		1/2	80		
15		1650	5/8		60			
25		675	1		25			
Air plasma Air shield	130	32	480	1-1/4	20			
		38	305	1-1/2	12			
		3	6000	0.135	220			
		6	3850	1/4	150			
		10	2450	3/8	100			
		12	2050	1/2	75			
	Stainless steel	45	0.5	6800	26 ga.	270		
			1	5600	20 ga.	230		
			3	2250	0.135	70		
			6	1050	1/4	40		
			N ₂ plasma N ₂ shield	45	0.5	7000	26 ga.	280
					1	5850	20 ga.	240
3	2450	0.135			75			
6	1125	1/4			40			
F5 plasma† N ₂ shield	45	0.5			7000	26 ga.	280	
		1			5875	20 ga.	240	
		3	2740	0.135	100			
		6	1325	1/4	45			
		Air plasma Air shield	130	6	2600	1/4	100	
				10	1700	3/8	70	
12	1380			1/2	50			
15	900			5/8	30			
20	430			3/4	20			
N ₂ plasma N ₂ shield	130			6	2340	1/4	90	
		10	1640	3/8	70			
		12	1080	1/2	35			
		20	300	3/4	15			
		H35 plasma† N ₂ shield	130	10	980	3/8	40	
				12	820	1/2	30	
20	360			3/4	15			
25	260			1	10			
Aluminum Air plasma Air shield	45			0.5	7600	0.016	310	
				1	6350	0.032	270	
		1.5	5000	0.064	185			
		3	2400	1/8	90			
		6	1150	1/4	40			
		Air plasma Air shield	130	6	2370	1/4	90	
	10			1465	3/8	60		
	12			1225	1/2	45		
	20			725	3/4	30		
	25			525	1	20		
	H35 plasma† N ₂ shield			130	10	1615	3/8	65
		12	1455		1/2	55		
20		940	3/4		40			
25		540	1		20			

†Optional fuel-gas console required for H35 and F5 plasma.

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 maximum cut speeds can be up to 50% faster.



Hypertherm®

HyPerformance® Plasma HPR130XD®

The HPR130XD delivers incomparable HyPerformance cut quality from very thin up to mid-range materials.

Mild steel cut capacity

Dross free*	16 mm (5/8")
Production pierce	32 mm (1-1/4")
Maximum cutting capacity	38 mm (1-1/2")

Stainless steel cut capacity

Production pierce	20 mm (3/4")
Maximum cutting capacity	25 mm (1")

Aluminum cut capacity

Production pierce	20 mm (3/4")
Maximum cutting capacity	25 mm (1")

* 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 38 mm (1-1/2").
- 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.

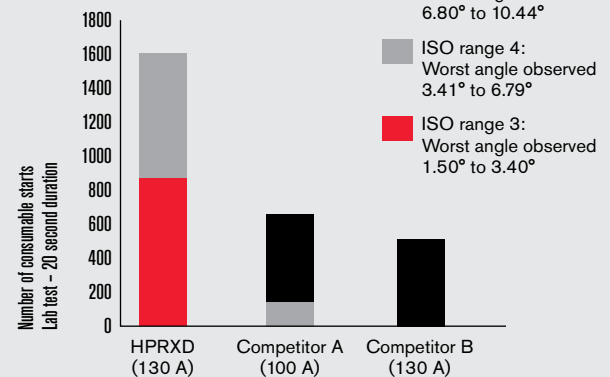
Unmatched reliability

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



Cut quality over life (130 A)

10 mm (3/8") 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	62/58
	220	50/60	58
	240	60	52
	380	50/60	34
	400	50/60	32
	415	50/60	32
	440	60	28
	480	60	26
	600	60	21
Output voltage	50-150 VDC		
Output current	130 A		
Duty cycle	100% at 40°C (104°F) at 19.5 kW		
Power factor	0.88 @ 19.5 kW output		
Maximum OCV	311 VDC		
Dimensions	97 cm (38.1") H, 57 cm (22.3") W, 108 cm (42.5") L		
Weight with torch	317.5 kg (700 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% N₂

**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	30	0.5	5355	.018	215
O ₂ plasma		3	1160	.135	40
O ₂ shield		6	665	1/4	25
O ₂ plasma	50	1	5000	.036	210
		3	1800	.135	60
		6	950	1/4	35
O ₂ plasma	80†	3	6145	.135	180
		12	1410	1/2	50
		20	545	3/4	25
O ₂ plasma	130†	6	4035	1/4	150
		10	2680	3/8	110
		25	550	1	20
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 plasma	130†	8	1140	5/16	45
		12	820	1/2	30
		20	360	3/4	15
H35 and N ₂ plasma*	130†	8	1515	5/16	60
		12	875	1/2	30
		20	305	3/4	15
Aluminum	45	3	2850	1/8	110
Air plasma		4	2660	3/16	90
Air shield		6	1695	1/4	60
H35 and N ₂ plasma*	130	6	2215	1/4	85
		12	1455	1/2	55
		20	815	3/4	35

HDI

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.

†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 HPR130XD.

Please contact Hypertherm for more information.

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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.

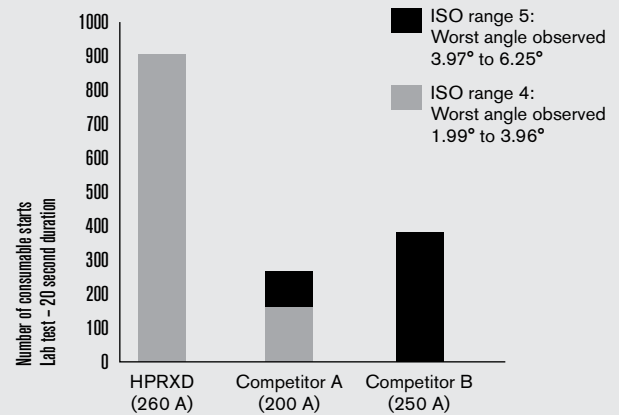
Unmatched reliability

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 DCV	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% N₂

**H35 = 35% H, 65% Ar



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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 Air shield	80†	3	6145	.135	180	
		12	1410	1/2	50	
		20	545	3/4	25	
O ₂ plasma Air shield	130†	6	4035	1/4	150	
		10	2680	3/8	110	
		25	550	1	20	
O ₂ plasma Air shield	200†	10	3460	3/8	140	
		20	1575	3/4	65	
		32	750	1-1/2	20	
O ₂ plasma Air shield	260†	12	3850	1/2	145	
		20	2170	3/4	90	
		32	1135	1-1/2	35	
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* N ₂ shield	130†	6	1835	1/4	70	
		12	875	1/2	30	
		20	305	3/4	15	
H35 and N ₂ plasma* N ₂ shield	200	8	2000	5/16	79	
		12	1800	1/2	70	
		20	1000	3/4	45	
H35 plasma N ₂ shield	260†	10	2030	3/8	75	
		12	1710	1/2	65	
		20	1085	3/4	45	
H35 and N ₂ plasma* N ₂ shield	260†	10	2190	3/8	90	
		12	1790	1/2	65	
		20	1320	3/4	55	
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
H35 and N ₂ plasma* N ₂ shield	200	8	4350	5/16	171	
		12	3650	1/2	140	
		20	1050	3/4	50	
H35 plasma N ₂ shield	260	12	4290	1/2	160	
		20	1940	3/4	80	
		32	940	1-1/4	40	

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 HPR260XD.

Please contact Hypertherm for more information.

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Hypertherm®

HyPerformance® Plasma HPR400XD®

The HPR400XD delivers the ultimate in HyPerformance mild steel cutting as well as heavy-duty stainless and aluminum capability.

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	45 mm (1-3/4")
Maximum pierce**	75 mm (3")
Severance	80 mm (3.2")

Aluminum cut capacity

Production pierce	38 mm (1-1/2")
Maximum cutting capacity	80 mm (3.2")

* 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.

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 mild steel cutting up to 80 mm (3.2").
- 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.

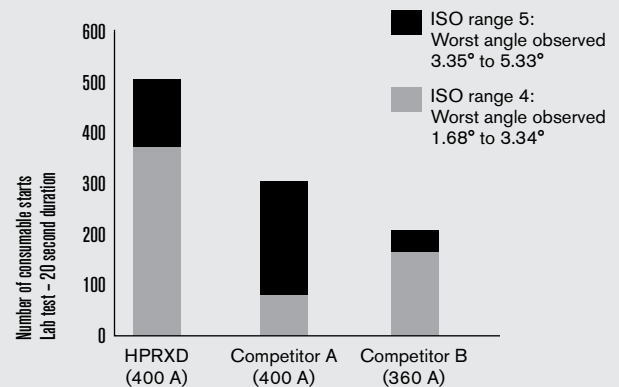
Unmatched reliability

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



Cut quality over life (400 A)

25 mm (1") 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	262/252
	220	50/60	238
	240	60	219
	380	50/60	138
	400	50/60	131
	440	50/60	120
	480	60	110
	600	60	88
Output voltage	200 VDC		
Output current	400 A		
Duty cycle	100% at 40°C (104°F) at 80 kW		
Power factor	0.98 @ 80 kW output		
Maximum OCV	360 VDC		
Dimensions	118 cm (46.4") H, 88 cm (34.7") W,		
	126 cm (49.7") L		
Weight with torch	851 kg (1877 lbs)		
Gas supply	O ₂ , N ₂ , F5*, H35**, Air, Ar		
	Plasma gas	N ₂ , O ₂ , 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% N₂

**H35 = 35% H, 65% Ar



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.

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
		3	1160	.135	40
		6	665	1/4	25
O ₂ plasma O ₂ shield	80†	3	6145	.135	180
		12	1410	1/2	50
		20	545	3/4	25
O ₂ plasma Air shield	130†	6	4035	1/4	150
		10	2680	3/8	110
		25	550	1	20
O ₂ plasma Air shield	260†	10	4440	3/8	180
		20	2170	3/4	90
		32	1135	1-1/2	35
O ₂ plasma Air shield	400†	12	4430	1/2	170
		25	2210	1	85
		50	795	2	30
		80	180	3	10
Stainless steel	60	3	2770	0.105	120
		4	2250	0.135	95
		5	1955	3/16	80
		6	1635	1/4	60
H35 and N ₂ plasma* N ₂ shield	130†	6	1835	1/4	70
		12	875	1/2	30
		20	305	3/4	15
H35 and N ₂ plasma* N ₂ shield	260†	10	2190	3/8	90
		12	1790	1/2	65
		20	1320	3/4	55
H35 plasma N ₂ shield	400†	20	1100	3/4	45
		50	400	2	15
		60	280	2-1/2	10
H35 and N ₂ plasma* N ₂ shield	400†	20	1810	3/4	75
		50	520	2	20
		80	180	3	10
Aluminum	130	6	2215	1/4	85
		12	1455	1/2	55
		20	815	3/4	35
N ₂ plasma* Air shield	260	12	4290	1/2	160
		20	1940	3/4	80
		32	940	1-1/4	40
H35 and N ₂ plasma* N ₂ shield	400	12	5190	1/2	200
		50	1000	2	40
		80	210	3	10

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 HPR400XD.

Please contact Hypertherm for more information.

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.



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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.

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.

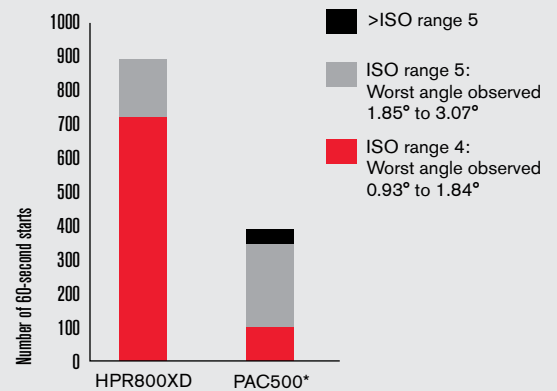
Unmatched reliability

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Cut quality over life (800 A)

75 mm (3") stainless steel



*Discontinued Hypertherm plasma system

Superior cut quality on mild steel and stainless steel



Specifications

Input voltages (3-PH) and currents	Per power supply		Chiller Amps	
	VAC	Hz		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 bar (115 psi) Automatic gas console			

* F5 = 5% H, 95% N₂

**H35 = 35% H, 65% Ar



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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 Air shield	80†	3	6145	.135	180
		12	1410	1/2	50
		20	545	3/4	25
O ₂ plasma Air shield	130†	6	4035	1/4	150
		10	2680	3/8	110
		25	550	1	20
O ₂ plasma Air shield	260†	10	4440	3/8	180
		20	2170	3/4	90
		32	1135	1-1/2	35
O ₂ plasma Air shield	400†	12	4430	1/2	170
		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
N ₂ shield		6	1635	1/4	60
H35 and N ₂ plasma* N ₂ shield	130†	6	1835	1/4	70
		12	875	1/2	30
		20	305	3/4	15
H35 and N ₂ plasma* N ₂ shield	260†	6	3980	1/4	150
		12	1790	1/2	65
		20	1320	3/4	55
H35 plasma N ₂ shield	400†	20	1100	3/4	45
		50	400	2	15
		60	280	2-1/2	10
H35 and N ₂ plasma* N ₂ shield	400†	20	1810	3/4	75
		50	520	2	20
		80	180	3	10
H35 plasma N ₂ shield	800†	75	464	3	18
		125	155	5	6
		160	100	6-1/4	4
Aluminum	130	6	2215	1/4	85
H35 and N ₂ plasma* N ₂ shield		12	1455	1/2	55
N ₂ shield		20	815	3/4	35
N ₂ plasma* Air shield	260	12	4290	1/2	160
		20	1940	3/4	80
		32	940	1-1/4	40
H35 and N ₂ plasma* N ₂ shield	400	12	5190	1/2	200
		50	1000	2	40
		80	210	3	10
N ₂ plasma N ₂ shield	600	50	1048	2	40
		60	832	2-1/2	30
		80	600	3	26
H35 plasma N ₂ shield	800	75	907	3	35
		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.

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