Hypertherm[®]

XPR300™

The most significant advance in mechanized plasma cutting technology redefines what plasma can do.

Industry leading cut quality - X-Definition

The XPR advances HyDefinition® cut quality by blending new technology with refined processes for next generation, X-Definition™ cutting on mild steel, stainless steel and aluminum.

- Consistent ISO range 2 results on thin mild steel and extended range 3 cut quality on thicker mild steel and stainless steel
- Superior results on aluminum using Vented Water Injection™ (VWI)

Optimized productivity and reduced operating costs

- Operating costs reduced by over 50%
- Up to 15% higher cut speeds on thicker materials
- Consumable life increases of over 40%
- 20% thicker piercing on stainless steel and 30% thicker on mild steel

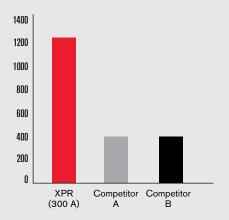
Engineered system optimization and ease of use

- Increases consumable life 3 times that of competitor's systems by eliminating the impact of ramp down errors
- Reduces the impact of catastrophic electrode blowouts which can damage the torch at high current levels
- Automatic system monitoring and specific troubleshooting codes for improved maintenance and service prompts
- EasyConnect[™] torch lead and one hand torch-to receptacle connection for fast and easy change-outs
- QuickLock™ electrode for easy consumable replacement
- WiFi in the power supply can connect to mobile devices and LAN for multiple system monitoring and service



Mild steel		mm	inches
Pierce capacity	(argon-assist)	50 mm	2
	(standard O_2)	45 mm	1-3/4
Severance		80 mm	3-1/8
Stainless steel			
Pierce capacity		38 mm	1-1/2
Severance		75 mm	3
Aluminum			
Pierce capacity		38 mm	1-1/2
Severance		50 mm	2"

Number of 20-second starts with 5% ramp-down errors





Process control and delivery

Three GasConnect console options offer unmatched mild steel cut quality with each console delivering successively enhanced cutting capabilities on stainless steel and aluminum. All consoles can be fully controlled through the CNC for high productivity and ease of use.



Core™ console



Vented Water Injection™ (VWI) console



OptiMix™ console

Specifications

Maximum open-circuit voltage	360 VDC		
Maximum output current	300 A		
Maximum output power	63 kW		
Output voltage	50-210 VDC		
100% duty arc voltage	210 V		
Duty cycle rating	100% at 63 kW, 40° C (104° F)		
Operational ambient temperature range	-10° C-40° C (14° F-104° F)		
Power factor	0.98 @ 63 kW		
Cooling	Forced air (Class F)		
Insulation	Class H		
EMC emissions classification	Class A		
(CE models only)			
(CE models only) Lift points	Top lift eye		

















Hypertherm is ISO 9001: 2008 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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	Console	Cutting gases	Current (A)	Cut chart thickness (mm)	Approximate cutting speed (mm/min)	Cut chart thickness (in.)	Approximate cutting speed (ipm)		
D₂ plasma O₂ shield O₂ shield O₂ shield O₂ shield O₂ plasma O₂ shield O₂ plasma O₂									
O₂ shield S		O2 plasma	30			0.018"	215		
		-					1		
O2 plasma Air shield Air									
Core, Core, Inc. Core, Inc.		O ₂ plasma	80		5582				
Core, VWI, and OptiMix Core, Image		Air shield		6	3048	1/4"	110		
Core, VWI, and OptiMix Oz plasma Air shield 10 2680 3/8" 110				12	1405	1/2"	55		
VWI, and OptiMix Optim			130	3					
OptiMix 02 plasma Air shield 170 6 5080 1/4" 200 Air shield 12 3061 1/2" 115 115 115 115 45 50 267 2" 10 10 45 50 267 2" 10 10 12 3940 112" 155 155 50 560 2" 21 7 75 50 560 2" 21 7 75 50 560 2" 21 7 7 75 50 560 2" 21 7 7 75 50 560 2" 21 7 75 50 560 2" 21 7 75 50 560 2" 21 7 7 240 00 00 00 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10		Air shield							
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