



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

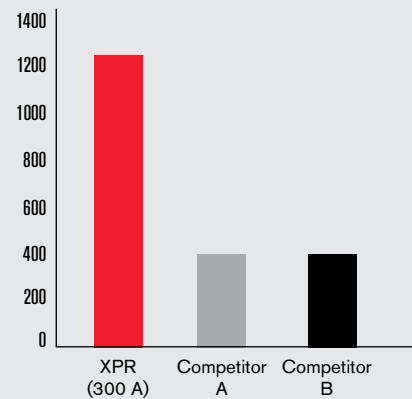
Engineered system optimization and ease of use

- 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
Pierce capacity	(argon-assist)	50 mm
	(standard O ₂)	45 mm
Severance		80 mm
Stainless steel		
Pierce capacity		38 mm
Severance		75 mm
Aluminum		
Pierce capacity		38 mm
Severance		50 mm

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
Operational ambient temperature range	-10° C–40° C
Power factor	0,98 @ 63 kW
Cooling	Forced air (Class F)
Insulation	Class H
EMC emissions classification (CE models only)	Class A
Lift points	Top lift eye
Bottom lift truck slots	Lift eye weight rating 680 kg



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)
Mild steel				
Core, VWI, and OptiMix	O ₂ plasma O ₂ shield	30	0.5	5348
			3	1153
			5	521
	O ₂ plasma Air shield	80	3	5582
			6	3048
			12	1405
	O ₂ plasma Air shield	130	3	6502
			10	2680
			38	256
	O ₂ plasma Air shield	170	6	5080
			12	3061
			25	1175
O ₂ plasma Air shield	300	50	267	
		12	3940	
		25	1950	
			50	560
			80	165
Stainless steel				
Core, VWI, and OptiMix	N ₂ plasma N ₂ shield	40	0.8	6100
			3	2683
			6	918
VWI and OptiMix	F5 plasma N ₂ shield	80	3	4248
			6	1916
			12	864
OptiMix	H ₂ -Ar-N ₂ plasma N ₂ shield	170	10	1975
			12	1735
			38	256
	H ₂ -Ar-N ₂ plasma N ₂ shield	300	12	2038
			25	1040
			50	387
VWI and OptiMix	N ₂ plasma H ₂ O shield	300	75	162
			12	2159
			25	1302
			50	403
Aluminum				
Core, VWI, and OptiMix	Air plasma Air shield	40	1.5	4799
			3	2596
			6	911
VWI and OptiMix	N ₂ plasma H ₂ O shield	80	3	3820
			6	2203
			10	956
	N ₂ plasma H ₂ O shield	130	6	2413
			10	1702
			20	870
N ₂ plasma H ₂ O shield	300	12	2286	
		25	1302	
		50	524	
OptiMix	H ₂ -Ar-N ₂ plasma N ₂ shield	300	12	3810
			25	2056
			50	391

This does not represent a complete list of processes or thicknesses that are available