

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

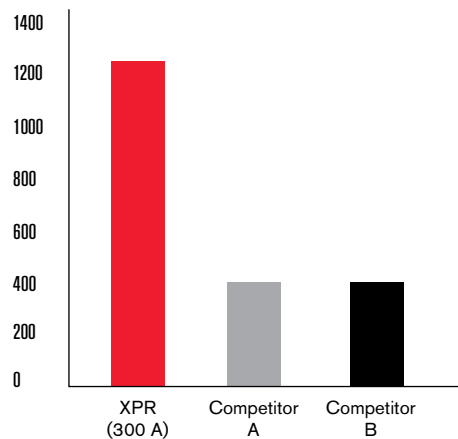
- Significantly reduced operating costs than previous generation technology
- Increased cut speeds on thicker materials
- Dramatic improvement in consumable life on mild steel applications
- Thicker piercing capability than competitive plasma systems

Engineered system optimization and ease of use

- Ramp down error protection significantly increases realized consumable life
- 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 shield gas)	50
	(standard air shield gas)	45
Severance		80
Stainless steel		
Pierce capacity		38
Severance		75
Aluminum		
Pierce capacity		38
Severance		50

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



Process control and delivery

Three gas connect 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	66,5 kW
Output voltage	50-222 VDC
100% duty arc voltage	222 V
Duty cycle rating	100% at 66,5 kW, 40° C
Operational ambient temperature range	-10° C-40° C
Power factor	0,98 @ 66,5 kW
Cooling	Forced air (Class F)
Insulation	Class H
EMC emissions classification (CE models only)	Class A
Lift points	Top lift eye weight rating 680 kg
	Bottom lift truck slots

Hypertherm Associates' quality management system is registered to the International Standard ISO 9001: 2015.

Hypertherm Associates' full-system warranty provides complete coverage for one year on the torch and leads and two years on all other system components.

Hypertherm 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.

Console	Cutting gases	Current (A)	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	50	3	3820
			5	2322
			8	1369
	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	
			60	152
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
VWI and OptiMix	N ₂ plasma H ₂ O shield	170	10	1975
			20	978
			38	434
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	170	10	1994
			20	978
			38	434
OptiMix	H ₂ -Ar-N ₂ plasma N ₂ shield	170	10	3334
			20	1213
			38	384

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

For more information, visit: www.hypertherm.com

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Please visit www.hypertherm.com/patents for more details about Hypertherm Associates patent numbers and types.

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