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

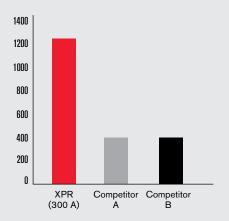
Engineered system optimization and ease of use

- 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 (CE models only)	Class A		
Lift points	Top lift eye		
Bottom lift truck slots	Lift eye weight rating 680 kg (1,500 lb.)		

















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

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 beco deep



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ur, and our customers, success. We are always striving to ome better environmental stewards; it is a process we care ply about.	Greener
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017 Hypertherm Inc. Revision 0 1930	

Console	Cutting gases	Current (A)	Cut chart thickness (mm)	Approximate cutting speed (mm/min)	Cut chart thickness (in.)	Approximate cutting speed (ipm)	
Mild steel							
	O ₂ plasma	30	0.5	5348	0.018"	215	
	O ₂ shield		3	1153	0.135"	40	
			5	521	3/16"	30	
	0_2 plasma	80	3	5582	0.105"	225	
	Air shield		6	3048	1/4"	110	
			12	1405	1/2"	55	
	0_2 plasma	130	3	6502	0.135"	240	
Core,	Air shield		10	2680	3/8"	110	
VWI, and	•	470	38	256	1-1/2"	10	
OptiMix	O ₂ plasma	170	6	5080	1/4"	200	
	Air shield		12	3061	1/2"	115	
			25	1175	1"	45	
	0	200	50	267	2"	10	
	O ₂ plasma Air shield	300	12 25	3940 1950	1/2" 1"	155 75	
	All Siliciu		50	560	2"	21	
			80	165	3-1/8"	7	
			Stainless s		J-1/U	ı	
Core,	N ₂ plasma	40	0.8	6100	0.036"	240	
VWI, and	N ₂ plasma N ₂ shield	70	3	2683	0.105"	120	
OptiMix	itz omoru		6	918	1/4"	32	
	F5 plasma	80	3	4248	0.135	140	
VWI and	N ₂ shield		6	1916	1/4"	70	
OptiMix	-		12	864	1/2"	34	
	H_2 -Ar- N_2	170	10	1975	3/8"	80	
	plasma	170					
	N ₂ shield		12	1735	1/2"	65	
			38	256	1-1/2"	10	
OptiMix	H ₂ -Ar-N ₂	300	12	2038	1/2"	80	
	plasma N ₂ shield		25	1040	1"	40	
	พรูงเทยเน		50	387	2"	17	
			75	162	3"	6	
	N ₂ plasma	300	12	2159	1/2"	85	
VWI and	H ₂ O shield		25	1302	1"	50	
OptiMix			50	403	2"	15	
			Aluminu				
Core,	Air plasma	40	1.5	4799	0.036	240	
VWI, and	Air shield		3	2596	1/8"	85	
OptiMix			6	911	1/4"	32	
VWI and OptiMix	N_2 plasma	80	3	3820	1/8"	140	
	H_2O shield		6	2203	1/4"	80	
			10	956	1/2"	28	
	N ₂ plasma	130	6	2413	1/4"	95	
	H ₂ O shield		10	1702	3/8"	70	
	N	000	20	870	3/4"	35	
	N ₂ plasma	300	12	2286	1/2"	90	
	H ₂ O shield		25	1302	1"	50	
	Un Ar N		50	524	2"	20	
OptiMix	H ₂ -Ar-N ₂ plasma	300	12	3810	1/2"	150	
Opulviix	N_2 shield		25	2056	1"	80	
		unlata list of n	50	391	2"	15	

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









