

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

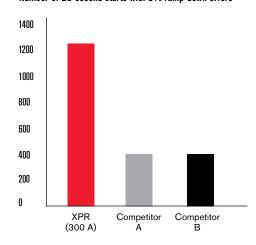
- Significantly reduced operating costs than previous generation technology
- Increased cut speeds on thicker materials
- Dramatic improvement in consumable life on mild steel applications
- Thicker piercing capability than competitive plasma systems

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	inches	
Pierce capacity	(argon-assist shield gas)	50	2	
	(standard air shield gas)	45	1-3/4	
Severance		80	3-1/8	
Stainless steel				
Pierce capacity		38	1-1/2	
Severance		75	3	
Aluminum				
Pierce capacity		38	1-1/2	
Severance		50	2	

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

opeomeanene			
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 (104° F)		
Operational ambient temperature range	-10° C-40° C (14° F-104° F)		
Power factor	098 @ 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 (1,500 lb.)		
	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.

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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				Approximate		Approximate			
Console	Cutting gases	Current (A)	Thickness (mm)	cutting speed (mm/min)	Thickness (in.)	cutting speed (ipm)			
Collanie	yases	(A)	<u> </u>	, ,	(111.)	sheen (thin)			
Mild steel 0₂ plasma 30 0.5 5348 0.018 215									
Core, VWI,	O ₂ plasilia O ₂ shield	30	3	1153	0.135	40			
	Už Siliciu		5	726	3/16	30			
	O ₂ plasma	50	3	3820	0.105	155			
	Air shield	30	5	2322	3/16	95			
	All Siliciu		8	1369	5/16	55 55			
	O₂ plasma	80	3	5582	0.105	225			
	Air shield	00	6	3048	1/4	110			
	All Siliciu		12	1405	1/2	55			
	O ₂ plasma	130	3	6502	0.135	240			
and OptiMix	Air shield	100	10	2680	3/8	110			
ши орших	All officia		38	256	1-1/2	10			
	O ₂ plasma	170	6	5080	1/4	200			
	Air shield	110	12	3061	1/2	115			
	74ii Oillola		25	1175	1	45			
			60	152	2-3/8	6			
	O ₂ plasma	300	12	3940	1/2	155			
	Air shield	000	25	1950	1	75			
	N ₂ shield	300	50	560	2	21			
	ing officia	000	80	165	3	7			
			Stainless s						
	N₂ plasma	40	0.8	6100	0.036	240			
Core, VWI,	N₂ piasina N₂ shield	40	3	2683	0.105	120			
and OptiMix	IN2 SILICIU		6	918	1/4	32			
VWI and OptiMix	F5 plasma	80	3	4248	0.135	140			
	N₂ shield	00	6	1916	1/4	70			
	ing officia		12	864	1/2	34			
	H ₂ Ar-N ₂ plasma	170	10	1975	3/8	80			
	N ₂ shield		12	1735	1/2	65			
	I I Z OIIIOIG		38	256	1-1/2	10			
OptiMix	H ₂ .Ar-N ₂ plasma	300	12	2038	1/2	80			
	N ₂ shield	000	25	1040	1	40			
			50	387	2	15			
			75	162	3	6			
	N₂ plasma	300	12	2159	1/2	85			
VWI and OptiMix	H ₂ O shield	- 30	25	1302	1	50			
			50	434	2	15			
			Aluminu	ım					
	Air plasma	40	1.5	4799	0.036	240			
Core, VWI,	Air shield	-	3	2596	1/8	85			
and OptiMix			6	911	1/4	32			
VWI and OptiMix	N₂ plasma	80	3	3820	1/8	140			
	H₂O shield		6	2203	1/4	80			
			10	956	1/2	28			
	N₂ plasma	130	6	2413	1/4	95			
	H ₂ O shield		10	1702	3/8	70			
			20	870	3/4	35			
	N₂ plasma	300	12	2286	1/2	90			
	H₂O shield	- 30	25	1302	1	50			
			50	524	2	20			
OptiMix	H₂-Ar-N₂ plasma	300	12	3810	1/2	150			
	N ₂ shield	- 30	25	2056	1	80			
			50	391	2	15			
This does not represent a complete list of processes or thicknesses that are available									

As 100% Associate owners, we are all focused on delivering a superior customer experience. www.hyperthermassociates.com/ownership

Environmental stewardship is one of Hypertherm Associates' core values. www.hyperthermassociates.com/environment











