

XPR170[®]

The XPR170 delivers next generation X-Definition processes from very thin up to mid-range thicknesses.

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.

- Superior stainless steel cut quality
- 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 lower operating costs than previous generation technology
- Dramatic improvement in consumable life on mild steel applications
- Thicker piercing capability than competitive plasma systems

Engineered system optimization and ease of use

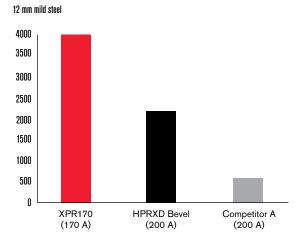
- Ramp down error protection significantly increases realized consumable life
- Automatic system monitoring and specific troubleshooting codes for improved maintenance and service prompts
- EasyConnect[™] torch lead and one hand torch-to-receptacle connection for fast and easy change-outs
- QuickLock[™] electrode for easy consumable replacement
- WiFi in the power supply can connect to mobile devices and network mode for multiple system monitoring and service



Mild steel		mm
Production pierce capacity	(air shield gas)*	35
Enhanced pierce capacity	(argon-assist shield gas)*	40
Severance		60
Stainless steel		
Pierce capacity		22
Severance		38
Aluminum		
Pierce capacity		25
Severance		38

*Argon-assist technology for thicker piercing is available with CorePlus, VWI and OptiMix gas consoles.

Number of 20-second starts





Process control and delivery

Four 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.

CorePlus, VWI, and Optimix gas connect consoles provide a source of argon gas which can be used for significantly improved marking and extended capacity piercing in some applications.



Vented Water Injection[™] (VWI) console



OptiMix[™] console

Specifications

Maximum open-circuit voltage	360 VDC	
Maximum output current	170 A	
Maximum output power	35,7 kW	
Output voltage	50-210 VDC	
100% duty arc voltage	210 V	
Duty cycle rating	100% at 35,7 kW, 40° C	
Operational ambient temperature range	-10° C-40° C	
Power factor	0,98 @ 35,7 kW	
Cooling	Forced air (Class F)	
Insulation	Class H	
EMC emissions classification (CE models only)	Class A	
IP rating	IP21	
Unit dimensions	H = 124.76 cm L = 127.28 cm W = 81.70 cm	
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, CorePlus,	O2 plasma	30	0,5	5348
	O2 shield		3	1153
			5	521
	O2 plasma	50	3	3820
	Air shield		5	2322
			8	1369
	O2 plasma	80	3	5582
	Air shield		6	3048
VWI, and			12	1405
OptiMix	O2 plasma	130	3	6502
	Air shield		10	2680
			38	256
-	O2 plasma	170	6	5080
	Air shield		12	3061
			25	1175
			60	152
		Stainless steel		
Core,	N₂ plasma	40	0,8	6100
CorePlus, VWI, and	N₂ shield		3	2683
OptiMix			6	918
	F5 plasma	80	3	4248
VWI and	N₂ shield		6	1916
OptiMix			12	864
	H2-Ar-N2 plasma	170	10	1975
OptiMix	N₂ shield		12	1735
			38	256
	N₂ plasma	170	10	1975
VWI and OptiMix	H₂O shield		20	978
οριινικ			38	434
		Aluminum		
Core,	Air plasma	40	1,5	4799
CorePlus, VWI, and	Air shield		3	2596
OptiMix			6	911
	N₂ plasma	80	3	3820
	H₂O shield		6	2203
			10	956
	N₂ plasma	130	6	2413
VWI and OptiMix	H₂O shield		10	1702
υμιινικ			20	870
	N₂ plasma	170	10	1994
	H₂O shield		20	978
			38	434
OptiMix	H ₂ -Ar-N ₂ plasma	170	10	3334
	N₂ shield		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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