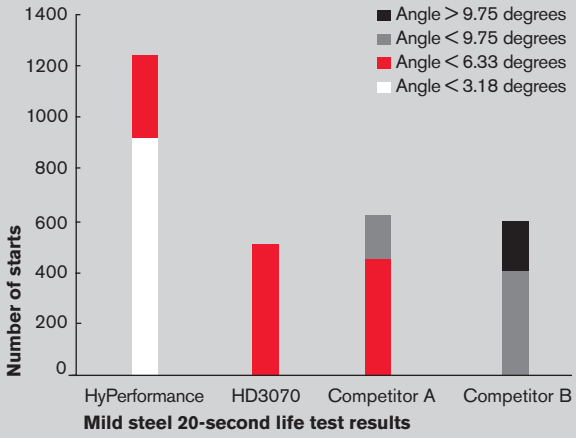
HyPerformance™ Plasma

Superior cut quality and consistency
Maximized productivity
Minimized operating costs

Hypertherm®

Hypertherm has led the advancement of plasma cutting technology for over 35 years and is the world's foremost manufacturer of plasma arc cutting equipment. By continually delivering breakthrough advances in precision cutting, productivity and operating costs, Hypertherm reaffirms and extends its position as the world's leading supplier of advanced high-temperature metal cutting technology.

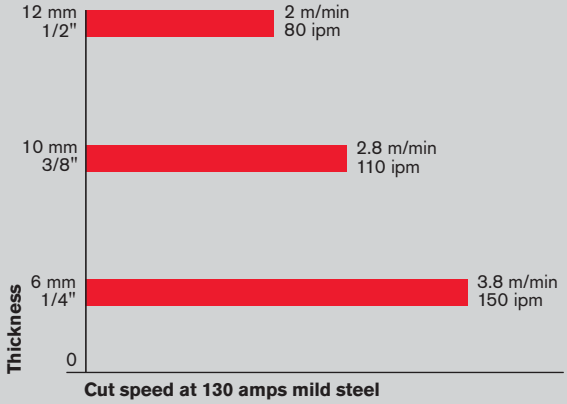
Superior cut quality and consistency



Mild steel 20-second life test results

- Lower cut angle variability than any "precision" competitor tested.
- Consistent, repeatable cutting performance.

Maximized productivity



Cut speed at 130 amps mild steel

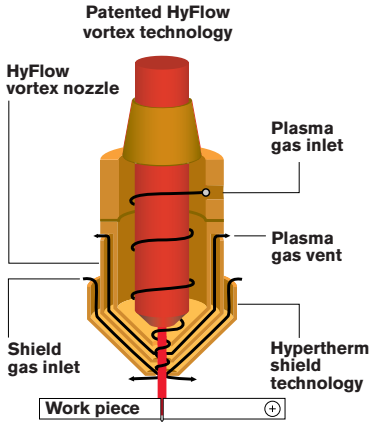
- Increased cut speeds, approaching 200-amp processes.
- Cut speeds listed deliver the best cut quality, cut speeds can be up to 50% faster.

The next generation

HyPerformance Plasma delivers incomparable HyDefinition® cutting at half the operating cost

HyPerformance Plasma delivers the virtually dross-free cut quality of HyDefinition, but does it with greater cut speed and longer consumable life – up to two times longer than with other systems. The latest performance advance from Hypertherm produces precision cuts throughout the life of consumables.

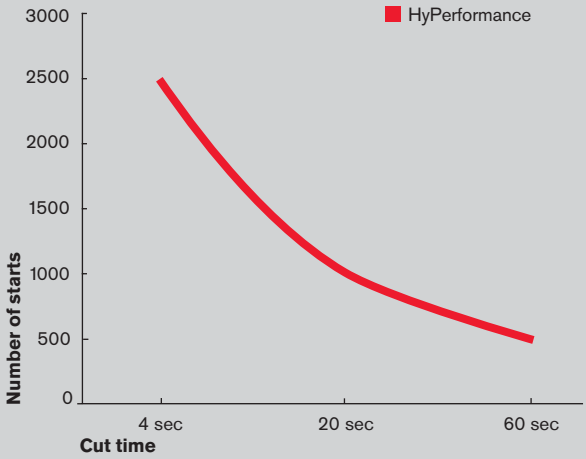

Stainless steel cuts



HyFlow vortex technology stabilizes the arc precisely in the center of the electrode. This consistency improves cut quality and extends consumable life.

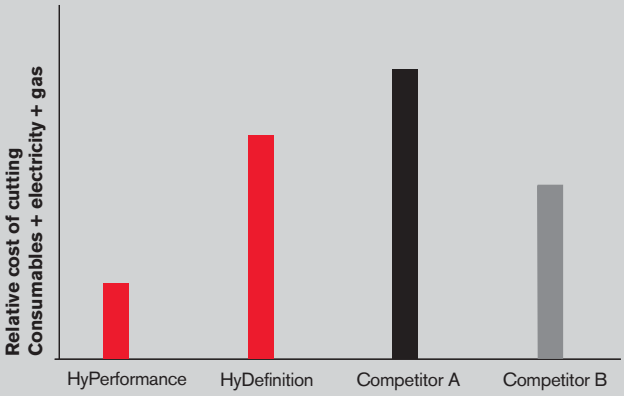
- Patented HyDefinition cutting for consistent quality cutting.
- Superior HyPerformance stainless steel cut quality.
- Patent-pending water tube/electrode design for improved consumable life and consistent cut quality.
- Improved gas console design for ease of use and reduced gas flow variability.
- Patented LongLife® system design for extended parts life.
- Marking and cutting performed with the same consumables.
- Virtually dross-free cutting reduces the need for secondary operations.

Longer consumable life



- Hypertherm's patented LongLife process significantly extends consumable life.

Minimized operating costs



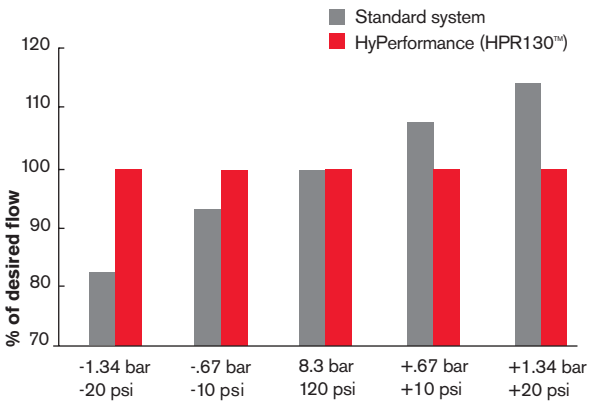
- Half the operating costs of any "precision" competitor tested.
- HyDefinition cut quality at half the operating costs.

# of mechanized plasma

HyPerformance Plasma is designed to be operator-friendly

- Simple, easy-to-use controls with power, current, troubleshooting and gas setting all in one console.
- Quick-disconnect torch for simple and fast consumable change outs.

Responsive gas control reduces variability



* 5.2 bar, 24 l/min (75 psi, 50 scfh)

Specifications CE, CCC, CSA, NRTL/C

Input voltages (3-PH) and currents	VAC	Hz	Amps
	200/208	50 – 60	62
	240	60	52
	400	50 – 60	32
	440	60	24
	480	60	26
	600	60	21
Output voltage	50 – 150 VDC		
Output current	130 A		
Duty cycle	100%		
Maximum OCV	311 VDC		
Dimensions	1079.5 mm (42.5") D, 566.4 mm (22.3") W 967.7 mm (38.1") H		
Weight with torch	317.5 kg (700 lb)		
Gas supply Plasma gas Plasma pressure	 0_2, N_2, F5*, H35**, Air 8.3 bar (120 psi)		
Shield gas Shield pressure	N_2, 0_2, Air 8.3 bar (120 psi)		

* F5 = 95% N_2, 5% H
** H35 = 35% H, 65% Ar

Hypertherm, quality built in

HyPerformance Plasma systems have been subjected to thousands of hours of reliability testing in Hypertherm's laboratories. The results give Hypertherm the confidence to boast a 100% duty cycle in operating environments from -10° C to 40° C.

- CCC, CE, CSA, NRTL/C certification.
- Hypertherm is ISO9001:2000 certified.
- Hypertherm full system warranty – complete coverage for two years on all system components and one year on the torch.
- Enhanced serviceability and reduced part count.

Operating data

Production cutting capacity (piercing) – mild steel 16 mm (5/8")
Maximum pierce capacity – mild steel 25 mm (1")
Maximum cutting capacity (edge start) – mild steel 38 mm (1.5")

Material	Current (Amps)	Thickness (mm)	Approximate cutting speed (mm/min.)	Thickness (Inches)	Approximate cutting speed (ipm)
Mild steel	30	.5	4950	.018	215
0_2 plasma		1	3550	.036	155
0_2 shield		1.5	2150	.060	85
		3	1150	.135	40
		6	650	1/4	25
0_2 plasma	80	3	4650	.135	180
Air shield		6	2540	1/4	110
		10	1900	3/8	75
0_2 plasma	130	6	4025	1/4	150
Air shield		10	2675	3/8	110
		12	2200	1/2	80
		20	1045	3/4	45
		25	550	1	20
		38	250	1 1/2	10
Stainless steel					
F5* plasma	45	1	4800	.036	240
N_2 shield		2.5	2300	.105	90
		4	1400	.135	65
F5* plasma	80	4	2400	.135	105
N_2 shield		6	1100	1/4	45
		10	635	3/8	25
H35** plasma	130	10	975	3/8	40
N_2 shield		12	820	1/2	30
		20	360	3/4	15
Aluminum					
Air/Air	45	1.5	4300	.047	170
		4	2500	.135	110
		6	1500	1/4	60
H35** plasma	130	12	1450	1/2	55
N_2 shield		20	935	3/4	40

Note: Take care in comparison: Competitors often show maximum cutting speeds, rather than speeds that deliver the best cuts, as shown above. Cut speeds listed above deliver best cut quality, cut speeds can be up to 50% faster.

Hypertherm®
The world leader in plasma cutting technology

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