



HyPerformance[®] Plasma HPR260[™]

Superior cut quality and consistency

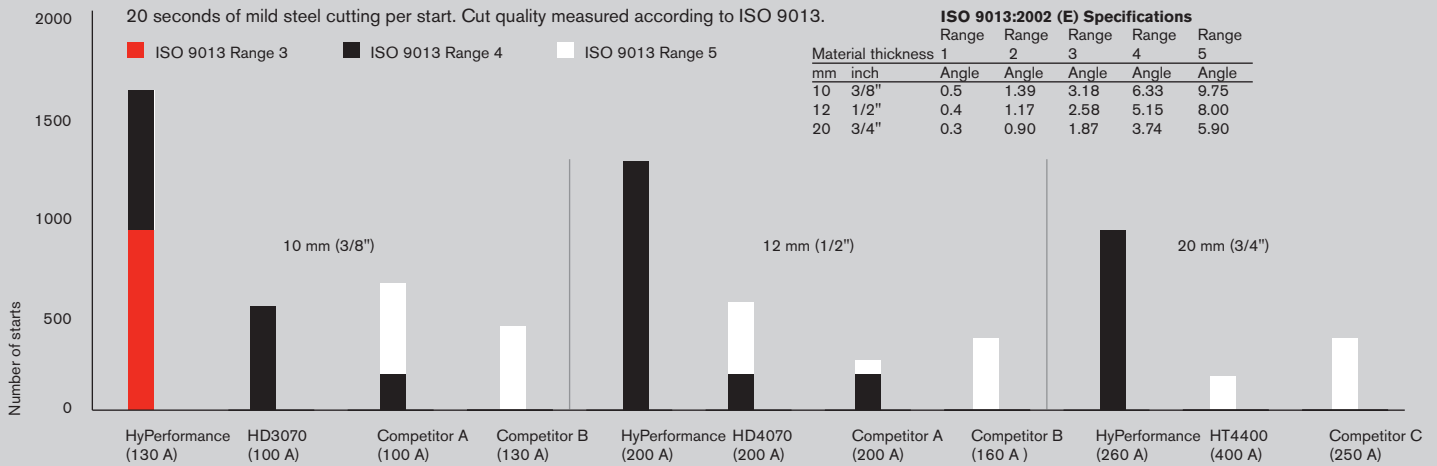
Maximized productivity

Minimized operating costs

Unmatched process flexibility

Hypertherm[®]

HyPerformance Plasma provides more consistent cut quality and longer consumable life than the competition.

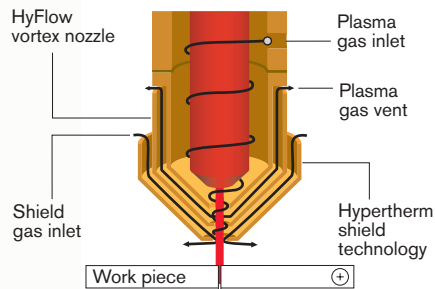


HyPerformance: the next generation

Superior cut quality and consistency

HyPerformance Plasma cuts fine-feature parts with superior quality and consistency – eliminating cost of secondary operations.

Patented HyDefinition cutting for consistent quality

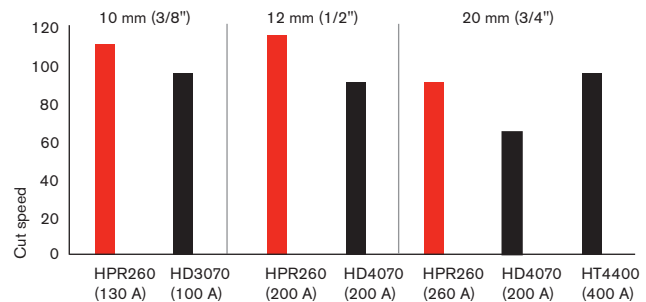


- Patented HyDefinition® technology aligns and focuses the plasma arc, improving arc stability and energy for more powerful precision cutting.
- Narrow kerf width enables fine feature cutting and minimizes material waste.
- Robust, dross-free cutting minimizes part clean-up.
- Repeatable cut-edge quality eliminates scrap and rework.
- Improved hole and internal shape cuts rival laser quality at lower cost.
- New improved stainless-steel process results in mirror-like finish.

Maximized productivity

HyPerformance Plasma combines fast cutting speeds, rapid process cycling, quick changeovers, and high reliability to maximize productivity.

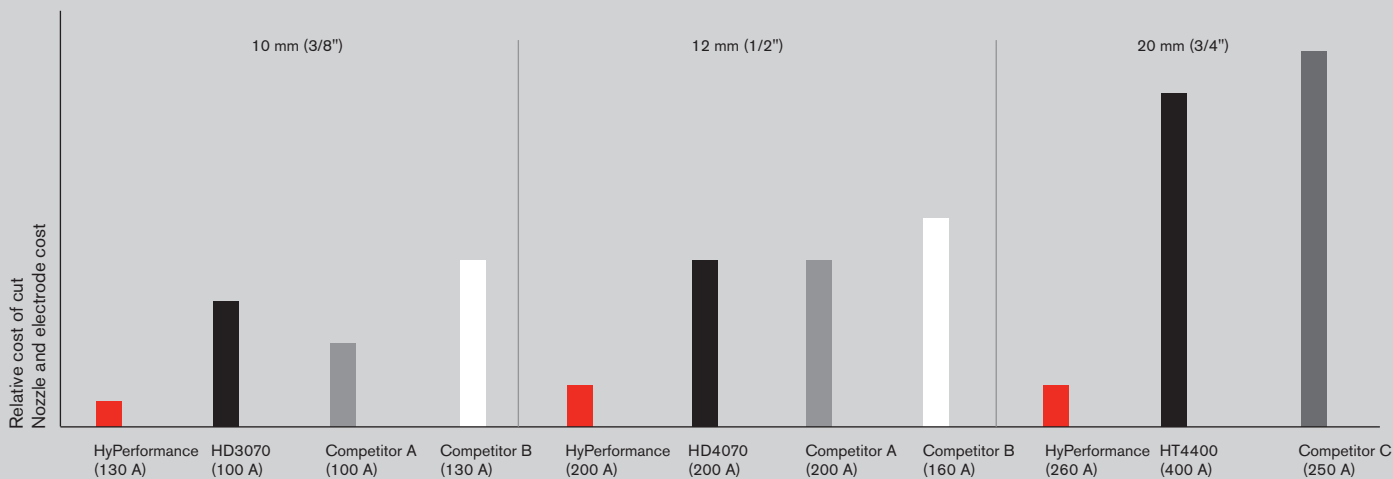
HyDefinition cutting up to 38% faster



- HyPerformance delivers power with HyDefinition precision for production cutting at unprecedented speeds: cut speeds approach competitive 400-amp systems.
- Cut-to-cut cycle time (downtime between cuts) reduced to less than 1.1 seconds: lower than any competitor tested.
- Quick-disconnect torch and intuitive user interface reduce set-up time.
- Long consumable life and high system reliability maximize productive "arc-on" time.



HyPerformance HPR260's operating cost is less than half the cost of the competition.

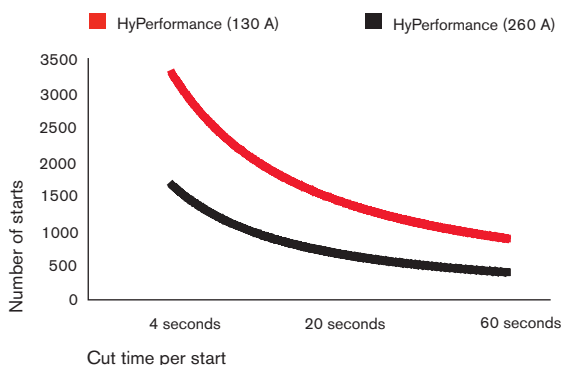


Generation of mechanized plasma

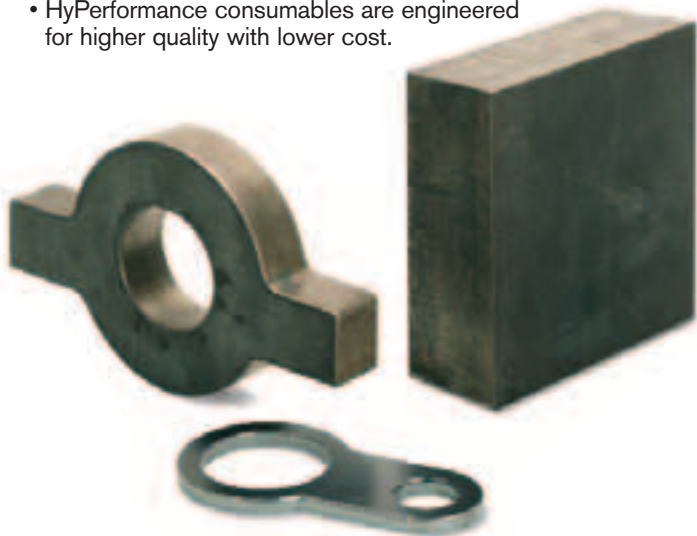
Minimized operating cost

HyPerformance Plasma lowers your operating cost and improves your profitability.

Longer consumable life



- Patented LongLife® technology significantly improves consumable life.
- Exceptional cutting speeds produce more finished parts per set of consumables.
- HyPerformance consumables are engineered for higher quality with lower cost.



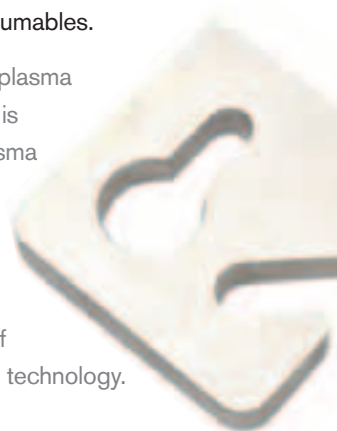
Unmatched process flexibility

HyPerformance Plasma cuts, bevels, and marks a variety of metals, thick and thin, making it the one system that does it all.



- HyPerformance cuts carbon steel, stainless steel, aluminum and other metals with HyDefinition precision.
- HPR260 puts the power to the plate with speed and thickness capability of competitive 400-amp systems.
- Virtually dross-free cutting from gauge to 32 mm (1-1/4").
- Maximum cutting thickness up to 65 mm (2-1/2").
- Bevel cutting up to 45 degrees.
- Marking and cutting with the same consumables.

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 cut quality, productivity and operating costs, Hypertherm reaffirms and extends its position as the world's leading supplier of advanced high-temperature metal cutting technology.



Specifications CE, CCC, CSA

Input voltages	VAC	Hz	Amps
200/208	50 – 60	149/144	
220	50 – 60	136	
240	60	124	
380	50 – 60	84	
400	50 – 60	75	
440	60	68	
480	60	62	
600	60	50	
Output voltage	175 VDC		
Output current	260 A		
Duty cycle	100% at 40°C at 45.5kW		
Maximum OCV	311 VDC		
Dimensions	115 cm (45.1") H, 82 cm (32.1") W, 119 cm (46.7") L		
Weight	567 kg (1250 lbs)		
Gas supply			
Plasma gas	O ₂ , N ₂ , F5*, H35**, Air		
Shield gas	N ₂ , O ₂ , Air		
Gas pressure	8.3 bar (120 psi) Manual gas console 8.0 bar (115 psi) Automatic gas console		

* F5 = 95% N₂, 5% H₂

** H35 = 35% H₂, 65% Ar

CNC-controlled gas delivery

HyPerformance gas control makes it easier for your operator to achieve consistent results.

- CNC system control simplifies set-up of all plasma cutting parameters.
- Automatic gas console monitors and controls gas flows and pressures close to the torch, for improved process consistency.
- Automatic gas console enables rapid switching from one gas cutting process to another or from cutting to marking.



Operating data

Production cutting capacity (piercing) – mild steel	32 mm (1 ¼")
Maximum pierce capacity – mild steel	32 mm (1 ¼")
Maximum cutting capacity (edge start) – mild steel	64 mm (2 ½")

Material	Current (amps)	Thickness (mm)	Approximate cutting speed (mm/min.)	Thickness (inches)	Approximate cutting speed (ipm)
Mild steel	30	.5	5355	.018	215
O ₂ plasma		1	3615	.036	155
O ₂ shield		3	1160	.135	40
		6	665	¼	25
O ₂ plasma	80	3	6145	.135	180
Air shield		6	3045	¼	110
		10	1810	⅜	75
		20	545	¾	25
O ₂ plasma	130	6	4035	¼	150
Air shield		10	2680	⅜	110
		12	2200	½	80
		25	550	1	20
O ₂ plasma	200	6	5250	¼	200
Air shield		12	3060	½	115
		20	1575	¾	65
		25	1165	1	45
		50	255	2	10
O ₂ plasma	260	10	4440	⅜	180
Air shield		12	3850	½	145
		20	2170	¾	90
		32	1135	1 ¼	45
		64	195	2 ½	8
Stainless steel	45	1	5740	.036	240
F5* plasma		2.5	2510	.105	90
N ₂ shield		6	845	¼	30
F5* plasma	80	4	2180	.135	105
N ₂ shield		6	1225	¼	45
		10	560	⅜	25
H35** plasma	130	10	980	⅜	40
N ₂ shield		12	820	½	30
		25	260	1	10
H35** plasma	200	10	1620	⅜	65
N ₂ shield		12	1450	½	55
		15	1200	⅝	45
		20	820	¾	35
H35** plasma	260	12	1710	½	65
N ₂ shield		20	1085	¾	45
		25	785	1	30
		50	270	2	10
Aluminum	45	1.5	4420	.048	220
Air plasma		4	2575	.135	110
Air shield		6	1690	¼	60
H35** plasma	130	12	1455	½	55
N ₂ shield		20	940	¾	40
		25	540	1	20
H35** plasma	200	10	4400	⅜	180
N ₂ shield		12	3800	½	140
		20	1450	¾	70
H35** plasma	260	12	5160	½	190
N ₂ shield		20	2230	¾	90
		50	390	2	14

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, but cut speeds can be up to 50% faster.

The operating data chart does not list all processes available for the HPR260. Please contact Hypertherm for more information.

Hypertherm®

www.hypertherm.com

Hypertherm, HyPerformance Plasma, HPR, HyDefinition and LongLife are trademarks of Hypertherm, Inc., and may be registered in the United States and/or other countries.

© Copyright 11/06 Hypertherm, Inc. Revision 1
870340

- Hypertherm is ISO 9001:2000 registered.
- Hypertherm full-system warranty; complete coverage for two years on all system components and one year on the torch.