HyPerformance™ Plasma HPR260™

Superior cut quality and consistency

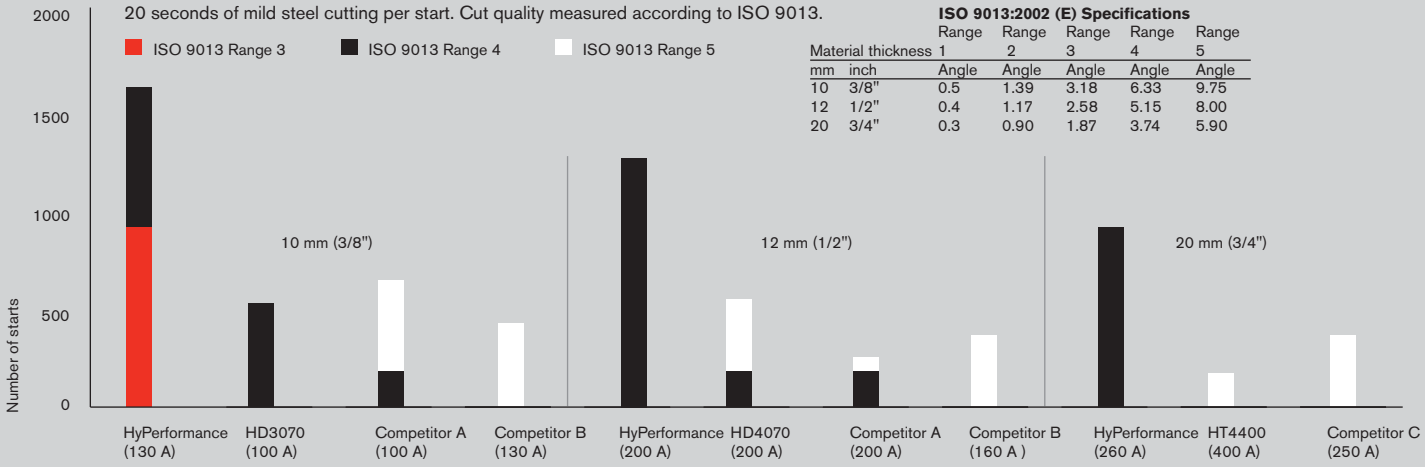
Maximized productivity

Minimized operating costs

Unmatched process flexibility

Hypertherm®

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



ISO 9013:2002 (E) Specifications

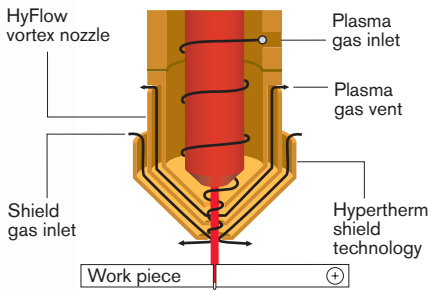
Material thickness		Range 1	Range 2	Range 3	Range 4	Range 5
mm	inch	Angle	Angle	Angle	Angle	Angle
10	3/8"	0.5	1.39	3.18	6.33	9.75
12	1/2"	0.4	1.17	2.58	5.15	8.00
20	3/4"	0.3	0.90	1.87	3.74	5.90

HyPerformance: the next ge

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

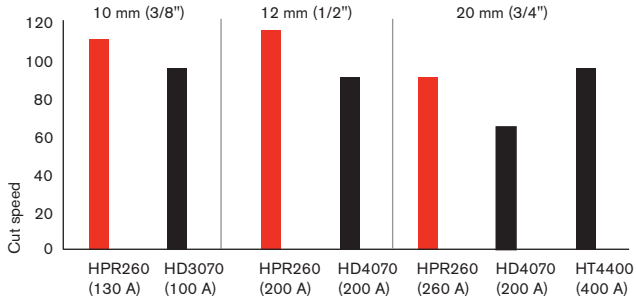


- Patented HyDefinition® technology aligns and focuses the plasma arc, improving arc stability and energy for more powerful precision cutting.
- Narrow kerf width enables fine feature cutting and minimizes material waste.
- Robust, dross-free cutting minimizes part clean-up.
- Repeatable cut-edge quality 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

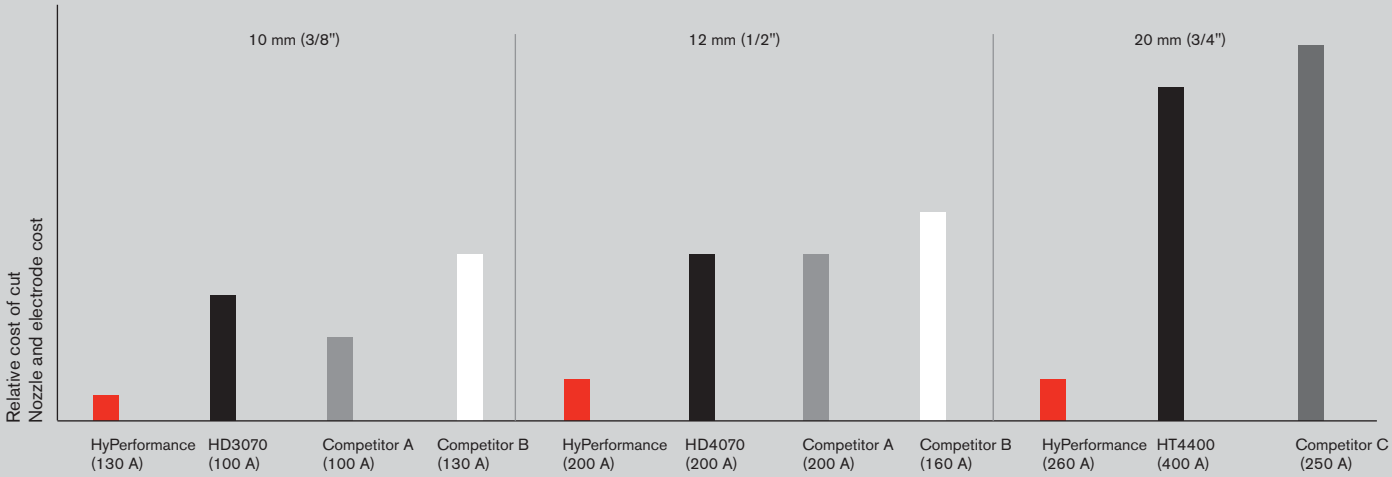
HyPerformance Plasma combines fast cutting speeds, rapid process cycling, quick changeovers, and high reliability to maximize productivity.

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.



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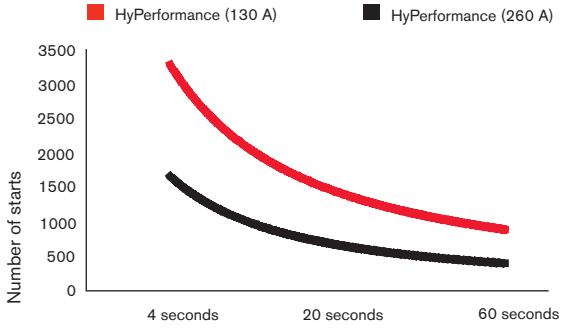
Minimized operating cost

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
	240	60	124
	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 Shield gas Gas pressure	 O_2, N_2, F5*, H35**, Air N_2, O_2, Air 8.3 bar (120 psi) Manual gas console 8.0 bar (115 psi) Automatic gas console		

* F5 = 95% N_2, 5% H_2
** H35 = 35% H_2, 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.

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

Operating data

Production cutting capacity (piercing) – mild steel 32 mm (1¼")
Maximum pierce capacity – mild steel 32 mm (1¼")
Maximum cutting capacity (edge start) – mild steel 64 mm (2½")

Material	Current (amps)	Thickness (mm)	Approximate cutting speed (mm/min.)	Thickness (inches)	Approximate cutting speed (ipm)
Mild steel O_2 plasma O_2 shield	30	.5 1 3 6	5355 3615 1160 665	.018 .036 .135 ¼	215 155 40 25
O_2 plasma Air shield	80	3 6 10 20	6145 3045 1810 545	.135 ¼ ⅜ ¾	180 110 75 25
O_2 plasma Air shield	130	6 10 12 25	4035 2680 2200 550	¼ ⅜ ½ 1	150 110 80 20
O_2 plasma Air shield	200	6 12 20 25 50	5250 3060 1575 1165 255	¼ ½ ¾ 1 2	200 115 65 45 10
O_2 plasma Air shield	260	10 12 20 32 64	4440 3850 2170 1135 195	⅜ ½ ¾ 1¼ 2½	180 145 90 45 8
Stainless steel F5* plasma N_2 shield	45	1 2.5 6	5740 2510 845	.036 .105 ¼	240 90 30
F5* plasma N_2 shield	80	4 6 10	2180 1225 560	.135 ¼ ⅜	105 45 25
H35** plasma N_2 shield	130	10 12 25	980 820 260	⅜ ½ 1	40 30 10
H35** plasma N_2 shield	200	10 12 15 20	1620 1450 1200 820	⅜ ½ ⅝ ¾	65 55 45 35
H35** plasma N_2 shield	260	12 20 25 50	1710 1085 785 270	½ ¾ 1 2	65 45 30 10
Aluminum Air plasma Air shield	45	1.5 4 6	4420 2575 1690	.048 .135 ¼	220 110 60
H35** plasma N_2 shield	130	12 20 25	1455 940 540	½ ¾ 1	55 40 20
H35** plasma N_2 shield	200	10 12 20	4400 3800 1450	⅜ ½ ¾	180 140 70
H35** plasma N_2 shield	260	12 20 50	5160 2230 390	½ ¾ 2	190 90 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.

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