



# ***HyPerformance™ Plasma HPR260™***

***Superior cut quality and consistency***

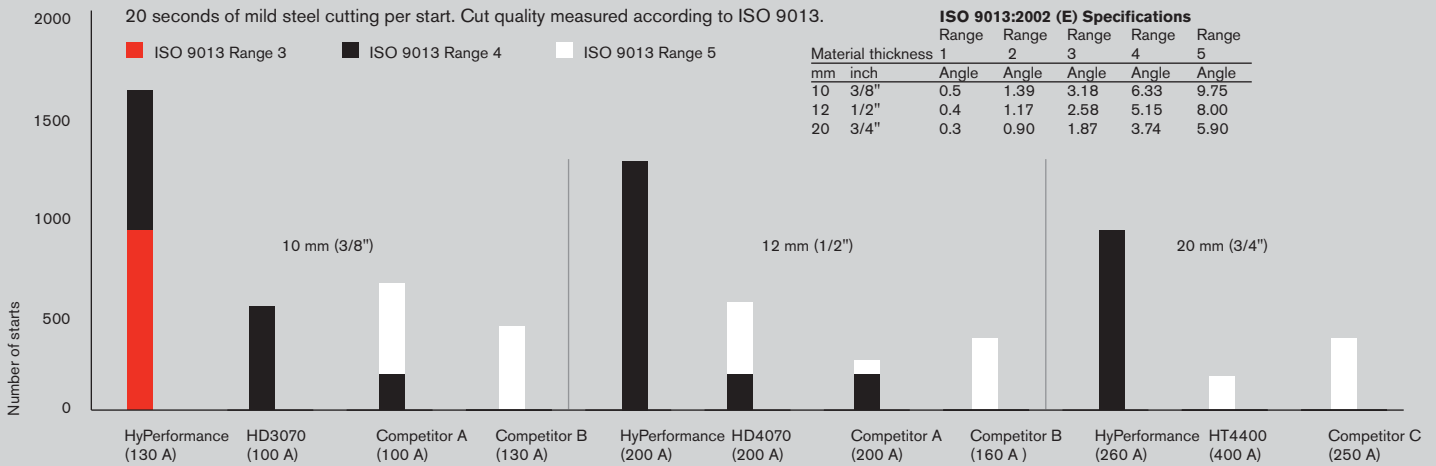
***Maximized productivity***

***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

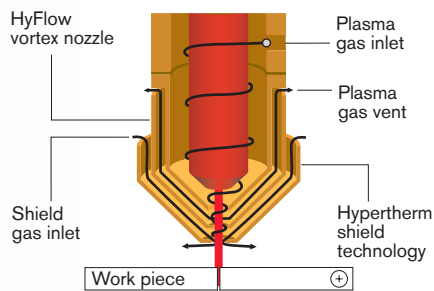
## Superior cut quality and consistency

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

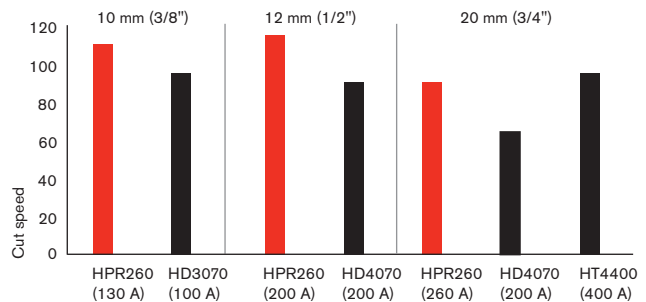
## Maximized productivity

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

### Patented HyDefinition cutting for consistent quality



### HyDefinition cutting up to 38% faster

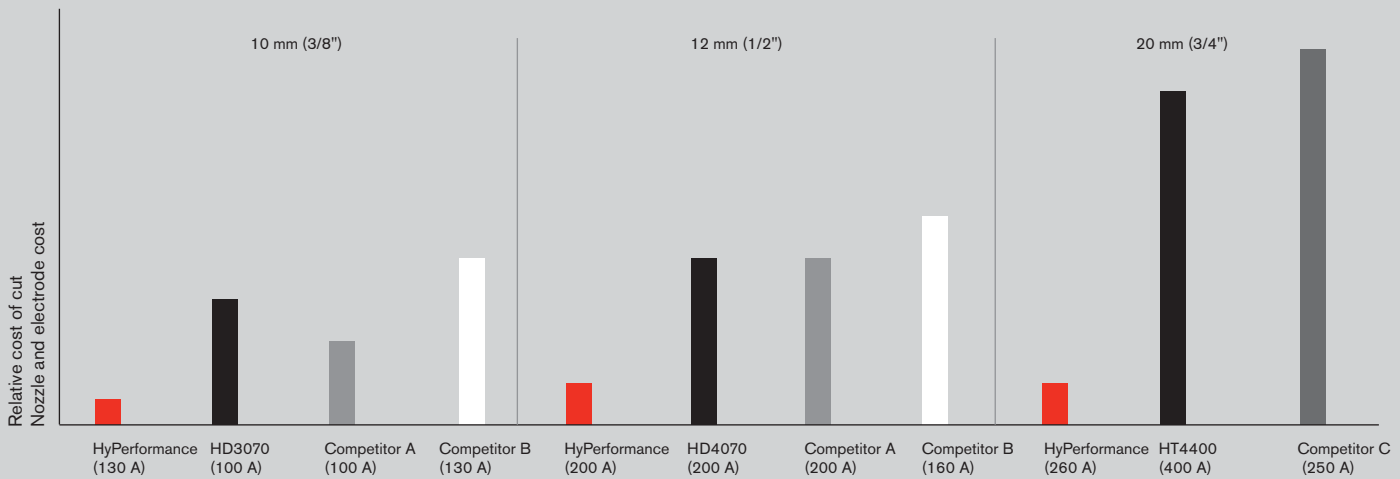


- Patented HyDefinition® technology aligns and focuses the plasma arc, improving arc stability and energy for more powerful precision cutting.
- Narrow kerf width enables fine feature cutting and minimizes material waste.
- Robust, dross-free cutting minimizes part clean-up.
- Repeatable cut-edge quality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

- 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.**

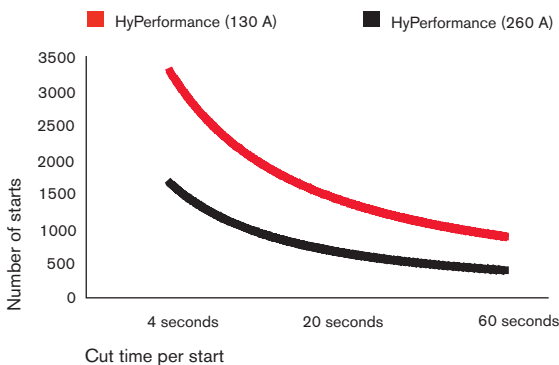


# Generation of mechanized plasma

## 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
	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	O <sub>2</sub> , N <sub>2</sub> , F5*, H35**, Air		
Plasma gas	N <sub>2</sub> , O <sub>2</sub> , Air		
Shield gas	8.3 bar (120 psi) Manual gas console		
Gas pressure	8.0 bar (115 psi) Automatic gas console		

\* F5 = 95% N<sub>2</sub>, 5% H<sub>2</sub>

\*\* H35 = 35% H<sub>2</sub>, 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 (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
		1	3615	.036	155
		3	1160	.135	40
		6	665	¼	25
O <sub>2</sub> plasma Air shield	80	3	6145	.135	180
		6	3045	¼	110
		10	1810	⅜	75
		20	545	¾	25
O <sub>2</sub> plasma Air shield	130	6	4035	¼	150
		10	2680	⅜	110
		12	2200	½	80
		25	550	1	20
O <sub>2</sub> plasma Air shield	200	6	5250	¼	200
		12	3060	½	115
		20	1575	¾	65
		25	1165	1	45
O <sub>2</sub> plasma Air shield	260	50	255	2	10
		10	4440	⅜	180
		12	3850	½	145
		20	2170	¾	90
O <sub>2</sub> plasma Air shield	260	32	1135	1 ¼	45
		64	195	2 ½	8
		1	5740	.036	240
		2.5	2510	.105	90
Stainless steel F5* plasma N <sub>2</sub> shield	45	6	845	¼	30
		4	2180	.135	105
		6	1225	¼	45
F5* plasma N <sub>2</sub> shield	80	10	560	⅜	25
		10	980	⅜	40
		12	820	½	30
H35** plasma N <sub>2</sub> shield	130	25	260	1	10
		10	1620	⅜	65
		12	1450	½	55
H35** plasma N <sub>2</sub> shield	200	15	1200	⅝	45
		20	820	¾	35
		12	1710	½	65
		20	1085	¾	45
H35** plasma N <sub>2</sub> shield	260	25	785	1	30
		50	270	2	10
		1.5	4420	.048	220
Aluminum Air plasma Air shield	45	4	2575	.135	110
		6	1690	¼	60
		12	1455	½	55
H35** plasma N <sub>2</sub> shield	130	20	940	¾	40
		25	540	1	20
		10	4400	⅜	180
H35** plasma N <sub>2</sub> shield	200	12	3800	½	140
		20	1450	¾	70
		12	5160	½	190
H35** plasma N <sub>2</sub> shield	260	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®

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