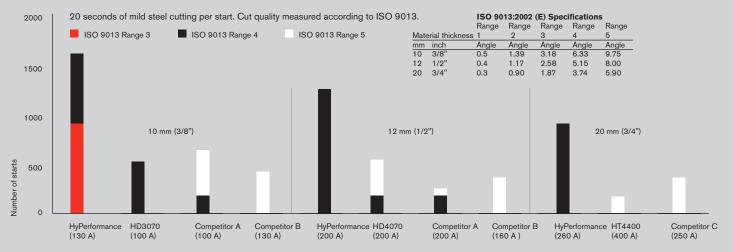
Hyperformation Basma HPR260

Superior cut quality and consistency Maximized productivity Minimized operating costs Unmatched process flexibility



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

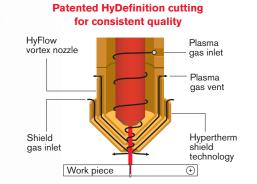


HyPerformance: the next ge



Superior cut quality and consistency

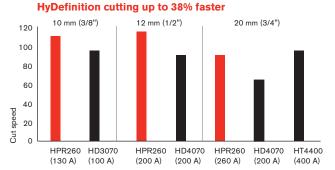
HyPerformance Plasma cuts fine-feature parts with superior quality and consistency – eliminating cost of secondary operations.



- Patented HyDefinition[®] 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 stainlesssteel process results in mirror-like finish.

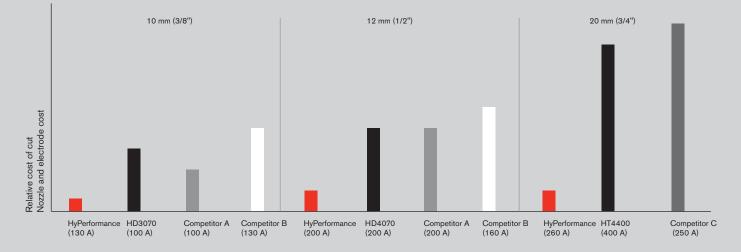
Maximized productivity

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



- 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.

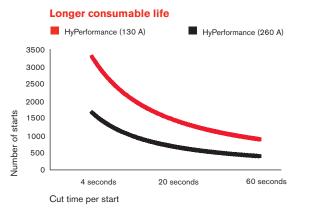
HyPerformance HPR260's operating cost is less than half the cost of the competition.



neration of mechanized plasma

Minimized operating cost

HyPerformance Plasma lowers your operating cost and improves your profitability.



- 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	-	Hz 50 - 60 60 50 - 60 60 60 60	124			
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	0 ₂ , N ₂ , F5*, H35**, Air N ₂ , 0 ₂ , Air 8.3 bar (120 psi) Manual gas console 8.0 bar (115 psi) Automatic gas console					

* F5 = 95% N₂, 5% H₂

** 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 Maximum pierce capacity – mild steel Maximum cutting capacity (edge start) – mild steel 32 mm (1¹/₄") 32 mm (1¹/₄") 64 mm (2¹/₂")

Material Current (mm) Approximate (mm) Approximate (mm) Approximate (mm) Approximate (mm) Mild steel 0 ₂ plasma 0 ₂ shield 30 .5 5355 .0.18 2.15 0 ₂ shield 30 .5 5355 .0.18 2.15 0 ₂ shield 1 3615 .0.36 155 0 ₂ plasma Air shield 80 3 6145 .135 .40 10 20 545 ½ .25 .20 0 ₂ plasma Air shield 130 6 4035 ½ .80 110 2200 ½ 80 .20 .12 .200 ½ .80 112 200 1575 .4 .20 .135 .116 12 3060 ½ .115 .20 .115 .20 .115 .20 .115 .20 .21 .20 .21 .20 .21 .20 .21 .20 .21 .20 .21 .20 .21 .2						
(amps) (mm) (mm/min) (inches) (ipm) Mild stel 0_2 plasma 0_2 shield 30 5 5355 0.18 215 0_2 plasma Air shield 3 6145 .135 40 6 665 $1/4$ 25 0_2 plasma Air shield 80 3 6145 .135 180 Air shield 10 1810 $\frac{3}{8}$ 75 20 545 $\frac{9}{4}$ 110 0_2 plasma Air shield 130 6 4035 $\frac{1}{4}$ 150 0_2 plasma Air shield 100 2680 $\frac{1}{4}$ 200 2_2 plasma Air shield 200 6 5250 1 20 0_2 plasma Air shield 260 10 44400 $\frac{3}{4}$ 65 2_2 plasma Air shield 25 255 2 10 0_2 plasma Air shield 12 3600 $\frac{1}{2}$ 15 2_2 plasma Air shield 12 135 16 14 5						
Mild steel 0_2 plasma 0_2 shield 3 1 3615 3 0.18 3 215 0.36 0_2 plasma Air shield 80 3 6145 6 1.35 40 Air shield 6 3045 10 1.35 40 Air shield 6 3045 10 1.35 180 Air shield 130 6 4035 12 $\frac{1}{\sqrt{4}}$ 150 0_2 plasma Air shield 130 6 4035 12 $\frac{1}{\sqrt{4}}$ 150 0_2 plasma Air shield 200 6 5250 25 1 200 0 12 3060 25 1/4 200 1 20 0_2 plasma Air shield 12 3600 10 4440 32 1 5 0_2 plasma Air shield 12 3850 12 1.155 10 5 0_2 plasma Air shield 12 3850 12 1.155 10 5 0_2 plasma N_2 shield 6 845 1/4 30 105 1_2 plasma N_2 shield	Material					
$\begin{array}{l c c c c c c c c c c c c c c c c c c c$		(amps)	(mm)	(mm/min.)	(inches)	(ipm)
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Mild steel	30	.5	5355	.018	215
	0 ₂ plasma		1	3615	.036	155
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	0 ₂ shield		3	1160	.135	40
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			6	665	1/4	25
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	0 ₂ plasma	80	3	6145	.135	180
$\begin{array}{ c c c c c c } \hline 20 & 545 & \frac{3}{4} & 25 \\ \hline 30 & 6 & 4035 & \frac{1}{4} & 150 \\ 10 & 2680 & \frac{3}{6} & 110 \\ 12 & 2200 & \frac{1}{2} & 80 \\ 25 & 550 & 1 & 20 \\ \hline 25 & 550 & 1 & 20 \\ \hline 20 & 1575 & \frac{3}{4} & 65 \\ \hline 20 & 1575 & \frac{3}{4} & 65 \\ \hline 20 & 10 & 4440 & \frac{3}{6} & 180 \\ 12 & 3850 & \frac{1}{2} & 145 \\ 20 & 2170 & \frac{3}{4} & 90 \\ 32 & 1135 & 1\frac{1}{4} & 45 \\ 20 & 2170 & \frac{3}{4} & 90 \\ 32 & 1135 & 1\frac{1}{4} & 45 \\ 20 & 2170 & \frac{3}{4} & 90 \\ 32 & 1135 & 1\frac{1}{4} & 45 \\ 64 & 195 & 2\frac{1}{2} & 8 \\ \hline 5^{5} plasma & 2.5 & 2510 & .105 \\ N_2 shield & 6 & 845 & \frac{1}{4} & 30 \\ \hline 15^{5} plasma & N_2 shield & 10 & 980 \\ N_2 shield & 10 & 980 & \frac{3}{6} & 40 \\ 15 & 120 & 306 & 240 \\ 15 & 120 & 366 & \frac{3}{4} & 25 \\ \hline 101 & 560 & \frac{3}{4} & 25 \\ \hline 101 & 560 & \frac{3}{4} & 30 \\ \hline 12 & 1450 & \frac{1}{2} & 30 \\ \hline 135^{**} plasma & 200 & 10 & 1620 & \frac{3}{6} & 65 \\ N_2 shield & 12 & 1710 & \frac{1}{2} & 65 \\ N_2 shield & 12 & 1710 & \frac{1}{2} & 65 \\ N_2 shield & 20 & 100 & 1620 & \frac{3}{4} & 45 \\ \hline 105 & 200 & 820 & \frac{3}{4} & 35 \\ \hline H35^{**} plasma & 260 & 12 & 1710 & \frac{1}{2} & 65 \\ N_2 shield & 15 & 1200 & \frac{5}{6} & 45 \\ 10 & 50 & 270 & 2 & 10 \\ \hline Aluminum & 45 & 1.5 & 4420 & .048 & 220 \\ Air plasma & 4 & 2575 & 1 & 30 \\ N_2 shield & 20 & 100 & 1620 & \frac{3}{4} & 45 \\ 135^{**} plasma & 200 & 10 & 1620 & \frac{3}{4} & 45 \\ 15 & 1200 & \frac{5}{6} & \frac{3}{4} & 45 \\ 25 & 785 & 1 & 30 \\ 10 & 20 & 820 & \frac{3}{4} & 45 \\ 10 & 10 & 1690 & \frac{1}{4} & 00 \\ \hline 135^{**} plasma & 4 & 2575 & 1.35 & 110 \\ Air plasma & 4 & 2575 & 1.35 & 110 \\ Aluminum & 45 & 1.5 & 4420 & .048 & 220 \\ Al35^{**} plasma & 200 & 10 & .4400 & \frac{3}{6} & 180 \\ N_2 shield & 20 & 1450 & \frac{1}{4} & .070 \\ \hline H35^{**} plasma & 260 & 12 & .5160 & \frac{1}{2} & .190 \\ N_2 shield & 20 & .1450 & \frac{1}{4} & .070 \\ \hline 135^{**} plasma & 260 & 12 & .5160 & \frac{1}{2} & .190 \\ N_2 shield & 20 & .230 & \frac{3}{4} & .90 \\ \hline \end{array}$			6			
$\begin{array}{ c c c c c c } \hline 20 & 545 & \frac{3}{4} & 25 \\ \hline 30 & 6 & 4035 & \frac{1}{4} & 150 \\ 10 & 2680 & \frac{3}{6} & 110 \\ 12 & 2200 & \frac{1}{2} & 80 \\ 25 & 550 & 1 & 20 \\ \hline 25 & 550 & 1 & 20 \\ \hline 20 & 1575 & \frac{3}{4} & 65 \\ \hline 20 & 1575 & \frac{3}{4} & 65 \\ \hline 20 & 10 & 4440 & \frac{3}{6} & 180 \\ 12 & 3850 & \frac{1}{2} & 145 \\ 20 & 2170 & \frac{3}{4} & 90 \\ 32 & 1135 & 1\frac{1}{4} & 45 \\ 20 & 2170 & \frac{3}{4} & 90 \\ 32 & 1135 & 1\frac{1}{4} & 45 \\ 20 & 2170 & \frac{3}{4} & 90 \\ 32 & 1135 & 1\frac{1}{4} & 45 \\ 64 & 195 & 2\frac{1}{2} & 8 \\ \hline 5^{5} plasma & 2.5 & 2510 & .105 \\ N_2 shield & 6 & 845 & \frac{1}{4} & 30 \\ \hline 15^{5} plasma & N_2 shield & 10 & 980 \\ N_2 shield & 10 & 980 & \frac{3}{6} & 40 \\ 15 & 120 & 306 & 240 \\ 15 & 120 & 366 & \frac{3}{4} & 25 \\ \hline 101 & 560 & \frac{3}{4} & 25 \\ \hline 101 & 560 & \frac{3}{4} & 30 \\ \hline 12 & 1450 & \frac{1}{2} & 30 \\ \hline 135^{**} plasma & 200 & 10 & 1620 & \frac{3}{6} & 65 \\ N_2 shield & 12 & 1710 & \frac{1}{2} & 65 \\ N_2 shield & 12 & 1710 & \frac{1}{2} & 65 \\ N_2 shield & 20 & 100 & 1620 & \frac{3}{4} & 45 \\ \hline 105 & 200 & 820 & \frac{3}{4} & 35 \\ \hline H35^{**} plasma & 260 & 12 & 1710 & \frac{1}{2} & 65 \\ N_2 shield & 15 & 1200 & \frac{5}{6} & 45 \\ 10 & 50 & 270 & 2 & 10 \\ \hline Aluminum & 45 & 1.5 & 4420 & .048 & 220 \\ Air plasma & 4 & 2575 & 1 & 30 \\ N_2 shield & 20 & 100 & 1620 & \frac{3}{4} & 45 \\ 135^{**} plasma & 200 & 10 & 1620 & \frac{3}{4} & 45 \\ 15 & 1200 & \frac{5}{6} & \frac{3}{4} & 45 \\ 25 & 785 & 1 & 30 \\ 10 & 20 & 820 & \frac{3}{4} & 45 \\ 10 & 10 & 1690 & \frac{1}{4} & 00 \\ \hline 135^{**} plasma & 4 & 2575 & 1.35 & 110 \\ Air plasma & 4 & 2575 & 1.35 & 110 \\ Aluminum & 45 & 1.5 & 4420 & .048 & 220 \\ Al35^{**} plasma & 200 & 10 & .4400 & \frac{3}{6} & 180 \\ N_2 shield & 20 & 1450 & \frac{1}{4} & .070 \\ \hline H35^{**} plasma & 260 & 12 & .5160 & \frac{1}{2} & .190 \\ N_2 shield & 20 & .1450 & \frac{1}{4} & .070 \\ \hline 135^{**} plasma & 260 & 12 & .5160 & \frac{1}{2} & .190 \\ N_2 shield & 20 & .230 & \frac{3}{4} & .90 \\ \hline \end{array}$			10	1810	3/8	75
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			20		3⁄4	25
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	0 _o plasma	130	6	4035	1/4	150
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$						
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$				1		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $						
Air shield 12 3060 $\frac{1}{2}$ 115 20 1575 $\frac{3}{4}$ 65 25 1165 1 45 0_2 plasma 260 10 4440 $\frac{3}{4}$ 180 Air shield 12 3850 $\frac{1}{2}$ 145 145 20 2170 $\frac{3}{4}$ 90 32 1135 1 $\frac{1}{4}$ 45 20 2170 $\frac{3}{4}$ 90 32 1135 1 $\frac{1}{4}$ 45 50 2.5 2510 1.05 90 $\frac{1}{2}$ 80 12 shield 6 845 $\frac{1}{4}$ 45 10 560 $\frac{3}{6}$ 25 H35** plasma 80 4 2125 $\frac{1}{4}$ 45 10 1	0	000				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		200				
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$						
$\begin{array}{ c c c c c c } \hline \begin{tabular}{ c c c c } \hline 10 & 10 & 4440 & 3/8 & 180 & 12 & 3850 & 1/2 & 145 & 20 & 2170 & 3/4 & 90 & 32 & 1135 & 11/4 & 45 & 20 & 2170 & 3/4 & 90 & 32 & 1135 & 11/4 & 45 & 21/2 & 8 & 21/2 & 10 & 105 & 90 & 1/4 & 30 & 105 & 90 & 1/4 & 30 & 105 & 90 & 1/4 & 30 & 105 & 90 & 1/4 & 30 & 105 & 90 & 1/4 & 30 & 105 & 90 & 1/4 & 30 & 105 & 90 & 1/4 & 30 & 105 & $						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $						
Air shield 12 3850 $\frac{1}{2}$ 145 Air shield 20 2170 $\frac{3}{4}$ 90 32 1135 $1\frac{1}{4}$ 45 Stainless steel 45 1 5740 .036 240 F5* plasma 2.5 2510 .105 90 .036 240 F5* plasma 80 4 2180 .135 105						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		260				
32 1135 $1\frac{1}{4}$ 45 Stainless steel 45 1 5740 .036 240 F5* plasma 2.5 2510 .105 90 N ₂ shield 6 845 1/4 30 F5* plasma 80 4 2180 .135 105 N ₂ shield 6 1225 1/4 45 H35** plasma 130 10 980 $\frac{3}{8}$ 40 N ₂ shield 12 820 1/2 30 H35** plasma 200 10 1620 $\frac{3}{8}$ 65 N ₂ shield 12 1450 $\frac{1}{2}$ 55 H35** plasma 200 10 1620 $\frac{3}{4}$ 45 N ₂ shield 15 1200 $\frac{3}{4}$ 35 H35** plasma 260 12 1710 $\frac{1}{2}$ 65 N ₂ shield 25 785 1 30 20 Air plasma	Air shield					
Stainless steel F5* plasma N2 shield4515740 5740.036240 .036F5* plasma N2 shield68451/430F5* plasma N2 shield8042180 6.135105 .445H35** plasma N2 shield13010980 12 $\frac{3}{8}$ 40H35** plasma N2 shield13010980 .25 $\frac{3}{8}$ 40H35** plasma N2 shield1201620 .25 $\frac{1}{12}$ 30 .25H35** plasma N2 shield200101620 .20 $\frac{3}{8}$ 65 .45H35** plasma N2 shield200101620 .20 $\frac{3}{4}$ 35H35** plasma N2 shield260121710 .25 $\frac{1}{2}$ 65 .34H35** plasma N2 shield260121710 .25 $\frac{1}{2}$ 65 .34H35** plasma N2 shield42575 .25135110 .30Aluminum Air shield451.54420 .135.048 .135220H35** plasma N2 shield130121455 $\frac{1}{2}$ 55 .340H35** plasma N2 shield200104400 $\frac{3}{8}$ 180 .40H35** plasma N2 shield200104400 $\frac{3}{4}$ 70H35** plasma N2 shield200104400 $\frac{3}{4}$ 70H35** plasma N2 shield200125160 $\frac{1}{2}$ 140 .34N2 shield20022.30 $\frac{3}{$						
Stainless steel F5* plasma N ₂ shield 45 1 5740 2.5 .036 240 .105 90 90 N ₂ shield 6 845 1/4 30 F5* plasma N ₂ shield 80 4 2180 .135 105 H35** plasma N ₂ shield 130 10 980 $\frac{3}{8}$ 40 H35** plasma N ₂ shield 130 10 980 $\frac{3}{8}$ 40 H35** plasma N ₂ shield 12 820 $\frac{1}{2}$ 30 H35** plasma N ₂ shield 200 10 1620 $\frac{3}{8}$ 65 H35** plasma N ₂ shield 200 10 1620 $\frac{3}{4}$ 35 H35** plasma N ₂ shield 260 12 1710 $\frac{1}{2}$ 65 Air shield 6 1690 1/4 60 135 110 Air shield 6 1690 1/4 60 140 14 60 H35** plasma N ₂ shield 130 12 1455 1/2 55 140						
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			64	195	21/2	8
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Stainless steel	45	1	5740	.036	240
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	F5* plasma		2.5	2510	.105	90
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	N ₂ shield		6	845	1/4	30
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	F5* plasma	80	4	2180	.135	105
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			6		1/4	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	2				3/8	25
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	H35** plasma	130	10	980	3/8	40
$\begin{array}{c c c c c c c c c c c c c c c c c c c $						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	U25** plaama	200			3/2	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		200				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Ng Shield					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		000				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		200				
$ \begin{array}{ c c c c c c c } \hline \begin{tabular}{ c c c c c } \hline & & & & & & & & & & & & & & & & & & $	IN2 SHIEID					
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $						
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $						
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		45				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			6	1690		60
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	H35** plasma	130	12	1455		55
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	N ₂ shield		20	940	3⁄4	40
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			25	540		20
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	H35** plasma	200	10	4400	3/8	180
20 1450 3⁄4 70 H35**plasma 260 12 5160 1⁄2 190 N ₂ shield 20 2230 3⁄4 90						
H35**plasma 260 12 5160 1⁄2 190 N ₂ shield 20 2230 3⁄4 90	-					
N ₂ shield 20 2230 ³ / ₄ 90	H35** plasma	260	12		1/2	190
2	•			1		
	2		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.



www.hypertherm.com

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