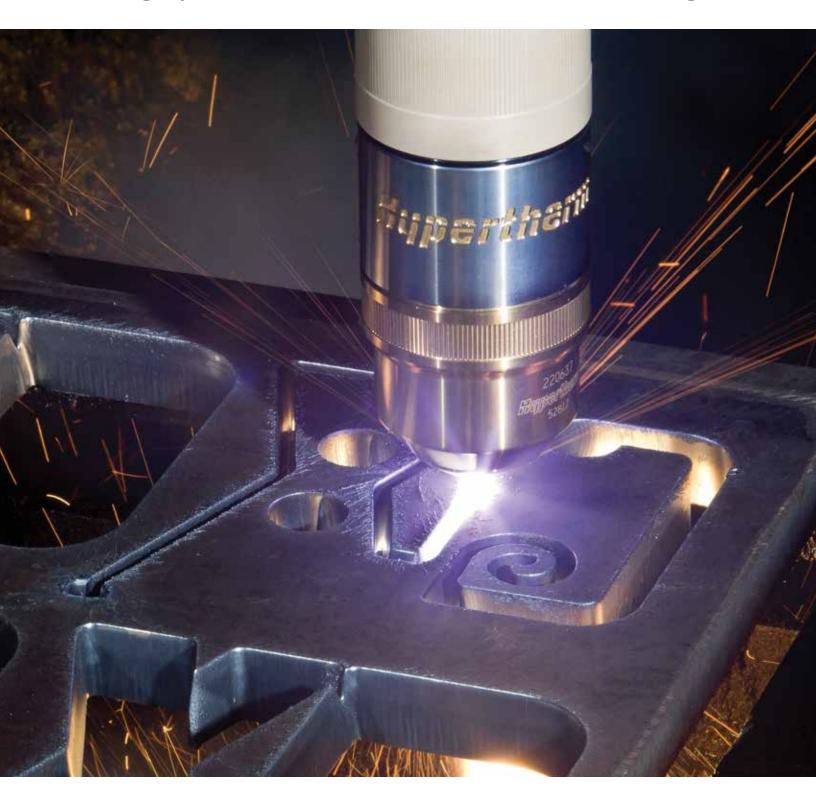
Hypertherm[®]

HyPerformance® Plasma family brochure

Featuring HyDefinition®, PowerPierce® and HDi™ technologies





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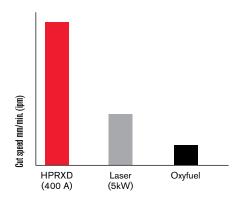


Maximized productivity

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

- HyPerformance Plasma delivers HyDefinition® precision at unprecedented cutting speeds to deliver more parts per hour.
- Rapid cut-to-cut and cut-to-mark cycle times result in less downtime between cuts.
- Quick-disconnect torch, auto gas console option and intuitive user interface all reduce set-up time.
- Long consumable life and high system reliability maximize productive "arc-on" time.

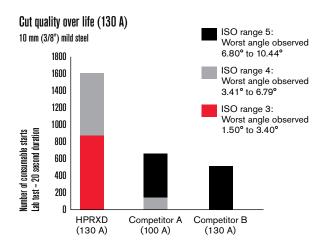
HyPerformance Plasma cutting is 2–5 times faster 25 mm (1") mild steel



Superior cut quality and consistency

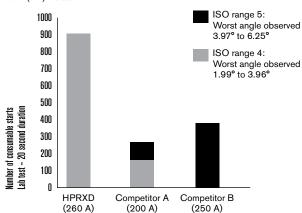
HyPerformance® Plasma cuts fine-feature parts with superior quality and consistency, virtually eliminating the cost of secondary operations.

- HyDefinition® and LongLife®, deliver more consistent cut quality over a longer period of time than other systems available on the market.
- True Hole® technology, for HyPerformance Plasma auto gas systems, produces hole quality on mild steel that is significantly better than what has been previously achievable using plasma.*
- Hypertherm leads the way in stainless steel cutting, with new HDi™ technology for thin stainless, optimized gas mixing for mid-range thicknesses and patented PowerPierce® technology combined with an innovative controlled pierce process for the thickest piercing and cutting capability available.
- Hypertherm consumables are manufactured with the highest quality standards to ensure consistent performance.
 - *True Hole technology requires a HyPerformance Plasma HPRXD auto gas system along with a True Hole enabled cutting table, nesting software, CNC, and torch height control. Consult with your table manufacturer for more details.

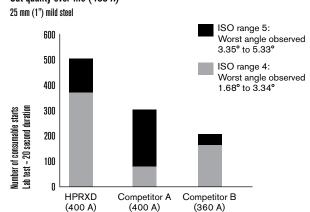


Cut quality over life (260 A)

20 mm (3/4") mild steel



Cut quality over life (400 A)





Minimized operating cost

HyPerformance® Plasma lowers your cost per part and improves profitability.

More parts per hour

- HyPerformance Plasma systems provide faster cut speeds to produce more parts per hour.
- Hypertherm's patented PowerPierce® technology makes it possible to cut thicker than ever before and replace slower-cutting technologies such as oxyfuel.
- HyPerformance Plasma's superior quality and consistency maximize the number of parts produced per hour by minimizing time-consuming secondary operations.

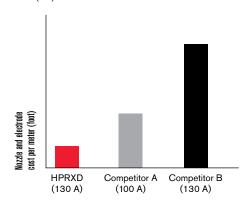
Longer consumable life

- LongLife® and PowerPierce technologies significantly increase consumable life and reduce your cost per part.
- Hypertherm consumables are manufactured with the highest quality standards to ensure consistently longer life.

Do more with less power

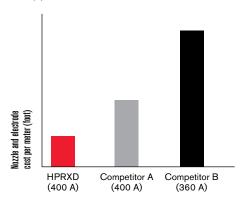
- Patented consumable designs enable industry-leading cutting speeds and robust production piercing using lower amperage levels.
- HyPerformance Plasma enables extremely high cutting speeds per amp with less cutting current than other plasma solutions on the market.
- Hypertherm's power supplies are designed to be extremely efficient in their use of electricity, enabling lower electrical expense and a reduced impact on the environment.

Minimized operating cost 20 mm (3/4") mild steel



Minimized operating cost

25 mm (1") mild steel





Unmatched reliability

Hypertherm combines four decades of experience and world-class design, manufacturing and testing processes to build in reliability that you can trust.

Reliable by design

- During development, Hypertherm systems endure rigorous reliability testing procedures that are equivalent to years of use in extreme operating environments.
- Systems are subject to a wide range of temperatures, humidity levels, vibration, electrical noise, and incoming voltage to ensure that the final products are extremely robust.

Robust manufacturing and test processes

- Best-in-class lean manufacturing processes reduce the opportunity for error ensuring every Hypertherm system meets our high quality standards.
- All Hypertherm systems go through extensive automated testing before they are shipped.
- Hypertherm's manufacturing and test teams are dedicated to delivering the highest quality plasma products on the market.

Reliable operation

 Self diagnostics are performed automatically at start up and continually throughout the cutting process. This ensures the system is operating at full capability.



"When designing new systems, we test them until they break. Then we find the problem, fix it, and test them again, always under the most severe operating conditions – conditions far tougher than anything the product is likely to see in the real world. It's a 24-hour-a-day operation and it's an integral part of our product development process."

Aaron Brandt, Vice President of Engineering, Hypertherm

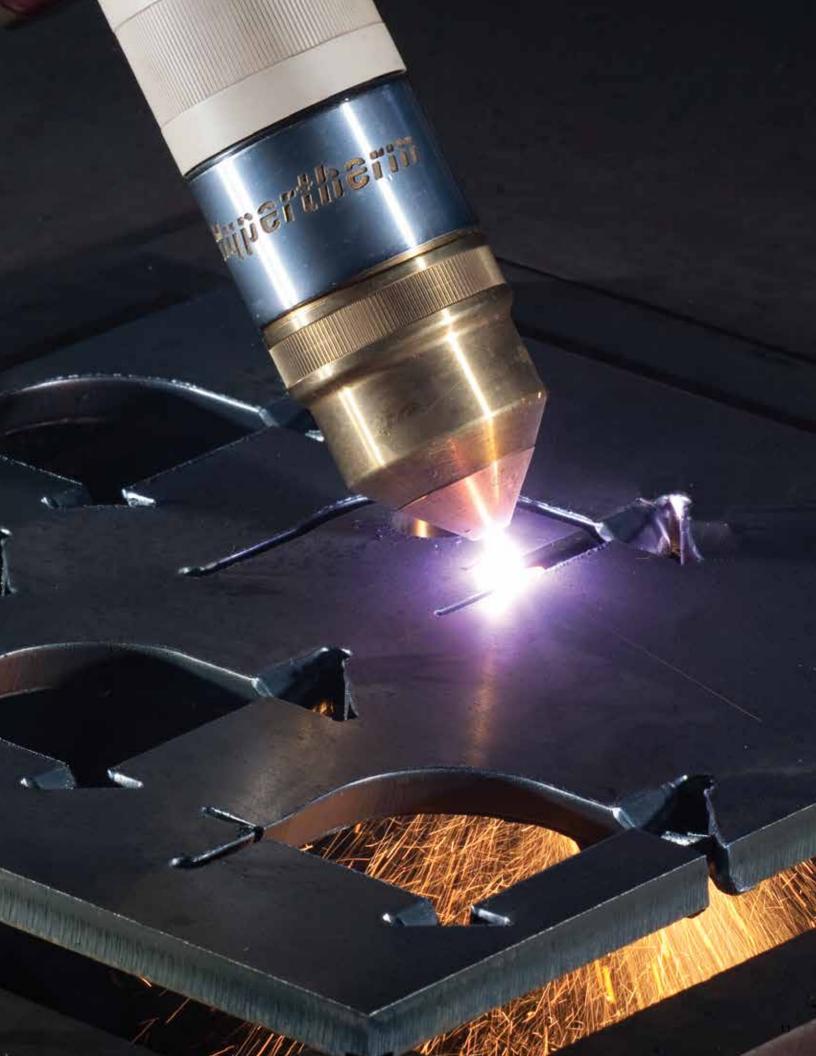
Unmatched versatility

HyPerformance® Plasma cuts, bevels, and marks a variety of metals, from thin to thick, making it the system that can do it all.

- HyPerformance Plasma cuts carbon steel, stainless steel, aluminum, and other metals with HyDefinition® precision.
- Bevel cutting up to 45°.
- Mark, cut, and bevel with the same consumables.
- Customized factory-tested cut charts available for a variety of applications, including True Bevel[™], True Hole[®], fine feature, and underwater cutting.
- Full range of cutting thicknesses for mild steel from
 0.5 mm (gauge) material to production piercing of 50 mm
 (2") with a maximum cutting thickness up to 80 mm (3.2").

- Stainless steel cutting range from 0.5 mm (gauge) material to production piercing of 75 mm (3") with a maximum pierce rating of 100 mm (4") and a maximum cutting thickness up to 160 mm (6-1/4").
- HDi[™] technology delivers HyDefinition cut quality on thin stainless from 3 to 6 mm (12 ga to 1/4").
- Optimized gas mixing delivers superior cut quality and consistency with excellent surface finish on mid-range stainless steel thicknesses.
- Components and capabilities have been specifically designed for use in X-Y, bevel and robotic cutting applications.
- Modular power supply and console design enables easy upgrades to increase system capabilities when requirements change.



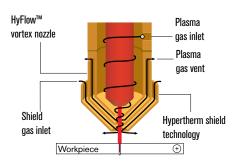




Hypertherm technology delivers more consistent cut quality for longer periods of time at half the operating cost.

HvDefinition®

- Vented nozzle technology aligns and focuses the plasma arc.
- HyDefinition technology enables powerful precision cutting for superior quality and consistency on mild steel.
- New HDi[™] technology now delivers HyDefinition quality to thin stainless steel cutting.



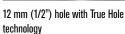
LonaLife®

- LongLife technology ramps current and gas flow up and down in a tightly controlled manner to reduce electrode and nozzle erosion.
- Reducing electrode and nozzle erosion enables more consistent cut quality over a longer period of time, while providing a significant reduction in operating cost.

True Hole®

- Patented True Hole** cutting technology for mild steel is a specific combination of cutting parameters that is optimized for each material thickness and hole size.
- Taper is virtually eliminated and the ding is reduced and biased to the outside of the hole, down to a 1:1 diameter to thickness ratio.



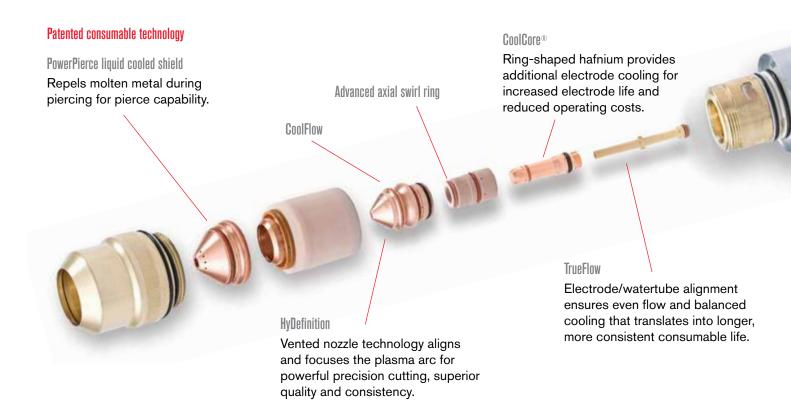




12 mm (1/2") hole without True Hole technology

PowerPierce®

- Patented PowerPierce liquid cooled shield repels molten metal during piercing for maximum pierce capability of up to 50 mm (2") mild steel and 100 mm (4") stainless steel.
- Patented consumable designs deliver speed and thickness capabilities expected of higher amp systems.



^{**} True Hole technology requires a HyPerformance Plasma HPRXD auto gas system along with a True Hole enabled cutting table, nesting software, CNC, and torch height control. Consult with your table manufacturer for more details.



HyPerformance Plasma product line

HyPerformance Plasma customers can choose the systems and combination of options that best suit their requirements today. Modules are designed to work interchangeably providing the flexibility to easily upgrade to meet future needs. HyPerformance Plasma cuts fine-feature parts with superior quality and consistency, eliminating the cost of secondary operations.

HyPerformance® Plasma HPR130XD®

The HPR130XD delivers incomparable HyPerformance cut quality from very thin up to mid-range materials.

HPR130XD (30–130 amps)			
	Mild steel cut capacity	Stainless steel cut capacity	Aluminum cut capacity
Dross free*	16 mm (5/8")		
Production pierce	32 mm (1-1/4")	20 mm (3/4")	20 mm (3/4")
Maximum cutting capacity	38 mm (1-1/2")	25 mm (1")	25 mm (1")



HyPerformance Plasma HPR260XD

The HPR260XD delivers superior HyPerformance cutting across a broad range of application needs, from very thin to heavier thicknesses.

HPR260XD (30-260 amps)			
	Mild steel cut capacity	Stainless steel cut capacity	Aluminum cut capacity
Dross free*	32 mm (1-1/4")		
Production pierce	38 mm (1-1/2")	32 mm (1-1/4")	25 mm (1")
Maximum cutting capacity	64 mm (2-1/2")	50 mm (2")	50 mm (2")



HyPerformance Plasma HPR400XD

The HPR400XD delivers the ultimate in HyPerformance mild steel cutting as well as heavy-duty stainless and aluminum capability.

HPR400XD (30-400 amps)			
	Mild steel cut capacity	Stainless steel cut capacity	Aluminum cut capacity
Dross free*	38 mm (1-1/2")		
Production pierce	50 mm (2")	45 mm (1-3/4")	38 mm (1-1/2")
Maximum pierce**		75 mm (3")	
Maximum cutting capacity	80 mm (3.2")	80 mm (3.2")	80 mm (3.2")



HyPerformance Plasma HPR800XD

The HPR800XD delivers all the mild steel capability of the HPR400XD and adds the thickest stainless steel and aluminum cutting on the market today.

HPR800XD (30-800 amps)			
	Mild steel cut capacity	Stainless steel cut capacity	Aluminum cut capacity
Dross free*	38 mm (1-1/2")		
Production pierce	50 mm (2")	75 mm (3")	75 mm (3")
Maximum pierce**		100 mm (4")	
Maximum cutting capacity	80 mm (3.2")		
Severance		160 mm (6-1/4")	160 mm (6-1/4")



^{*} Feature and material type can influence dross free performance.

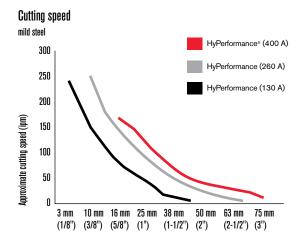
^{**} Maximum pierce requires controlled motion process. See technical documentation for details.

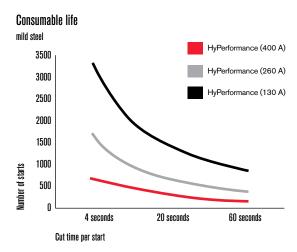
Operating data

Material	Current (amps)	Thickness (mm)	Approximate cutting speed (mm/min.)	Thickness (inches)	Approximate cutting speed (ipm)
Mild steel	30	0.5	5355	.018	215
O, plasma	00	3	1160	.135	40
0_2^2 shield		6	665	1/4	25
O, plasma	80 [†]	3	6145	.135	180
Air shield	00	6	3045	1/4	110
All dillolu		20	545	3/4	25
O pleame	130 ⁺	6	4035	1/4	150
O ₂ plasma Air shield	130	10	2680	3/8	110
All Siliciu		25	550	1	20
O plaama	, plasma 200	6	5248	1/4	200
O ₂ plasma Air shield	200	12	3061	1/2	115
All Siliciu		25	1167	1	45
		50	254	2	10
0	nco	10	4440	3/8	180
O ₂ plasma	260 ⁺				
Air shield		20 64	2170 195	3/4 2-1/2	90
0 1	400				
O ₂ plasma	400†	12	4430	1/2	170
Air shield		25	2210	1	85
		50	795	2	30
		80	180	3	10
Stainless steel	60	3	2770	0.105	120
F5 plasma		4	2250	0.135	95
N ₂ shield		5	1955	3/16	80
		6	1635	1/4	60
H35 plasma	130 [†]	10	980	3/8	40
N ₂ shield		12	820	1/2	30
		25	260	1	10
H35 plasma	260†	12	1710	1/2	65
$N_{\scriptscriptstyle 2}$ shield		20	1085	3/4	45
		25	785	1	30
		50	270	2	10
H35 and N, plasma	400†	20	1810	3/8	75
N ₂ shield		40	720	1-1/2	30
		80	190	3	10
H35 plasma	800†	75	464	3	18
N, shield	000	125	155	5	6
2		160	100	6-1/4	4
Aluminum	45	1.5	4420	.048	220
Air plasma		4	2575	.135	110
Air shield		6	1690	1/4	60
H35 plasma	130†	12	1455	1/2	55
N ₂ shield	130'	20	940	3/4	40
เข _ื งเทธเน		25	540	1	20
H35 plasma	ე¢∩÷	12	5160	1/2	190
•	260 [†]	20	2230	3/4	90
N ₂ shield		50	390	2	14
	400				
H35 plasma	400†	20	2420	3/4	100
N ₂ shield		40	1190	1-1/2	50
HOT I	0.55	80	210	3	10
H35 plasma 800 [†] N ₂ shield	75	907	3	35	

The operating data chart does not list all processes available for the HPR130XD®, HPR260XD, HPR400XD, and HPR800XD. Please contact Hypertherm for more information.

System comparisons





Auto gas console

- Allows full control of all plasma system settings from the CNC, simplifying operator training requirements.
- Automatically changes processes on the fly to enable rapid switching between cutting and marking.
- Automatically adjusts for variations in incoming gas pressure to produce the most consistent cutting performance.
- The auto gas console is required to enable True Hole® technology and optimized gas mixing for mid-range stainless cutting.



















[†]Consumables support up to 45° bevel capability.





Nearly 50 years of cutting excellence

At Hypertherm, our sole focus is cutting. Every Associate - from our engineers to our manufacturing and service teams - is completely focused on providing our customers with the best cutting solutions in the industry. It's a mission stretching back nearly 50 years to our first industrial cutting patent. Today, our patent wall continues to expand as we innovate tirelessly to introduce new plasma, laser and waterjet technologies and services that will help you achieve optimal cutting outcomes that support your business objectives. So, whether you're cutting precision parts in North America, constructing a pipeline in Norway, fabricating agricultural machinery in Brazil, gouging out welds in the mines of South Africa, or building a skyscraper in China, you can count on Hypertherm. No matter what you cut, where you cut, or how you cut, we are here to guide you toward the cutting solution that is right for you.

100% employee ownership

At Hypertherm, we aren't just employees: we're all owners. Ownership is a powerful motivator that ensures our customers – not investors – are our top priority. As owners, we make sure every product is built to the highest quality and that our service is second to none.

Worldwide presence and strength

Hypertherm is a key partner for your fabrication needs and has built a global organization focused on providing cutting performance solutions.

Key elements of the Hypertherm formula include:

- Dedicated Associates concentrating on cutting technology
- Regional sales, customer service and technical service for local support
- Broad application experience and proven results
- Complete product line solutions for your cutting needs
- Commitment to customer-centered product design, support and support



For location nearest you, visit: www.hypertherm.com

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

One of Hypertherm's long-standing core values is a focus on minimizing our impact on the environment. Doing so is critical to our, and our customers' success. We are always striving to become better environmental stewards; it is a process we care deeply about.

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