



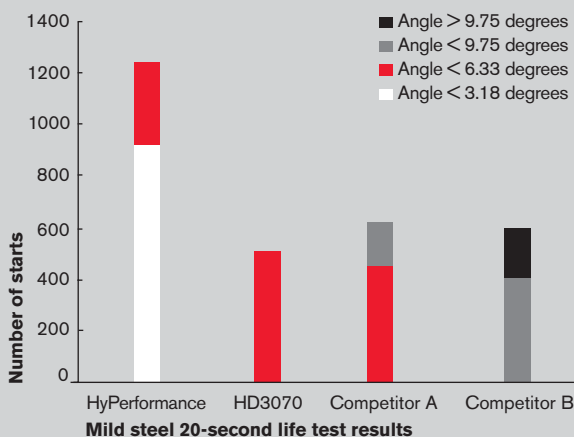
Hyperformance™ Plasma

***Superior cut quality and consistency
Maximized productivity
Minimized operating costs***

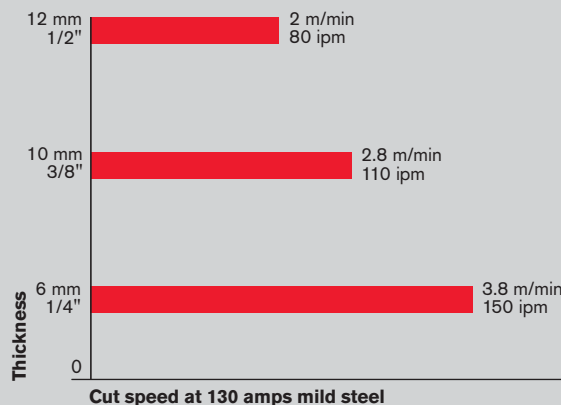
Hypertherm®

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

Superior cut quality and consistency



Maximized productivity



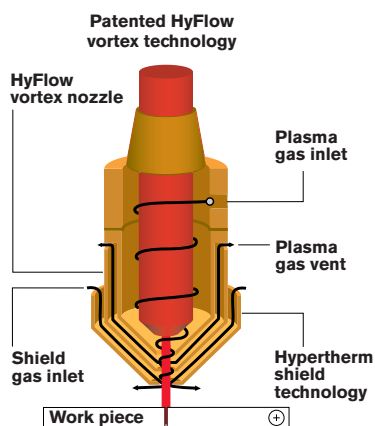
- Lower cut angle variability than any "precision" competitor tested.
- Consistent, repeatable cutting performance.

- Increased cut speeds, approaching 200-amp processes.
- Cut speeds listed deliver the best cut quality, cut speeds can be up to 50% faster.

The next generation

HyPerformance Plasma delivers incomparable HyDefinition® cutting at half the operating cost

HyPerformance Plasma delivers the virtually dross-free cut quality of HyDefinition, but does it with greater cut speed and longer consumable life – up to two times longer than with other systems. The latest performance advance from Hypertherm produces precision cuts throughout the life of consumables.

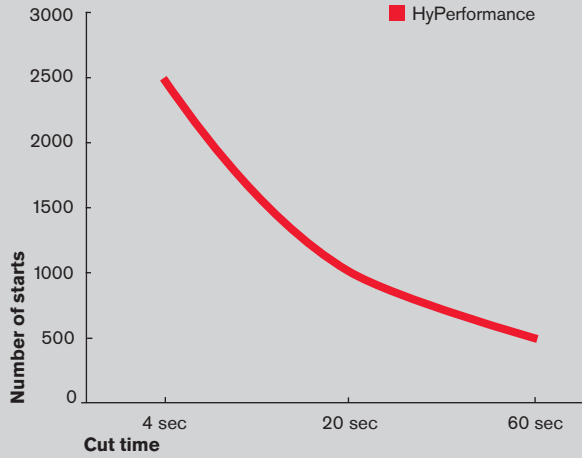


HyFlow vortex technology stabilizes the arc precisely in the center of the electrode. This consistency improves cut quality and extends consumable life.

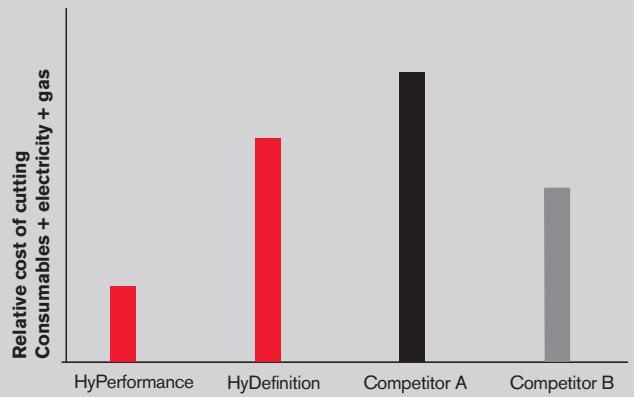
- Patented HyDefinition cutting for consistent quality cutting.
- Superior HyPerformance stainless steel cut quality.
- Patent-pending water tube/electrode design for improved consumable life and consistent cut quality.
- Improved gas console design for ease of use and reduced gas flow variability.
- Patented LongLife® system design for extended parts life.
- Marking and cutting performed with the same consumables.
- Virtually dross-free cutting reduces the need for secondary operations.



Longer consumable life



Minimized operating costs



- Hypertherm's patented LongLife process significantly extends consumable life.
- HyPerformance has half the operating costs of any "precision" competitor tested.
- HyDefinition cut quality at half the operating costs.

of mechanized plasma



Power supply



Ignition console



Manual gas console

Off-valve assembly



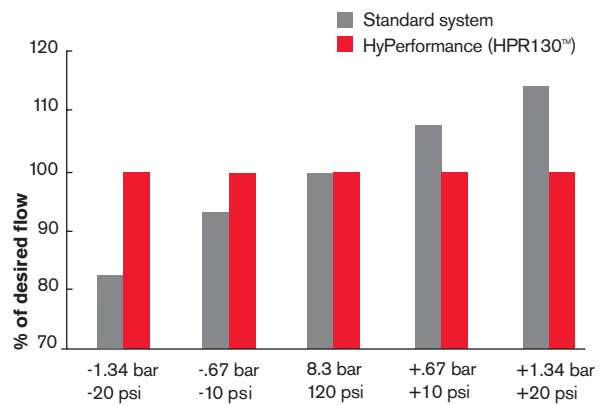
Quick-disconnect assembly with leads



HyPerformance Plasma is designed to be operator-friendly

- Simple, easy-to-use controls with power, current, troubleshooting and gas setting all in one console.
- Quick-disconnect torch for simple and fast consumable change outs.

Responsive gas control reduces variability



Inlet pressure

* 5.2 bar, 24 l/min (75 psi, 50 scfh)

Specifications CE, CCC, CSA, NRTL/C

| | | | |
|--|---|---------|------|
| Input voltages (3-PH) and currents | VAC | Hz | Amps |
| | 200/208 | 50 – 60 | 62 |
| | 240 | 60 | 52 |
| | 400 | 50 – 60 | 32 |
| | 440 | 60 | 24 |
| | 480 | 60 | 26 |
| | 600 | 60 | 21 |
| Output voltage | 50 – 150 VDC | | |
| Output current | 130 A | | |
| Duty cycle | 100% | | |
| Maximum OCV | 311 VDC | | |
| Dimensions | 1079.5 mm (42.5") D, 566.4 mm (22.3") W 967.7 mm (38.1") H | | |
| Weight with torch | 317.5 kg (700 lb) | | |
| Gas supply | | | |
| Plasma gas | O ₂ , N ₂ , F5*, H35**, Air | | |
| Plasma pressure | 8.3 bar (120 psi) | | |
| Shield gas | N ₂ , O ₂ , Air | | |
| Shield pressure | 8.3 bar (120 psi) | | |

* F5 = 95% N₂, 5% H

** H35 = 35% H, 65% Ar

Hypertherm, quality built in

Hypertherm Plasma systems have been subjected to thousands of hours of reliability testing in Hypertherm's laboratories. The results give Hypertherm the confidence to boast a 100% duty cycle in operating environments from -10° C to 40° C.

- CCC, CE, CSA, NRTL/C certification.
- Hypertherm is ISO9001:2000 certified.
- Hypertherm full system warranty – complete coverage for two years on all system components and one year on the torch.
- Enhanced serviceability and reduced part count.

Hypertherm®

The world leader in plasma cutting technology

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Operating data

Production cutting capacity (piercing) – mild steel 16 mm (5/8")
Maximum pierce capacity – mild steel 25 mm (1")
Maximum cutting capacity (edge start) – mild steel 38 mm (1.5")

| 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 | 4950 | .018 | 215 |
| | | 1 | 3550 | .036 | 155 |
| | | 1.5 | 2150 | .060 | 85 |
| | | 3 | 1150 | .135 | 40 |
| O ₂ plasma Air shield | 80 | 6 | 650 | 1/4 | 25 |
| | | 3 | 4650 | .135 | 180 |
| | | 6 | 2540 | 1/4 | 110 |
| O ₂ plasma Air shield | 130 | 10 | 1900 | 3/8 | 75 |
| | | 6 | 4025 | 1/4 | 150 |
| | | 10 | 2675 | 3/8 | 110 |
| | | 12 | 2200 | 1/2 | 80 |
| Stainless steel F5* plasma N ₂ shield | 45 | 20 | 1045 | 3/4 | 45 |
| | | 25 | 550 | 1 | 20 |
| | | 38 | 250 | 1 1/2 | 10 |
| | | 1 | 4800 | .036 | 240 |
| F5* plasma N ₂ shield | 80 | 2.5 | 2300 | .105 | 90 |
| | | 4 | 1400 | .135 | 65 |
| F5* plasma N ₂ shield | 80 | 4 | 2400 | .135 | 105 |
| | | 6 | 1100 | 1/4 | 45 |
| | | 10 | 635 | 3/8 | 25 |
| H35** plasma N ₂ shield | 130 | 10 | 975 | 3/8 | 40 |
| | | 12 | 820 | 1/2 | 30 |
| | | 20 | 360 | 3/4 | 15 |
| Aluminum Air/Air | 45 | 1.5 | 4300 | .047 | 170 |
| | | 4 | 2500 | .135 | 110 |
| | | 6 | 1500 | 1/4 | 60 |
| H35** plasma N ₂ shield | 130 | 12 | 1450 | 1/2 | 55 |
| | | 20 | 935 | 3/4 | 40 |

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, cut speeds can be up to 50% faster.

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