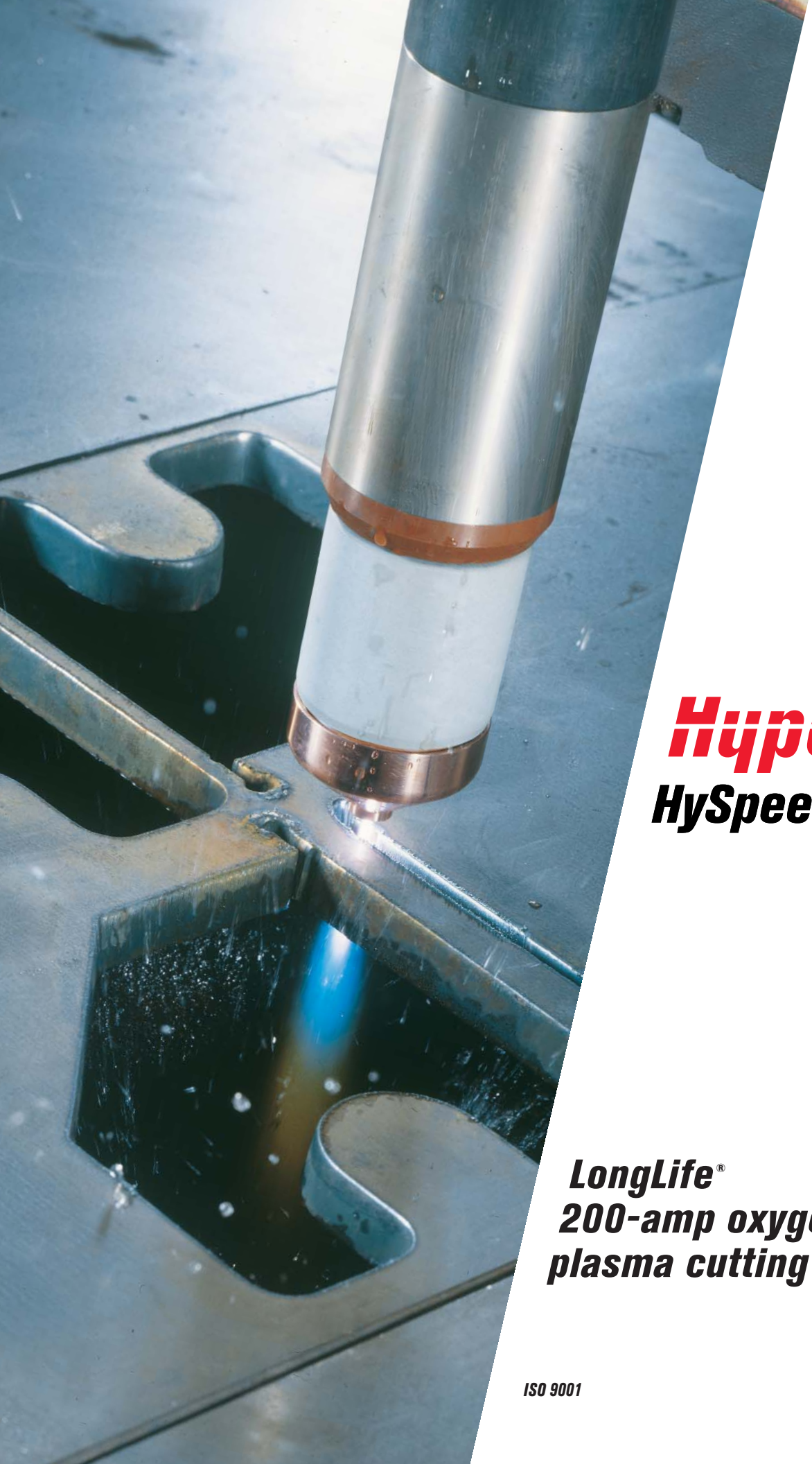


Hypertherm®

HySpeed® HT2000®

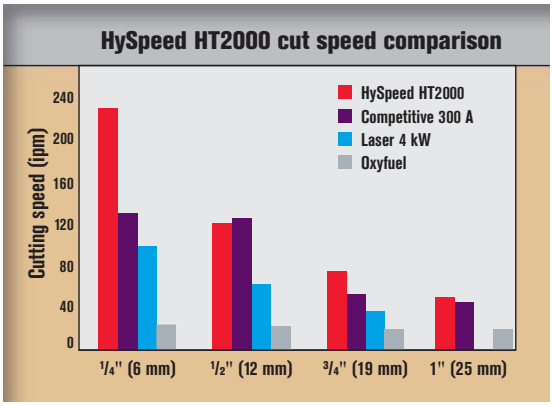
LongLife®
200-amp oxygen plasma cutting system

ISO 9001

HySpeed HT2000

HySpeed HT2000 200-amp oxygen plasma cutting system with HySpeed plasma and LongLife® oxygen technology

Delivers fastest cut speeds and lowest operating costs available for 200-amp oxygen plasma

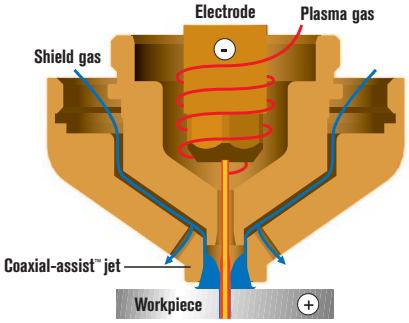


The HySpeed HT2000 and HySpeed HT2000LHF oxygen plasma cutting systems now utilize Hypertherm's patented Coaxial-assist™ jet technology to boost cutting speeds as much as 50% over conventional designs. The Coaxial-assist technology is available at 200 amps using LongLife oxygen processes to cut mild steel from 1/4-inch (6 mm) to 2-inch (50 mm) thick. Dross is minimized and super weldability of the cut edge is delivered.

In addition to the Coaxial-assist process, the dual gas HySpeed HT2000 and HySpeed HT2000LHF operate with conventional consumables for optimal results on the broadest spectrum of material types and thicknesses.

Unparalleled productivity and low operating costs are assured. The system cuts most mild steel faster than competitive 300-amp oxygen cutting systems, laser or oxyfuel. LongLife technology enhances the performance of the HySpeed HT2000 by extending consumable parts life to reduce operating costs.

The HySpeed HT2000 plasma system mounts easily on punch presses and X-Y tables of all sizes. Hypertherm's technologies are incorporated throughout to make it the most efficient metal-cutting system you can buy. If there's a way to lower your cost of cutting, Hypertherm builds it into the HySpeed HT2000.



Improved piercing and extended nozzle life

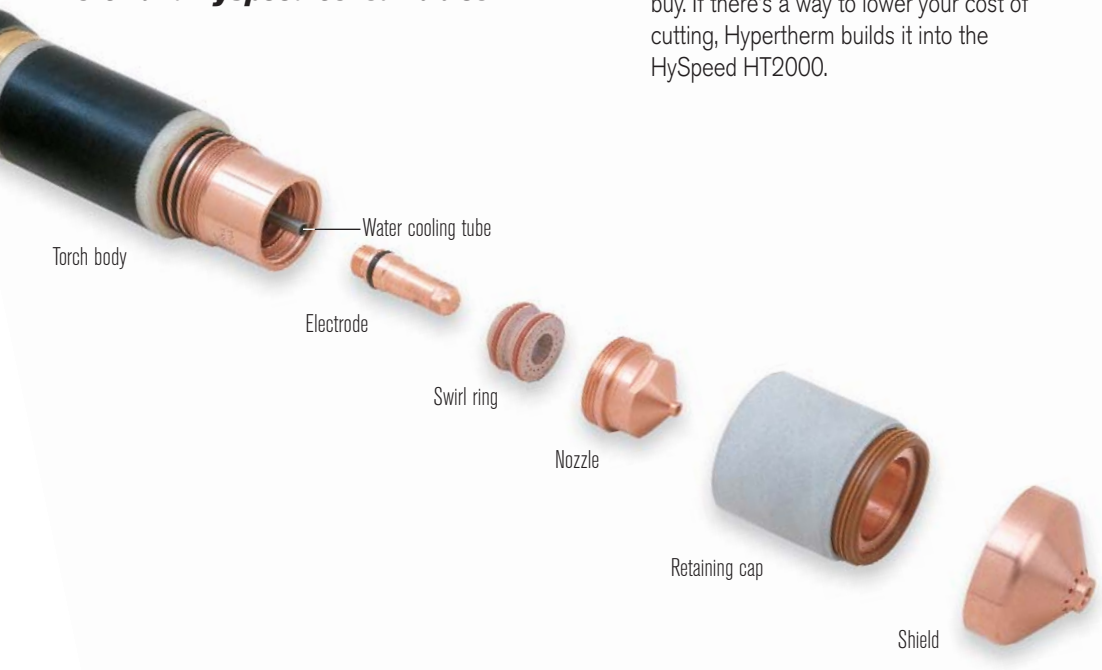
No competitive system in its class has the HySpeed HT2000's piercing capability – critical in mechanized production cutting applications. With the Coaxial-assist 200-amp consumables the HySpeed HT2000 and HySpeed HT2000LHF offer production piercing of 1-inch (25 mm) mild steel and maximum piercing as thick as 1.5-inch (38 mm) mild steel.

Hypertherm's patented shield technology protects the nozzle against double-arcing during cutting and piercing. Delivering consistent cut angles, improved cutting performance and greatly increased nozzle life.

HySpeed HT2000LHF: more affordable in selected applications

If your torch can be positioned within 50 feet (15 m) of the power supply, the HySpeed HT2000LHF offers the same high performance as the HySpeed HT2000 – but at a lower cost.

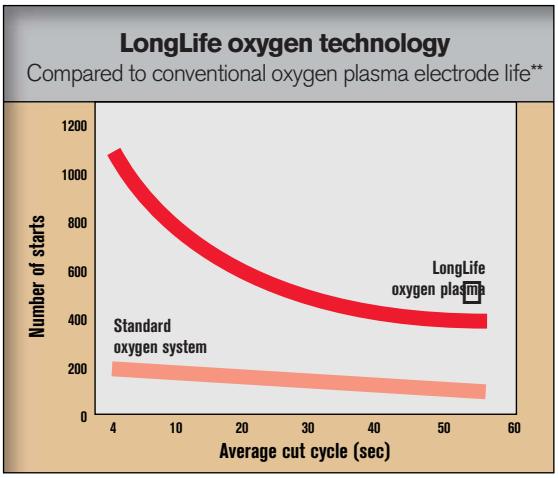
Torch and HySpeed consumables



Built for long consumable life and low operating costs

The LongLife process utilizes microprocessor control to ramp up the gases and current when initializing the cutting process and ramp them down when stopping.

LongLife's precise control of cutting parameters extends electrode life dramatically. Depending on the cut duration and the method of cutting, a single electrode may deliver over 1200 starts before needing replacement.*



Even longer parts life with SilverPlus™

Now HySpeed HT2000 and HySpeed HT2000LHF systems feature patented SilverPlus electrode technology. This dramatic advance involves fusing a silver front-end onto the copper electrode base, so that silver surrounds the hafnium emitter. In many applications, this feature lets SilverPlus effectively double electrode life compared with standard all-copper electrodes.

System features

- Cuts as fast as competitive 300-amp plasma systems with only 200 amps of cutting power.
- Current output from 50 to 200 amps for materials that range in thickness from 18 gauge (1.2 mm) to 2 inch (50 mm).
- Production piercing of mild steel up to 1-inch (25 mm) thick, and maximum piercing up to 1.5-inch (38 mm).
- Bevel capability to 3/4 inch (20 mm) at 45°.
- 100% Duty cycle at an output of 30 kW.
- Built-in microprocessor for precise control of current output, gas flow and other factors critical to cut quality, consumable parts life, and minimizing operating costs.
- Liquid-cooled torch contributes to long consumable parts life and low operating costs.
- Remote High Frequency (RHF) in the HySpeed HT2000 delivers real flexibility allowing the power supply to be up to 200 feet (60 m) from the torch.
- Superior warranty coverage – as with all Hypertherm systems – backs the HySpeed HT2000's power supply for two years and its torch for one year.

* Results based on full compliance with LongLife operating procedures, including gas purity requirements and controlled start/stop processes.

** Under laboratory conditions, using Hypertherm consumables.

HySpeed HT2000 and HySpeed HT2000LHF 200-amp oxygen plasma cutting system

Operating data

Production cutting capacity (piercing) – mild steel	1" (25 mm)
Maximum pierce capacity – mild steel	1.5" (38 mm)
Maximum cutting capacity (edge start) – mild steel	2" (50 mm)

Material	Thickness (inches)	Thickness (mm)	Current (amps)	Approximate cutting speed* (ipm)	Approximate cutting speed* (mm/min)
Mild steel	0.048	1.2	50	160	4,060
O_2 plasma	(18 gauge)				
O_2 shield	0.074	1.8	50	120	3,050
	(14 gauge)				
	⅛	3.1	50	60	1,520
O_2 plasma	⅛	3.1	100	240	6,100
Air shield	¼	6.2	100	120	3,050
	½	12.4	100	60	1,540
	¾	20	100	30	760
O_2 plasma	¼	6.2	200	230	5,800
Air shield	⅜	10	200	140	3,500
	½	12.4	200	120	3,000
	¾	20	200	75	1,900
	1	25	200	50	1,300
	1 ¼	32	200	30	760
	1 ½	38	200	20	500
	2	50	200	10	250
Stainless	⅛	3.1	100	140	3,560
Air plasma	¼	6.2	100	80	2,030
Air shield	½	12.4	100	35	890
Air plasma	¼	6.2	200	195	5,000
Air shield	⅜	10	200	145	3,700
	½	12.4	200	105	2,700
	¾	20	200	55	1,400
	1	25	200	30	760
	1 ¼	32	200	15	380
	1 ½	38	200	10	250
$Ar-H_2$ plasma	¼	6.2	200	62	1,600
N_2 shield	½	12.4	200	42	1,100
	¾	20	200	32	810
	1	25	200	22	560
	1 ½	38	200	11	280
Aluminum	⅛	3.1	100	110	2,800
Air plasma	¼	6.2	100	70	1,780
Air shield	½	12.4	100	40	1,010
Air plasma	¼	6.2	200	190	4,800
Air shield	½	12.4	200	110	2,800
	¾	20	200	65	1,650
	1	25	200	35	900
	1 ¼	32	200	20	500
	1 ½	38	200	12	300

Note: Take care in comparison: Competitors often show maximum cutting speeds, rather than speeds that deliver the best cuts, as shown above. Although much higher speeds may be achieved, they are not recommended.

Specifications

CE

Input voltages	200 V, 3 PH, 50 Hz; 208 V, 3 PH, 60 Hz; 220/380/415 V, 3 PH, 50 Hz; 240/480 V 3 PH, 60 Hz; 600 V, 3 PH 60 Hz
Input current @ 30 kW output	108 A, 200 V; 104 A, 208 V; 98/57/52 A, 220/380/415 V; 90/45 A, 240/480 V; 36 A, 600 V
Output voltage	150 VDC
Output current	40 – 200 A
Duty cycle	100%
Maximum OCV	280 VDC
Dimensions	41.25" (1040 mm) D; 28.25" (710 mm) W; 35.5" (900 mm) H
Weight with torch	780 lbs (351 kg)
Gas supply Plasma gas Plasma pressure Plasma flow	 O_2, Air, N_2, Ar-H_2 120 psi (8.3 bar) 80 scfh (40 l/min.)
Shield gas Shield pressure Shield flow	O_2, Air, N_2, CO_2 90 psi (6.2 bar) 280 scfh (130 l/min.)

Process capability

		Mild Steel	Stainless Steel	Aluminum
Plasma gas/shield gas		O_2/Air	Air/Air	Air/Air
Cut thickness range		.048" – 2.0" (1.2 – 50 mm)	125" – 1.5" (3.2 – 38 mm)	.125" – 1.5" (3.2 – 38 mm)
Dross-free range		.048" – 1" (1.2 – 25 mm)	.125" – .75" (3.2 – 19 mm)	.125" – .75" (3.2 – 19 mm)
Maximum piercing thickness		1.5" (38 mm)	.875" (22.2 mm)	.875" (22.2 mm)
Range of production cutting	50A	.048" – .125" (1.2 – 3.2 mm)	N/A	N/A
	100A	.125" – .375" (3.2 – 9.5 mm)	.125" – .375" (3.2 – 9.5 mm)	.125" – .375" (3.2 – 9.5 mm)
	200A	.25" – 1" (6.4 – 25 mm)	.25" – .875" (6.4 – 22.2 mm)	.25" – .875" (6.4 – 22.2 mm)
Range of kerf angle		0° – 5°	0° – 5°	0° – 5°

Note: The capabilities shown in this table were obtained by using new consumables, published speeds and current, accurate torch height control, and torch perpendicular to the workpiece.

Genuine Hypertherm Consumables

The only way to ensure maximum performance

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