

HT4001 WATER-INJECTION PLASMA ARC CUTTING SYSTEM

- *New 340-Amp Oxygen Capability Pierces and Cuts Mild Steel Up to 1 1/4 inch (32 mm)*
- *LongLife™ Oxygen Technology Reduces Costs*
- *400-Amp Base System Expandable to 760 Amps*

**The Ideal Combination of Quality,
Productivity and Flexibility.**



Hypertherm is ISO 9001 registered.



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The HT4001 Water-Injection System Provides Superior Cut Quality, High Productivity, Extended Parts Life and Expansion Flexibility

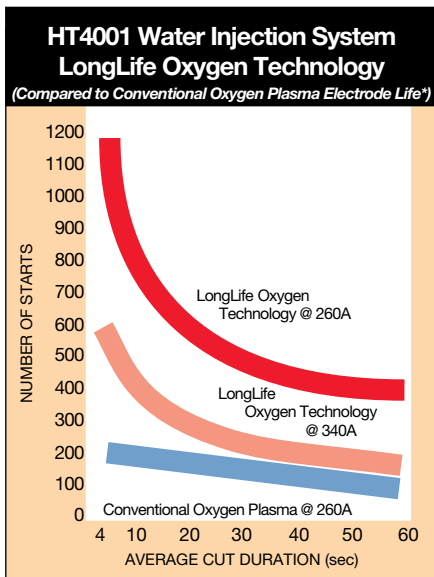
The Hypertherm HT4001 introduces 340-amp oxygen capability to provide clean, fast production cutting of mild steel up to 1 1/4 inch (32 mm) thick with no dross under most conditions. By using oxygen as the plasma gas, nitriding is virtually eliminated - and so is the need for expensive grinding operations.

The system also operates with nitrogen, delivering cuts on stainless steel or aluminum up to 2 inches (50 mm) thick.

Patented LongLife oxygen parts technology greatly increases the life of parts through microprocessor control of power and flow parameters, keeping your costs down.

As an option, the HT4001 may be paralleled with a slave power supply for cutting aluminum or stainless steel up to 3 inches (75 mm) thick.

It's a powerful, flexible system designed for high volume production applications where reliability is vital.



Superior Cut Quality

- New 340-amp oxygen capability delivers dross free cuts up to 1 1/4 inch (32 mm) thick.
- Oxygen plasma is the optimal choice for cutting mild steel. It eliminates dross across a wide cut range. You get faster cut speeds at lower power levels.
- Oxygen plasma improves weldability of the cut face because it virtually eliminates nitriding on mild steel. Cut edge surfaces are exceptionally smooth.
- Using nitrogen, the HT4001 delivers 400 amps of power to slice cleanly through 2 inches (50 mm) of stainless steel or aluminum.

Highest Productivity

- The HT4001 is designed for 100% duty cycle at 80 kw output to give you maximum uptime.
- Longer parts life means less downtime for nozzle consumable replacement and more cutting time.
- Superior system reliability ensures that the HT4001 will be running when you need it.

- The HT4001 delivers excellent cut speed. For example, at 340 amps you'll cut 110 inches (2.8 m) of 1/2-inch (12 mm) mild steel per minute – with virtually no clean-up needed.

Lower Costs

- Hypertherm's patented LongLife parts technology greatly extends the life of consumables while using oxygen, yielding impressive cost savings.
- Superior cut quality means minimal clean-up. That reduces your labor costs and makes your operation more efficient.

Maximum Flexibility

- Available power of 260 or 340 amps for oxygen cutting and up to 760 amps for nitrogen cutting.
- You can add a slave power supply at any time to provide output current up to 760 amps. This extends the cutting range of your HT4001 to 3-inch (75 mm) stainless steel or aluminum.
- Optional beveling consumables allow you to bevel cut at angles of up to 45° with a simple parts change.
- The HT4001 may be mounted on a wide variety of X-Y cutting systems, punch presses or robots. It can cut material above, on, or under water. Use it with oxygen or nitrogen to give you the flexibility of maximum cut quality on any metal.

- A Remote High Frequency console lets you locate the power supply up to 300 feet (91.5 m) from the torch with minimal high frequency interference.

- Optional Torch Height Control and Initial Height Sensing systems provide the ability to automatically position the torch which ensures optimal operation.

Strong, Worldwide Support

- Your HT4001 is backed by Hypertherm's two year warranty on the power supply and one year warranty on the torch.
- Hypertherm provides training and field service worldwide.
- Since 1968, customers have relied on Hypertherm's technical leadership and experience to help them solve tough challenges and deliver maximum productivity through plasma cutting.

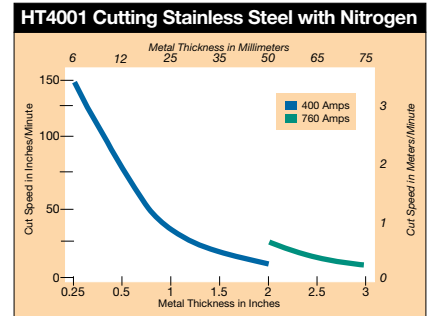
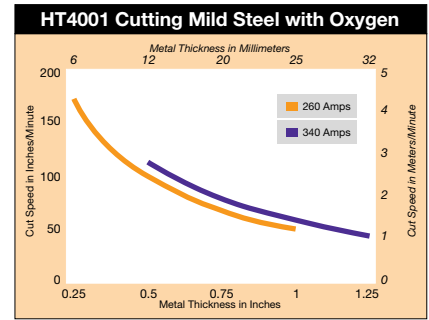


System Components:

- HT4001 Power Supply
- PAC620 Water-Injection Torch Assembly
- Torch Leads
- Work Cable
- Gas Console
- Motor Valve Console
- Remote High Frequency (RHF) Console
- Leads and Cables
- Optional Initial Height Sensor and Torch Height Control
- Optional Remote Voltage Control
- Optional Water Muffler and Pump
- Optional Water Chiller
- Optional H-401 or H-601 Power Supply Slave

Power Output Ranges:

- 260-Amp: For dross-free oxygen cutting of mild steel up to 1 inch (25 mm) thick with maximum parts life.
- 340-Amp: Highest power oxygen cutting of mild steel up to 1 1/4 inch (32 mm) thick with superior cut speed and quality.
- 400-Amp: Base system power output up to 400 amps for nitrogen cutting of stainless steel and aluminum up to 2 inches (50 mm) thick.
- 760-Amp: Power output with H-401 slave power supply up to 760 amps for nitrogen cutting of stainless steel and aluminum up to 3 inches (75 mm) thick.



Specifications:

	HT4001 Without Slave	H-401 Slave Power Supply
Input Voltage	200/220 V, 3Ø, 50-60 Hz @ 275/234 A	200 V, 3Ø, 50-60 Hz @ 360 A
Input Current	380/400/415 V, 3Ø, 50-60 Hz @ 135/128/124 A 240/480 V, 3Ø, 60 Hz @ 214/107 A 575/600 V, 3Ø, 60 Hz @ 89/86 A	380/415 V, 3Ø, 50-60 Hz @ 180 A 230 V, 3Ø, 60 Hz @ 310 A 460 V, 3Ø, 60 Hz @ 155 A 575 V, 3Ø, 60 Hz @ 125 A
Output Voltage	80-200 VDC	80-200 VDC
Max Output Current	400 A	760 A (in parallel with base HT4001)
Maximum OCV	325 VDC	400 VDC
Duty Cycle	100% @ 104° F (40° C) @ 80 kw (The HT4001 operates at 100% duty cycle throughout its cutting range.)	100% @ 104° F (40° C) @ 152 kw (in parallel with base HT4001)
Dimensions	34" (863 mm) Width 51" (1295 mm) Height 48 11/16" (1236 mm) Depth	27 1/4" (690 mm) Width 43" (1090 mm) Height 46" (1170 mm) Depth
Weight	1800 lb (817 kg)	1905 lb (866 kg)
Gas Supply:		
Plasma gas types	Oxygen (99.5% pure), Nitrogen (99.995% pure)	
Oxygen inlet pressure	120 psig (8.3 bar)	
Nitrogen inlet pressure	150 psig (10.3 bar)	
Water Supply:		
Water to RHF	2.5 gpm (9.5 l/m) at 150 psig (10.3 bar) @ 70° F (21° C) Max.	
Water to Chiller	0.5 gpm (1.9 l/m) at 35 psig (2.4 bar)	



The World Leader in Plasma Cutting Technology

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