Hypertherm®

Integrated Cutting Solutions

Air plasma

Discover how productive you can be with a fully-integrated air plasma cutting solution

Performance you can trust

Hypertherm's automated cutting products are pre-programmed with the latest cutting expertise. Our nesting and process optimization software, computer numerical controllers, torch height controls, and plasma systems work together seamlessly to get the most out of your cutting operation.

Step 1 = Program the parts

TurboNest,® Hypertherm's off-line nesting and process optimization software automatically nests parts and applies optimal cutting techniques in the NC code (Numerical Control Programming Language) for the CNC.

Step 2 = Set up on the CNC

The CutPro® Wizard enables rapid, repeatable setup to reduce error, making it easy for even a new operator to set up a job and cut like a pro in minutes.

Built-in cutting process expertise

Using TurboNest software, all process parameters necessary for cutting are sent directly to the CNC. When the operator selects the program, there is no need to set:

- Amperage
- Torch pierce height, time, and delay
- Torch cut height
- Kerf-width compensation
- Arc voltage
- Cut speed

Ease of use

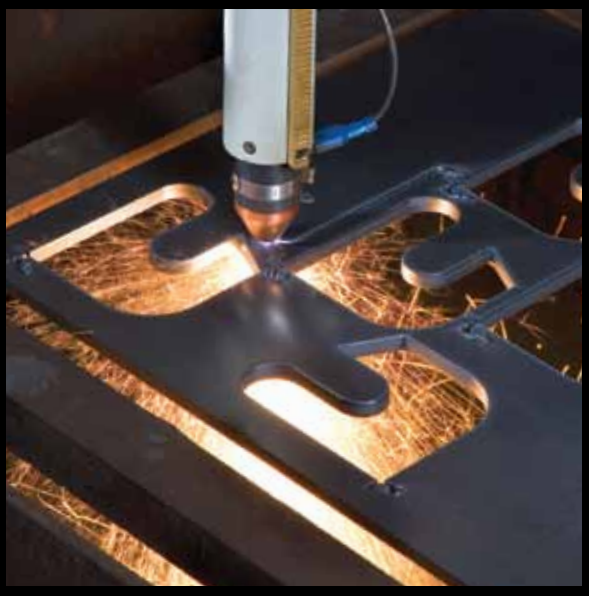
With the CutPro Wizard, product manuals, and troubleshooting tools in local languages built right in to the CNC, it is easy to:

- Train new operators on the specific steps needed to successfully cut quality parts.
- Maintain consistent performance from operator-to-operator, shift-to-shift, and site-to-site.
- Get assistance for your operators when they need it using Remote Help™ to connect to your table manufacturer and Hypertherm over the internet

It is like having your best operator optimizing cut quality, productivity, and operating cost on every shift.

Step 3 = Ensure proper torch height

Arc voltage sensing height controls optimize cut quality and improve consumable life.



Step 4 = Produce results

Powermax® plasma systems provide the best cut speeds and cut quality of any air plasma on the market.

Quality and productivity

Reliable, voltage-sensing torch height controls like the Sensor THC automatically position the torch at the correct heights for cutting and piercing to protect the consumables from splatter.

- Optimize consumable life for enhanced profitability.
- Maintain cut quality over the life of the consumables for increased productivity.

Consult your cutting system manufacturer for other programmable torch height controls.

Proven performance

Powermax plasma systems, with more mechanized installations than any other brand of air plasma in the world provide:

- Low operating cost
- Improved productivity and cut quality over oxyfuel
- Hypertherm reliability

Step 1

TurboNest software

- Cutting process parameters pre-set for optimized outcomes
- Efficient part nesting for less waste

Step 2

MicroEDGE Pro or EDGE Pro CNC

- CutPro Wizard, manuals, and troubleshooting tools available at the touch of a button
- Remote Help for online expert assistance

Step 3

ArcGlide THC, Sensor THC, or Sensor PHC*

- Programmable height control for optimum cut quality and consumable life

Step 4

Powermax plasma systems

- World's best-selling air plasma systems
- Highly productive and reliable, with low operating costs

= Performance you can trust

Step 1	Step 2	Step 3*		Step 4			Discover how productive you can be with a fully-integrated air plasma cutting solution from Hypertherm.
TurboNest – Nesting software	EDGE Pro, MicroEDGE® Pro – CNC	ArcGlide® THC, Sensor™ THC	Sensor PHC	Powermax105	Powermax65, Powermax85	Powermax45	
							Cut quality
		•	•	•	•	•	Industry-leading air plasma cut quality
•	•						Automatic kerf compensation based on material thickness, amperage and speed
		•					Programmable torch height control for optimum performance
•	•	•		•	•		Cutting process parameters automatically set by offline software to optimize quality
							Productivity (parts per hour) and operating cost (cost per part)
•	•	•	•	•	•	•	Increase parts produced per labor hour due to rapid job set ups, fast cut speeds, and fewer consumable changes
	•	•	•				Optimize consumable life using automatically set pierce and cut heights
				•			Consumable end-of-life detection avoids damage to the torch and to the workpiece
							Ease of use
•	•	•		•	•		Cutting process parameters automatically set up by the off-line software
•	•	•		•	•	•	Easy job set up using the CutPro Wizard
•	•						Plate type and consumable part number prompts for the operator on the CNC
	•						Cutting optimization tips on the CNC
	•						Instruction manuals for CNC, THC, and plasma systems on the CNC
							Diagnostics
•	•	•		•	•		Remote diagnostics over the internet
•	•						Off-line nesting or CNC software diagnostics for the part program

*Other OEM torch height controls may offer similar benefits.

Hypertherm®

Cut with confidence®