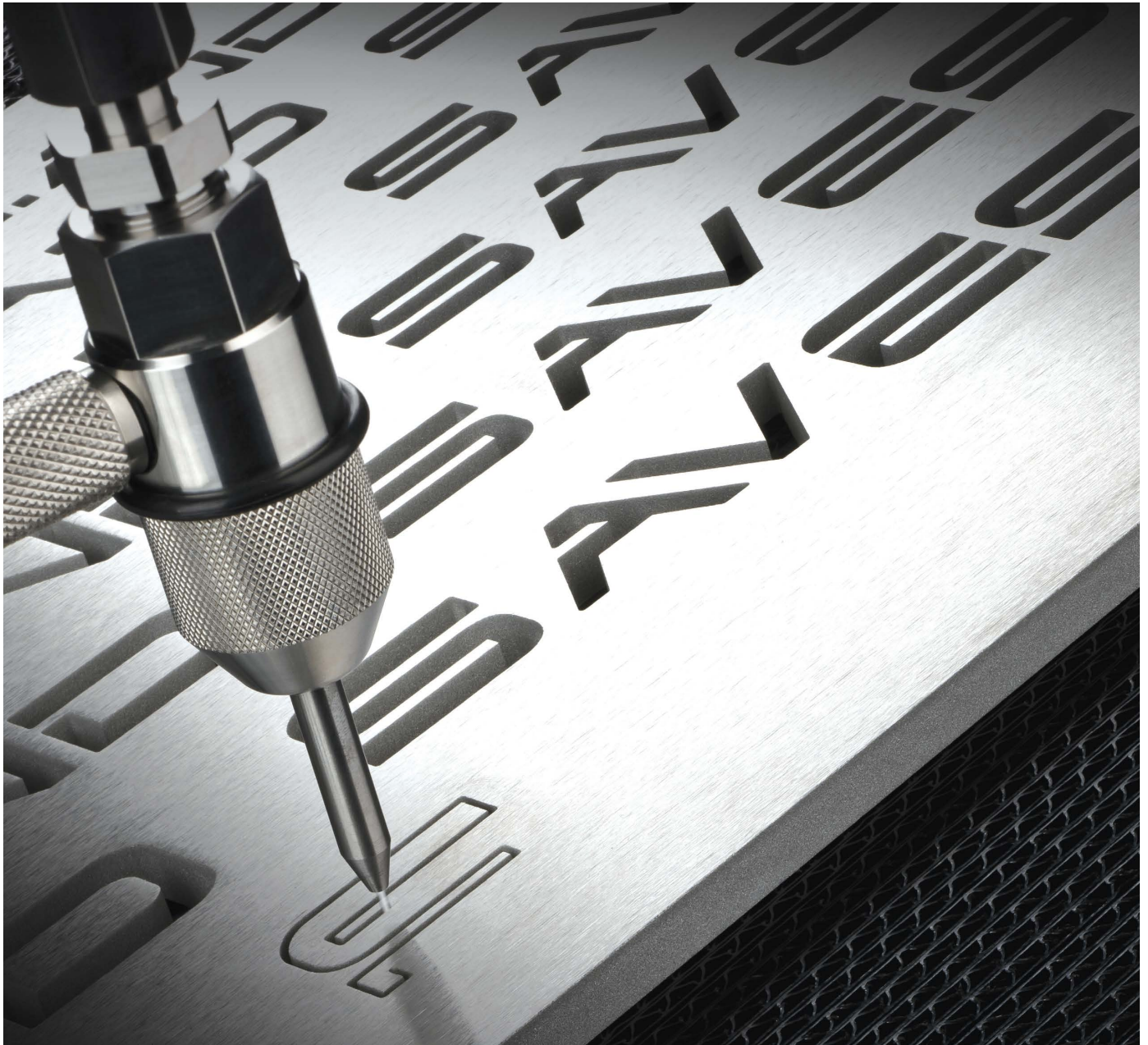


Hypertherm®

DynaMAX™ 5-series dual intensifier waterjet pumps

Optimizing waterjet performance





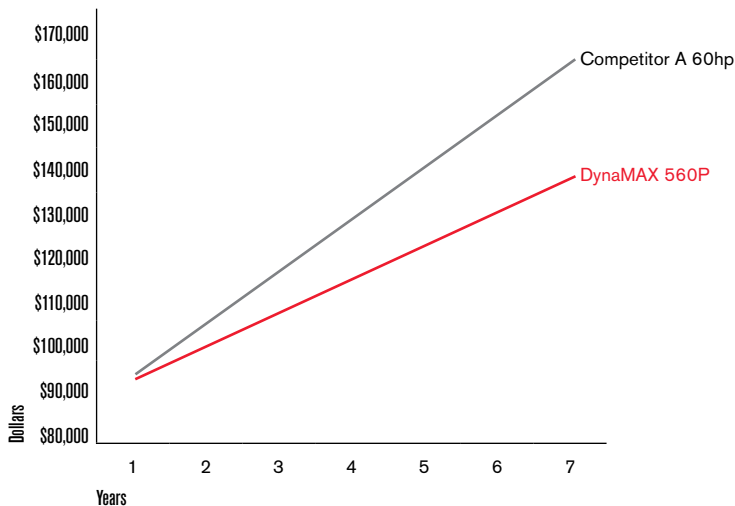
The lowest cost of ownership

60,000 psi vs. 60,000 psi – decrease your total cost of ownership by approximately 20%

When you factor in the cost to purchase, own, and operate, you'll find that DynaMAX™ waterjets are extremely cost effective and outperform all other waterjet systems. Reducing your system cost by 20% means that you can reinvest in your business or put that money toward your bottom line.

Cumulative cost of ownership 60,000 psi vs. 60,000 psi (excludes abrasive cost)

Hypertherm vs. Competitor A



Lower your cost with increased reliability

DynaMAX waterjets were engineered using Advanced Intensifier Technology (AIT). By rethinking the way the intensifier pump works, we were able to make it work harder, last longer, and require less service time. AIT, it's what makes DynaMAX waterjets more cost effective than any other waterjet in the world.

Easier servicing

Hydraulic rod seals and plunger bearings are readily accessed from the outside of the hydraulic end cap.

Longer lasting

Hydraulic center section features an advanced piston design, which minimizes seal wear and improves component life.

Streamlined access

Check valve utilizes a screwless, low-pressure poppet design that enables quick evaluation of key contact surfaces. This feature also allows for noticeably faster component replacement.

Optimized shifting

Advanced electronics provide smooth, reliable shifting for optimum cut quality. Shift times are even monitored to ensure optimal pump performance.

Simpler high-pressure ends

Durable, threaded-rod design simplifies high-pressure end removal for quick seal maintenance. Meanwhile, the nonthreaded cylinder design increases reliability.

Prolonged seal life

Large diameter ceramic plunger produces more water per stroke with reduced friction, yielding maximum seal life.



Measuring pumps in productivity, not psi

60,000 psi vs. 90,000 psi

The facts prove that 60,000 psi waterjets can cut faster than 90,000 psi waterjets. However, we understand that there are unique applications that require 90,000 psi. To learn which those are, talk to your Hypertherm expert. We will work with you to evaluate the materials you are cutting and determine which waterjet option works best for your application.

Buying the waterjet with the highest pressure might not be the right solution. The cost of owning a 90,000 psi waterjet is significantly more expensive than owning a 60,000 psi waterjet. Further, depending on the material you are cutting, a 90,000 psi waterjet can cost substantially more per inch and per cut than a 60,000 psi waterjet.

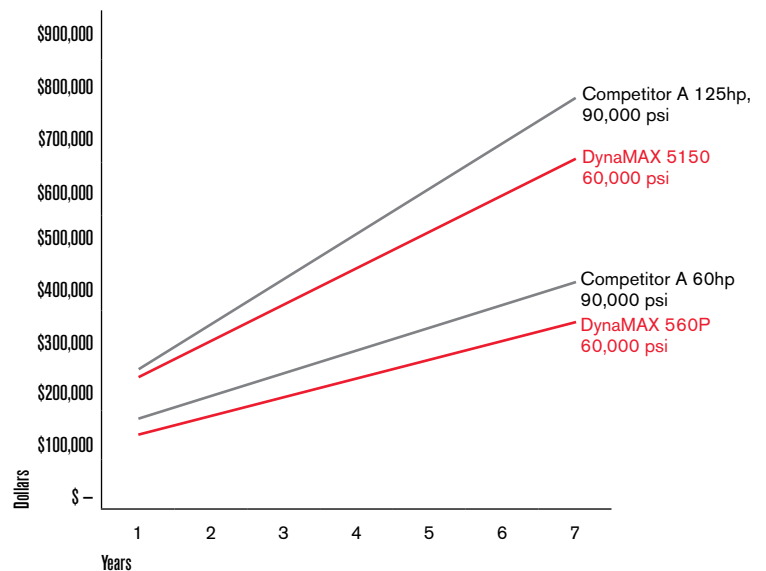
Do not end up with too little or too much when it comes to your waterjet. Get the right waterjet for your application by talking to your Hypertherm experts.

Comparison of 90,000 psi vs. 60,000 psi

Models	Competitor A 60hp, 90,000 psi	DynaMAX™ 60hp, 60,000 psi
Material	Aluminum	Aluminum
Thickness	2.00 in. (50.8 mm)	2.00 in. (50.8 mm)
Feedrate	2.6 ipm (66 mm/min)	2.6 ipm (66 mm/min)
Total cut length	13.7 in. (348 mm)	13.7 in. (348 mm)
Cost per minute	\$4.72	\$3.83
Cost per inch	\$1.81	\$1.47
Cost of cut	\$24.85	\$20.16

Cumulative cost of ownership 60,000 psi vs. 90,000 psi (includes abrasive cost)

Hypertherm vs. Competitor A



System specifications comparison

Identifying the right pump for your application



		DynaMAX™ 5100		DynaMAX™ 5150	
		50 Hz	60 Hz	50 Hz	60 Hz
GENERAL	Maximum output flow	2.1 gpm (7.95 lpm)	2.2 gpm (8.33 lpm)	3.0 gpm (11.36 lpm)	3.2 gpm (12.11 lpm)
	Maximum orifice	0.020" (0.508 mm)	0.021" (0.533 mm)	0.024" (0.610 mm)	0.025" (0.635 mm)
	Continuous output pressure	Adjustable to 60,000 psi (4137 bar)			
	Intensifier configuration	Dual			
	Pressure control	Electronic Proportional			
	Bleed-down valve	Hydraulic			
PUMP POWER	Motor power	100hp (74.6 kW)		150hp (111.9 kW)	
	Voltage	400 V	460 V	400 V	460 V
	Full load	138.8 A	117.5 A	204 A	173.4 A
	Main breaker	150 A		225 A	
	Soft start	True Soft Start			
PHYSICAL	Overall width	45" (1143 mm)		55" (1397 mm)	
	Overall length	86" (2184 mm)		81" (2057 mm)	
	Overall height	56" (1422 mm)		56" (1422 mm)	
	Approximate operating weight	4150 lb (1882 kg)		6100 lb (2767 kg)	
OPTIONS	External air-over-oil cooling	Optional		Optional	
	Chiller for oil cooling	Optional		Optional	
	Water isolation valves	Optional		Standard	

More information for maximum uptime

When creating the optimal waterjet system, Hypertherm did not limit its thinking to the intensifier. We wanted to create a streamlined experience that combines an intuitive operator interface with advanced system monitoring. The outcome is a powerful software package that arms operators with system information that maximizes uptime.



Advanced intensifier monitoring

Provides early detection of leakage inside the intensifier pump



Enhanced maintenance interface

Offers access to Maintenance Log Pro, alarm log viewing, and real-time I/O monitoring



Maintenance Log Pro

Maintenance logging, Ethernet, and web-based interface deliver access to system and maintenance performance from any computer or mobile device




Intensifier settings

Overstroke limits can be changed during pump operation



STEP 400 OPERATOR

Safety operation	DANGER
	Always wear your seat belt. Do not drink and drive. Do not use alcohol or drugs while operating this equipment. Safety is your responsibility. Follow the instructions in this manual.
DANGER	
Hot surfaces & vapors in the path of the laser. Safety and health hazards are involved from the laser output.	DANGER
WARNING	
Do not look directly at the laser beam or at the laser output. Do not look into the laser beam or at the laser output. Do not look into the laser beam or at the laser output. Do not look into the laser beam or at the laser output.	

A knowledgeable partner who knows what you need

Hypertherm built the most robust information tools in the cutting industry. From responsive waterjet experts working the customer service lines, to mobile applications and 24/7 online technical service guides, Hypertherm provides what you need to know. And we offer it to our customers free of charge.

Information is only good when you have it. Be informed, be connected, and stay ahead of profit-losing troubles and delays with insights from Hypertherm.

We ship faster, so you are back to work sooner

We strive to fill every order the day it is received. Our goal as owners is to ensure you get what you need when you need it. If we can not ship the same day, we will call you. From our job shop roots, we know how it feels to be down, so we will do everything we can to keep you cutting.

- Voicemail-free, expert waterjet support during business hours
- Global distribution ensures fast response and speedy parts delivery
- Hypertherm Waterjet Assistant mobile application for iOS and Android
- Online technical guides with step-by-step repair instructions (<http://assist.hypertherm.com>)
- Available on-site product training



Waterjet Assistant gives you instant access to detailed, step-by-step maintenance and repair procedures, including part numbers.

Get the mobile app

Download the Hypertherm Waterjet Assistant mobile app from the App Store for iOS or from Google Play for Android using the links below.





Shaping Possibility®

With the right tools and a relentless focus on innovation, partnership, and community, we believe anything is possible.

More than fifty years ago, in a small two car garage, Hypertherm® began our journey with simple, powerful ideas about business and an invention that shaped the future of industrial cutting. The same ideals that fueled our inception all those years ago are still what drive us today: a passion for challenging what is achievable with the products we create, the culture we foster, and the experience we deliver to our customers. As we look to the horizon and the next 50 years, we are proud that our people, partners, and innovations will shape the future with solutions that make anything possible for industries around the world.

At Hypertherm, we give shape to our customers' vision with the world's leading industrial cutting solutions. Every day we help individuals and companies around the world envision better, smarter and more efficient ways to produce the products that shape our world. So whether you're cutting precision parts in North America, constructing a pipeline in Norway, fabricating agricultural machinery in Brazil, cutting stone in Italy, gouging out welds in the mines of South Africa, or building a skyscraper in China, you can count on Hypertherm to help you not just cut parts but achieve your vision.

100% employee ownership matters

At Hypertherm, we are not just employees: we are all owners. Ownership is a powerful motivator that ensures our customers 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. And we build long-term relationships that deliver value for us, our partners and our customers.

Worldwide presence and strength

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

Key elements of the Hypertherm formula include:

- Dedicated Associates focused on customer-centered product design and support
- Local sales and service
- Broad application experience and proven results
- Sustainable and ethical business practices benefit our customers and communities

AHB

TOOLING & MACHINERY

COMPLETE METALWORKING SOLUTIONS

(800) 991-4225

ISO Certified

www.ahbinc.com

customerservice@ahbinc.com

HELPING YOU SHAPE THE WORLD.



PLASMA | LASER | WATERJET | AUTOMATION | SOFTWARE | CONSUMABLES

To learn more, visit www.hypertherm.com/waterjet

Hypertherm, DynaMAX, and Shaping Possibility are trademarks of Hypertherm, Inc. and may be registered in the United States and/or other countries.

Please visit www.hypertherm.com/patents for more details about Hypertherm patent numbers and types.

© 11/2021 Hypertherm, Inc. Revision 3
895970

As 100% Associate owners, we are all focused on delivering a superior customer experience. www.hypertherm.com/ownership

Environmental stewardship is one of Hypertherm's core values. www.hypertherm.com/environment

Hypertherm[®]
SHAPING POSSIBILITY[®]

100% Associate-owned

