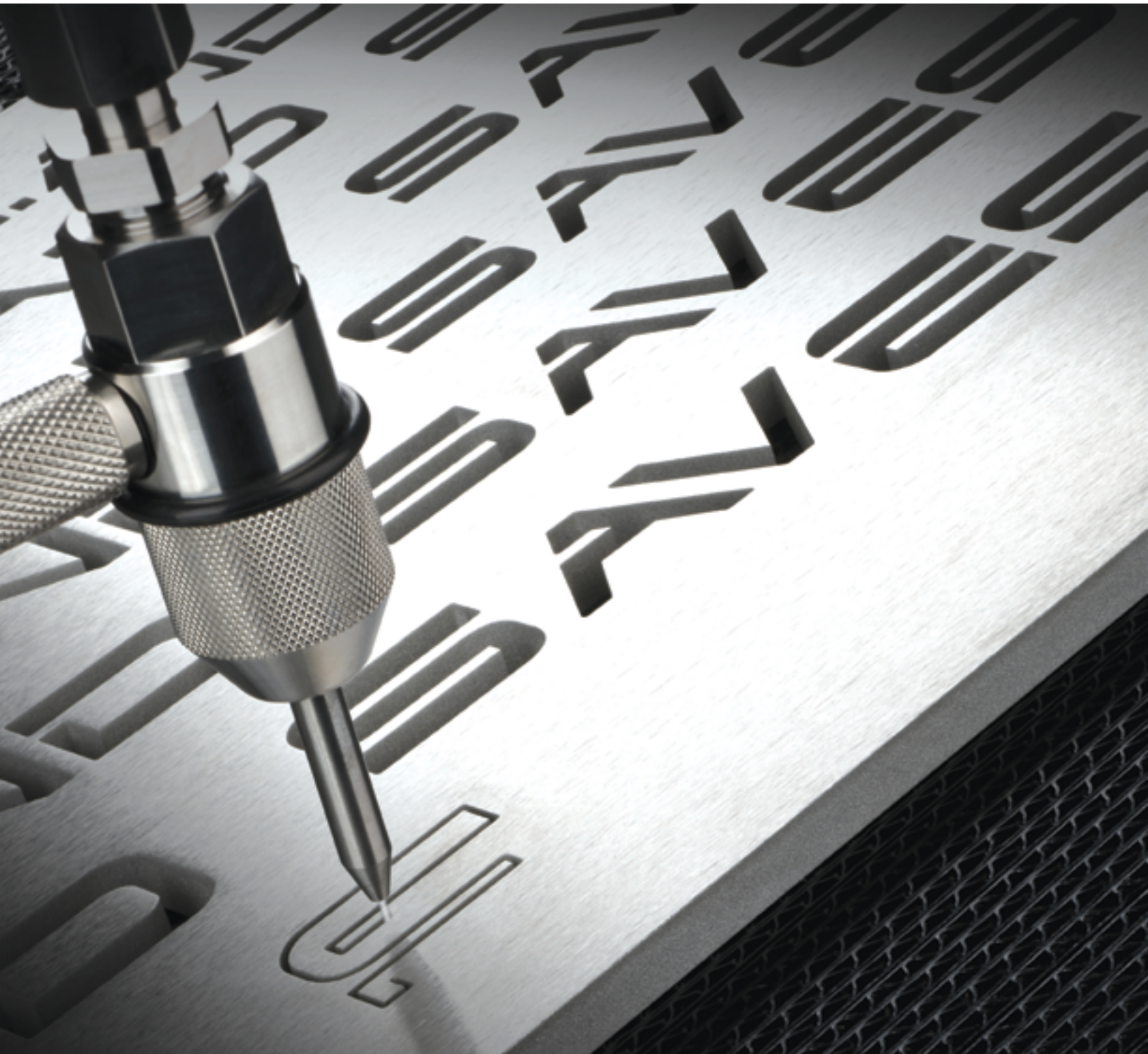


**Hypertherm®**

## HyPrecision™ Waterjet

Optimizing waterjet performance





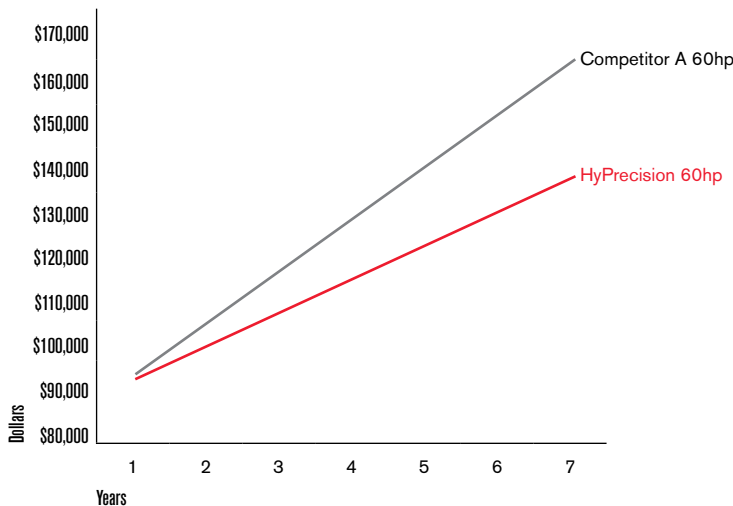
# The lowest cost of ownership

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 Hypertherm HyPrecision™ 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

Hypertherm HyPrecision 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 Hypertherm HyPrecision 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.

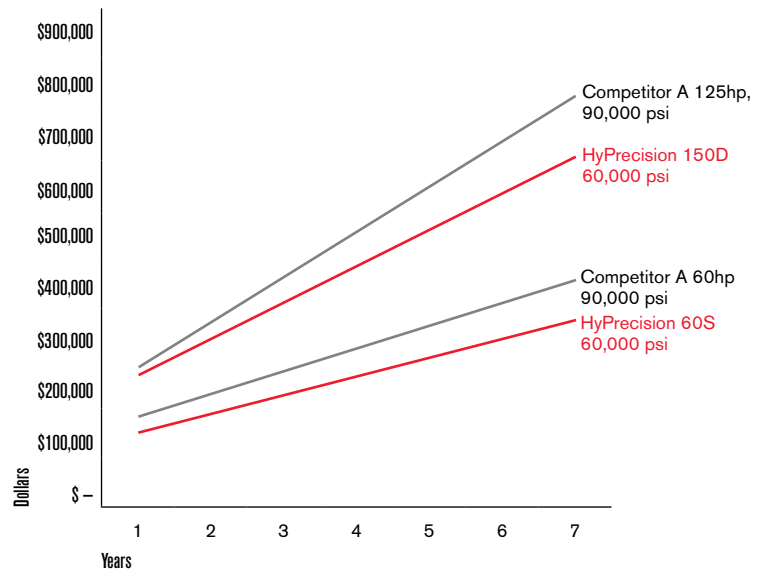
Do not end up with too little or too much when it comes to your waterjet. Get the right waterjet for your application by talking to your Hypertherm experts.

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

Models	Competitor A 60hp, 90,000 psi	Hypertherm HyPrecision™ 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



		HyPrecision™ 15		HyPrecision™ 30		HyPrecision™ 50	
		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
<b>GENERAL</b>	Maximum output flow	0.30 gpm (1.14 lpm)		0.60 gpm (2.27 lpm)		1.0 gpm (3.79 lpm)	
	Maximum orifice	0.007" (0.178 mm)		0.011" (0.279 mm)		0.014" (0.356 mm)	
	Continuous output pressure	Adjustable to 60,000 psi (4137 bar)					
	Intensifier configuration	Single					
	Pressure control	Dual manual					
	Bleed-down valve	Air					

		15hp (11.2 kW)		30hp (22.4 kW)		50hp (37.3 kW)	
		400 V	208-230/460 V	400 V	208-230/460 V	400 V	208-230/460 V
<b>PUMP POWER</b>	Motor power	15hp (11.2 kW)		30hp (22.4 kW)		50hp (37.3 kW)	
	Voltage	400 V	208-230/460 V	400 V	208-230/460 V	400 V	208-230/460 V
	Full load	24 A	43-39/19 A	44 A	83-75/38 A	73 A	135-122/61 A
	Main breaker	25 A	50/25 A	50 A	100/50 A	100 A	175/100 A
	Soft start	-		-		Wye-Delta	

<b>PHYSICAL</b>	Overall width	34" (864 mm)	
	Overall length	70" (1778 mm)	
	Overall height	46" (1168 mm)	
	Approximate operating weight	2900 lb (1315 kg)	

<b>OPTIONS</b>	External air-over-oil cooling
	Chiller for oil cooling
	Water modulating valve
	External boost pump
	-

## 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.



HyPrecision™ 50S		HyPrecision™ 60S		HyPrecision™ 75S		HyPrecision™ 100D		HyPrecision™ 150D	
50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
1.0 gpm (3.79 lpm)	1.1 gpm (4.16 lpm)	1.2 gpm (4.54 lpm)	1.3 gpm (4.92 lpm)	1.5 (5.68 lpm)	1.6 gpm (6.06 lpm)	2.1 gpm (7.95 lpm)	2.2 gpm (8.33 lpm)	3.0 gpm (11.36 lpm)	3.2 gpm (12.11 lpm)
0.014" (0.356 mm)	0.015" (0.38 mm)	0.016" (0.406 mm)		0.017" (0.432 mm)	0.018" (0.457 mm)	0.020" (0.508 mm)	0.021" (0.533 mm)	0.024" (0.610 mm)	0.025" (0.635 mm)
Adjustable to 60,000 psi (4137 bar)						Adjustable to 60,000 psi (4137 bar)			
Single						Dual			
Panel-mounted Dual Manual						Electronic Proportional			
Hydraulic						Hydraulic			

50hp (37.3 kW)		60hp (44.7 kW)		75hp (56 kW)		100hp (74.6 kW)		150hp (111.9 kW)	
400 V	208-230/460 V	400 V	460 V	400 V	460 V	400 V	460 V	400 V	460 V
73 A	138-125/62 A	75 A	71.1 A	103 A	87.1 A	138.8 A	117.5 A	204 A	173.4 A
80 A	150/80 A	100 A		125 A	100 A	150 A		225 A	
True Soft Start						True Soft Start			

40" (1016 mm)		45" (1143 mm)		55" (1397 mm)	
76" (1930 mm)		86" (2184 mm)		81" (2057 mm)	
56" (1422 mm)		56" (1422 mm)		56" (1422 mm)	
3100 lb (1406 kg)		3300 lb (1497 kg)		4150 lb (1882 kg)	
6100 lb (2767 kg)					

External air-over-oil cooling		External air-over-oil cooling	
Chiller for oil cooling		Chiller for oil cooling	
Redundancy		Water isolation valves	Water and hydraulic isolation valves
Redundancy ready		-	
Electronic proportional pressure control		-	



**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





## 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.



Hypertherm Waterjet Mobile Assistant application with step-by-step repair guides

- Live, voicemail-free customer service representatives during business hours
- Hypertherm Waterjet Mobile Assistant mobile application for iOS and Android
- Online technical guides with step-by-step repair instructions
- On-site product training available on request



# Nearly 50 years of of Shaping Possibility

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

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, 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 aren't just employees: we're 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

**HELPING YOU  
SHAPE THE WORLD.**



PLASMA | LASER | WATERJET | AUTOMATION | SOFTWARE | CONSUMABLES

To learn more, visit [www.hypertherm.com/waterjet](http://www.hypertherm.com/waterjet)

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One of Hypertherm's long-standing core values is a focus on minimizing our impact on the environment. Doing so is critical to our, and our customers' success. We are always striving to become better environmental stewards; it is a process we care deeply about.

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SHAPING POSSIBILITY™

