

Hypertherm®

HyPrecision™ Waterjet

Optimizing waterjet performance





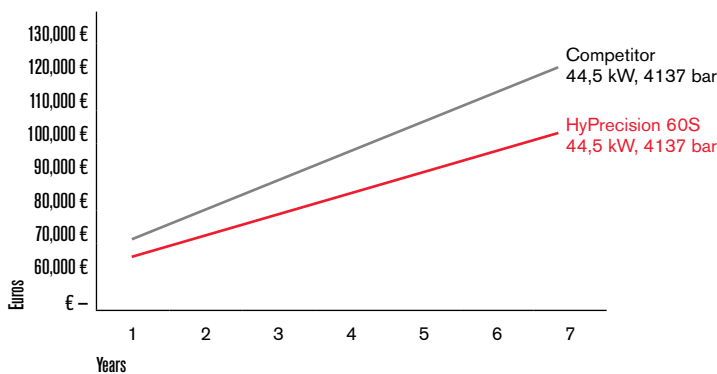
The lowest cost of ownership

4137 bar vs 4137 bar – 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 4137 bar vs 4137 bar (excludes abrasive cost)

Hypertherm vs leading competitor



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 bar

4137 bar vs 6200 bar

The facts prove that 4137 bar waterjets can cut faster than 6200 bar waterjets. However, we understand that there are unique applications that require 6200 bar. To learn which ones those are, talk to your Hypertherm expert. We'll 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 6200 bar waterjet is significantly more expensive than owning a 4137 bar waterjet. Further, depending on the material you are cutting, a 6200 bar waterjet can cost substantially more per inch and per cut than a 4137 bar waterjet.

Don't 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.

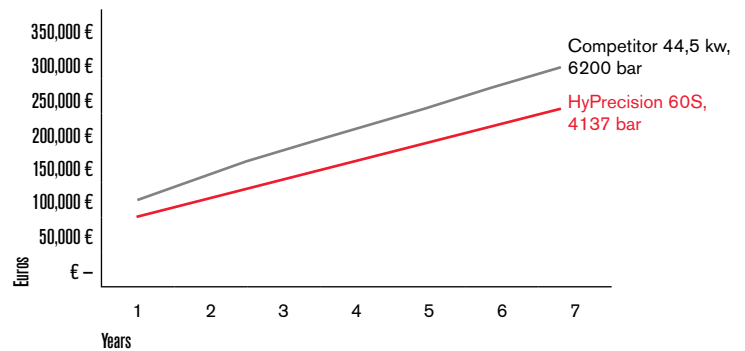
Comparison of 6200 bar vs 4137 bar

Models	Leading competitor 44,5 kW, 6200 bar	Hypertherm HyPrecision 44,5 kW, 4137 bar
Material	Aluminum	Aluminum
Thickness	50,8 mm	50,8 mm
Feedrate	66 mm/min	66 mm/min
Total cut length	348 mm	348 mm
Cost per minute	3.44€	2.79€
Cost per mm	1.32€	1.07€
Cost of cut	18.14€	14.72€

Assumes exchange rate of 1 USD = 0.73 EUR

Cumulative cost of ownership 4137 bar vs 6200 bar (includes abrasive cost)

Hypertherm vs leading competitor



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
GENERAL	Maximum output flow	1,14 lpm		2,27 lpm		3,79 lpm	
	Maximum orifice	0,178 mm		0,279 mm		0,356 mm	
	Continuous output pressure	Adjustable to 4137 bar					
	Intensifier configuration	Single					
	Pressure control	Dual manual					
	Bleed-down valve	Air					

		11,2 kW		22,4 kW		37,3 kW	
		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
PUMP POWER	Motor power	11,2 kW		22,4 kW		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	

PHYSICAL	Overall width	864 mm					
	Overall length	1778 mm					
	Overall height	1168 mm					
	Approximate operating weight	1315 kg					

OPTIONS	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 didn't 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
3,79 lpm	4,16 lpm	4,54 lpm	4,92 lpm	5,68 lpm	6,06 lpm	7,95 lpm	8,33 lpm	11,36 lpm	12,11 lpm
0,356 mm	0,38 mm	0,406 mm		0,432 mm	0,457 mm	0,508 mm	0,533 mm	0,610 mm	0,635 mm
Adjustable to 4137 bar						Adjustable to 4137 bar			
Single						Dual			
Panel-mounted Dual Manual						Electronic Proportional			
Hydraulic						Hydraulic			

37,3 kW		44,7 kW		56 kW		74,6 kW		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			

1016 mm		1143 mm		1397 mm	
1930 mm		2184 mm		2057 mm	
1422 mm		1422 mm		1422 mm	
1406 kg	1497 kg		1882 kg		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 knowledge 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 apps 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 knowledge from Hypertherm.

We ship faster so you're 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't ship the same day, we'll 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 app with step-by-step repair guides

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



Hypertherm: company overview

At Hypertherm, our sole focus is cutting. Every Associate – from our engineers to our manufacturing and service teams – is completely focused on providing our customers with the best cutting solutions in the industry. It's a mission stretching back nearly 50 years to our first industrial cutting patent. Today, our patent wall continues to expand as we innovate tirelessly to introduce new plasma, laser and waterjet technologies and services that will help you achieve optimal cutting outcomes that support your business objectives. 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. No matter what you cut, where you cut, or how you cut, we are here to guide you towards the cutting solution that is right for you.

Worldwide presence and strength

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

Key elements of the Hypertherm formula include:

- Dedicated Associates concentrating on cutting technology
- Regional sales, customer service and technical service for local support
- Broad application experience and proven results
- Complete product line solutions for your cutting needs
- Commitment to the idea that product selection, design, support and services are driven by customer input



To learn more, visit 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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Cut with confidence[®]

