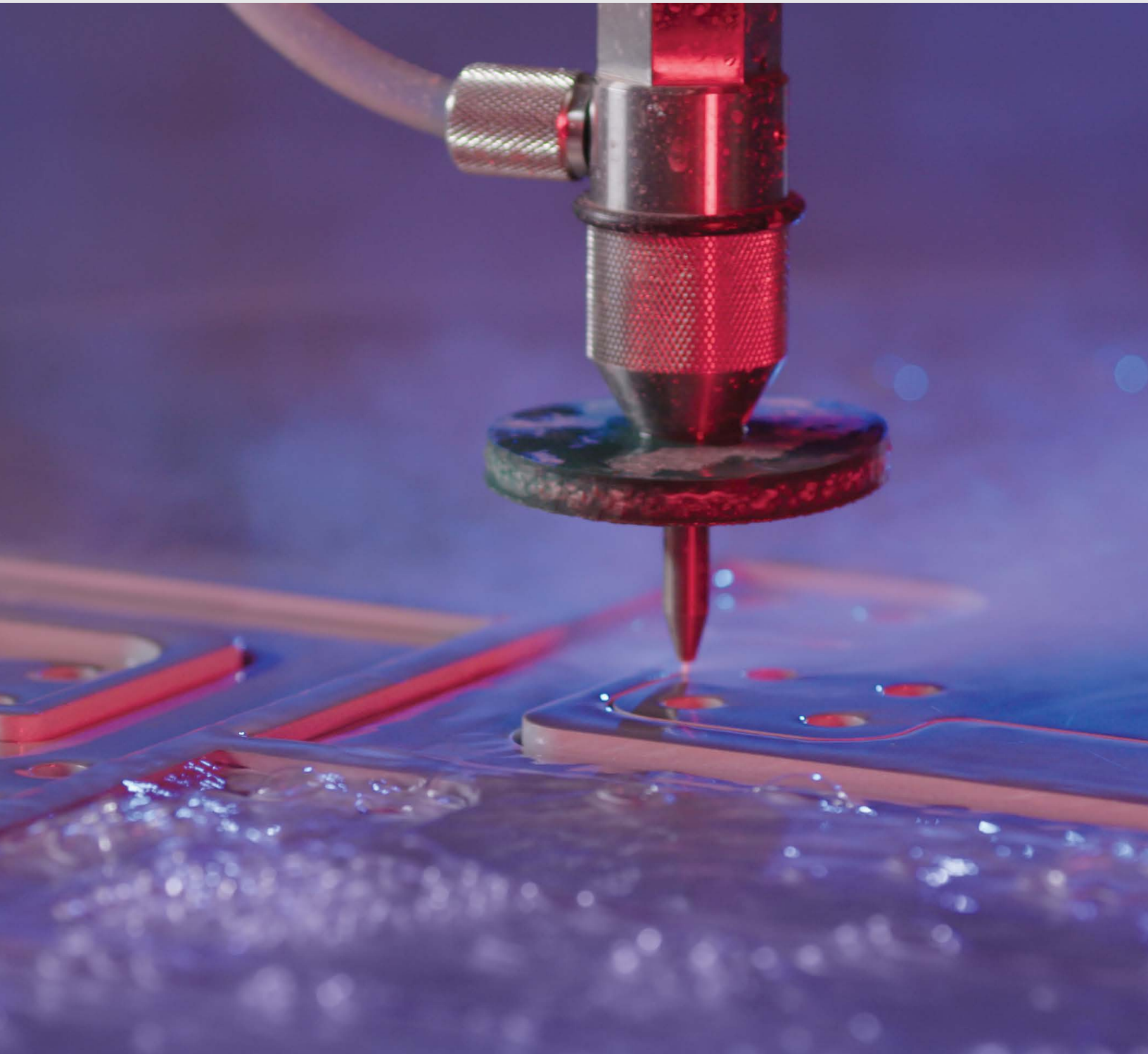


# DynaMAX® 5-series predictive waterjet pumps

Improving productivity through prediction



A black industrial machine, the DynaMAX 575P, is shown from a side-front perspective. The machine has a large black body with a silver-colored top section. On the front panel, the model name "DynaMAX 575P" is printed in large, bold, white letters. Below the name is a small, rectangular, recessed area. To the right of this area is a control panel featuring two analog pressure gauges at the top, a transparent window showing four vertical tubes in the middle, and a "Seal Maintenance Indicator" label below the window. Further right is a control panel with a digital display, a red emergency stop button, and several other buttons and indicators. The machine is set against a plain white background.

**DynaMAX 575P**



Seal Maintenance Indicator™



# DynaMAX 5-series predictive pumps

Designed and built to keep you up and running

DynaMAX® 5-series pumps are the first waterjet pumps to incorporate predictive maintenance capabilities that substantially reduce maintenance costs and disruption caused by non-planned service. Equipped with standard features such as our proven Advanced Intensifier Technology™ (AIT) and a closed loop proportional pressure control, DynaMAX pumps offer you even more consistent cut quality while ensuring trouble-free operation and reliability.

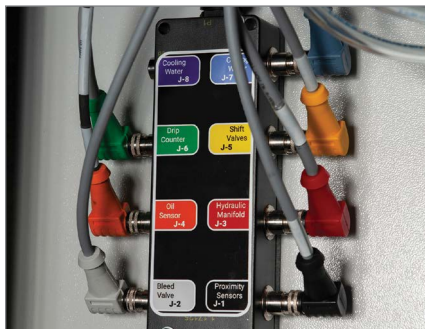
## Increased productivity and reduced maintenance costs

Patented Seal Maintenance Technology™ extends seal life by up to 40%. The system monitors weepage and lets you know when it's time to change intensifier seals – no more costly changing too soon or too late! This increases productivity, minimizes scrap, and saves time, aggravation, and money.



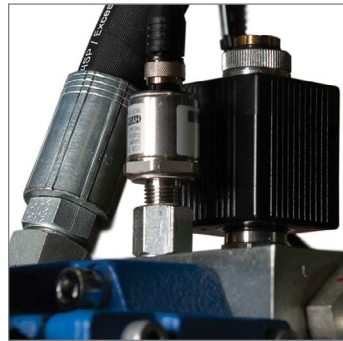
## Improved reliability and ease of service

With 10% fewer parts than earlier generations, DynaMAX predictive pumps include user-friendly features such as a color-coded junction box, electrical cable harnesses, quick-connect fittings, and an easy access bleed-down valve to make maintenance faster, easier, and less expensive.



## Increased performance

Standard on all DynaMAX predictive pumps, closed loop proportional pressure control adjusts for ambient pressure and temperature, oil viscosity and hydraulic system wear parts, to deliver consistent quality at optimum cutting speeds.



## Improved safety

The clear window cover lets the operator see the intensifier and attenuator. Optional interlocks help prevent unauthorized access, and can be programmed to automatically stop the pump when opened. In addition, the seal maintenance technology's drip tray helps keep the top deck – and the shop floor – clear of oil and water.



# Seal Maintenance Technology™ boosts productivity and improves shop safety

Say goodbye to messy puddles in the workspace and unplanned downtime due to seal failure. Hypertherm Associates' exclusive, patented Seal Maintenance Technology eliminates the guess work with today's intensifier seal repair.

## Drip tray

Captures oil and water when intensifier starts to weep as part of normal operation

## Stack light

Turns from green to yellow when it's time to schedule service, then to red when seal maintenance is required



## Seal maintenance indicator

Continuously monitors intensifier weepage – blue lights blink when fluid passes by

## Fluid capturing vessel

Captures intensifier weepage to help keep your floor clean





# Choosing the DynaMAX® 5-series predictive pump for your application

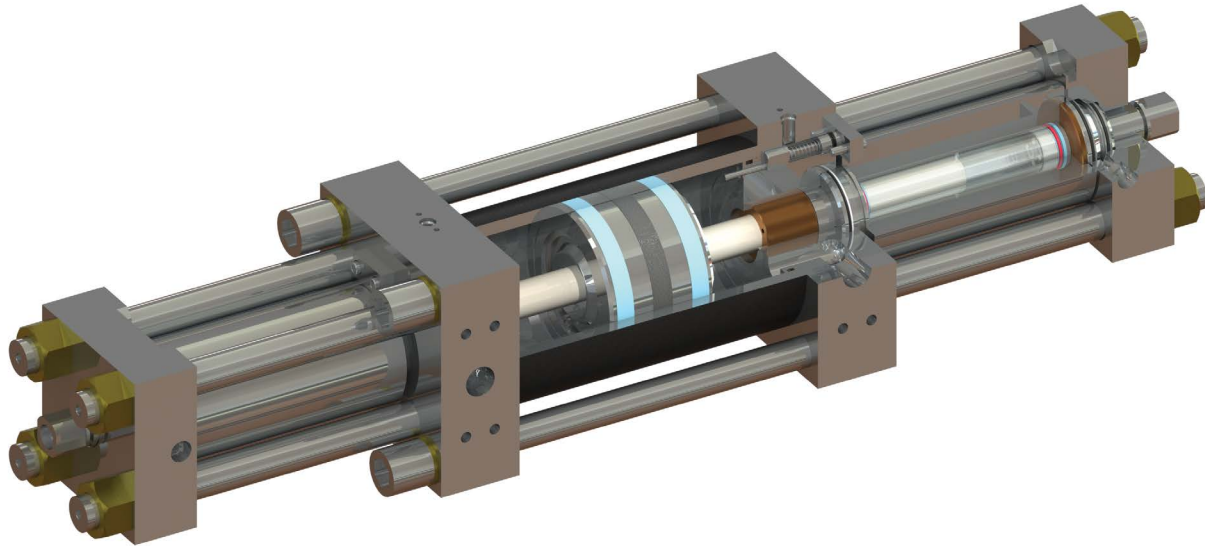
## System specifications



Pump model number		DynaMAX 550P			DynaMAX 560P		DynaMAX 575P	
Hz		50	60		50	60	50	60
GENERAL	Maximum output: gpm (lpm)	1.0 (3.79)			1.2 (4.54)		1.5 (5.68)	
	Maximum orifice: inch (mm)	0.014 (0.35)			0.016 (0.40)		0.017 (0.43)	
	Output pressure	Adjustable to 60,000 psi (4100 bar)						
	Pressure control	Closed loop proportional pressure control – standard equipment						
	Bleed down valve	Air-actuated						
PUMP POWER	Motor power: HP (kW)	50 (37)			60 (44.7)		75 (56)	
	Voltage	400	208-230	460	400	460	400	460
	Full load amps	73.8	138.2-125.8	62.9	90.7	74.4	110.3	89.6
	Main breaker (amps)	80	150	80	100	100	125	100
	Motor starter (options if more than 1 listed)	Soft Start						
SPECIAL FEATURES	Seal Maintenance Technology	Included as standard equipment						
	Closed loop proportional pressure control	Included as standard equipment						
PHYSICAL	Width	40" (1016 mm)						
	Length	79" (1996 mm)						
	Height	59" (1509 mm)						
	Operating weight lbs. (kg)	2800 (1300)			3200 (1450)		3300 (1500)	
ACCESSORIES	Cover	Cover with observation windows						
	Boost pump	Included						
	External air over oil cooling	Optional						
	Electrical Interlock	Optional						
	Chiller for oil cooling	Optional						

# The heart of every DynaMAX<sup>®</sup> predictive pump: Advanced Intensifier Technology providing the ultimate in waterjet reliability

By rethinking the way the intensifier pump works, we were able to make it work harder,  
last longer and require significantly less service time.



## Easier servicing

Hydraulic rod seals and plunger bearings are readily accessible from outside the hydraulic end cap

## Longer lasting

Advanced piston design minimizes seal wear and improves component life

## Optimized shifting

Advanced electronics provide smooth, reliable shifting for optimum cut quality

## No thread galling

Thread-less cylinders eliminate the possibility of galling (seizing up) and becoming unusable

## Prolonged seal life

Large diameter ceramic plunger delivers more water per stroke with reduced friction, for longer seal life

## Screw-less check valve

Eliminates possible loose screw creating internal damage to intensifier

## Long life piston

Advanced piston design minimizes seal wear and improves component life

## Large diameter plunger

1" (2.5 cm) plunger produces more water per stroke with reduced friction







## A knowledgeable partner who knows what you need

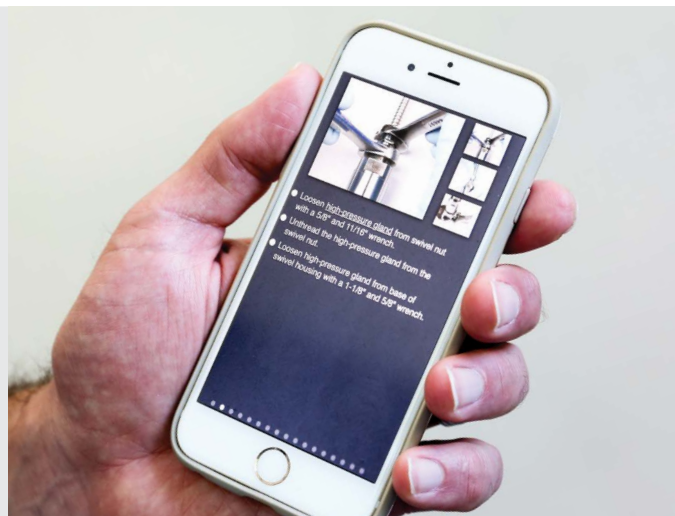
Hypertherm Associates built the most robust information tools in the cutting industry. From responsive waterjet experts working the customer service lines, to mobile applications and 24/7 online technical service guides, Hypertherm Associates provides what you need to know. And we offer it to our customers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

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

## 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.



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

### Get the mobile app

Download the Waterjet Mobile Assistant by Hypertherm Associates from the App Store for iOS or from Google Play for Android using the links below.





Constancy  
of purpose

Drive to  
innovate

Passion for  
customer  
success

# The Hypertherm Associates corporate story

Hypertherm. OMAX. Centricut. ProNest. AccuStream, Robotmaster. These names and more represent the world's leading industrial cutting technologies and solutions, and they can all be found in one company: Hypertherm Associates. With constancy of purpose, a drive to innovate, and a passion for customer success, Hypertherm Associates is leading the industrial cutting and shaping industry.

## Shaping Possibility

Since the founding of Hypertherm Associates in 1968, we have always believed in the value of surpassing expectations. It's why we make continued investments in people. It's why we invest aggressively in ongoing product development. And now, it's why we'll be known as Hypertherm Associates: a 100% Associate-owned company composed of the world-class industrial cutting technologies and solutions you know and trust – plasma, waterjet, CAD-CAM, robotic software, and more – to help our customers succeed in ways that have never before been possible.

Hypertherm Associates builds on our legacy of challenging what's achievable with the products we create, the culture we foster, and the experience we deliver to our customers – and then goes further. Whether plasma, waterjet, or the consumables, software, and services that enable connected factories and optimized performance, the solutions that help our customers meet their business objectives can all be found in one place: Hypertherm Associates.

## Committing to Success

Behind the name Hypertherm Associates lies a fundamental commitment to the success of people: our customers, partners, our Associates, and communities. Our dedication to 100% Associate ownership is a direct result of that commitment. By maintaining complete independence from external shareholders or other corporate entities, we can focus on our customers and partners to deliver exactly what they need. And because our Associates work together moving toward a common goal, they are an energized workforce dedicated to delivering a consistently superior customer experience.

## Leading the Industry

From aerospace to agriculture and energy to infrastructure, the people, brands, and technologies of Hypertherm Associates can already be found everywhere advanced manufacturing is happening around the globe. In fact, hundreds of thousands of businesses are relying on Hypertherm Associates technologies and solutions right now for performance and reliability that help increase their productivity and profitability. And that's why companies worldwide turn to Hypertherm Associates to build ships, airplanes, and railcars, to construct steel buildings and bridges, to fabricate heavy equipment and wind turbines, and a whole lot more.

Through our portfolio of technologies and solutions, Hypertherm Associates employs more than 1,900 people and maintains operations and partner representation globally. With Hypertherm Associates, we've created a framework for growth and expansion that will allow us to bring the latest innovations to our customers more quickly, and with a deeper level of integration and customer support.

Hypertherm Associates is the evolution of a vision that continues to put our customers first, to solve their challenges, and to make it even easier to do business with us. Our global team is committed to continuously finding ways to make our company, our customers, and our communities more successful, and we're excited to have you with us as we continue our journey of shaping possibility.



# SHAPING POSSIBILITY®

PLASMA | LASER | WATERJET | AUTOMATION | SOFTWARE | CONSUMABLES

For more information, visit: [www.hyperthermassociates.com](http://www.hyperthermassociates.com)

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ASSOCIATES™**

As 100% Associate owners, we are all focused on delivering a superior customer experience. [www.hyperthermassociates.com/ownership](http://www.hyperthermassociates.com/ownership)

Environmental stewardship is one of Hypertherm Associates' core values. [www.hyperthermassociates.com/environment](http://www.hyperthermassociates.com/environment)

100% Associate-owned

