

The advantage is clear with the H2O Jet Advantage® Pump.

#### INTENSIFIERS

- Precise pressure signals improve cut edge quality and speed.
- Our standalone pumps with onboard PLCs enable seamless hookup to nearly any system.
- Higher pressure reduces garnet usage – lowering operating costs and maintenance.

#### HYDRAULIC SYSTEM

- Largest hydraulic oil reservoirs extend life and protect system components.
- Oil temperature sensors for system protection and alerts.
- Factory calibrated proportional pressure control system to ensure exact pressure.
- Smoother pressure signals, longer tubing and fixture life.

#### INTENTIONAL & ERGONOMIC DESIGN

- Easy access to common maintenance areas.
- Soundproofing for quiet operation (75db).
- Easy access to pressure control on control panel.
- Intensifier height is ideal workheight.

#### LOW PRESSURE WATER

- Pressure gauges before & after filters.
- Pressure sensor for incoming water ensures protection of components, prevents cavitation.
- Bladder tank for constant, steady supply.

#### STATE-OF-THE-ART ELECTRICAL CONTROLS

- Intuitive & easy to operate.
- Industry standard Allen Bradley controls system.
- Energy efficient motor starters, wye-delta standard soft start available.
- Operation tracking, stroke, & hour counting for maintenance recordkeeping (early maintenance warnings built in).
- Direct access to resources & manuals electronically.
- Built-in stroke control minimizes the chance of synchronized stroking on ganged systems.

# Advantage® UHP Pumps

The Advantage Pump is a **top choice for high-demand operations**. Whether it's powering multiple cutting stations from a shared line or supplying manifolds with multiple jets, the Advantage Pump delivers uninterrupted water supply for **maximum uptime**.

The Advantage Pump's user-friendly design enables easy maintenance, while stroke and noise control make it an ideal choice for multi-pump systems.

The inclusion of safeguards, such as an onboard bladder tank for water supply certainty and an efficient water/oil heat exchanger for optimal cooling, eliminate concerns of cavitation and temporary water pressure drops.

Experience smooth, efficient operation, and predictable, maximum uptime.

## Did You Know? ALL ABOUT H2O INTENSIFIER PUMPS

- Our intensifiers achieve the cleanest edge and faster cutting with the tightest pressure signals.
- The higher the pressure the less garnet consumed, delivering the lowest operating costs and minimal maintenance
- Our pumps prolong the lifespan of fittings, tubing, and parts with the smoothest stroking.
- Our solutions are easily tailored to your unique requirements with a wide range of options.
- You can seamlessly connect our pumps to nearly any system.



## Powering Performance H2O Jet Intensifiers

Our intensifiers offer effortless access and convenient offline replacement for maintenance. Meticulously crafted with advanced designs for check valves, hydraulic pistons, high-pressure cylinders, and 100% ceramic plungers, H2OJet intensifiers embody cutting-edge technology. Each unit achieves impressive performance, with a delivery of up to 1.5 gpm at 40,000 psi and 1.0 gpm at 60,000 psi.

### Redundant vs Single vs Dual Intensifiers

A single intensifier is powered by a 50 HP motor; however our expansive pump design accommodates two. This redundancy significantly reduces disruptions. Dual intensifiers are driven by a 100 HP motor, amplifying output without compromising hydraulic stability.

### Attenuators

Our pumps incorporate spacious 2-liter attenuators, ensuring precise pressure signals and seamless cutting, even during high-water usage. The H2O Jet manufacturing approach enhances longevity, making them a reliable investment for lasting performance.

Specifications	H100D	H50S or R
Intensifiers	Dual	Single or Redundant
Max OP Pressure	60,000 psi (4150 bar)	60,000 psi (4150 bar)
Flow Rate	2 gpm (7.6 L/min)	1 gpm (3.8 L/min)
Max Orifice Size	.020" (.508 mm)	.014" (.36 mm)
Horsepower	100 hp (74.57 kw)	50 hp (37.29kw)
Hydraulic Res Capacity	80 gal (302.8 L/min)	80 gal (302.8 L/min)
Cooling Water Flow	3-5 gpm (11.4-20 L/min)	3-5 gpm (11.4-20 L/min)
Length	79" (201 cm)	79" (201 cm)
Width	49" (124.5 cm)	49" (124.5 cm)
Height	51" (129.5cm)	51" (129.5 cm)
Weight	4000 lb (1814 kg)	3500 lb (1588 kg)





# Advantage®

40,000 psi – 60,000 psi

Ultra-High Pressure Pumps

HYDRAULIC INTENSIFIER PUMPS

**COMPLETE METALWORKING SOLUTIONS**  
 (800) 991-4225 [www.ahbinc.com](http://www.ahbinc.com)  
 ISO Certified [customerservice@ahbinc.com](mailto:customerservice@ahbinc.com)

H2O Jet is a renowned leader waterjet pumps and parts with over **30 years of excellence** serving H2O Jet and Flow-Style systems.

Our solutions are designed to meet the demands of high-volume, time-critical operations.

**By simplifying waterjet processes, we enhance reliability, lower operating costs, and increase output.**

As a proud US-based company, we have established ourselves as the number one brand for robotic systems, trusted by prominent machine builders.

We take pride in offering tailored configurations, providing direct access to support from experienced experts, and maintaining a customer-centric approach. With H2O Jet, you can expect the highest quality parts in the industry, ensuring exceptional performance and lasting value.

ETL Listed Conforms to:  
 UL Std 508A  
 CSA STD C22.2 NO. 14  
 Intertek 9900836

**WHY CONSIDER AN H2O JET INTENSIFIER PUMP?**

- Smooth stroking action extends life of fittings, tubing, and parts.
- Customizable options to meet your needs.
- Ideal for high on / off cycle applications. Start or stop on-demand.
- Longer maintenance intervals, faster & easier upkeep.
- One pump can supply multiple independent tables or cutting stations.
- Intensifier pumps only stroke when pressure drops below the pressure level setting.

How does **Advantage®** compare to the rest of the pump line?

Advantage	Advantage EP	Advantage EF	Skid Mounted (SMP)	Custom
<b>Main Purpose</b> Assured uptime for operations relying on the waterjet; built-in features for simpler use	<b>Main Purpose</b> Same as Advantage, plus: higher max pressure	<b>Main Purpose</b> Same as Advantage, plus: unique/larger Intensifier for higher output	<b>Main Purpose</b> Basic, reliable operation	<b>Main Purpose</b> Basic, reliable operation
<b>Main Feature</b> Doors, Covers; High-End PLC	<b>Main Feature</b> Higher pressure	<b>Main Feature</b> Higher water output	<b>Main Feature</b> Lower cost	<b>Main Feature</b> Pressure created to specs
<b>Motor Sizes - Intensifier Options</b> 50hp - Single or Redundant 100hp - Dual	<b>Motor Sizes - Intensifier Options</b> 50hp - Single or Redundant 100hp - Dual	<b>Motor Sizes - Intensifier Options</b> 75hp - Single or Redundant, EF Intensifier	<b>Motor Sizes - Intensifier Options</b> 10hp to 50hp - Single	<b>Motor Sizes - Intensifier Options</b> Project dependent
<b>Doors/Covers</b> Std	<b>Doors/Covers</b> Std	<b>Doors/Covers</b> Std	<b>Doors/Covers</b> Optional	<b>Doors/Covers</b> Optional
<b>Max Pressure Options</b> 40k, 60kpsi	<b>Max Pressure Options</b> 94kpsi	<b>Max Pressure Option</b> 60kpsi	<b>Max Pressure Options</b> 40k, 60k, 94kpsi	<b>Max Pressure Options</b> 100kpsi
<b>Typical Use</b> Large, multi-cutting station operations; large, multi-cutting station operations	<b>Typical Use</b> Fastest cutting; large, multi-cutting station operations	<b>Typical Use</b> Large, multi-cutting station operations; limited floor space, multiple jets	<b>Typical Use</b> Typical cutting	<b>Typical Use</b> Pasteurization, Hydroforming, Atomization



H50S, H50R, H100D