H2O Jet is a renowned, leading producer of ultra-high pressure pumps and parts with over **30 years of excellence**.

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 proven, US-based company, we have established ourselves as the leading brand for robotic systems and are trusted by prominent machine builders.

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

WHY CONSIDER AN H2O JET INTENSIFIER PUMP?

- 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, conserving energy.

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

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

AHB TOOLING & MACHINERY
COMPLETE METALWORKING SOLUTIONS
(800) 991-4225 www.ahbinc.com
ISO Certified customerservice@ahbinc.com

H2OJET

Advantage® EF

Extreme Flow (EF) Pumps

40,000 psi – 60,000 psi

HYDRAULIC INTENSIFIER PUMPS

MADE IN THE USA
Designed · Engineered · Built

H75S EF, H75R EF

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

HYDRAULIC SYSTEM

- Large hydraulic oil reservoir extends life and protects system components.
- Oil temperature sensors for system protection and alerts.
- Factory calibrated proportional pressure control system to ensure exact pressure.

INTENTIONAL & ERGONOMIC DESIGN

- Easy access to common maintenance areas.
- Soundproofing for quiet operation (75db).
- Easy access to pressure control on touchscreen.
- Intensifier is at an 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.
- Our standalone pumps with onboard PLCs enable seamless hookup to nearly any system.
- Energy efficient wye-delta motor starter is standard; soft start is an option.
- Operation tracking, stroke, & hour counting for maintenance recordkeeping (early maintenance warnings built in).
- Built-in stroke control minimizes the chance of synchronized stroking on ganged systems.
- Direct access to resources & manuals electronically.

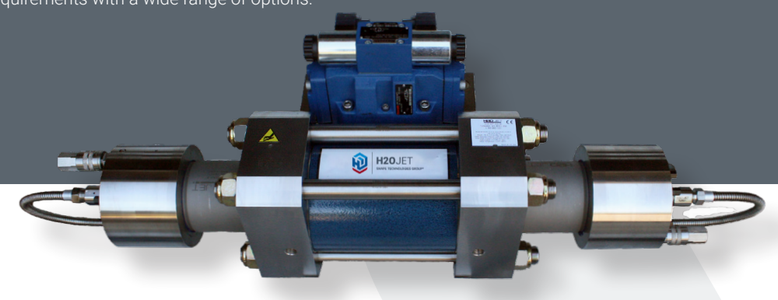
Advantage® Extreme Flow (EF) Pumps

Extreme Flow Advantage pumps have larger intensifiers for increased output from a single intensifier. These intensifiers deliver 1.5gpm (vs 1gpm from standard intensifiers) and are designed for operations where a larger supply of high pressure water is critical to plant output. Full-featured pump with all the benefits of the Advantage pump, available as a Single with one intensifier or as a Redundant, with 1 operating intensifier and 1 on stand-by. Ideal for uninterrupted supply of water – where waterjet is central to operations.

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, pressure monitoring sensors, plus efficient heat exchanger for optimal cooling, all combine for maximum pump and oil lifetime. **Experience predictable, smooth, and efficient operation.**

Did You Know? ABOUT H2O JET INTENSIFIERS

- 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.
- Made using latest designs and our own specialized production processes.
- The intensifiers are smaller, lighter, and easier to handle.
- The EF Intensifer is similar to the Standard intensifier. The parts are larger to accommodate increased hydraulic flow.



Powering Performance H2O Jet Intensifiers

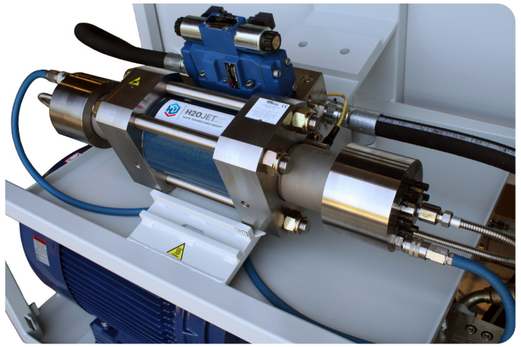
Our intensifiers offer effortless access and convenient offline replacement for maintenance. Meticulously crafted with advanced designs for check valves, hydraulic pistons, high-pressure cylinders, and 100% ceramic plungers, H2OJet intensifiers embody cutting-edge technology. Each unit achieves impressive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

Redundant vs Single vs Dual Intensifiers

A single intensifier is powered by a 75 HP motor; however, our expansive pump design accommodates two. This redundancy significantly reduces disruptions. Dual intensifiers are not an option for this model.

Attenuators

Our pumps incorporate large 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	H75S EF or H75R EF
Intensifiers	Single or Redundant
Max OP Pressure	60,000 psi (4150 bar)
Flow Rate	1.5 gpm (5.7 L/min)
Max Orifice Size	.017" (.431 mm)
Horsepower	75 hp (55.92kw)
Hydraulic Res Capacity	80 gal (302.8 L/min)
Cooling Water Flow	3-5 gpm (11.4-20 L/min)
Length	79" (201 cm)
Width	49" (124.5 cm)
Height	51" (129.5 cm)
Weight	3600 lb (1633 kg)