Jet Edge WATERJET SYSTEMS

HERO50+

INTENSIFIER PUMP

HIGH VELOCITY STREAM OF ULTRA HIGH PRESSURE WATER

The HERO 50+ Waterjet Intensifier Pump, with Jet Smart Controls takes the best of the HERO 50 and doubles down on UHP Intensifier pumps. With even more intuitive controls, the HERO 50+ can cut and trim a large array of materials including heat sensitive metals, delicate foams, and tough substances like granite and glass.

Jet Edge allows you to Custom Configure your Intensifier Pump to match your unique application with the best value. If you require an engineering analysis to proof your processing goals, visit our website and schedule a Free Application Analysis.

INTRODUCING JET SMART CONTROLS

JET SMART+

Jet Smart Controls provide real time feedback on pump performance with advanced maintenance scheduling. Set and monitor pump pressures from the interactive control pad. Receive service reminders or system issue warnings as they arise. Visualize intensifier cycles and easily access operational performance.

NOW, THAT'S JET SMART!

HERO 50+ AT A GLANCE:

- Rated pressure: 60,000 psi (4,100 bar)
- UHP flow rate: 1.1 gpm (4.1 lpm)
- Max rated orifice size 0.015 in (0.38 mm)
- Motor output: 50 hp (37 kw)

CONSTRUCTION

- Heavy-gauge sheet metal covers
- Rugged all-steel welded framework
- Hinged cover & quick-remove access covers
- Sound Insulating Kit

JET SMART+ CONTROLS

- Advanced Controls Touch Screen
- Maintenance schedules with prompts
- Remote monitoring
- Light stack beacon with audible warning
- Remote pump start
- Soft Start motor starter
- Dual pressure set points
- Electronic hydraulic pressure control
- Optional remote analog pressure control
- Check tube temp sensor
- Bleed Down temp sensor
- Auto leakage sensor

INTENSIFIER PUMP

- Rated pressure: 60,000 psi (4,100 bar)
- Single piston, dual plunger intensifier with tie rod design
- Single, 1 quart (0.9 liters) attenuator
- Incoming water control
- UHP flow rate: 1.1 gpm (4.1 lpm)
- Optional redundant intensifier
- Optional boost pump

ELECTRIC MOTOR

- Motor output: 50 hp (37 kw)
- TEFC NEMA premium efficiency motor
- Full load amps @ 460vac: (60Hz) 62
- Full load amps @ 230vac: (60Hz) 122

WATER/ENVIRONMENT

- Low-pressure process water supply requirement: 1.1 gpm (4.1 lpm) @ 30 psi (2 bar) min.
- Max water temp: 70°F (21°C)
- Ambient air temperature: 50–100°F (10–37°C)

HYDRAULICS

- Axial piston, variable displacement, pressure-compensated hydraulic pump
- Thermostatically-controlled cooling loop (requires additional water supply)
- Hydraulic accumulator prolongs component life and improves output quality
- Reservoir capacity: 35 gallons (132 liters)

WARRANTY

- 1-year or 2,000-hour warranty
- 2-year or 4,000-hour hydraulic circuit warranty
- Extended Warranty Available
- Lifetime factory product training

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MADE IN USA

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A HERO DOESN'T LET YOU DOWN

PERFORMANCE YOU CAN COUNT ON EVERY SINGLE DAY

PUMPS	PRESSURE RATING	ELECTRIC MOTOR	STANDARD FEATURES	OPTIONS	INTENSIFIER	OUTPUT	DIMENSIONS
HERO50	60,000 psi (4,100 bar)	50 hp (37 kw)	Jet Smart Controls Remote pump start Wye-Delta motor starter Dual pressure set points Manual pressure control Leakage water collector	Soft Start motor starter Redundant intensifier Boost Pump	Single intensifier 1 quart (0.9 liters) Attenuator	UHP flow rate: 1.1 gpm (4.1 lpm) Max orifice: 0.015 in (0.38 mm)	Length: 73 in Width: 34 in Height: 53 in Approx weight with fluids: 2,800 lbs
HERO50+	60,000 psi (4,100 bar)	50 hp (37 kw)	Jet Smart+ Controls Remote monitoring Light stack beacon with audible warning Remote pump start Soft Start motor starter Electronic hydraulic pressure control Check Tube sensors Bleed Down sensor Auto leakage sensor	Remote analog pressure control Redundant intensifier Boost Pump	Single intensifier 1 quart (0.9 liters) Attenuator	UHP flow rate: 1.1 gpm (4.1 lpm) Max orifice: 0.015 in (0.38 mm)	Length: 73 in Width: 34 in Height: 61 in Approx weight with fluids: 2,800 lbs
HERO100	60,000 psi (4,100 bar)	100 hp (75 kw)	Jet Smart Controls Remote pump start Wye-Delta motor starter Dual pressure set points Manual pressure control Leakage water collector	Soft Start motor starter Redundant intensifier Boost Pump	Dual intensifiers 2 quart (1.9 liters) Attenuator	UHP flow rate: 2.1 gpm (7.9 lpm) Max orifice: 0.021 in (0.53 mm)	Length: 84 in Width: 42 in Height: 55 in Approx weight with fluids: 4,600 lbs
HERO100+	60,000 psi (4,100 bar)	100 hp (75 kw)	Jet Smart+ Controls Remote monitoring Light stack beacon with audible warning Remote pump start Soft Start motor starter Electronic hydraulic pressure control Check Tube sensors Bleed Down sensor Auto leakage sensor	Remote analog pressure control Redundant intensifier Boost Pump	Dual intensifiers 2 quart (1.9 liters) Attenuator	UHP flow rate: 2.1 gpm (7.9 lpm) Max orifice: 0.021 in (0.53 mm)	Length: 84 in Width: 42 in Height: 63 in Approx weight with fluids: 4,600 lbs
HERO150	60,000 psi (4,100 bar)	150 hp (112 kw)	Jet Smart Controls Remote pump start Wye-Delta motor starter Dual pressure set points Manual pressure control Leakage water collector Boost Pump	Soft Start motor starter	Dual intensifiers 2 quart (1.9 liters) Attenuator	UHP flow rate: 3.2 gpm (12.1 lpm) Max orifice: 0.025 in (0.64 mm)	Length: 91 in Width: 56 in Height: 58 in Approx weight with fluids: 6,800 lbs
HERO150+	60,000 psi (4,100 bar)	150 hp (112 kw)	Jet Smart+ Controls Remote monitoring Light stack beacon with audible warning Remote pump start Soft Start motor starter Electronic hydraulic pressure control Check Tube sensors Bleed Down sensor Boost Pump Auto leakage sensor	Remote analog pressure control	Dual intensifiers 2 quart (1.9 liters) Attenuator	UHP flow rate: 3.2 gpm (12.1 lpm) Max orifice: 0.025 in (0.64 mm)	Length: 91 in Width: 56 in Height: 66 in Approx weight with fluids: 6,800 lbs

READY TO BUILD YOUR MACHINE?

Contact a Jet Edge sales partner for your FREE engineering analysis. Whether you're cutting with water only or running a 24/7 operation with multiple abrasive jets, we can find the perfect pump for your application—even if that means a custom creation.

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