



Flow



SURFACE PREPARATION

INNOVATION | EXPERTISE | COMMITMENT **GLOBAL PRESENCE**

Flow's global presence means you get the attention you deserve, regardless of your location. We have facilities spanning the continents, with specialized training and technical services. With coverage like that, you can rest assured that your waterjet needs will be addressed, whenever you need it, wherever you are.

FLOW — YOUR GLOBAL WATERJET SOLUTION.



BENEFITS OF ULTRAHIGH-PRESSURE WATERJETTING

Acclaimed for its speed and versatility, ultrahigh-pressure (UHP) waterjetting technology is quickly becoming the surface preparation industry's standard for coatings removal. The reason? Simply stated, UHP waterjetting prepares a superior surface faster, and at less cost. The first 40,000 psi waterjetting pump was developed as a direct result of Flow's dedication to innovate the newest waterjet technologies for surface preparation. Now, Flow offers 55,000 psi pumps, the highest operating pressure available. Our enthusiasm to produce the best ultrahigh-pressure waterjetting equipment has continued to rapidly evolve as the surface preparation industry has continued to grow. Today, we offer a wide range of surface preparation equipment that will improve your productivity and profitability.

OPERATIONS THAT EMPLOY UHP WATERJETTING ENJOY:

LOWER COSTS THAN GRIT BLASTING

Because only pure water is used to remove coatings with Flow equipment, waterjetting costs less than grit blasting by eliminating the need for collection, containment, and disposal of abrasive. High productivity and no cleanup means you can focus purely on your job's success.

REDUCED OVERALL PROJECT TIME

Removal of coatings with water instead of grit allows for other work to be completed during waterjet operation. Steel, mechanical, and electrical work, or even painting, can be performed concurrently with waterjet surface preparation, which means projects are completed in less time.

PRODUCES A CLEANER SURFACE

A cleaner surface means reapplied coatings will last longer. Flow equipment removes coatings and leaves a near white metal surface with the original profile intact. Also, corrosion products are removed deep into the pits and leave your surface with a much lower level of residual chlorides than when produced with abrasive blasting.





WHAT MAKES FLOW WATERJETTING EQUIPMENT SUPERIOR?

It's simple. Expertise.

Flow has the expertise to back up our forward looking technology. Not only that, we are genuinely committed to our customer's success. Flow was the first to offer 40,000 psi pumps for surface preparation use in the field in 1993. These well proven pumps are still available today, with many updated features. We established the standard for pumps and we have continued to introduce new industry-shaping equipment, all in order to supply you with a more profitable product. And, our commitment to product development is ever strengthening. Flow continues to raise the operating pressure in the field, we offer a 55,000 psi pump, the highest operating pressure available! What's the benefit to you? Higher operating pressures offer higher productivity.

Flow pumps have unique features that are specifically fashioned to meet the demanding needs of the surface preparation industry. Designed with you in mind, our pumps are field proven day in and day out, around the world. Flow waterjetting equipment combines years of intense surface preparation analysis and pump expertise that you can count on. The superior choice is clear — the choice is Flow.

Flow's technicians have experience in all aspects of the coating process, removal, inspection applications, and more. In fact, many of our technicians are even N.A.C.E. (National Association of Corrosion Engineers) certified. We do more than just train you how to operate and maintain your equipment. We help you grow your business through educational consultations on what will work best for your application. Our expertise will help you complete your jobs in the most productive manner, with the leading edge equipment.



CLEAN GREEN

Flow UHP waterjetting removes coatings in an environmentally friendly manner. Environmental compliance is an area of coating removal that is increasingly gaining more attention. Stipulations for eco-friendly surface preparation are becoming more and more stringent to protect our planet.

AT FLOW, WE ARE DOING OUR PART.

Ultrahigh-pressure waterjetting is the environmental choice for cleaning and surface preparation. Traditional alternatives, such as grit blasting, are considered detrimental to the environment, and in turn cause extra work to contain the damaging coating substances removed. Flow waterjets allow for 100% collection of removed coatings, saving you time and money, as well as put you in compliance with new environmental provisions. Some of our systems leave absolutely nothing in the air or ground to clean up. Since only pure water is used, you won't have any grit to contain and dispose on your end. Also, little to no masking or tarping is required to protect sensitive equipment such as motors and bearings. If paint solids are removed, they are conveniently contained in easily disposable bags. All of the removed coatings are transported to a filter bag, where paint solids and corrosion are filtered out and contained in easy haul-away bags. The filtered water can usually be drained into a sewer, or even to the level of recycling back into your system.

FLOW WATERJETTING MAKES YOUR ENVIRONMENTAL EFFORT EASIER!



WATERJETTING PUMPS

FLOW PUMPS HAVE UNIQUE FEATURES SPECIFICALLY DESIGNED TO MEET THE DEMANDING NEEDS OF THE SURFACE PREPARATION INDUSTRY.

Flow manufactures the most complete range of ultrahigh-pressure waterjet pumps in the industry. Each pump is built with precision parts, assembled to the most stringent specifications, rigorously tested for quality and performance, and supported by the largest factory direct service network in the industry. With more equipment and experience in the field than all other UHP manufacturers combined, Flow will give you the confidence you need from a

manufacturer. With our pumps you can run multiple tools with uninterrupted pressure, at higher pressures than any other pump available, increasing your productivity! Flow pumps are built to last and offer the lowest cost of operation. Advanced materials such as ceramic plungers prolong component life under harsh conditions, and

simple to replace cartridges make field maintenance easy and quick.

DIESEL HUSKY

The Husky pump is the industry standard for portable ultrahigh-pressure surface preparation and industrial cleaning. At 55,000 psi, it provides you the highest pressure on the market to maximize your productivity. This pump is also available at 40,000 psi. Both pumps can deliver flow rates up to 6.5 gallons per minute (gpm) and drive multiple tools with uninterrupted flow and pressure.

SPECIFICATIONS:

HIGH-PRESSURE PUMP	Triplex, direct drive, external pressure compensation, liquid cooling system
MAXIMUM CONTINUOUS OPERATION	55,000 psi, 6.5 gpm, 290 hp 40,000 psi, 6.5 gpm, 205 hp
WATER FILTRATION	10 micron absolute
WEIGHT (without fuel tank)	5,575 lbs
MOUNTING TYPE	Skid, or optional trailer mount
ENGINE	Caterpillar C-9, 2,100 rpm continuous duty, 6-cylinder, turbo-charged





ELECTRIC HUSKY | SHIPYARDER VERSION

Flow also offers an optional configuration for Electric Husky that combines the pump and motor starter within one framework so that it can be easily moved about in your shipyard or jobsite. This sturdy frame adds a degree of protection for the pump and offers single point lifting so that entire package can be moved easily.

ELECTRIC HUSKY | E-40 PUMP

The electric Husky is the most powerful and durable UHP pump on the market. It is ideal for the marine industry and other stationary surface preparation applications — from handheld industrial cleaning and surface preparation jobs, to robotic cleaning installations in enclosed factory settings. Only the Husky can deliver 40,000 psi continuous flow rates up to 5.6 gpm.

SPECIFICATIONS:

HIGH-PRESSURE PUMP	Triplex, direct drive, external pressure compensation, liquid cooling system
MAXIMUM CONTINUOUS OPERATION	40,000 psi, 5.6 gpm, @ 1,750 rpm
WATER FILTRATION	10 micron absolute
WEIGHT (without fuel tank)	4,500 lbs
MOUNTING TYPE	Skid, or optional shipyarder package
ELECTRIC MOTOR	Reliance, 150 hp continuous duty

DIESEL EAGLE

The Diesel Eagle maximizes productivity, and your profits, by providing the highest pressure of any waterjet pump in the world. It's 45,000 psi comes from a compact, self-contained unit that is powerful enough for the toughest surface prep projects. The Diesel Eagle is easy to transport, easy to use, and attaches quickly to water.

SPECIFICATIONS:

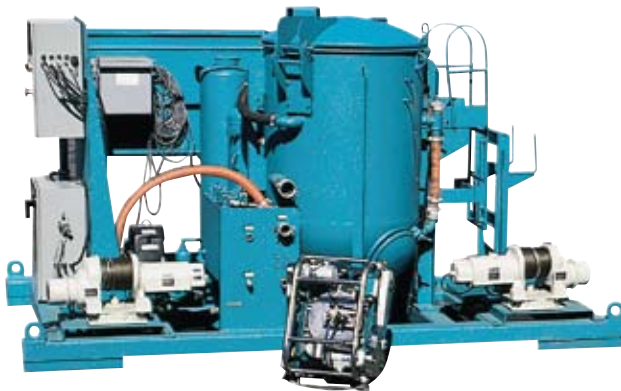
HIGH-PRESSURE PUMP	Triplex, direct drive, external pressure compensation, liquid cooling system
MAXIMUM CONTINUOUS OPERATION	45,000 psi, 2.5 gpm
WEIGHT (without fuel tank)	3,700 lbs
MOUNTING TYPE	Skid, or optional trailer mount
ENGINE	4 Cylinder, 100 hp turbocharged





ACCESSORIES

Flow offers the most robust accessories and nozzles for your waterjetting needs, giving you the competitive advantage. Our accessories are unmatched in the field for overall job productivity and reliability — the lightest lances, the most efficient nozzles, the highest nozzle rotating speeds, and more! Coupled with Flow pumps and service, your surface preparation ventures are certain to thrive.



HYDROCAT

Flow's revolutionary HydroCat adapts to any common surface preparation project, including overhead surfaces such as the bottom of ships, or vertical and horizontal surfaces such as tanks. Because it is omni-directional, the HydroCat is highly maneuverable and works easily around obstructions such as keel blocks and cribbing. It can be used for full or partial coating removal.

Our HydroCat is simply the fastest way to remove coatings in marine and industrial applications. Painting and stripping can be performed simultaneously. As Flow's waterjetting operations require no containment, painters and other trades can work side-by-side so you can complete your jobs more quickly! This system is equipped with FlowVac™, a powerful vacuum that securely attaches the HydroCat to the work surface, and removes 100% of the water, removed coatings, and corrosion for easy collection! YES, 100%. You have no clean up in the air or the ground. Once collected, paint solids are contained in disposable filters for easy haul away, and the filtered water that remains can usually be drained to a sewer, or even recycled back into your system.

Flow's HydroCat is the best solution for removing coatings from a variety of surfaces including metal and concrete. It is ideally suited for surface preparation applications in industries such as: shipyards, painting contractors, tank farms, shipbuilders, petrochemical.

You can run the HydroCat with a single operator, making your jobs undemanding, and easy to complete. With Flow's HydroCat, you will reduce your overall project cost, and improve your productivity!

SPECIFICATIONS:

ROBOT	Cleaning path: 12 inch Steering: Omni-directional, joystick Pump: Diesel HUSKY, 40,000 psi, 6.5 gpm or Electric HUSKY, 40,000 psi, 5.6 gpm Cleaning Head: 8-Jet UHP cleaning head with Hornet nozzles Attachment: Patented Suction Seal
FLOWVAC	Function: Provides vacuum attachment and collection Size: 156 x 86 x 86 inches Weight: 7,500 lbs Blower: Roots P.D. blower Filter: Bag size 1 cubic yard with easy lift straps
WEIGHT	500 lbs

DECKHOG

Flow's DeckHog is a mobile and highly maneuverable surface preparation tool that will help you better complete difficult cleaning projects. This waterjetting accessory attaches to a Husky pump and can reach under clearances as low as 15.5 inches. It's simple to operate, and it's compact in size. And, the head is detachable, making this practical piece of equipment easy to transport.

SPECIFICATIONS:

CLEANING PATH	8 inch (approximately)
PUMP	HUSKY 40,000 PSI, 6.5 GPM
ROTATION SPEED	3,000 rpm maximum rotation speed
CLEANING JETS	8-Jet cleaning nozzle with patented Hornet nozzles
WEIGHT	85 lbs



DECKHOG PLUS VACUUM

Flow also offers the DeckHog plus Vacuum. This option is similar in nature to standard Deckhog, however, the Deckhog plus Vacuum utilizes a brush seal coupled to a vacuum to capture nearly all the water and removed coatings leaving your surface nearly dry and ready to paint. You can eliminate runoff water and minimize containment, making environmental compliance easy.

SPECIFICATIONS:

CLEANING PATH	8 inch (approximately)
PUMP	HUSKY 40,000 PSI, 6.5 GPM
ROTATION SPEED	3,000 rpm maximum rotation speed
CLEANING JETS	8-Jet cleaning nozzle with patented Hornet nozzles
WEIGHT	85 lbs
VACUUM SEAL	Flexible brush



ACCESSORIES

A-3000 HIGH RPM, LIGHTWEIGHT HANDTOOL

Flow's A-3000's high rotation speed makes it the ideal tool to remove the toughest coatings, including epoxies, resins, paint, rust, scale, calcium deposits and oxides. And because it is air-powered, the A-3000 is easily operated from any compressed air supply, allowing you more in more areas.

With its unmatched productivity and low water volumes, Flow's A-3000 is an environmentally-sensible alternative to grit blasting, burning and chemical removal. Our A-3000's light weight reduces your operating fatigue so you can work longer and more safely.

SPECIFICATIONS:

TOOL WEIGHT	11 lbs
MAXIMUM OPERATING PRESSURE	45,000 psi
AIR REQUIRED	32 scfm @ 90 psi
WORKING ROTATION SPEED	3,000 rpm
MOTOR HORSEPOWER	0.7 hp



TOMCAT

Designed for ultra-fast coating removal and surface preparation with maximum operator safety. The TomCat is a hand-held tool for vertical surface preparation, specifically designed for safe and efficient vertical surface preparation. It consumes very little water while generating high productivity. Your waste water, vapor, and removed coatings are transported to a remote storage tank. The vacuum unit can be supplied by the customer or as an option provided by Flow.

SPECIFICATIONS:

OVERALL DIMENSIONS	360 h x 330 w x 320 h (in mm) (14.2" h x 13.0" w x 12.6" h)
MAXIMUM OPERATION PRESSURE	Up to 2,760 bar (55,000 psi)
MAXIMUM FLOW RATE	22.7 lpm (6.0 gpm)
MAXIMUM ROTATION SPEED	3,000 rpm
NUMBER OF JETS	4 jets (Hornet)
CLEANING PATH WIDTH	120 mm (4.72")
HORSEPOWER	0.43 kw (0.6 hp)
WEIGHT	11.8 kg (26 lbs)

NOZZLES

Flow offers a line of accessories and nozzles that are unmatched for overall job productivity and reliability — the lightest lances, the most efficient nozzles, and the highest nozzle rotating speeds.



5-JET NOZZLE

This nozzle is the most widely used nozzle for coating removal. The 5-jet nozzle works perfectly for removing marine and industrial coatings. You can run two lances off one Husky pump while cleaning a 3 inch wide strip with each pass. The 5-jet can also be used for light concrete scarification where either the coating is removed from the concrete or the concrete itself needs to be lightly scarred.



4-JET NOZZLE

The 4-jet nozzle is used for removal of tough coatings when your nozzle requires extra cutting power. Typical uses are removing rubber tank linings or thick fiberglass coatings. This nozzle can also be used for light concrete removal.



9-JET NOZZLE

Use this tip for two applications. First, for very light coatings that do not take the concentrated energy of a 5-jet nozzle, the 9-jet allows you to remove coatings faster because it cleans a much wider path with each pass. Second, the 9-jet works very well for sweeping work where only a layer of paint needs to be removed.



2-JET NOZZLE

Used for extremely hard to remove coatings, the 2-jet nozzle is the most powerful nozzle offered. It is typically used on very thick build ups in petrochemical plants, deep concrete removal or very hard thick polymers or rubbers



5-JET 90 DEGREE

This nozzle has ports firing to the sides and is used to clean the blind sides of structural angles where a regular nozzle cannot reach.



5-JET FAN JET

This nozzle works exceptionally well for removing one layer of coating at a time or for sweeping when a failed coating is to be removed.



WATERJET ROAD STRIPE REMOVAL SYSTEMS

Flow's 55,000 psi ultrahigh-pressure technology increases your productivity and improves your bottom line. Higher pressure means increased stripe removal rates. Additionally, you can count on low water consumption rates of only 6 ½ gpm, allowing less downtime for water replenishment. As a result, you are able to remove road markings at a remarkable pace. In fact, stripe removal rates for your truck or robot can increase up to 300% as compared to 40,000 psi equipment using a similar flow rate.

FAN JETS — MORE EFFICIENT STRIPE REMOVAL

Higher pressure does not come at a detriment to the surface you are maintaining. Flow's patented 55,000 psi Fanjet nozzles can quickly and efficiently remove road markings without damaging the underlying surface. Our time proven 3,000 rpm head assembly provides the highest nozzle rotational speed in the industry, ensuring rapid road stripe removal. Full conversions for existing lower pressure systems are available for single or dual head assemblies.



EXPERTISE YOU CAN COUNT ON

AT FLOW, WE BELIEVE EXPERTISE DEVELOPS FROM FOCUS. That's why we, unlike many of our competitors, focus solely on the delivery of high quality waterjet systems and applications expertise. We manufacture every critical part, build every pump, and engineer all the software that controls our systems. We know and support what we sell, because we have designed and built each system piece by piece.

OUR EXPERTISE AND RELENTLESS FOCUS ON QUALITY SHOWS IN EVERYTHING WE DO:

OUR RELIABLE SYSTEMS

Our waterjet pumps set the industry standard for performance and reliability. Flow pumps provide continuous operation at the pressure they are rated, with no backing off or hedging. In fact, some of our pumps have been in continuous operation for over 20 years. That's because they're built with precision parts, assembled to the most precise specifications, rigorously tested for quality and performance, and supported by the largest factory trained service network in the industry.

OUR SAFETY RECORD

Along with functionality and reliability, Flow designs all its components with your safety in mind. Using predictive modeling and prototype testing, our engineers build systems to meet the industry's strictest safety standards. In fact, Flow is the only American Society of Mechanical Engineers (ASME) certified waterjet vendor in the marketplace, and our systems meet or exceed all applicable USDA and TUV standards. Not only does Flow abide by ASME pressure codes, Flow engineers and scientists actually help create them. We understand that poorly manufactured parts and components put your employees and your business at risk. That's why we put safety first in everything we do.

OUR CUSTOMER FOCUS

At Flow, our customers' success is paramount. We're not just interested in supplying you with a waterjet solution — we are committed to providing innovation, expertise, and the support necessary to grow your business. We take the time to understand your specific requirements and recommend a waterjet system that best meets your needs. Our sales and technical staff are well versed in all aspects of coating removals, and many even have National Association of Corrosion Engineers (N.A.C.E.) certifications. Let our expertise help you select the proper equipment for your application, and ensure your success with consultative advice on how to complete jobs successfully. Our customers are the root of our focus — and we pride ourselves on taking care of our greatest asset — you.



COMMITTED TO YOUR SUCCESS

Flow has over three decades of experience assisting customers in making the right choice for their waterjet solutions. We don't believe service stops with a sale. Our expert staff is available to help you with everything from project management to technical support.

OUR CUSTOMER SUPPORT NETWORK INCLUDES:

COMPLIMENTARY NEEDS ANALYSIS. At Flow, we don't rush a sale. We take the time to understand your application so we can identify the best waterjet system to meet your needs. With the most extensive product offerings in the business, we're confident we can deliver exactly the right products and services to achieve your success.

DEDICATED PROJECT MANAGER. You will be assigned a dedicated Project Manager who will walk you through facility set-up, system delivery, installation, and training. If your needs change after you have selected a waterjet system, they will modify your order. If you have any questions, your Project Manager is just a phone call away.

HANDS-ON TRAINING. Our courses train you on part programming, system maintenance, and application techniques — everything you need to know to obtain the very highest return from your investment.

LARGEST, BEST-TRAINED SUPPORT TEAM IN THE INDUSTRY. We are dedicated to your success and are here for you 24 hours a day, 7 days a week. Our Field Service Engineers are factory trained and some even have N.A.C.E. certifications, and specialize exclusively in Flow waterjets. Flow's service team is always available to provide you with expert help over the phone or at your place of business. Also, to ensure your success, customers frequently receive two courtesy visits per year to audit your system and give additional maintenance and applications training.

QUALITY FLOW SPARE PARTS. Flow maintains the largest selection of spare parts built to our exacting quality standards to ensure optimal performance of your system. You can order parts at your convenience on FlowParts.com or by calling our Customer Service Center. Our goal is to ship all spare parts the same day you place your order. We also monitor your part usage to help prevent downtime and ensure maximum performance and profitability.

When you purchase a waterjet system from Flow, you get more than leading edge equipment. You get the largest and best-trained support network in the industry available at your convenience.

OUR NUMBER ONE GOAL IS TO ENSURE YOUR COMPLETE SUCCESS WITH A FLOW WATERJET SYSTEM.





INNOVATION | EXPERTISE | COMMITMENT

■ GET IT ALL WITH FLOW

For over three decades, Flow has set the standard for excellence in waterjet technology. We are the only waterjet company in the world that offers total solutions and support from a single source, both before and after your waterjet system is installed. We learn your business requirements. We help you select and implement the right solution. We train your staff and are there for you for the entire lifecycle of our products.

■ WHEN YOU PARTNER WITH FLOW, YOU GET MORE THAN A PRODUCT:

- Our **INNOVATION** ensures that you will always have the latest and highest quality technology.
- Our **EXPERTISE** ensures that you will always have the right technology for your individual business needs.
- Our **COMMITMENT** to customer service ensures that you will always receive the support you need to stay productive.

For your complimentary needs analysis or a product demonstration, please call one of our waterjet experts at **1-800-446-3569**.

■ WE LOOK FORWARD TO PARTNERING WITH YOU IN YOUR SUCCESS.



INNOVATION | EXPERTISE | COMMITMENT



**UNITED STATES, CANADA, MEXICO, CARIBBEAN,
AUSTRALIA, & NEW ZEALAND**
Flow International Corporation
23500 64th Avenue South, Kent, Washington 98032 USA
Tel: 253-850-3500 • Fax: 253-813-3285
TOLL-FREE: 800-446-3569 • info@flowcorp.com
www.flowcorp.com

CENTRAL AMERICA & SOUTH AMERICA
Flow Waterjet Americas • Tel: +55-11-3616-2822
flowlatino@flowlatino.com • www.flowlatino.com

EUROPE, MIDDLE EAST, & AFRICA
Flow Waterjet Europe • Tel: +49-7252-538-0
info@floweurope.com • www.floweurope.com

TAIWAN, CHINA, KOREA, & SOUTHEAST ASIA
Flow Waterjet Asia • Tel: +886-3-577-2102
inquiry@flowasia.com.tw • www.flowasia.com

JAPAN
Flow Waterjet Asia • Tel: +81-52-701-7021
fjc@flowjapan.co.jp • www.flowasia.com

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