

WATER JET SOLUTIONS FOR SURFACE PREPARATION



Water Jet Solutions for Surface Preparation

Productivity that will pay for itself

It's easy to see why so many surface preparation contractors are switching to Blastmaster water jetting these days. It's simply the most productive, economical way to achieve the surface you need for good coating adhesion, while fully respecting the environment.

FEATURES

- HydroPrep™ System
- Proven Accessories
- UHP Pump Units
- Vacuum Systems

PRODUCTIVITY THAT WILL PAY FOR IT SELF



Blastmaster water jetting quickly removes coatings, rust, and other tough adherents without the hazards of grit blasting. The resulting surface meets or exceeds all recognized standards (including the WJ-1 or "white metal" specification of NACE No. 5 and SSPCSP- 12, and SIS Sa 3).

Water jetting is also the only way to meet the SC-2 standard for removing soluble salts, which hamper adhesion and often lead to coating failure. During grit blasting, these salts are often trapped in cavities within the metal. But ultra-high pressure

(up to 40,000 psi, or 2,800 bar) water jetting cleans deeply enough to prevent these invisible "corrosion cells" from forming, and even restores the surface's original profile (see inset).

Today this power is readily available – for manual or automated surface preparation – with Blastmaster's standard setting HydroPrep™ system.

And for applications that don't demand ultrahigh pressure, our 5,000 to 20,000 psi (350 to 1,400 bar) pumps and accessories are every bit as productive and reliable.

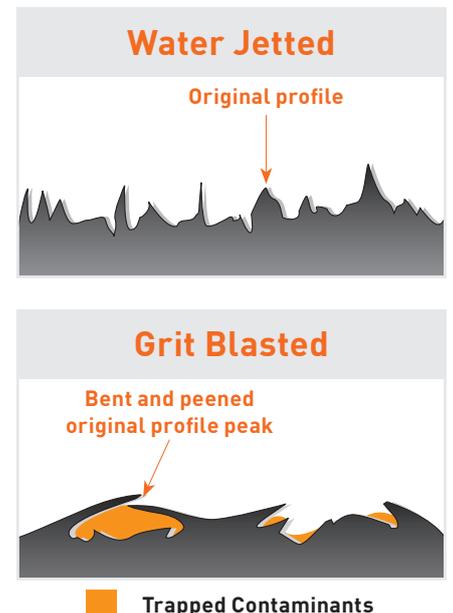
Blastmaster's HydroPrep™ system gives you the productivity of grit blasting without the expense, hazards and clean-up problems. Its vacuum recovery feature not only simplifies disposal, but leaves a clean, dry surface – free of flash rusting and ready to recoat. For details and specifications, please read on.



Water jetting is ideal for preparing ships, tanks and other large surfaces.



The Water Crawler in action on a concrete surface (left) and the comparison between a treated and untreated surface (right).



HYDROPREP™ SYSTEM



When your project involves large, vertical surfaces, you need Blastmaster's versatile HydroPrep™ system. It features a rugged ULTRA-CLEAN® pump unit and vacuum recovery of wastewater and debris, plus the specific accessories you need for manual or automated work.

CRAWLER

For tall surfaces, such as tanks and ship hulls, the automated SRT-10-W Crawler is your most productive choice. "Driven" from a wireless remote operator pendant, it moves up, down and sideways while patented SPIN JET® nozzles strip away epoxies and other coatings.

The Crawler's manoeuvrability comes from its unique pivoting design, which allows the drive to rotate around the SPIN JET® seal without snarling the hoses.

A vacuum system lets the Crawler grip the surface (even over welds) as well as recover debris and waste water. A winch skid assembly and locking pulleys act as a fall arrest system.

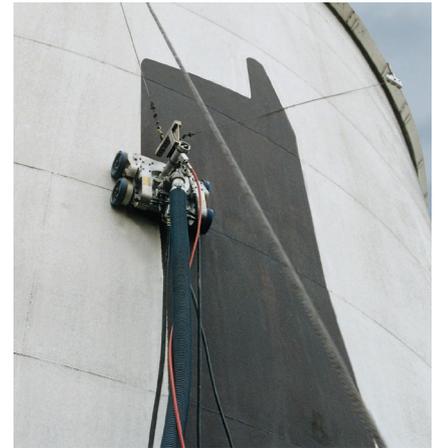
VERTAJET™

Handheld VertaJet™ units are ideal for smaller jobs, especially working around corners, overhangs, rivets, or other obstructions. The two compact, lightweight models have rotating SPIN JET® nozzles that create a 6" (15 cm) cleaning path.

The SRT-6 has adjustable rotation speed — especially helpful on soft substrates, like concrete — and a counterbalancing system to minimize operator fatigue. The SRT-6LT weighs just 20 lbs. (9 kg), with ergonomic handles and a self-rotating nozzle block that rotates at 3,000 rpm. It is ideal for removing coatings from steel structures.



SRT-10-W Wireless Controller



SRT-10-W Crawler



VertaJet™ SRT-6

HydroPrep™ Product Range

Accessory	Max Pressure	Max Flow	Air Requirement	Vacuum Requirement	Vacuum Attachment
SRT-10-W Crawler	40,000 psi (2,800 bar)	10 gpm (37.8 lpm)	70 scfm @ 100 psi (33 l/s @ 6.9 bar)	500 cfm @ 24" Hg (850 m3/hr @ 24" Hg)	4" (10.2 cm)
SRT-6 VertaJet™	40,000 psi (2,800 bar)	6 gpm (23 lpm)	20 scfm @ 90 psi (9.4 l/s @ 6 bar)	90-300 cfm @ 3" Hg max. (153-510 m3/hr @ 3" Hg max.)	3" (7.6 cm)
SRT-6LT VertaJet™	40,000 psi (2,800 bar)	6 gpm (23 lpm)	1 scfm @ 90 psi (2.12 l/s @ 6 bar)	200-300 cfm @ 6" Hg max. (340-510 m3/hr @ 6" Hg max.)	3" (7.6 cm)

PROVEN ACCESSORIES

Contractors depend on Blastmaster for innovative water jet accessories that stand up to the toughest operating conditions. Some of our surface preparation accessories are highlighted here.

VORTEX™ FLOOR AND DECK CLEANERS

Blastmaster's SPIN JET® units, the standard-setters for stripping floors, decks and grates, are as manoeuvre able as they are powerful. The 36-9900-15A* is made of light weight aluminium, with an adjust able handle to maximize operator comfort. The Vortex™ 36-9950-15A adds vacuum recovery.



**Vortex™
36-9950-15A**

NCG8450A-3 ROTATING LANCE

Blastmaster's NCG8450A-3 Rotating Lance produces a powerful ultra-high pressure jetting spray. Weighing just 16 lbs. (7.3 kg), it features dual triggers to minimize accidental actuation. A variety of heads are available, to suit many applications.



**NLB8488 BiMode™ valve (top)
and NCG8450A-3 lance**

NLB8488 BI-MODE™ VALVE

The Bi-Mode™ Valve lets you switch from single to dual-lance operation with a simple nozzle change, and "dumps" pressure should your compressed air supply fail. It works with the VertaJet™, Crawler, and rotating lances.

SHIP BOTTOM CLEANER

The self-propelled SBC36-8300- 15A is ideal for removing paint and coatings from ship bottoms and other overhead surfaces. It is pneumatically operated, with handle-mounted controls.



**Ship Bottom Cleaner
SBC36-8300-15A**

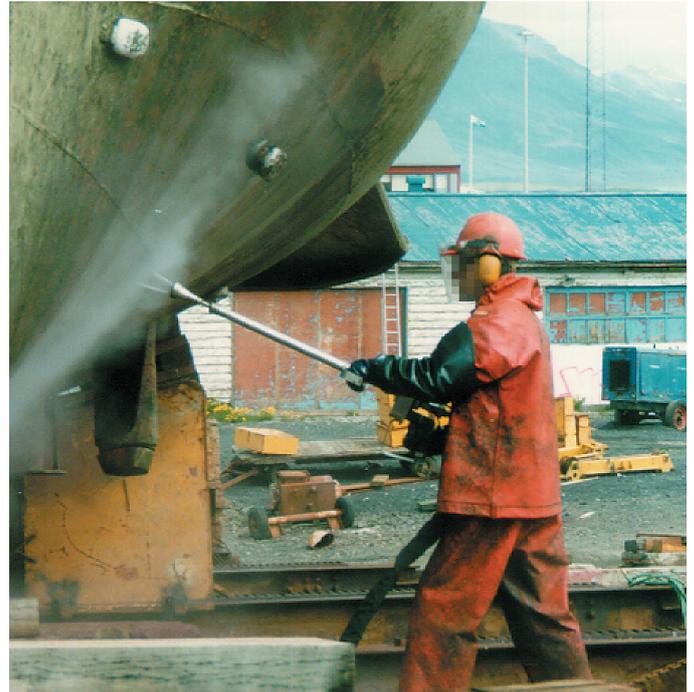
Accessory Range

Accessory	Max Pressure	Max Flow	Air Requirement	Vacuum Requirement	Vacuum Attachment
36-9900-15A	40,000 psi (2,800 bar)	11 gpm (42 lpm)	50 scfm @ 65 psi (23.6 l/s @ 4.5bar)	N/A	N/A
Vortex™ 36-9950-15A	40,000 psi (2,800 bar)	11 gpm (42 lpm)	50 scfm @ 65 psi (23.6 l/s @ 4.5bar)	1,500 cfm @ 1" Hg max. (2,550 m3/hr @ 1" Hg max.)	4" (10.2 cm)
NCG8450A-3	40,000 psi (2,800 bar)	10 gpm (38 lpm)	22 scfm @ 90 psi (10.4 l/s @ 6 bar)	N/A	N/A
NLB8488	40,000 psi (2,800 bar)	10 gpm (38 lpm)	10 scfm @ 90 psi (4.7 l/s @ 6 bar)	N/A	N/A
SBC36-8300-15A	40,000 psi (2,800 bar)	6 gpm (23 lpm)	70 scfm @ 90 psi (33 l/s @ 6.9 bar)	1,500 cfm @ 1" Hg max. (2,550 m3/hr @ 1" Hg max.)	4" (10.2 cm)

WATER JET VS GRIT

When you consider all the factors, Blastmaster's HydroPrep™ system consistently outperforms grit blasting. In addition to achieving a quality surface, water jetting:

- significantly simplifies clean-up and disposal **(see chart)**;
- minimizes operating and maintenance costs;
- can be performed nearly anywhere;
- drastically reduces airborne pollutants **(see table)**;
- removes invisible contaminants (e.g. entrapped chlorides);
- is virtually dust-free, so won't damage nearby equipment;
- operates at lower sound levels;
- uses only a few gallons of water (usually recycled);
- requires minimal training.

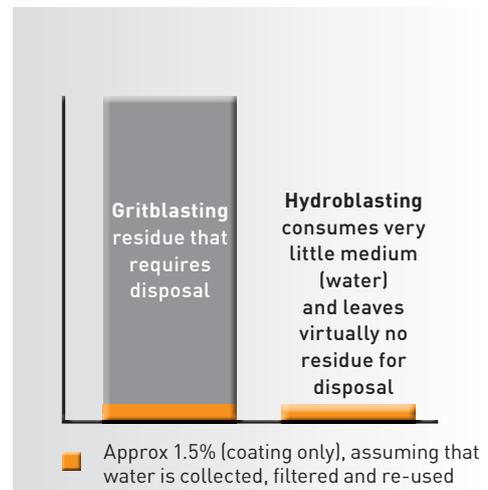


Hand lancing brings the benefits of water jetting to hard-to-reach areas.

WHICH PRESSURE?

Blastmaster water jet equipment is available in a wide range of pressures to suit your application. You should match pressure to the task as follows (general guidelines only; please call Blastmaster for specific advice):

- To remove loose, flaking paint or build-ups of grease or oil – 5,000 to 10,000 psi (350 to 700 bar);
- To remove rust blisters and flaking paint without disturbing tightly bonded paint – 10,000 to 20,000 psi (700 to 1,400 bar);
- For complete removal, down to bare metal – ultra-high pressure, or 20,000 to 40,000 psi (1,400 to 2,800 bar).



Airborne Pollutants Table*

Method	Micrograms of Lead per Cubic Metre
Low-Volume Slurry Blasting	5
High-Pressure Water Jetting: 20,000 to 40,000 psi (1,400 to 2,800 bar)	8
Hand and Powered Tool Cleaning	680
Containment with Recyclable Metallic Media	3,015
Open Air Abrasive Blasting	13,439

*Source: National Shipbuilding Research Program, 1998

THE BLASTMASTER ADVANTAGE

Blastmaster has become a global leader in high-pressure and ultra-high pressure water jetting by providing our customers with the most dependable pumps and support in the industry. With Blastmaster, you get:

- the broadest range of pressures (dedicated and convertible units), flows and horsepower, with diesel or electric power;
- a simple, low-rpm pump design that minimizes wear, thus increasing uptime and simplifying maintenance;

- heavy-duty construction for continuous duty under tough operating conditions;
- low operating costs, as well as economical (and readily available) parts;
- the industry's largest selection of accessories (lances, crawlers, protective clothing, etc.);
- your choice of purchase, rental or lease, from convenient regional offices;
- factory-trained service technicians, always on-call;
- comprehensive product and safety training;
- dedicated engineering and R&D efforts, all in-house;
- a global network of dependable, full-service distributors with comprehensive spare parts inventories.

UHP PUMP UNITS

Model	Power	Pressure	Flow
4075D	110 hp (82 kW)	40,000 psi (2,800 bar)	3 gpm (11.4 lpm)
40215D	200 hp (149 kW)	40,000 psi (2,800 bar)	6 gpm (23 lpm)
40235D	235 hp (172 kW)	40,000 psi (2,800 bar)	8 gpm (30 lpm)
40275D	275 hp (205 kW)	40,000 psi (2,800 bar)	9 gpm (34 lpm)
40305D	300 hp (224 kW)	40,000 psi (2,800 bar)	10 gpm (38 lpm)
40365D	365 hp (272 kW)	40,000 psi (2,800 bar)	12 gpm (45 lpm)
40405D	400 hp (298 kW)	40,000 psi (2,800 bar)	14 gpm (53 lpm)



Model 40305D

VACUUM SYSTEMS

Vacuum recovery of debris and water helps protect the environment and operating personnel, while saving clean-up time. Blastmaster offers trailer mounted vacuum systems and lightweight systems that fit in the bed of a one-ton truck.



Model DM33168

Vacuum: 1,000 cfm @ 6" to 8"
Debris Tank: 220 gal. (833 l)
Diesel Engine: 44 hp (33 kW)



Model BM28766

Vacuum: 1,975 cfm @ 27"
Debris Tank: 1,000 gal. (3,785 l)
Diesel Engine: 152 hp (113 kW)



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