Do you have trouble collecting abrasive from hard-to-reach areas?

The Vacuload IV system can help you make a clean sweep of it!

Recovering and collecting the heaps of spent abrasive for disposal or recycling is one the biggest challenges facing our customers.

Manual shoveling the abrasive waste is extremely inefficient, but typical vacuum systems are often bulky and impractical for use in offshore rigs or in other job sites with limited space.

The Vacuload IV is designed for optimum mobility, durability, and versatility on the jobsite. The pallet-sized unit has a minimal footprint and is easily transported from different areas on the site.

In place of another bulky diesel engine on your job site, the unit runs entirely on compressed air already being used to run blast equipment. Despite its small size, the Vacuload IV pulls its weight, clocking in a conveying capacity of 8 tons of abrasive per hour.

All that abrasive then collects to a central point, ready for easy disposal or recycling. The Vacuload IV is one of many vacuum recovery systems offered by BlastOne. With capacities ranging from 2 tons to 20 tons of recovered abrasive per hour, there are units suited for any project scope.
**Case Study: Northern Shipyard conquers recovery challenge**

Shipyards have a tough job. In the short window of time a ship is in their yard, they must execute a comprehensive range of services: abrasive blasting, painting, water blasting, electrical and mechanical fitting, marine refrigeration repair, and much more.

The most difficult task to execute is abrasive blasting inside of the ship, including between two water-tight layers of a double bottom of a ship. Horrible accessibility, with little-to-no visibility or working space make for especially challenging operating conditions.

This was the case for a shipyard in Cairns, AU. The yard specializes in servicing large vessels—both defence and commercial ships—weighing up to 3000 tons. These boats arrive in the yard, and the shipyard team works furiously round the clock to get the ship seaborne again in a few days.

One biggest bottlenecks in production is removing the heaps of spent abrasive from the boat interior to allow painting to proceed. Traditionally, this has been done manually, with a human chain of buckets, wheelbarrows and shovels. A typical job takes a team of 10 men, working nonstop for 10 hours, to remove all the spent abrasive in the ship interior before painting can begin.

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Definitely beats recovering abrasive by buckets or wheelbarrows!

To combat this production hurdle, the shipyard implemented a new vacuum unit from BlastOne. With the vacuum system, a single worker completed that ten-man job in less than half the time! The vacuum unit ran on 700 cfm of compressed air (readily available after blasting had finished) to generate 8000 cfm of vacuum air at a very high suction pressure of 22 inches of mercury.

This amount of suction enabled the system to recover 8 tons of spent abrasive an hour. All that abrasive was collected in a large interceptor where it could be easily dumped into a skip, dumpster or bulk bag for simple disposal or reuse.

The vacuum equipment also required very minimal maintenance from the shipyard team, mostly limited to periodically replacing worn out vacuum hoses.

The Site Manager for the project was delighted by the boost in production ushered in by this new technology. All he could say was “It sucks like a champion! Definitely beats recovering abrasive by buckets or wheelbarrows!”

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This vacuum technology has also been used to move bulk amounts of abrasive from one location on a job site to another. Common applications are Bridges, Oil Tanks and Confined Spaces. The vacuum system can provide powerful suction, even through 500 ft (150 m) lengths of vacuum hose.

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Do you have an application you would like to test Super Vacuuming?

**Contact BlastOne to discuss your project.** BlastOne engineers and technical experts can apply their expertise from working on projects around the globe. They’re happy to provide free advice on best practices and latest processes that will help you finish your jobs quicker and with a higher profit margin.
The complete range of Vacuum Equipment, available for purchase or rent

**Electric Vacuload**

Used predominantly in the shipyard and railcar industry, this skid mounted VacuLoad has its own electric vacuum motor and boasts incredible vacuum capacity. The Electric Vacuload has an abrasive conveying capacity of 12 ton/hr.

**Vacuload I**

Small, compact and powerful, this system is one of the most preferred tools in bulk abrasive recovery, vacuum blasting, vacuum shrouded hand tools, and vacuum loading blast pots. The Vacuload 1 has an abrasive conveying capacity of 2 ton/hr.

**Vacuload – for large onsite blasting projects**

The most powerful vacuum system available. It’s powered by a large diesel engine up to 225HP to create a near complete vacuum. Typically used by contractors who blast with expendable media, this vacuum/dust collector unit is raised hydraulically for easy unload of waste abrasive into a dumpster for easy recycling or disposal. The Vecloader has an abrasive conveying capacity of 20 ton/hr.

**Vacuload IV**

The workhorse of the Vacuload range. This unit is the preferred vacuum system for tank contractors and boasts a staggering conveying capacity and efficiency. The Vacuload IV has an abrasive conveying capacity of 8 ton/hr.

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**Bayu-Undan Offshore Rig LNG, Timor Sea**

ConocoPhillips had many unique problems with their abrasive recovery on their off-shore rig. Located in the Timor Sea – 310 miles (500 km) away from shore, any abrasive waste needed to be recovered, bagged, then shipped to shore for disposal.

The ATEX rated vacuum system, that BlastOne built for the platform worked efficiently, powering through long runs of vacuum hose, often looped into hand rails and dragged through access hatches.

The system eliminated any overboard spills the team had experienced when manually shoveling the waste abrasive. The Bayu-Undan team was so satisfied by the results, a second unit was later deployed and has been running seamlessly since 2009.

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[www.BlastOne.com](http://www.BlastOne.com)
[800-999-1881](tel:800-999-1881)
NEVER STOP LEARNING

When is it safe to blast with Silica Sand?

It’s never safe to use silica sand for abrasive blasting!

Not even wearing an approved respirator makes it safe to blast with silica sand.

WHY ISN’T SILICA SAFE?

Blasting with silica sands, such as beach sand, river sand and other crystalline silica may cause serious injury and could be fatal. Crystalline silica is recognised world-wide as a Class 1 Carcinogen.

THE HEALTH RISKS

The silica sand used in abrasive blasting typically fractures into fine particles and becomes airborne. When workers inhale the crystalline silica the lung tissues react by developing fibroptic nodules and scarring around the trapped silica particles. This fibroptic condition of the lung is called silicosis.

People who are exposed to silica dust from other’s contaminated clothes are also at risk.

SILICA LAWS

The use of silica sand as a blasting media is banned in many country’s around the world. The USA recently enforced the OSHA silica law for construction. To make this easy, BlastOne has developed a simple Conformance Workbook and Checklist to ensure you are in compliance.

FREE BOOK

Protect your workers from the dangers of silica.

Download the free Silica Law for Construction and Compliance Workbook and Checklist.

www.BlastOne.com/silica-compliance

How to extend the life of your spray tips

Have you noticed that your spray pattern has diminished or you’re experiencing poor atomization of the applied coating?

A worn spray tip results in uneven application and can wear the components of spray equipment faster than usual.

If your fan has lost 25% of it’s original size then it’s time to change your spray tip.

WAYS TO EXTEND YOUR TIP LIFE.

- Spray at the lowest pressure that atomizes the material
- Strain the material before you spray it
- Use the correct size filters
- Clean the filters after every use
- Clean the tip by soaking it in solvent
- Never clean the orifice of the cats eye with wire or drill bits

Remember to look out for signs of wear and change your spray tips regularly to ensure maximum performance.
To make you a better, smarter blaster and painter

Install Whipchecks on equipment

Preventing injuries should be the top priority on every job site.

Customers have asked why they should install whipchecks on their blast equipment.

If a blast hose, bull hose or any other hose connection points become detached, and you’re in close proximity, sustained injury could result in death.

Flailing from a detached bull hose at 100 psi can kill.

Whipchecks are a mandatory requirement indicative to a safety standard. Even a 1 inch airline supplying air to your Radex breathing airline filter must have a whipcheck.

By fitting whipchecks to your equipment, especially the stocking variety, the situation becomes much less volatile as the couplings movements are more restricted. This gives much more time for the operator to shut down the air supply when the connection fails.

THERE ARE FOUR LOCATIONS WHERE WHIPCHECKS MUST BE INSTALLED

- From the air compressor to the bull hose
- On the inlet to the blast machine
- On the inlet and outlet connections
- Connection points along the hose

And remember: always apply two lock pins on a bull hose coupling.

To correctly install a whipcheck it must be fully extended and flat along the hose. Any slack and the whipcheck will leave opportunity for accidents to occur.
The Mist Blaster is a high performance vapor blaster designed to reduce airborne contaminates, while still offering the functionality of a standard blast pot.

This versatile blasting system can do dry blasting and vapor mist blasting from the same blast pot, and has effective

**LOW WATER CONSUMPTION**

Use as little as 1 quart per minute – up to ½ as much as other brands.

**TRUSTED RELIABILITY**

The trusted reliability of your existing blast pot and existing technology.

**4 SETTINGS AVAILABLE**

1. Dry
2. Mist
3. Washdown
4. Blowdown

The ultimate in choices, you can use the same blast pot for all your projects.

**WASHDOWN 10X FASTER THAN OTHER BRANDS**

A simple turn of the switch and you have 10x the water at the nozzle.

**CAN RETROFIT ON TO YOUR EXISTING POT**

Saves you $15,000-$30,000 per machine vs. other brands.

**VAPORIZER**

Ultimate control, introduces a fine mist of water to the air stream and allow huge volume washdown when in washdown mode.

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**Case Study: Irving Shipbuilding - Paint Booths**

BlastOne worked with Irving Shipbuilding Inc. to design and engineer a highly custom ship module paint facility inside a facility that could produce naval ships under a single roof. The massive paint facility measured a total of of 180’ (54 m) long x 88’ (26.5 m) deep x 52’ (15.6 m) high, and incorporated (2) two separate paint booths.

The largest paint booth could be split into 2 separate paint booths by using a dividing curtain allowing up to 3 different ship modules to be painted simultaneously.

The system has 330,000 cfm of dehumidified air that can be heated to 140°F during curing phase.

**RESULTS**

Irving Shipbuilding now has the most modern shipbuilding facilities in North America in Halifax, Nova Scotia. They now have the ability to paint ship sections 365 days a year regardless of weather patterns, thanks to the built-in heating and dehumidification.

Built-in heating and dehumidification systems allow Irving to continue production all year

Irving Shipbuilding’s facility in Halifax, NS

Construction phase of the massive Paint Booths 180’ long x 88’ deep x 52’ high
NEW! BlastOne Lift takes Blast and Paint Booths to new heights

BlastOne has launched global distribution of blast room and spray booth personnel lifts. Wall-Man and Liftman lifts are designed to drive up production efficiency in blast rooms and spray booths. Using a personnel lift addresses the common issues of safety and access constraints for companies that otherwise use ladders or access platforms in their spray booths. Applicable industries include aerospace, military, rail, engineering and steel fabrication.

The working platform is attached to the side of the blast room or spray booth and has controls to allow the operator to move up/down, left/right and in/out. This 3-axis movement capability drives up efficiency in large blast booths and paint rooms, as the operator can easily access all corners and angles of the equipment and reduce overspray on projects. Wall-Man lifts are also intrinsically safe to operate, designed to be compliant in hazardous spray booth environments.

The portable lifts are entirely pneumatically operated, making them an ideal replacement for ladders that you may occasionally need in a paint booth. The liftman fold is designed for use in a chemical plant and offshore. It can be taken up inside an elevator, folded up to fit through a door. It is also easy to move manually, with the up and down motion able to run off a reserve air tank for up to 15 motions.

For more information, visit www.BlastOne.com/personnel-lifts

Blastroom Wall-Mounted Lift

- Suits a blast booth up to 25’W x 25’H (7.6m W x 7.6m H)
- 3-Axis movement capability
- Wall mounted installation
- Console controls at front of platform
- Horizontal movement of up to 40 FPM

This wall-mounted personnel lift is a hydraulic lift capable of 3-axis travel and capable of operating in harsh blasting environments. Used in a blast room setting and allows operator to work at a height of up to 21 ft (6.4 m).

Spray Booth Wall-Mounted Lift

- Suits a spray booth up to 20’W x 25’H (6m W x 7.6m H)
- Three dimensional movement
- CE, CAS, and UL certified
- ATEX compliant
- Extra outlet for air tool inside the basket
- 550 lbs (250 kg) lifting capacity

This personnel lift is a pneumatic lift designed for spray painting environments and features a large two-person working platform. Allows operator to operate at a working height of 25 ft (7.6 m).

Portable Paint Booth Lift

- Entirely Pneumatically operated
- CE, CAS, and UL certified
- ATEX compliant
- Sharp turning cycle for easy access
- Payload of 309 lbs (177kg)
- Replacement for ladders in paint booths

Liftman portable paint booth personnel lift is a compact lift equipment designed for work in paint booths. Its compact size is optimal for flexibility. Allows the operator a working height up to 14 ft (4.2 m).

Liftman Fold – Offshore Rated Lift

- Manual steering and movement
- Foldable mast for easy access to narrow passages and to enter inside buildings
- CE, CAS, and UL certified
- ATEX compliant
- Compact design for minimal footprint

Liftman Fold – Offshore Rated Personnel Lift is a portable work platform outfitted with safety feature to ensure safe operations onshore, offshore, and inland chemical plants. Optimal working height of 14 ft (4.2 m).
Do you know BlastOne stocks all this and much, much more?

**TERA XL VALVE**
Rugged, simple, bolted construction. Diaphragm activated, metering design ensures accurate abrasive metering. Suitable for use with all approved blasting abrasives.

See page 168 of the new BlastOne catalog for a breakdown diagram

**NYLON BLAST SUIT**
Heavy duty nylon to protect the wearer from abrasive rebound. Breathable cotton back is designed to help keep you cool.

See page 240 of the new BlastOne catalog for more information on sizes

**360° NOZZLE**
Good for small pipes / low production jobs. Tungsten carbide tip is fully replaceable. Adapts to standard contractor threaded nozzle holders.

See page 248 of the new BlastOne catalog for more information

**PAINT INLINE SWIVELS**
Provides free movement of hose without kinking and enables operator to overcome ‘hose fighting’.

See page 365 of the new BlastOne catalog for information on sizes available

**SPRAY HOSE**
Swivel nut female connectors for easy fitup – connector locks up rigid when tightened.

See page 369 of the new BlastOne catalog for more information on sizes

**DEFELSKO REPLICA TAPE READER**
Simple, durable and accurate unit for measuring and recording surface profile parameters using Testex replica tape.

See page 320 of the new BlastOne catalog for different models

**NEEDLE SCALERS**
Heavy duty, easy to handle. Requires no additional tools for changing needles or chisels. Engineered to exceed industry expectations

See page 256 of the new BlastOne catalog for different options

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