BLASTONE

SUPERIOR **BLAST AND PAINT**

30% FASTER TURNAROUNDS

Facilities | Equipment | Technologies

CORROSION CONTROL SOLUTIONS

Production Efficient, Cost Effective Solutions

The BlastOne Group is a superior supplier of blasting and painting equipment. We are specialized suppliers to the Surface Preparation and Protective Coating Industry. We bring cutting edge technology and market leading products to the blasting and coating industry.

In this brochure, you will find a wide range of production efficient, cost effective solutions that are available to the marine industry.

THIS BROCHURE FEATURES

- Blast and paint halls for ship modules
- Automatic blast and paint lines
- High production blasting solutions
- No Dust Ultra High Pressure (UHP) Water Jetting surface preparation for repainting

WE WORRY ABOUT IT, SO YOU DON'T HAVE TO.

CUSTOMER SOLUTIONS & PROJECT SUPPORT

From concept to solution, BlastOne designs, engineers, and build turn-key blast and paint facilities that are safe, high-performing, and cost efficient.

AFTER SUPPORT

Our preventative maintenance techicans, employee training personnel, and warehouse supplied with consumables needed make BlastOne a life-cycle partner.

BLAST AND PAINT HALLS
FOR SHIP MODULES

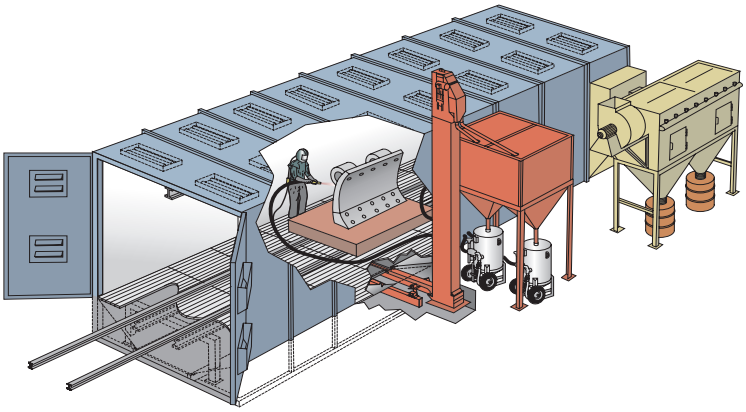
THE FRONT OF THE NEW BLAST AND PAINT FACILITY

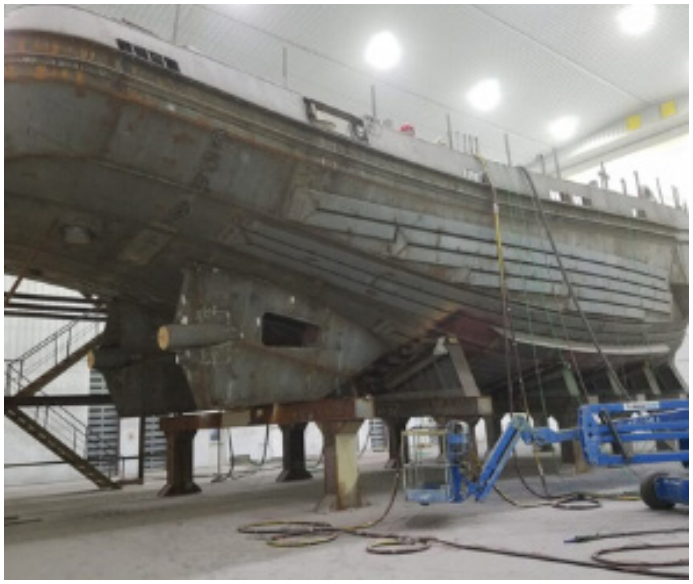
AQUATEC DRIVES UP PRODUCTIVITY IN PAINT APPLICATION AND REDUCES CURE TIMES.

INDUSTRIAL DUST COLLECTOR FOR BLASTING

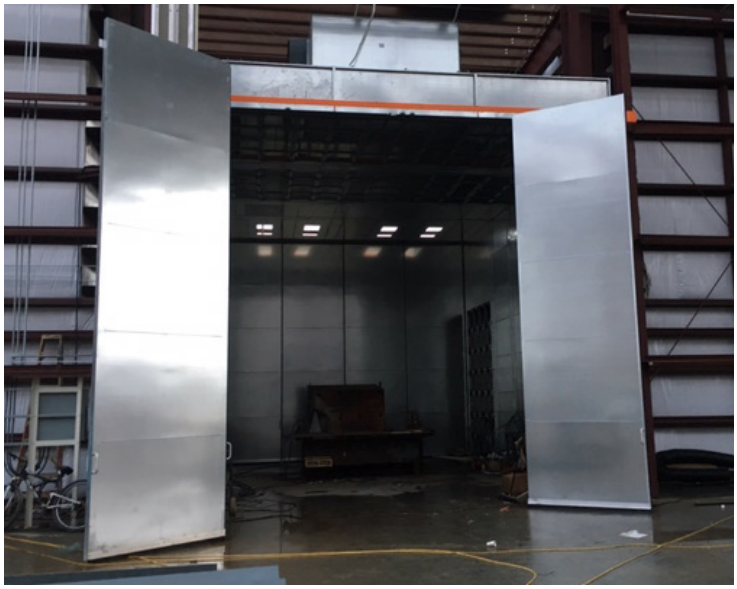
UNDERFLOOR RECOVERY

The abrasive recovery and recycling system is a very important part of blasting halls. BlastOne supplies equipment for every blasting application from small booths to large module blast and paint halls.





SHIPYARD BLAST AND PAINT ROOM



WASH ROOM

A TYPICAL LARGE BLAST AND PAINT HALL FOR SHIP SECTIONS: 75 FEET WIDE X 45 FEET HIGH X 180 FEET LONG

The BlastOne Group is a superior supplier of blasting and painting equipment.

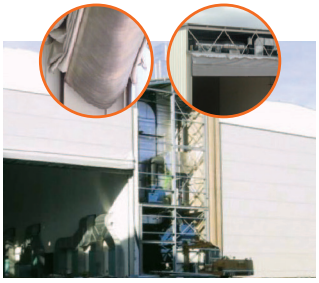
Large enclosed halls can be designed and engineered to provide ventilation and visibility for both painting and grit blasting. The abrasive recycling systems and high performance vacuums provide work efficiency, while humidity controlled air helps prevent oxidation and flash rusting of the steel between the blasting and coating processes.

The configuration of the rooms can be designed around the ship modules to be coated. Ventilation systems are designed for end draft or downdraft configurations.

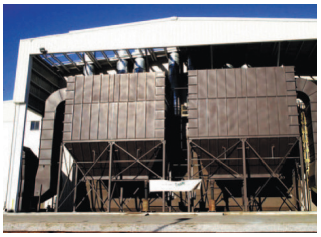
Normally, because of the size of the rooms, a separate structure is required for the booth roof and building trusses.

Buying a blast/paint booth is a huge decision! That's why we addressed several frequently asked questions and concerns surrounding the process. Scan the QR code to watch the full webinar.

Most of the spent abrasive is contained inside the blasted ship module. High performance vacuum systems are used to suck the abrasive and deposit it into the centralized recycling system.

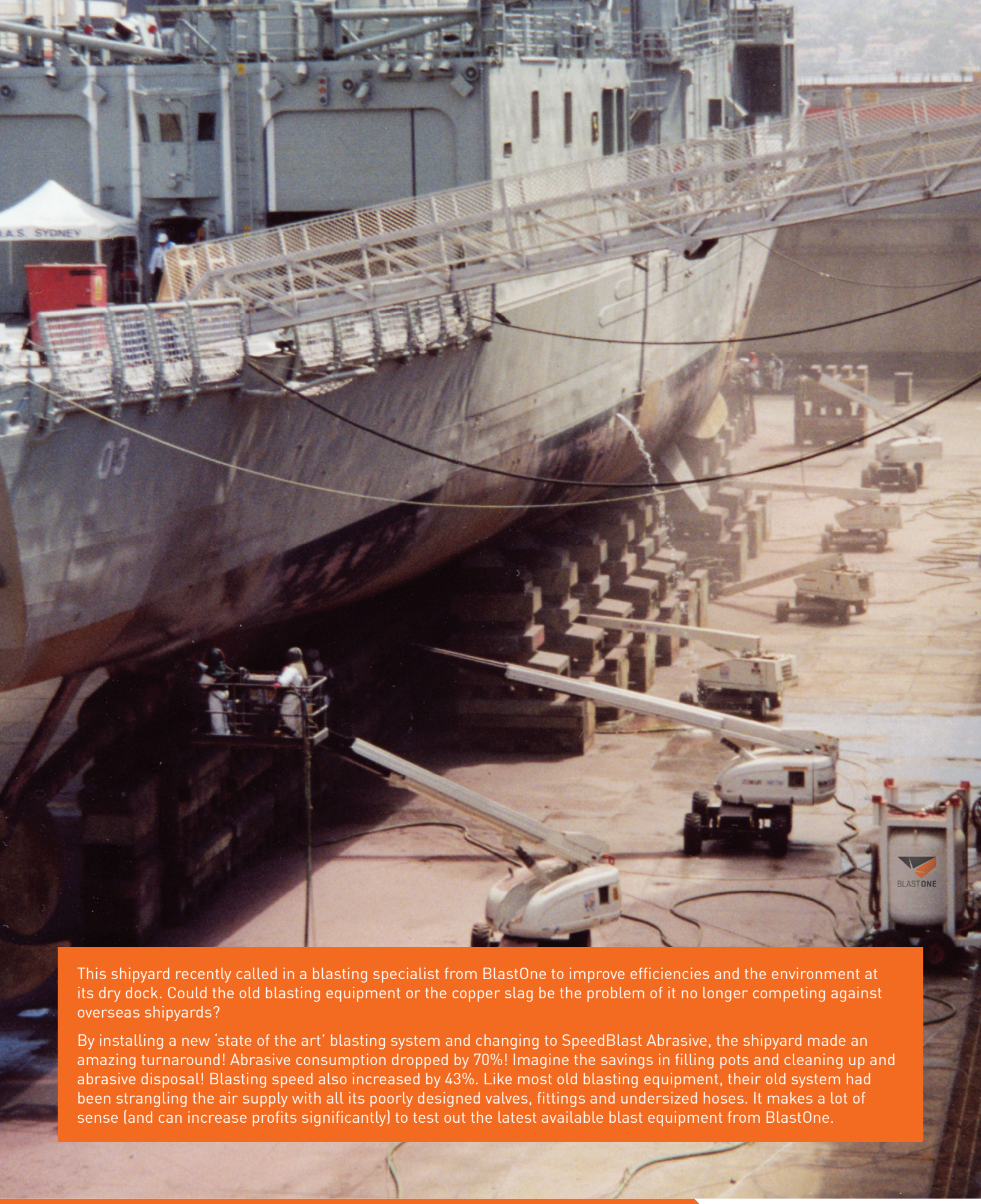


These large blast and paint rooms have optional roll-up fabric doors giving a compact finish. Rooms measure 120ft long x 80ft wide x 60ft high.



Dust collection and ventilation are a critical component in any blasting facility. Dust control provides increased visibility, increased work safety and high work quality. Stringent Government and OH&S regulation requires that the ventilation system be designed and calculated to suit the room configuration.

** Photos courtesy of the Wheelabrator Group*



This shipyard recently called in a blasting specialist from BlastOne to improve efficiencies and the environment at its dry dock. Could the old blasting equipment or the copper slag be the problem of it no longer competing against overseas shipyards?

By installing a new 'state of the art' blasting system and changing to SpeedBlast Abrasive, the shipyard made an amazing turnaround! Abrasive consumption dropped by 70%! Imagine the savings in filling pots and cleaning up and abrasive disposal! Blasting speed also increased by 43%. Like most old blasting equipment, their old system had been strangling the air supply with all its poorly designed valves, fittings and undersized hoses. It makes a lot of sense (and can increase profits significantly) to test out the latest available blast equipment from BlastOne.

HIGH PRODUCTION BLASTING SOLUTIONS FROM BLASTONE

BlastOne provides high production, high efficiency blasting solutions to shipbuilding and ship repairing yards. Maximum blasting speed and minimum abrasive consumption are key factors of the BlastOne system.

From the large multiple outlet MegaBlasters™ to the Mega Mist Blasters™, BlastOne has the latest technology to help you decrease blasting costs and increase productivity.

MEGABLASTER™

MEGA MISTBLASTER™

MegaBlasters™

Production work-horse for big dry-blast projects! Save time and money when doing large projects.

BlastOne MegaBlasters are designed to maximise the cost savings of volume production and are guaranteed to save you money.

- Low abrasive consumption
- Low pressure loss
- 150psi working pressure
- Safer abrasive loading
- On-site portability.

Mega MistBlasters™

160 cu ft capacity

Our latest generation Mega MistBlaster offers both wet and dry blasting for the ultimate in flexibility! It reduces costs and time when doing large projects.

- Up to 4 operators or VertiDrive Robot
- Maximum productivity, highest flexibility, easiest preparation
- Choice of mount configurations: highway certified 16k trailer with spare tire, skid mounted, or legs only for trailer mounting

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VertiDrive V700

The most versatile and powerful mobile abrasive blasting robot in the market

VertiDrive is designed for tough industrial environments and it's stronger than ever due to its reinforced frame. With powerful magnets, the VertiDrive can work on any surface, even upside down. Plus, it's incredibly versatile and can switch between three applications in just minutes.

- Up to 8x more efficient
- Up to 600 ft²/60 m² per hour (Abrasive Blast)
- Up to 400 ft²/40 m² per hour (UHP)
- Up to 1,000 ft²/100 m² per hour (Pressure Wash)
- Reduces access requirements (staging, cranes)
- Can hold 3 #10 SnakeBite blast nozzles

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SnakeBite Family Range

Powerful. Striking. Quiet.

The ultimate production tools that deliver lower noise, lower operator fatigue and improved project outcomes, ticking the box on the key challenges faced by the blasting industry today.

- Low noise reduces your risk of hearing loss
- Blast longer and later in noise sensitive areas
- Reduce the risk of injury to operators
- Lower nozzle thrust reduces operator fatigue
- Easy to use
- Experience the difference

SnakeBite Flex

Blast in and around hard- to-reach spaces with ease!

SnakeBite XQ

An Extra Quiet Blast Nozzle.

SnakeBite Strike

Achieve over 50% more production than high performance #8 nozzles.

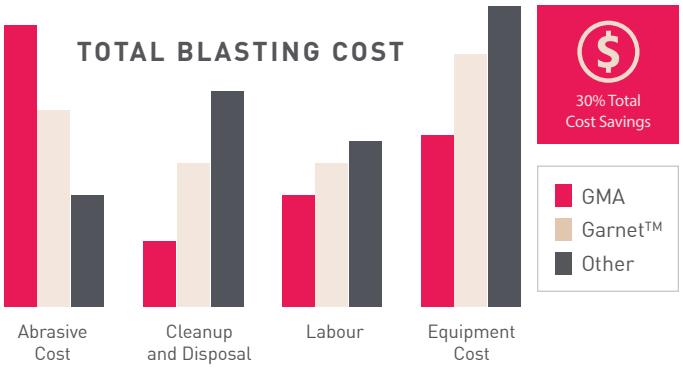
SnakeBite LPS

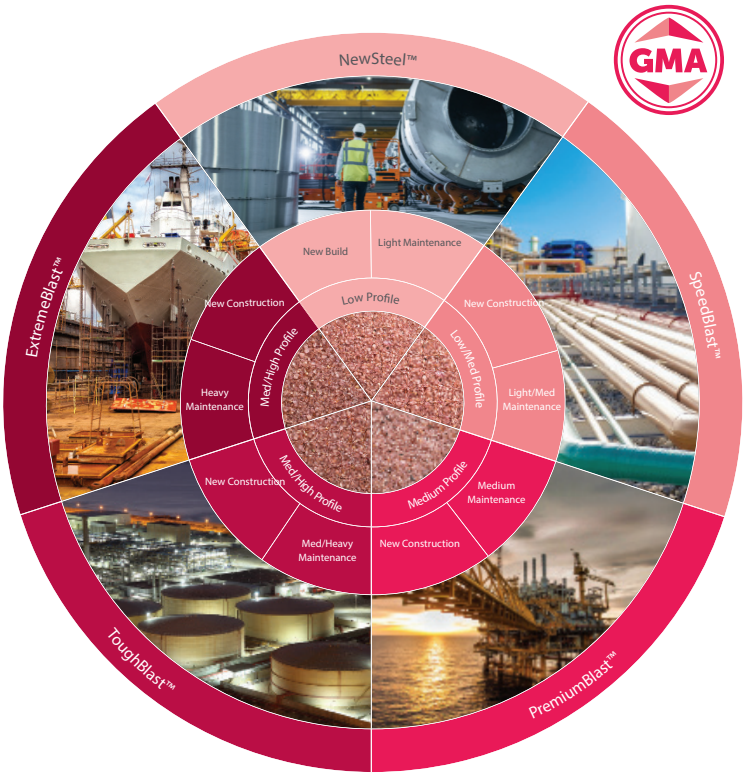
Contractors working at lower pressures (70-90 PSI) can experience the same benefits as our revolutionary high pressure SnakeBite nozzles!

GMA GARNET™ PRODUCT LINE

GMA Garnet™ results in higher productivity and lower abrasive consumption, despite the higher initial product cost compared to slags.

- Superior cleaning rate against other abrasives.
- Lower garnet consumption, labour, clean up and disposal cost.
- Exceptionally clean surface and uniform profile.
- Meets all industry, government safety and environmental standards.





NO DUST ULTRA HIGH PRESSURE (UHP) WATER JETTING SURFACE PREPARATION FOR REPAINTING

BLASTONE MAKES WATER WORK!

For the toughest industrial and commercial cleaning problem a high pressure water jetting system from BlastOne is the answer. You can harness the power of the water to provide an efficient, cost effective, cleaning tool.

Whatever the buildup rust and scale, resins, chemical residues, paint or epoxies, a BlastOne Jetblasting system cuts right through it, cleaning the pores of the surface and leaving a clean surface.

It's faster than other cleaning methods. No chemicals, solvents, caustics or abrasives are needed (or the expensive safety and disposal procedures that are often associated with it).

HEAVY DUTY PUMPS DELIVER UP TO 40,000PSI (2800 BAR)

The heart of any water jetting system is the high pressure pump. With a range of models to choose from both triplex and quintriplex designs we can deliver pressures from 2000 to 40,000psi (140 to 2800 Bar). BlastOne pumps can be electrically or diesel powered, and mounted on skids or trailers to go where you need them.

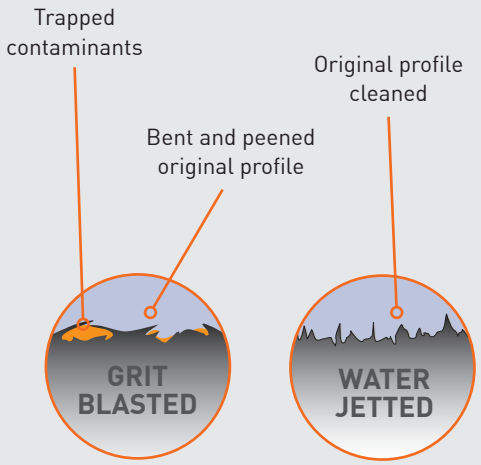
Ultra High Pressure (UHP) Water Jetting can be used for many surface preparation projects. UHP will effectively and quickly remove tightly adherent coatings, paints and deposits from all surfaces without using any abrasive.

In many cases, cleaning speed is comparable to that of abrasive blasting. UHP 40,000psi is particularly suited to marine applications. It does not produce a profile, however it can clean out an underlying previously blasted profile. Opportunities exist wherever abrasive blasting equipment is currently in use. UHP water jetting can produce a 'white metal' finish economically without the environmental and health hazards normally associated with other blasting methods.

Why use UHP for Surface Preparation?

Unlike the environment created by traditional abrasive blasting, UHP water jetting is dustless, minimizes waste by not using any abrasive and allows other activities to continue nearby while coating removal is in progress.

Instead of trapping contaminants in the surface profile, UHP water jetting actually removes soluble salts and contaminants from deep in the surface profile. Surfaces prepared with UHP exhibit less folding and flattening, and feature a texture of sharp peaks generated by previous abrasive blasting which is conducive to bonding.



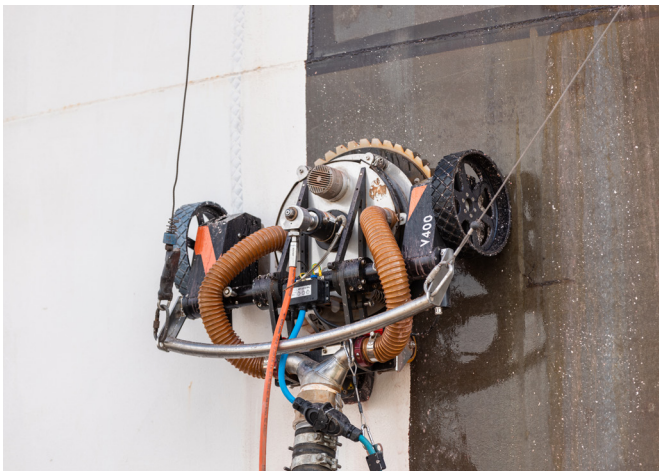
CALL BLASTONE FOR A FREE DEMONSTRATION!

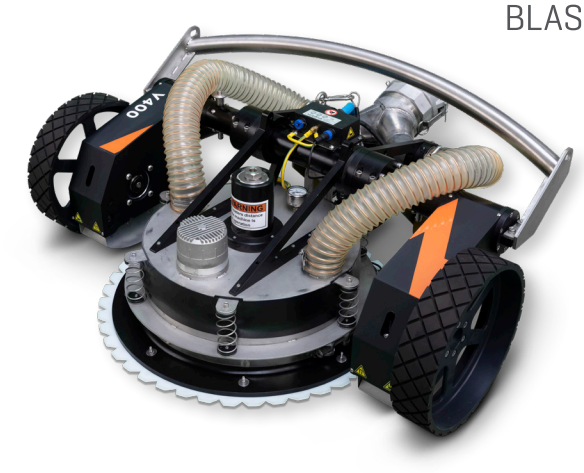
HAND HELD GUNS GIVE THE OPERATOR PRECISE CONTROL FOR CLEANING DETAILED AREAS

VertiDrive V400

Enclosed UHP works up to 5X faster

VertiDrive is the strongest and most robust robotic solution for enclosed UHP water blasting and washing. With large steel assets like storage tanks and ships, the VertiDrive works up to 5x faster, increasing the availability of assets.





- 5x more efficient
- Up to 450 ft^2/40 m^2 per hour
- Safe, clean and efficient one blaster operation
- Reduces access requirements (staging, cranes)
- Mitigates flash rust with powerful vacuum head
- Effortlessly collect waste water, separate waste materials, and store
- Easy accessibility to most horizontal, overhead and vertical surfaces

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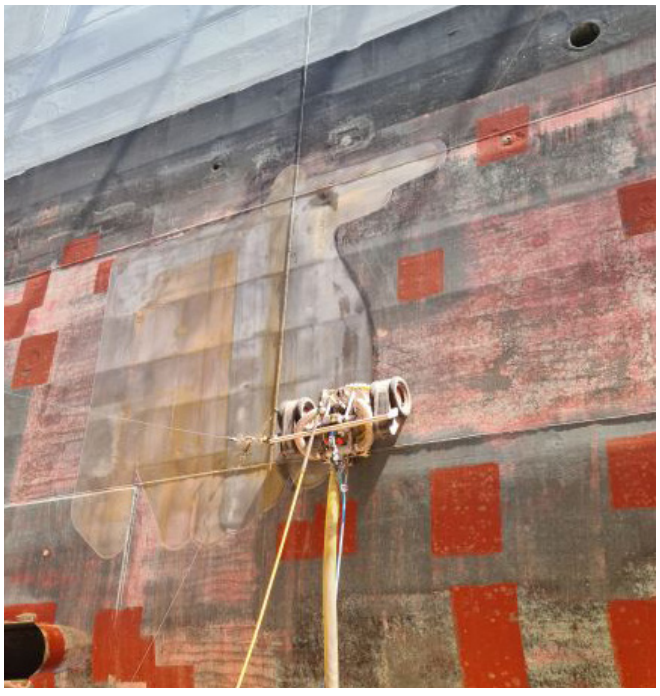
PRODUCT CASE STUDY
COATINGS REMOVED: 15-30 MILS



PROJECT: Naval Vessel

COATING REMOVED: 21.5 mils [550 microns] of marine coating

CUSTOMER: Eptec

LOCATION: Garden Island Dockyard, Sydney Australia

DATE: October 8, 2020

SETUP: VertiDrive M4 Ultra High pressure robot with an NLB 300hp 40,000psi @10gpm pump

RESULTS: 280 ft^2/hr (26 m^2/hr) leaving a dry WJ1 surface free of contaminants and ready for painting

PREVIOUS RESULTS BEFORE VERTIDRIVE: 100 ft^2/hr (9.2 m^2/hr) per manual lance, doing the work of nearly 3 manual lances

AUTOMATIC BLAST AND PAINT LINES

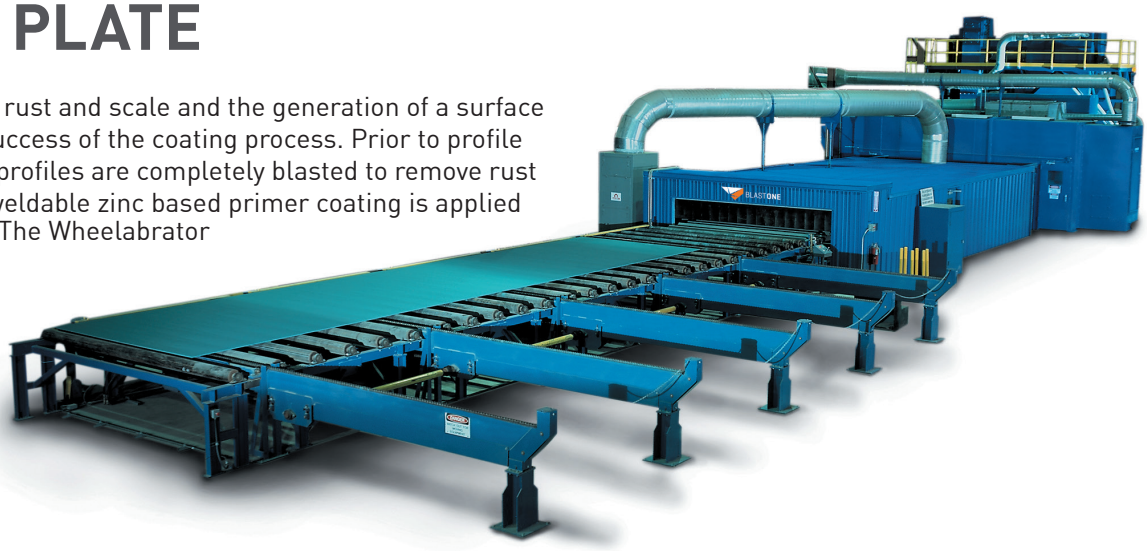
THIS MACHINE WILL CLEAN BOTH SIDES OF A PLATE UP TO 8 INCHES THICK!

LOADING RAW PLATE

UNLOADING FINISHED, COATED PLATE.

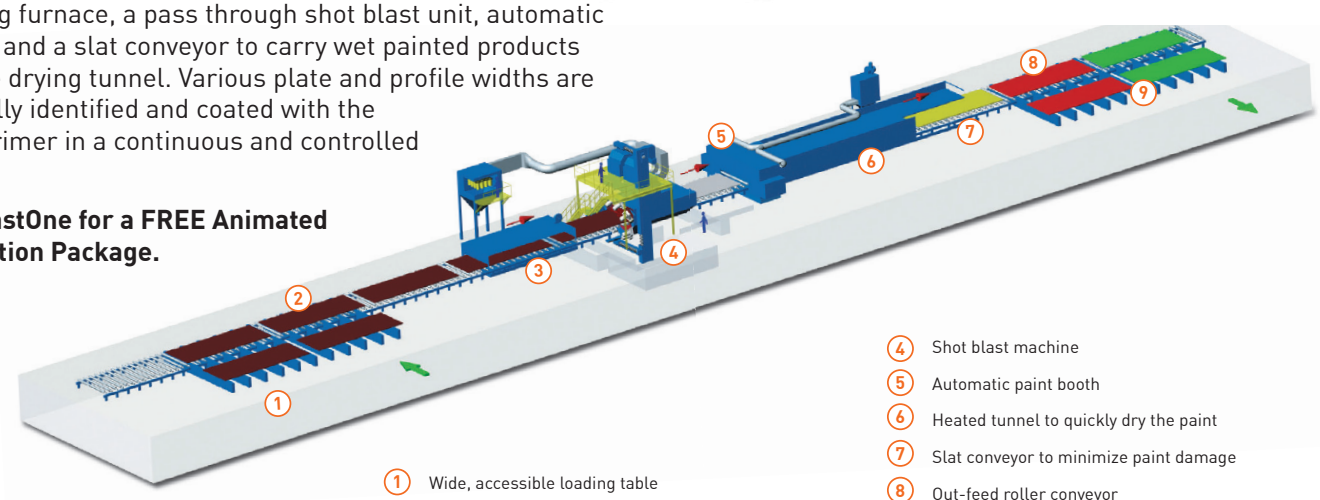
AUTOMATIC PRE-TREATMENT OF STEEL PLATE

The complete removal of rust and scale and the generation of a surface profile is critical to the success of the coating process. Prior to profile cutting, steel plates and profiles are completely blasted to remove rust and mill-scale before a weldable zinc based primer coating is applied for corrosion protection. The Wheelabrator



Group calls these systems AutoBlast Preservation Lines. BlastOne represents Wheelabrator Group, Inc. Along with the conveyor system, the preservation system incorporates a preheating furnace, a pass through shot blast unit, automatic paint booth and a slat conveyor to carry wet painted products through the drying tunnel. Various plate and profile widths are automatically identified and coated with the weldable primer in a continuous and controlled process.

Contact BlastOne for a FREE Animated Demonstration Package.



1. Wide, accessible loading table
2. In-feed roller conveyor
3. Pre-heater to remove moisture, snow, ice, etc
4. Shot blast machine
5. Automatic paint booth
6. Heated tunnel to quickly dry the paint
7. Slat conveyor to minimize paint damage
8. Out-feed roller conveyor
9. Unload table / cutting table

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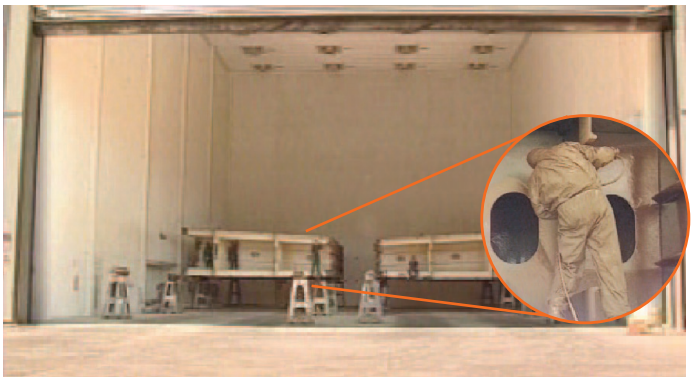
PAINT APPLICATION SYSTEMS

Coating application in a dry dock situation is often done with considerable time constraints. Equipment reliability is crucial.

A typical slipway operation painting a luxury twin hull vessel using BlastOne equipment.

Coating application of a ship's module is simplified in a dedicated painting and drying room. Temperature and humidity can be constantly maintained 365 days a year.



This paint hall measures 121ft long x 82ft wide x 59ft high!

WHY SHOULD YOU USE A PLURAL COMPONENT PUMP INSTEAD OF YOUR OLD PUMP?

One of the most essential procedures in any industrial painting application is to ensure the coatings are mixed to the correct ratio. The commonly used process known in the trade as 'hot potting', is to mix part A (the body of the paint) with part B (the catalyst) in a pot or drum. The operator must then spray it on within a certain time limit often between 30 minutes and two hours or the paint starts to cure and 'goes off'. If the ratio is incorrect the coating may fail and the cost to remove and rectify it can run into tens of thousands of dollars and extremely expensive litigation in court.

In the heat of the moment when a job must be painted in a hurry, it is not uncommon for the person mixing the paint to just tip in 'what looks about the right amount of part B into part A'.

Also, if multiple drums are mixed at once it is possible to forget which drum has the added catalyst. Of course no one at all cares less or knows... until a few weeks later when the coating hasn't cured properly or starts to come off. Plural component pumps automatically mix parts A and B to the exact ratio by electronic control. The two components only mix as they enter the spray hose. Use of Plural systems gives many advantages – material sprayed on-ratio every time, faster cure time of coating, reduced solvent usage and flushing time, and paint consumption reduced by up to 25%.

** Photos courtesy of the Wheelabrator Group*

BLASTONE
SUPERIOR PERFORMANCE

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