

CAPABILITY STATEMENT

**SPECIALISTS IN
SURFACE PREPARATION TECHNOLOGY**



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About Us

Quantum Blast Australia Pty Ltd, trading as Quantum Blast Technologies, is a leading manufacturer of sandblasting equipment and a trusted distributor of premium paint equipment, safety gear, and blasting accessories. Founded by former blasting contractors, we pioneered environmentally friendly abrasive blasting in Australia with the development of our innovative RapidBlast portable wet abrasive blast system.

Our **RapidBlast** technology is a game-changer, offering a virtually dustless, safe, and efficient solution for both large-scale structures and intricate projects. Its portability and encapsulation-free design allow simultaneous work by other trades, saving time and costs. Today, RapidBlast is globally recognized and exported to every continent, earning the trust of users worldwide.

Driven by a team of engineers, industry experts, and innovative thinkers, we have expanded our product range to become a one-stop shop for the blast and paint industry. Our offerings include dry blast equipment, compressors, air dryers, spray paint systems, personal protective equipment, and a wide range of abrasive media. Recently, we introduced the revolutionary VAPR-Blast wet blast cabinet, designed for precision blasting of smaller components and proudly manufactured in Australia.

At Quantum Blast Australia, we combine technical expertise, industry knowledge, and a customer-first approach to deliver cutting-edge solutions that meet the highest quality standards. We are committed to innovation, competitive pricing, and sustainability, ensuring our products not only meet but exceed customer expectations.

Together, let's shape the future of blasting—one innovation at a time.

Our Mission Statement



OUR MISSION IS TO SUPPORT THE SANDBLASTING INDUSTRY BY DEVELOPING INNOVATIVE EQUIPMENT, SOURCING QUALITY PRODUCTS AND MAKING THEM CONVENIENTLY ACCESSIBLE TO OUR CUSTOMERS AT A JUST PRICE.



**Australasian
Corrosion
Association (ACA)**



**CE
Approved**



**ATEX
Approved**



**20,000 +
QUALITY
PRODUCTS**



**Australia
Made**



Our mission drives all our business decisions – whom to hire, what we sell and what innovations we pursue.



We aim to offer choice, value for money and to provide a level playing field for our customers irrespective of their size and location.



We aim to grow our business by building on our strengths – combining our scale and expertise with our understanding of consumers in diverse markets to continue providing brands and services that customers in the blasting industry want and expect.



We are proudly Australian Owned, make Australian Made equipment, employ locals and have a strong preference to deal with local family owned businesses.



These are the common threads that connect us in our daily work as we strive to add value to the business of our customers and to make a difference in the environment and the society that we live in.

Product Range:

Ranging from a coupling safety pin to an 800cfm compressor we offer almost everything that the surface preparation and protective coating industry uses. The wide array of products makes us as an one stop supplier for all the customer needs, cutting down on procurement cost, freight and administrative work.

Quality:

We pride ourselves on providing the best quality products. Our manufactured equipment is of the highest quality and we partner with suppliers and brands that are the industry leading standards. We back this with our equipment and product warranty giving the customer complete confidence.

Product Solutions:

We pride ourselves in not just supplying equipment and products but also ideas, systems and service solutions that can help your business. Whether it is a facility design and construct of a completely automated blast room or specialised skid mounted equipment for a highly corrosive environment.

Cost Savings:

Almost every customer that has benchmarked their current purchase cost against our product pricing has found cost savings to be made. We aim to optimise your manufacturing process, assist significantly in your asset maintenance program, cut equipment breakdown, repair and replacement cost and increase the return on investment on your capital equipment.

Vision Statement

"At Quantum Blast Australia Pty Ltd, our vision is to be the global leader in the surface preparation industry, driven by relentless innovation and unmatched engineering expertise. We are dedicated to delivering the highest standards of quality and reliability, advancing environmental stewardship, and exceeding customer expectations with tailored solutions. By fostering lasting partnerships with all stakeholders, we aim to set new benchmarks and create sustainable value worldwide."

Core Values

Integrity and Trust

We uphold the highest ethical standards in all interactions, ensuring transparency and trust with customers, suppliers, and our team.

Innovation and Excellence

We are committed to leading the industry through continuous innovation and striving for excellence in every aspect of our business.

Quality and Reliability

Our products and services embody quality and reliability, constantly improving to exceed customer expectations and provide enduring value.

Environmental Stewardship

We prioritize environmental conservation and sustainable practices, minimizing our ecological footprint while promoting responsible resource use.

Customer Focus

We dedicate ourselves to understanding and meeting the unique needs of our customers, ensuring satisfaction and fostering strong relationships.

Safety and Collaboration

Safety is paramount in all our operations, and we collaborate closely with stakeholders to enhance industry standards and collective success.

Community Engagement

We are committed to positive community involvement and support initiatives that contribute to societal well-being.

These values underscore our commitment to excellence, integrity, and sustainability, driving us towards our vision as a leader in the global surface preparation industry.

What We Do?



Understand Customer Needs:

We listen closely to identify your specific challenges and objectives.

Innovative Design:

Our engineers create high-performance sandblasting equipment for maximum efficiency and reliability.

Collaborative Consultation:

We maintain open communication to ensure solutions align with your expectations.

Tailored Solutions:

We deliver customised equipment, from portable systems to full-scale blast rooms.

Ongoing Support:

We provide continuous technical assistance to keep your equipment running smoothly.

Commitment to Excellence:

We go beyond expectations with innovative, reliable, and sustainable solutions.

Wet Abrasive Blasting

What is wet abrasive blasting?

While not new, wet abrasive blasting is emerging as a more environmentally and operator-friendly process to dry sandblasting. The process involves an additional element of water that is mixed with the abrasive media pressurised in a blast pot and the slurry is propelled with compressed air through a nozzle. The water encapsulates 95% of the dust emitted from the abrasives and rust.

RapidBlast sets the standard

The RapidBlast wet blasting equipment is designed, developed and manufactured in Australia and exported across the world. Through extensive research and development, the unit is a robust workhorse, efficient, reliable and user friendly. It is a true multi-media blaster and operating at a range of 30-120psi it can provide different finishes on various substrates.

The Future of Cleaner, Safer Surface Preparation

Water's transformative role in industrial blasting goes beyond innovation—it's a leap toward sustainable precision. By integrating water-based technology, we eliminate dust, reduce environmental impact, and prioritize operator safety while delivering unmatched efficiency. This isn't just progress; it's the new standard for cleaner, smarter, and more responsible surface preparation.



Benefits of Wet Abrasive Sandblasting:



Superior Dust Control

Encapsulates up to 95% of dust, making it ideal for use in high-traffic or enclosed areas while ensuring cleaner, safer work environments.

Portable & Versatile

Fully mobile and designed for large, fixed, or hard-to-reach infrastructure, eliminating the need for extensive containment setups.

Enhanced Safety

The addition of water suppresses heat and friction, preventing sparks and explosions, making it safe for hazardous or volatile environments.

Efficient & Economical

Uses less compressed air and abrasive media compared to dry blasting, lowering operational costs while maintaining high performance.

Dry Abrasive Blasting

Dry Blasting:

Dry abrasive blasting is a surface preparation method that propels pressurized abrasive media through a nozzle using compressed air. It efficiently removes rust, paint, and contaminants, creating a clean, profiled surface for coatings. Common in industrial applications, it delivers fast, effective results.

A time-tested industry standard:

Since its development in 1870, dry abrasive blasting has remained the industry standard for surface treatment. Its versatility allows use on metals, concrete, and composites. When conducted in blast rooms or cabinets, abrasives can be contained and recycled, improving efficiency and reducing material waste.

The GritBlast™ difference:

The dry blast equipment sold by Quantum Blast is engineered to work harder, last longer and perform better. The airflow is optimised to minimise pressure loss for greater blasting efficiency. Precision media valves with fine-tune adjustment cut down the abrasive media usage.

Benefits of dry blasting:

Apply the same format as wet abrasive blasting above.



Vapour Blasting

What is Vapour Blasting?

A vapour blasting cabinet is an enclosed system that uses a water-abrasive slurry, propelled by compressed air, for precision surface cleaning and finishing. Unlike dry blasting, vapour blasting minimizes dust while providing a smoother, more uniform finish. It is widely used in industries requiring delicate yet effective surface preparation, such as automotive restoration, aerospace, and manufacturing.

How do Vapour Blasting Cabinets Work?

Inside the cabinet, water and fine abrasive media mix to form a slurry, which is continuously recirculated. Compressed air propels the slurry onto the surface, gently removing contaminants, oxidation, and coatings. The water cushions the abrasive impact, preventing surface damage and achieving a polished, satin-like finish, ideal for sensitive materials like aluminum, brass, and stainless steel.

The VAPR-Blast Advantage:

The Australian-made VAPR-Blast cabinet is a game-changer in surface preparation. Unlike standard cabinets, it's a true multi-media blaster, delivering versatile finishes across various substrates. Built from robust stainless steel, it enhances vapour blasting with superior efficiency, precision, and sustainability.



Benefits of Vapour Blasting:



Enhanced Surface Finish:

Enhanced Surface Finish: Vapour blasting produces a cleaner, smoother and feathered finish on a variety of materials by cushioning the abrasive impact. The water acts as a lubricant, which not only prevents impregnation of abrasive particles but also minimizes the surface roughness that can occur with dry blasting.

Versatility:

Versatility: Vapour blasting is effective on a wide range of materials including metals, plastics, and composites. It allows for the precise cleaning of intricate and detailed parts without the risk of damaging the substrate.

Efficiency and Cost-Effectiveness:

While the initial cost of vapour blasting equipment may be higher than dry blasting systems, the efficiency of the process and the quality of results can lead to lower overall costs in terms of media consumption and waste management. The ability to recycle water and media within the system further enhances its cost-effectiveness.

Operator Safety and Comfort:

Operator Safety and Comfort: Vapour blasting significantly reduces the plume of airborne particles, thus improving the working environment. This not only enhances operator safety by reducing inhalation risks but also contributes to greater comfort and reduced cleanup times post-operation.

Product Range

Blasting



Coating



Abrasive Blast Media



Capital Equipment



Inspection Instruments



Personal Protective Equipment



Workshop Equipment



Blast and paint room Solutions: Design, Build & Supply

At Quantum Blast Australia, we specialize in the comprehensive design, construction, building, and supply of state-of-the-art blast rooms tailored to meet the diverse needs of our clients across various industries. Our expert team is committed to delivering customized solutions that optimize surface preparation and finishing processes, ensuring efficiency, safety, and compliance with industry standards.



Design

Our design process begins with a thorough understanding of your specific requirements. We leverage advanced CAD technology to create precise blueprints that maximize the functionality and safety of your blast room. Our designs consider factors such as room dimensions, material flow, ventilation, and lighting to provide an optimal working environment. Whether you require a standard setup or a complex configuration, our team is equipped to deliver innovative and practical solutions.

Build

Building your blast room with precision and attention to detail is our forte. From the initial groundwork to the final installation, every step is meticulously managed and executed to meet the highest standards of quality. We oversee the installation of all components, including blasting equipment, safety gear, and control systems, to create a turnkey solution ready for immediate use.

Supply

We provide a comprehensive supply of all necessary blast room components and consumables. Our inventory includes a wide range of media types, blasting machines, personal protective equipment, and maintenance supplies. Partnering with leading manufacturers, we ensure that all supplied items are of premium quality and offer long-term reliability.



Industries Served



Engineering and Manufacturing



Oil and Gas Industry



Mining



Automotive



Marine



Engineering and Manufacturing



Quantum Blast serves various manufacturing industries including machine tools, metallurgy, chemicals, polymer, and steel.



In some cases, surface preparation is used as a part of the manufacturing process for finishing components including cleaning, preparing for painting or coating, and removing imperfections such as burrs and corrosion and for protective coatings to adhere properly.

- **Foundries:** Manufacturing of castings requires surface finishing through sandblasting.
- **Metallurgy:** Involves processing ores and creating alloys with finishing processes including deburring and coating, where blasting is beneficial.
- **Fabrication:** Large metal components need surface preparation before painting or powder coating.
- **Machine Tool Manufacture:** Requires removal of mill scale and burrs, with sandblasting providing a quick solution.
- **Chemical Plants and Refineries:** Focus on managing corrosion under insulation and general maintenance of equipment through abrasive blasting.





Corrosion is a major expense in the oil and gas industry, exceeding \$60 billion annually. It affects all oil & gas assets throughout their lifecycle, exacerbated by the corrosive agents like CO_2 , H_2S , water, and chloride present in the fluids handled. The reserves are often located in extreme environments such as deep-water offshore, arctic, or desert regions, increasing the complexity and cost of managing corrosion.

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Various types of corrosion such as atmospheric corrosion, aqueous corrosion, soil corrosion, galvanic corrosion and environmental cracking occur in wet environments like submerged pipes, buried metals and tanks, concrete.





MINING



Abrasive blasting is vital in the mining industry for surface preparation, cleaning, and applying protective coatings. Mining equipment faces harsh conditions like moisture, chemicals, and abrasion, leading to rapid wear.

Abrasive blasting extends asset lifespan using materials like steel grit, aluminum oxide, or silicon carbide, chosen based on surface hardness and contamination type.

The process cleans surfaces and creates a profile for better coating adhesion, crucial for preventing corrosion and wear in mining environments.

Wet blasting is especially effective for dust control and environmental compliance. By ensuring proper surface preparation, abrasive blasting maintains equipment integrity, supporting operational efficiency and safety.





AUTOMOTIVE

Whether it is restoring a classic car or refurbishing an old trailer or earthmoving equipment, one of the key steps is to clear the surface of old paint, rust and any dirt and grime.

The best, quickest and most cost-effective method of doing this is by abrasive blasting.



Why Chemical Paint Strippers Aren't the Best Option

- Chemical paint strippers are highly toxic and corrosive and not particularly environmentally friendly. Using chemicals to remove paint can also cause pitting and other damage to the surface of the metal.
- This method is also a lot slower, therefore time-consuming and actually costing you more money in man hours spent removing the old paint.

Abrasive Blasting Is Efficient

- The other thing to consider with abrasive blasting is that you can remove all the paint and the rust in the same process. It is much easier to get into hard to get at spots with abrasive blasting than it is with paint stripper and a scraper.



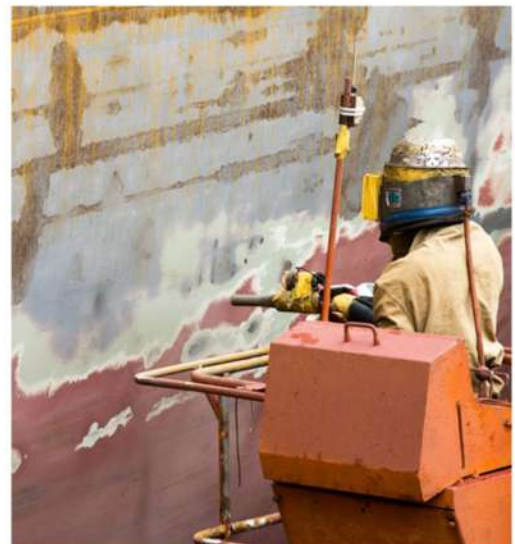


In the shipbuilding and marine maintenance sector, sandblasting is essential for effective adhesion of protective coatings, safeguarding vessels against harsh marine environments and corrosion.

It enhances longevity and aesthetic appeal by preparing surfaces for new coatings, reducing maintenance needs and costs.

Sandblasting also removes tough marine growth below the waterline, improving hydrodynamics and fuel efficiency. It aids in structural repairs by uncovering hidden damages and ensuring safety compliance.

As the industry embraces greener practices, sandblasting contributes to sustainability by maintaining smoother surfaces, reducing fuel consumption and emissions. This makes it a vital tool for combining tradition with innovation, driving industry growth and sustainability.



Applications

Sandblasting is one of the few industrial processes that has withstood the test of time over the ages and in fact, the applications are only increasing across multiple industries.

Quantum Blast is one of the few companies that has made strides in developing the process and making it more efficient, environmentally and operator-friendly. Depending on the substrate and the finish required, the Company can tailor the optimal solution for each application.

- 
- Rust Removal
 - Paint Removal
 - Mill Scale Removal
 - Automotive
 - Marine & Shipyards
 - Monument Restoration
 - Exposure of Welds
 - Line Marking Removal
 - Architectural Finishes
 - Glass Etching
 - Powder Coat Removal
 - Aggregate Exposure
 - Flood/Fire Damage
 - Stains/Mould Removal
 - Corrosion Prevention
 - Deburring

St Barbara's Simberi Gold Mine

Enhancing Infrastructure Maintenance with RapidBlast™ Wet Abrasive Blast Equipment



CASE STUDY

Customer Profile

St Barbara's Simberi Gold Mine, located on the northernmost island of the Tabar group in Papua New Guinea, is a key operational site engaged in an open-cut mining approach. This site, characterized by its rugged terrain and steep coastal lines due to its volcanic origin, faces unique operational challenges. With an existing infrastructure poised for a significant lifespan extension through a new sulphide project, maintaining robust infrastructure is crucial. The mine is committed to sustainability, aiming to mitigate the environmental impact of its operations while maintaining high safety and operational standards.

Challenge

Simberi Gold Mine's remote location and harsh tropical climate, characterized by extremely high humidity levels, impose severe corrosion on its infrastructure, including critical components such as tanks, pipes, and steel frameworks. Poor water quality further compounds the issue. The need for effective and environmentally sustainable remediation techniques is compounded by the logistical challenges of operating in a remote environment. Traditional dry sandblasting methods had proven inefficient and environmentally detrimental due to excessive dust generation, leading to a pressing need for a cleaner, more sustainable solution.



**The Requirement:**

The mine sought a durable and an efficient surface preparation system that could handle the tough environmental conditions without exacerbating them.

The system had to:

- Remove corrosion and prepare surfaces for protective coatings.
- Ensure environmental compliance, particularly in minimizing dust and noise pollution.
- Provide operator safety and prevent any risk associated with explosions or inhalation of dust.
- Be robust enough for continual use in a remote, high-humidity environment

**Solution & Implementation:**

The chosen solution was the RapidBlast™ SD140 Wet Abrasive Blasting Equipment, custom-mounted on a purpose-built, hot-dip galvanized skid designed specifically for the challenging conditions of the Simberi Gold Mine.

This setup included:**RapidBlast™ SD140 Equipment:**

Constructed from 8mm stainless steel and adhering to both Australian AS1210 and European CE and ATEX standards, this equipment offers robust performance in explosive environments. It features a 155 Ltr powder coated pressure vessel, designed for ergonomic handling and efficiency, even in the most extreme conditions.

Skid Platform:

The custom-built platform supports over 3 metric tons, accommodating the RapidBlast equipment, a tonne of garnet, a 1000-liter water tank (IBC), a hose reel, and a water filter system. The skid's bright yellow paint enhances visibility and safety, crucial in the mine's operating environment.

Comprehensive Surface Preparation Tools and Coatings:

This includes high-quality spray paint equipment like the GRACO King 60:1 Sprayer and epoxy protective coatings, selected for their strong adhesion properties and corrosion resistance.

Environmental and Safety Enhancements:

The solution integrates a three-stage water filtration system and a robust diaphragm pump setup to ensure the environmentally friendly disposal and reuse of resources.

Inspection and Quality Control:

The inclusion of an Elcometer Digital Inspection Kit ensures that all prepared surfaces meet the stringent cleanliness standards required for effective coating application.



Outcome and Benefits:

The implementation of the RapidBlast™ SD140 has revolutionized maintenance processes at Simberi Gold Mine by,

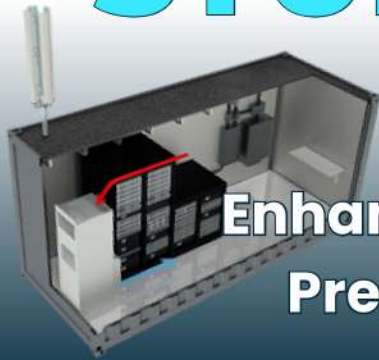
- **Significantly Reducing Environmental Impact:** The wet blasting method captures up to 95% of dust particles, dramatically reducing airborne contaminants and aligning with the mine's environmental goals.
- **Enhancing Surface Preparation Quality:** The ability to achieve a consistent SA2.5 cleanliness standard across different materials ensures the longevity of the applied protective coatings, reducing the frequency and cost of future maintenance.
- **Improving Safety and Operational Efficiency:** The ergonomic design and easy operability of the equipment, combined with enhanced safety features, minimize operator fatigue and risk.



Conclusion:

The RapidBlast™ solution, tailored to meet the specific needs of Simberi Gold Mine, has not only addressed the immediate maintenance challenges but also set a new standard in sustainable, efficient infrastructure care in harsh environments. This case study exemplifies how innovative engineering solutions can effectively align with stringent environmental and safety standards to deliver outstanding operational improvements in the mining industry.

CASE STUDY



Enhancing DCV Industries' Surface Preparation with RapidBlast™

Customer Profile

DCV Industries, a prominent provider of modular data centres, telecom shelter solutions, prefabricated modular buildings and container conversion solutions in the Middle East region, specializes in transforming standard shipping containers into functional spaces such as luxury offices, accommodations, and retail outlets. A critical aspect of their conversion process involves surface preparation to ensure durability and aesthetic appeal. Traditionally, abrasive blasting requires dedicated enclosed blast rooms with functional dust extraction system but if performed in open-area setup, it presents challenges in terms of space, safety, and regulatory compliance.

Challenge

Operating within a confined workshop, DCV Industries faced the dilemma of efficiently sandblasting shipping containers without the luxury of an enclosed blast room. Open-area sandblasting was not a viable option due to potential complications with government authorities and environmental concerns. The need was for a solution that could integrate seamlessly into their existing production facility, allowing simultaneous blasting and other operations without compromising safety or compliance.

Solution:

To address this, DCV Industries implemented the RapidBlast™ wet abrasive blasting machine. The RapidBlast™ equipment is designed to perform blasting applications in open-areas or within the existing workshop environments, eliminating the need for a separate blast room. The key features of RapidBlast™ that aligned with DCV Industries' requirements include:

- **Reduced Dust Generation:** The wet abrasive blasting process significantly minimizes dust, almost zero emission, enhancing visibility and safety within the workshop.
- **Portability:** The compact design allows for easy manoeuvrability, enabling operations in confined spaces without disrupting other ongoing production activities.
- **Environmental Compliance:** By containing the blasting process indoors with minimal emissions, the solution adheres to environmental regulations, avoiding the complications associated with open-area sandblasting.

Implementation

The integration of the RapidBlast™ system into DCV Industries' workflow was seamless. The equipment's user-friendly controls and efficient setup allowed the team to commence operations promptly. Operators received training to optimize the use of the machine, ensuring consistent surface preparation quality across all container conversions.

Outcome & Benefits

The adoption of the RapidBlast™ wet abrasive blasting machine yielded significant benefits:

- **Operational Efficiency:** Simultaneous blasting and production activities became feasible, reducing project turnaround times.
- **Cost Savings:** Eliminating the need for a dedicated blast room and reducing media consumption led to lower operational costs.
- **Enhanced Safety and Compliance:** The reduction in dust and containment of operations within the workshop improved workplace safety and ensured adherence to environmental regulations.





Why we chose RapidBlast Dustless Blasting Equipment

As the owner of Ecoblasting in Sydney, I want to share our exceptional experience with Quantum Blast Australia and their outstanding RapidBlast Dustless Blasting equipment. Our journey began with an extensive market research phase where we meticulously evaluated various brands, visited suppliers, and rigorously tested different equipment. Our decision to purchase the RapidBlast system was influenced by several compelling factors.

Firstly, the fact that RapidBlast is designed and manufactured in Australia by experienced industry veterans gave us confidence in the product's quality and reliability. The equipment has a superior design and we found it to be much more efficient in performance to other units. Moreover, the strong technical support and valuable advice from the team that we got from the team at Quantum Blast gave us confidence in starting our own mobile blasting business have been instrumental in helping us maximize the use of our equipment.

The environmentally friendly nature of the RapidBlast system aligns perfectly with our brand, Ecoblasting, which prioritizes sustainable practices. The mobile package on a trailer has been particularly beneficial, enabling us to easily transport the equipment to various sites and efficiently tackle projects involving sandblasting rigid or large structures.

Over the years, we have used the RapidBlast equipment on diverse surfaces, from alloy wheels and industrial equipment to driveways, structural steel, and even delicate aboriginal art designs on concrete in parks and gardens. Each project showcased the versatility and effectiveness of the RapidBlast system.

Our relationship with Quantum Blast has been extraordinarily rewarding. Not only have they referred contractual work in our area to us, but they have also supported our marketing efforts, contributing to our business growth and visibility in the industry.

We are immensely grateful for the partnership with Quantum Blast and look forward to continued success together. Thank you, Quantum Blast, for your exceptional products and support, helping Ecoblasting deliver outstanding results to our clients.

Milan Mandic, Owner

Ecoblasting, NSW Sydney



CUSTOMER SUCCESS STORY



ME2UBlasting Queensland, Australia

Our experience with RapidBlast Dustless Blasting Equipment

As a growing and successful blasting service provider, ME2U Blasting is immensely satisfied with the RapidBlast equipment supplied by Quantum Blast Australia. The varied applications and robust build of this equipment have substantially exceeded our expectations, enhancing our operational capabilities significantly.

One of the standout moments in utilizing this innovative technology was during a project that involved blasting electric transmission towers. The performance of the RapidBlast equipment, while working at heights of 30-40 metres, was nothing short of remarkable. The portability of the unit and its efficiency in such challenging conditions highlighted the immense value of the equipment for projects that require sandblasting of rigid or large structures. We have successfully used the RapidBlast equipment on a variety of surfaces, from sound barriers on freeways to agricultural and earthmoving equipment, swimming pools, skip bins, boats, and much more.



The customer service provided by Quantum Blast has also been outstanding. Your team's dedication to support and innovation has not only met but exceeded our needs and expectations. Since purchasing our first unit, the value and efficiency it has brought to our business compelled us to expand and incorporate a second trailer unit.

We are grateful for your exceptional products and service, and look forward to continuing this fruitful partnership. Thank you, Quantum Blast, for powering our growth and helping us achieve new heights of success!



Objectives

Quantum Blast Australia provides high-performance dustless blasting solutions with RapidBlast technology, ensuring efficiency, durability, and environmental sustainability for industrial, commercial, and infrastructure applications. Our commitment to innovation and customer support helps businesses optimize operations and scale successfully.



Solutions

Our RapidBlast Dustless Blasting equipment delivers portable, efficient, and reliable solutions for high-altitude, large-scale, and surface restoration projects. Designed for demanding environments, it is used across industries, from freeways and industrial machinery to boats and structural steel. Backed by technical expertise and ongoing innovation, we empower clients to achieve maximum efficiency and business growth.

CASE STUDY

Vapour Blasting at Dalby Radiator Works



Customer Profile

Dalby Radiator Works is a prominent name in Queensland, Australia, specializing in the supply and installation of new and reconditioned radiators, intercoolers, and oil-coolers. Serving the transport, agricultural, and mining industries, they offer expert solutions for a variety of machinery, including high-performance and reconditioned cars, trucks, and tractors. Their commitment to excellence was recognized in 2003 when they won a Workplace Health & Safety Award for best practices in Queensland.

The Challenge

Dalby Radiator Works required a robust solution to clean and maintain various automotive parts, including radiators, aftercoolers, tanks, fans, heat exchangers, and alloy components. The cleaning process needed to remove rust, paint, and oxidation effectively while providing a smooth, polished finish without damaging the components or leaving any abrasive media impregnated on the surface. Additionally, the solution had to meet stringent fire safety and environmental standards, minimize the risk of explosion and operator inhalation of dust, prevent warping or damage to sensitive components, and enable the recycling of abrasive media.



The Solution

After a thorough market evaluation, Dalby Radiator Works opted for the VAPR-Blast Wet Blasting Cabinet supplied by Quantum Blast Australia Pty Ltd.

This choice was driven by several factors:

- **Australian Made:** Aligning with their preference for local products, the VAPR-Blast, being the only wet blast cabinet manufactured in Australia, was an ideal choice.
- **Versatility:** It is a true multi-media blaster capable of using various abrasives such as garnet, glass beads, aluminium oxide, crushed glass, and soda bicarbonate for different applications.
- **Construction and Design:** The cabinet features high-quality stainless steel construction, a powerful slurry pump, and an ergonomic design that ensures operator comfort and efficiency.
- **Safety and Environmental Considerations:** The VAPR-Blast cabinet meets high standards for workplace health and safety and supports environmental sustainability with its ability to recycle abrasive media.



Benefits The integration of the VAPR-Blast Wet Blasting Cabinet into Dalby Radiator Works' maintenance processes has yielded significant benefits:

- **Enhanced Cleaning Outcomes:** The cabinet's ability to deliver various finishes, from smooth to polished, without damaging components, has vastly improved the quality of the parts treated.
- **Operational Safety:** With enhanced safety features, the risk of explosion and health hazards to operators have been minimized.
- **Economic and Environmental Efficiency:** The recycling of abrasive media has not only reduced costs but also lessened the environmental impact of their operations.

Conclusion:

The VAPR-Blast Wet Blasting Cabinet has proven to be a pivotal addition to Dalby Radiator Works, aligning with their commitment to quality, safety, and environmental responsibility. This case study exemplifies how selecting the right equipment can meet diverse and demanding industry needs while upholding high standards of workplace safety and sustainability.

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