

VAPR-BLAST™

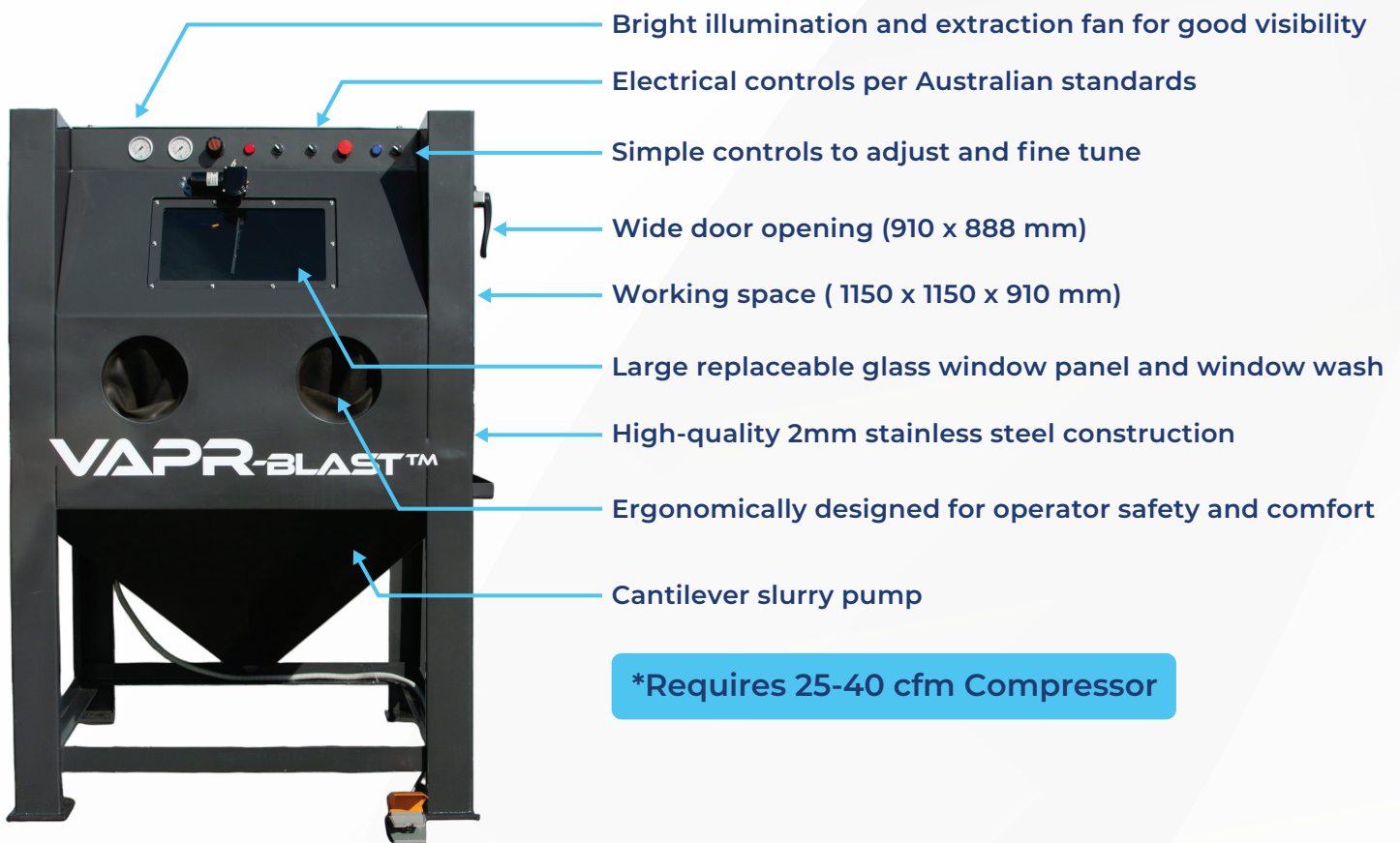
AUSTRALIAN MADE.
BUILT TOUGH.



**If you Need Precision,
Performance and Perfection.**

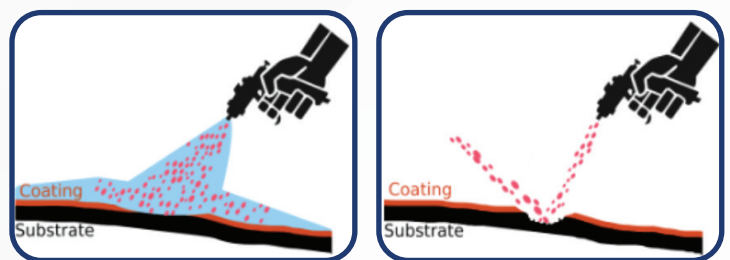
Find us on:





WHAT IS VAPOUR BLASTING?

Vapour blasting or **wet abrasive blasting** uses three elements - water, air and abrasive media. It can be used to remove coatings, contaminants, corrosion and residue from hard surfaces and to cleanse and polish components.



Advantages of Vapour Blasting:

- Wet blasting is not as harsh as dry blasting on the surface but it is effective.
- The use of water provides a cushioning effect to the abrasive media, reduces the ricocheting and cleans the surface to be free of abrasive impregnation.
- The dust is trapped and contained in the water.
- Safer than dry blasting from the operator safety perspective as there is no risk of dust inhalation.
- The impact of abrasive action is much more consistent across the entire surface.
- The fragmentation is reduced by the film of water.

What is VAPR-Blast™ ?

The VAPR-Blast™ is a premium Australian-made commercial-grade wet blast cabinet. It is made by Quantum Blast Technologies, the manufacturer of Rapid-Blast™ world leading portable dustless blasting equipment. VAPR-Blast™ is the ideal equipment for indoor use in workshops to remove rust, paint, oxidation, grease and any form of corrosion from a range of surfaces. Unlike dry blast cabinets that use abrasive media and compressed air only, the VAPR-Blast™ uses an additional element of water. It cleans by flow rather than by impact and provides a cushioned finish with no risk of warping or heat damage.

Why is VAPR-Blast™ special?

✓ True Multi-media Blaster:

contrasted with most other wet blast cabinets in the market, the VAPR-Blast™ is a true multi-media blaster. It can use a range of abrasive media such as garnet, glass beads, aluminum oxide, soda bi-carbonate etc to provide a wide variety of superior finishes on parts of different shapes and sizes.

✓ Fine-Tuned Controls:

Each of the variables – abrasive media, water and air pressure can be precisely adjusted to achieve the desired finish. Fine tune controls as requires to blast, strip, polish, degrease to perfect precision.

✓ Proudly Made in Australia:

Designed, engineered and built in Australia with 2mm thick steel and using the highest quality components and adhering to Australian Electrical Standards, VAPR-Blast™ is the only wet blasting cabinet manufactured in Australia.

✓ Multiple applications:

The VAPR-Blast™ has a range of applications to achieve a variety of cleaning/polishing finishes on different components in a diverse range of industries from automobile, marine, engineering, defense, manufacturing, furniture, antiques etc.

✓ Low Operating Cost and Maintenance:

The recycling of abrasive media reduces the operating cost and makes it environmentally friendly. The VAPR-Blast™ is designed to be very efficient and low maintenance.

The VAPR-Blast™ is equipped with the following standard and optional features that are purposefully designed to enhance the blasting process and experience for operators ensuring exceptional surface quality and efficiency.

Standard Features:

- Robust and efficient slurry pump
- Large viewing panel with wiper and screen wash
- Extraction fan to improve visibility
- Bright LED lights for illumination
- Shut down handle controls with safety interlock system
- Thick rubber interior lining
- Water spray for wash down

Optional Features:

- Heavy duty turntable
- Loading and unloading trolley
- Closed loop system
- Jig for wheel blasting
- Swing arms
- Basket for small components



Slurry Pump

Powerful industrial strength pump made from ultra-high molecular weight polyethylene. In terms of wear resistance, it is 7 times stronger than carbon steel and in terms of corrosion resistance, it has extremely high chemical stability.



Access Operation Control Switches

Easy and convenient access to controls. Emergency stop to quickly halt the process in case of a safety concern.



Pressure Regulator

Regulate blast pressure to suit varying needs of different applications. Easy at a glance gauges to indicate compressed air pressure and blast pressure.



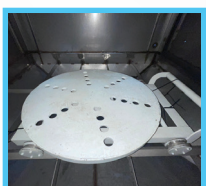
Large Viewing Window with Windscreen Wiper

The large glass window with the water spray and windscreen wiper provides clear visibility of the blasting process and the object surface.



Bright and Spacious Working Space

The interior of the cabinet is wide and spacious (1150 x 1150 x 910mm) and is illuminated with bright LED lights and protective blast curtains. The air exhaust fans extract moisture and provide clear visibility.



Optional Accessories

Optional accessories to assist with manual handling, loading and increase efficiency include – trolley, turntable, purpose built jigs, swing arms and basket for small components. A closed loop system could also be included to filter impurities and achieve efficiency on abrasive media, rust inhibitor additives and water usage.



Door Safety Switch

The shut-down handle in wet blasting ensures a high level of operational safety and control, contributing to a smoother and more controlled process with safety interlock system for easy loading and unloading of parts.

Wide Variety of Applications Across Various Industries

- ✓ **Automotive:** Surface preparation and cleaning of components such as engine parts, cylinder heads, valves, pistons, and gears involve the effective removal of rust, paint, and other contaminants to prepare the surfaces for subsequent treatment or reconditioning.
- ✓ **Defense:** The cleaning and refurbishment of weapons, ammunition casings, and other defense-related munitions involve the removal of debris, residues, and surface imperfections, ensuring reliable functioning and longevity.
- ✓ **Oil and Gas:** Removing corrosion from small parts, valves, pumps etc improves performance and increases asset longevity.
- ✓ **Aerospace:** Surface preparation and cleaning of aircraft components, engine parts, landing gear and other critical parts preserves the integrity of the materials and ensures safety.
- ✓ **Mining:** Paint stripping and rust removal of various components for mining operations is required as a part of regular maintenance and to enhance operational efficiency
- ✓ **Medical:** Removing metal burrs and surface imperfections, creating perfectly uniform surfaces that are ideal for sterilization, and accurately strengthens known areas of weakness to prevent failure.
- ✓ **Marine:** Restoring marine components from yachts, boats and ships that are covered with marine growth, paint or rust.

Endless Applications

- Preparation for bonding
- Honing edges
- Strengthening known areas of weakness
- Paint Stripping
- Degreasing (combined with coating removal)
- De-burring
- Die Cleaning
- Etching various surfaces
- Dust free Peening
- Cleaning automotive and motor cycle parts
- Industrial Component cleaning
- Alloy wheels cleaning and polishing
- Surface activation/preparation for coating
- CNC machining (without leaving tool marks)



Wide Variety of Applications Across Various Industries

The VAPR-Blast™ is a true multi-media blaster. Unlike most other cabinets that use glass beads only, the VAPR-Blast™ can handle garnet, glass beads, aluminium oxide, crushed glass, soda bi-carbonate and many others to provide a range of finishes.

- ✔ **Garnet:** Rock garnet has a sub-angular shape while alluvial garnet has a rounded shape and with a hardness of 7-7.5 Mohs, it can remove paint, rust and mill scale from metal surfaces.
- ✔ **Crushed Glass:** Where available, this is a cheaper abrasive medium and its angular shape provides a sharp anchor profile suitable for wet blasting aluminium, alloy wheels and steel.
- ✔ **Glass Beads:** Glass beads are spherical formed glass particles that leave a fine and polished finish on the blasted surface. They are perfect for creating a smooth anchored profile on alloys and softer substrates.
- ✔ **Aluminium Oxide:** With a hardness of 8 to 9 Mohs, aluminium oxide is a good media for tough cleaning, removing paint, heavy rust and coatings. It is useful for finishing and rounding edges.
- ✔ **Soda bi-carbonate:** Soda bi-carbonate is a soft but effective cleansing agent with a hardness of 2.5 on the Mohs scale. It is perfect for surfaces that need a smooth finish without any profile.

Technical Specifications

Standard	Description
1	Cabinet construction is thick stainless steel
2	Machine footprint: External: 1275mm W x 1415mm D x 925mm H Internal: 1150mm W x 1150 D x 910mm H Door opening: 910mm W x 888mm H
3	Recommended compressor: 25-40cfm
4	Three phase power
5	Conforms to Australian Electrical Standards
6	Sump capacity 120L
7	Abrasive charge is 15-20kg
8	Slurry pump - ultra high molecular weight polyethylene
9	Nozzle with 4mm boron carbide insert
10	Manual rinse nozzle
11	Scratch resistant replaceable glass
12	Window wiper, water spray
13	Integral bright 700lm LED lights
14	Process handling thick rubber gloves
15	Foot pedal with safety shield
16	Component blow off nozzle
17	Thick rubber curtains for interior lining
18	Stainless steel mesh in base to allow water and media to drain but prevent small components from dropping
19	Door with safety interlock system for easy loading and unloading of parts.
20	Powerful extraction fans for clear visibility
Note	Specifications are subject to change from time to time without notice

Optional	Description
1	Turntable 600mm round with 795mm x 500mm base. Maximum weight - 150kg
2	Loading and unloading trolley
3	Purpose built jig for blasting wheels
4	Swing arms for easy manipulation of objects inside the cabinet
5	Closed loop system recycling of media, water and additive

