

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.