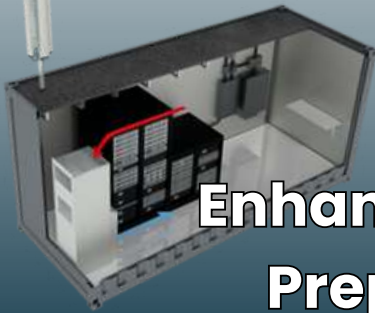


CASE STUDY



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.

