



## **Residue-Free Surface Preparation for Chemical Machinery Using Dry Ice Blasting**

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Nu-Ice Blasting, a U.S.-based, veteran-owned manufacturer of industrial dry ice blasting equipment, has outlined the role of dry ice surface prep in improving safety and efficiency for chemical tank sanitization and vessel maintenance. Dry ice blasting is a non-abrasive cleaning method that uses compressed air to propel solid CO<sub>2</sub> pellets, which sublime on impact without generating secondary waste. As industrial operators face increasing pressure to maintain compliance and minimize downtime, residue-free cleaning processes are becoming a critical consideration across chemical manufacturing and processing environments.

Dry ice blasting systems manufactured by Nu-Ice Blasting operate by using compressed air to accelerate solid CO<sub>2</sub> pellets toward a target surface. Upon impact, the pellets sublime, transitioning from solid to gas, lifting contaminants without introducing moisture or secondary waste. The process is controlled entirely by trained operators who regulate airflow, pellet feed, and application distance based on the cleaning requirement. These systems are commonly used by industrial facilities, maintenance teams, and restoration professionals handling equipment preparation and decontamination. The equipment does not incorporate automation or real-time optimization; all adjustments are manual, with performance dependent on operator input and application conditions.

Nu-Ice Blasting? equipment is designed with configurable components that allow operators to adjust blast pressure according to surface conditions and contamination levels. Systems incorporate controlled pellet feed mechanisms that regulate the volume of dry ice delivered during operation, supporting consistent application across varied cleaning tasks. Engineered hoses and nozzle assemblies are used to direct the blasting stream with precision, enabling access to confined or complex geometries such as internal tank surfaces and vessel components. These features contribute to repeatable cleaning performance by allowing operators to maintain stable delivery parameters. The equipment supports controlled surface preparation without abrasion, making it suitable for applications where preserving substrate integrity is required while removing residues or buildup.

Nu-Ice Blasting? systems are integrated into established industrial cleaning workflows where controlled, non-abrasive methods are required. The equipment supports in-place cleaning processes, allowing operators to address internal and external surfaces of machinery?such as tanks and vessels?without full disassembly. This is particularly relevant in environments where access constraints or process continuity require structured maintenance planning. Within chemical tank sanitization procedures, operators can apply dry ice blasting to remove buildup while maintaining existing equipment configurations. The process is incorporated as part of scheduled maintenance cycles, with operators determining application parameters based on the condition of the equipment and the type of residue present. This approach aligns with standard industrial practices that prioritize procedural control and equipment accessibility during maintenance operations.

Nu-Ice Blasting? equipment is used across multiple industries where controlled surface cleaning is required for equipment maintenance and preparation. In manufacturing environments, it is applied to machinery and production lines to remove buildup from operational components. Food and beverage facilities use the equipment for cleaning processing equipment and surfaces that require non-moisture-based methods. In the automotive and aerospace sectors, dry ice blasting is utilized for components and assemblies where precision cleaning is necessary prior to inspection or further processing. Electrical systems and sensitive equipment can also be addressed using dry ice blasting due to the absence of water in the process. Additionally, the equipment is used in fire and smoke restoration applications to remove soot and residues from affected surfaces as part of remediation workflows.

Nu-Ice Blasting? equipment is designed as a manually operated industrial cleaning system and does not incorporate autonomous or self-directed functionality. All blasting parameters, including pressure, pellet feed rate, and application technique, are controlled directly by the operator during use. The systems do not perform real-time decision-making or adaptive adjustments based on environmental or surface conditions. Additionally, the equipment does not execute independent maintenance actions or integrate with facility monitoring systems. It functions strictly as a surface preparation and cleaning tool within a broader maintenance workflow. As such, operational outcomes depend on user training, experience, and adherence to established procedures, with no embedded automation or supervisory control capabilities within the

equipment itself.

Nu-Ice Blasting is a U.S.-based, veteran-owned manufacturer with operations centered on the engineering and production of industrial dry ice blasting equipment. The company's infrastructure supports in-house design, fabrication, and assembly of its systems, enabling direct oversight of component integration and equipment configuration. Its product line, including systems such as the Commando® series, reflects internally developed engineering approaches to dry ice delivery and application. The company's focus remains on producing equipment intended for residue free industrial cleaning across industrial environments. Manufacturing activities are aligned with producing standardized equipment configurations while supporting the operational requirements of industries that utilize dry ice blasting for surface preparation and maintenance.

Nu-Ice Blasting continues to focus on the development and refinement of industrial dry ice blasting equipment within established manufacturing and engineering frameworks. Its ongoing efforts are directed toward maintaining consistency in system design and supporting a range of industrial applications where non-abrasive cleaning methods are required. The company's equipment remains positioned within maintenance and surface preparation workflows across multiple sectors, reflecting continued relevance in industrial operations. Future developments are expected to align with incremental engineering updates and expanded use cases, as industries evaluate dry ice blasting within their existing maintenance processes.

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## **Nu-Ice Dry Ice Blasting**

*Nu-Ice Age, Inc. is a veteran owned company based in Jackson, Michigan founded in 2007. After extensive research, design and testing we have developed a line of high-performance dry ice blasting machines for an environmentally friendly cleaning solution.*

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