



Dry Ice Blasting as An Alternative to Acetone and IPA in Industrial Cleaning

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Nu-Ice Blasting, a U.S.-based, veteran-owned manufacturer of industrial dry ice blasting equipment, has outlined the growing shift toward acetone replacement industrial cleaning methods in chemical processing environments. The development reflects increased scrutiny of traditional solvent-based cleaning approaches, including acetone and isopropyl alcohol (IPA), which are commonly used for removing oil and residue. Dry ice blasting, a non-abrasive process that uses compressed air to propel solid CO₂ pellets, offers an alternative that does not introduce additional chemicals. This transition is being observed across industries seeking controlled, residue-free cleaning processes within established maintenance workflows.

Dry ice blasting systems manufactured by Nu-Ice Blasting operate by using compressed air to accelerate solid CO₂ pellets toward a target surface. Upon impact, the pellets sublimate, transitioning from solid to gas, lifting contaminants without introducing moisture or secondary waste. The process is manually controlled by trained operators who regulate airflow, pellet feed rate, and application distance based on specific cleaning requirements. These systems are used by industrial facilities, maintenance teams, and restoration professionals handling equipment preparation and decontamination. The equipment does not include automation or real-time optimization, and all adjustments are operator-controlled, with performance

dependent on user input and application conditions.

Nu-Ice Blasting? equipment incorporates configurable systems that allow operators to adjust blast pressure according to the surface and type of residue being addressed. Controlled pellet feed mechanisms regulate the volume of dry ice introduced into the airflow, supporting consistent delivery during operation. Engineered hoses and nozzle assemblies are designed to direct the blasting stream with precision, enabling access to detailed or confined equipment areas such as internal components of tanks and machinery. These features support repeatable cleaning processes by allowing operators to maintain stable parameters throughout application. The equipment is designed for controlled surface preparation without abrasion, making it suitable for removing contaminants while maintaining the condition of the underlying substrate.

Nu-Ice Blasting? systems are incorporated into industrial cleaning workflows where controlled, non-abrasive methods are required for equipment preparation and maintenance. The equipment supports in-place cleaning processes, allowing operators to address machinery such as tanks, vessels, and production components without full disassembly. This is relevant in structured maintenance operations where access constraints and process continuity are factors. Within these workflows, dry ice blasting is applied as a form of chemical free equipment cleaning, enabling residue removal without introducing additional substances into the system. Operators determine application parameters based on equipment condition and residue type, integrating the process into scheduled maintenance procedures that prioritize accessibility and procedural control.

Nu-Ice Blasting? equipment is used across a range of industries requiring controlled surface cleaning for maintenance and preparation. In manufacturing environments, it is applied to production equipment and machinery to remove operational buildup. Food and beverage facilities use the equipment for cleaning processing systems where moisture introduction is limited. In automotive and aerospace sectors, dry ice blasting is used on components and assemblies prior to inspection or further processing. Electrical systems and sensitive equipment can also be addressed due to the absence of water in the process. Additionally, the equipment is applied in fire and smoke restoration projects to remove soot and residue from affected surfaces as part of remediation activities.

Nu-Ice Blasting? equipment operates as a manually controlled system and does not incorporate autonomous functionality. All operational parameters, including blast pressure, pellet feed rate, and application technique, are set and adjusted by the operator during use. The systems do not perform real-time decision-making or adaptive optimization based on environmental or surface conditions. They also do not execute independent maintenance actions or integrate with facility monitoring or management systems. The equipment functions solely as a surface preparation and cleaning tool within broader industrial workflows. As a result, performance and application outcomes depend on operator training, experience, and adherence to established maintenance procedures, with no embedded automation or supervisory control features.

Nu-Ice Blasting? operates as a U.S.-based, veteran-owned manufacturer focused on the engineering and production of industrial dry ice blasting equipment. The company maintains internal capabilities for system design, fabrication, and assembly, allowing direct oversight of component integration and equipment configuration. Its product line, including systems such as the Commando® series, reflects in-house engineering approaches to dry ice delivery and application. These systems are developed for use in dry ice solvent replacement processes within industrial environments where controlled cleaning methods are required. Manufacturing activities are aligned with producing standardized equipment configurations that support maintenance operations across multiple sectors utilizing dry ice blasting technology.

Nu-Ice Blasting? continues to focus on the development and refinement of industrial dry ice blasting equipment within its established engineering and manufacturing framework. The company?s ongoing efforts are centered on maintaining consistency in system design while supporting applications across industries that require non-abrasive cleaning methods. Its equipment remains integrated into maintenance and surface preparation workflows, reflecting continued use in industrial environments. Future developments are expected to align with incremental engineering updates and broader application of dry ice blasting systems, as industries continue to evaluate their role within existing maintenance and operational 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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