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SOLUTIONS**

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Equestrian



Equestrian

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Dry Ice Blasting in the Equestrian Industry:

Welcome to BBS's information pack for the Equestrian industry. Dry ice blasting is an extremely helpful cleaning procedure for the equestrian industry, offering a safe and efficient solution for a wide range of applications. It has multiple benefits, including non-toxicity, abrasiveness, environmental friendliness and the ability to disinfect everything it comes into contact with. In this information pack we will go over how dry ice blasting will benefit you your horses.



What is it?

Dry ice blasting, also known as dry ice cleaning or CO₂ blasting, is a non-abrasive and environmentally friendly cleaning process that uses high-velocity streams of dry ice pellets accelerated by compressed air to remove contaminants from surfaces. The process combines thermal shock, kinetic energy, and gas expansion to effectively remove dirt, grime, grease, paint, adhesives, and other substances without leaving residues or damaging the surface. The benefits of dry ice blasting include its non-toxic and non-abrasive nature, reduced cleaning time and equipment disassembly, improved worker safety, minimal environmental impact, and versatility across various industries and applications.

Kinetic Effect: When dry ice pellets strike the surface, they transfer kinetic energy, causing the contaminants to crack and loosen.

Thermal Effect: The extremely cold temperature of dry ice (-78.5°C or -109.3°F) causes the contaminants to contract and become brittle, making them easier to remove.

Sublimation Effect: Dry ice pellets convert into CO₂ gas upon impact, rapidly expanding and creating tiny explosions, lifting the contaminants away from the surface.

Benefits of Dry Ice Blasting in the Equestrian Industry

Non-Toxic and Environmentally Friendly: Dry ice blasting utilizes non-toxic carbon dioxide pellets, making it a safe and environmentally friendly cleaning method. It eliminates the need for harsh chemicals, minimizing the risk of harmful residues that could impact the health of horses, handlers, and the environment.

Gentle and Non-Abrasive: Dry ice blasting is a non-abrasive cleaning process, ensuring the preservation of delicate surfaces. It can be used on leather tack, metal equipment, and sensitive arena surfaces without causing damage or deterioration, extending their lifespan and maintaining their performance.

Efficient Cleaning: Dry ice blasting offers efficient cleaning of various equestrian surfaces. The high-velocity dry ice pellets penetrate and dislodge dirt, grime, and other contaminants, making it highly effective in removing stubborn stains, sweat, and residues from stalls, barns, tack, trailers, arenas, and fencing.

Reduced Downtime and Labor: Dry ice blasting minimizes downtime in equestrian facilities. The non-disruptive cleaning process eliminates the need for extensive disassembly, reducing the time required for cleaning and maintenance. It also reduces the labor-intensive scrubbing or manual cleaning required with traditional methods, improving overall efficiency.

Improved Hygiene and Safety: Dry ice blasting provides superior hygiene and safety for both horses and handlers. By eliminating bacteria, mold, and allergens from stalls, tack, and equipment, it creates a clean and healthy environment. This helps prevent respiratory issues, allergic reactions, and infections, ensuring the well-being of the horses and the safety of the equestrian facility.

Environmental Sustainability: Dry ice blasting aligns with the industry's focus on sustainability. It minimizes water consumption, as it does not require the use of water in the cleaning process. Additionally, the dry ice pellets sublime into the atmosphere without generating any waste, making it an eco-friendly cleaning solution.

Versatile Applications: Dry ice blasting can be applied to various equestrian components and surfaces. It effectively cleans stalls, barns, tack, trailers, arenas, fencing, and other equipment, providing a comprehensive cleaning solution for the entire equestrian facility.

What can we do for you?

Stalls and Barns: Dry ice blasting effectively removes dirt, debris, and odours from stalls and barns. It eliminates bacteria, mold, and allergens, providing a clean and hygienic environment for horses. Dry ice blasting can reach difficult-to-access areas, such as corners and crevices, ensuring a thorough cleaning.

Tack and Equipment: Dry ice blasting is gentle yet powerful enough to clean horse tack and equipment. It removes dirt, sweat, and grime from leather saddles, bridles, and harnesses without causing damage or leaving behind residues. The process effectively rejuvenates and restores the appearance of the tack, prolonging its lifespan.

Arena Surfaces: Dry ice blasting can be used to clean arena surfaces, including sand, rubber, or synthetic tracks. It removes dirt, dust, and rubber build-up, improving traction and reducing the risk of slips and falls for horses and riders. The process helps maintain the integrity and performance of the arena surfaces.

Trailers and Transport Vehicles: Dry ice blasting efficiently cleans horse trailers and transport vehicles. It removes dirt, mud, and stains from both the interior and exterior surfaces, providing a clean and comfortable environment for the horses during transportation. Dry ice blasting eliminates odours and sanitizes the spaces, promoting a pleasant and hygienic experience.

Fencing and Gates: Dry ice blasting effectively cleans and revitalizes fencing and gates around equestrian facilities. It removes dirt, moss, algae, and other contaminants, restoring their appearance and extending their lifespan. Dry ice blasting can be used on various fencing materials, including wood, metal, or PVC.

Safety and Environmental Benefits: Dry ice blasting eliminates the need for harsh chemicals and reduces water usage compared to traditional cleaning methods. It promotes a safer and healthier environment for horses, riders, and handlers by removing allergens, bacteria, and molds without leaving harmful residues. Additionally, dry ice blasting is an environmentally friendly cleaning solution as the dry ice pellets sublimate into the atmosphere without generating waste.

By utilizing dry ice blasting, the equestrian industry can maintain cleanliness, hygiene, and safety in various areas, including stalls, tack, arenas, trailers, and fencing. The process offers efficient and effective cleaning, preserving the integrity and prolonging the lifespan of equipment and surfaces. Dry ice blasting contributes to a pleasant and comfortable environment for both horses and riders, ensuring optimal performance and well-being within the equestrian industry.

Our process

Assessment and Consultation: The company starts by figuring out what the client needs in terms of cleaning. Once we gain a thorough understanding of your specific requirements. We then proceed to identify the surfaces and equipment that need attention. Additionally, we conduct a meticulous assessment of any safety or environmental factors that may impact the project. We discuss thoroughly with you the customer to find out what you want done specifically, find out what surfaces or tools they want to clean, and consider any safety or environmental issues.

Planning and Preparation: BBS makes a thorough plan for the cleaning process based on the assessment. This includes choosing the right dry ice blasting equipment, choosing the right type and size of dry ice pellets, and thinking about any extra safety measures or equipment that might be needed for the job.

Surface Preparation: Before using dry ice to clean, we make sure that the surfaces or equipment that needs to be cleaned are prepped and precautions have been taken to insure everyone's safety. This could mean cleaning up any loose trash, covering up sensitive areas, and taking any other steps needed to protect nearby parts or buildings.

Dry Ice Blasting: Setting up the dry ice blasting tools is the first step in the dry ice cleaning process. The equipment is usually run by trained employees of the company. It consists of a blasting gun linked to a high-pressure air supply and a dry ice pellet feeder. The technicians aim the stream of compressed air and dry ice pellets at the surfaces they want to clean. The mix of kinetic energy and thermal shock effectively removes contaminants.

Quality Control and Inspection: A priority of BBS is quality control all the way through the dry ice cleaning process. We check the cleaned surfaces to make sure that all the dirt has been removed and that the level of cleanliness that was wanted has been reached. Any touch-ups or extra cleaning steps that are needed are done as required.

Waste Management: The waste from the dry ice cleaning process is taken care of by us by following the right waste management steps. When dry ice pellets hit something, they turn into carbon dioxide gas and the waste they remove is left behind. The company makes sure that this trash is collected, stored, and thrown away in a safe way that follows environmental laws and rules.

Project Completion and Documentation: Once the dry ice cleaning process is done, we provide a summary of the work done, which will include pictures and videos of the before and after. We also suggest ways to keep up with maintenance clean in the future.

By following these operational processes, We can make sure that cleaning in many different industries is fast, effective, and safe. Throughout the whole process, we customer happiness first, keep quality standards high, and follow all environmental and safety rules.

Summary

Dry ice cleaning has numerous advantages for the equestrian industry. In conclusion, it offers a safe and environmentally friendly cleaning solution that promotes hygiene, improves performance, and saves time and money. Without the use of harsh chemicals, dry ice cleaning successfully removes dirt, debris, and pollutants from varied surfaces such as stalls, tack, arenas, trailers, and fencing. It keeps horses clean and healthy, lowering the incidence of respiratory problems, allergies, and infections. Dry ice cleaning's gentle yet forceful nature preserves the integrity of equipment, extending its lifespan and preventing costly replacements. Furthermore, dry ice cleaning enhances traction on arena surfaces, providing horses and riders with a safer and more consistent riding experience.

Furthermore, dry ice cleaning saves the equestrian industry time and money. It cuts down on downtime by eliminating the need for disassembly and labour-intensive cleaning procedures. Dry ice blasting saves time and money over typical cleaning procedures because of its effective cleaning properties. Furthermore, dry ice cleaning is consistent with the industry's dedication to sustainability. It decreases water usage and waste generation, contributing to the equestrian industry's environmentally conscious mentality. Overall, dry ice cleaning provides a comprehensive and beneficial solution for equestrian industry cleanliness, hygiene, and optimal performance.

Request a Quote today

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