

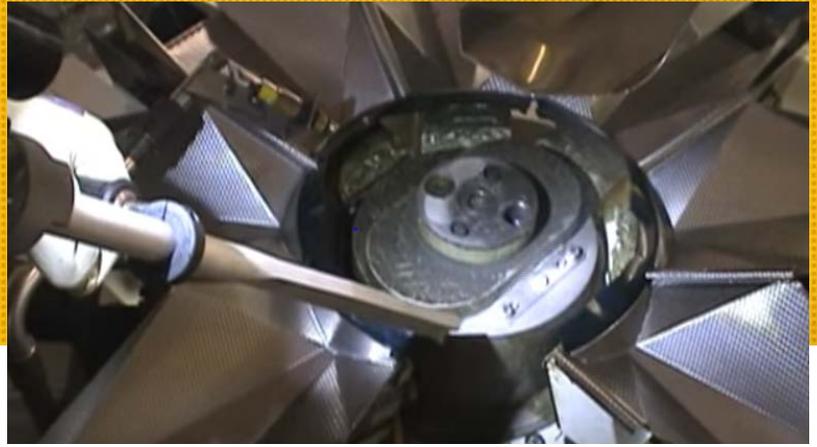
BIO BLASTING AND DRY ICE BLASTING

USA DeBUSK SAFETY AND ENVIRONMENTAL STEWARDSHIP

- ♻️ No secondary waste stream
- ♻️ Environmentally friendly
- ♻️ Chemical Free
- ♻️ No damage to refractory
- ♻️ No acidic damage or caustic etching

Applications

- › Surface preparation of pressure vessels
- › Rotating equipment
- › Production equipment
- › Pipeline
- › Heat exchangers
- › Reactor screen
- › Shell side tube bundles
- › Interior & exterior wall cleaning
- › Convection section or re-boilers
- › Fin-fans
- › Sulfur Removal



BENEFITS TO BIO BLASTING AND DRY ICE BLASTING

Bio blasting: a.k.a. Soda blasting: is an extremely friable material that has micro fragmentation on impact, literally taking away surface materials from any surface without causing damage to the host material.

Benefits include:

- › Both are environmentally friendly, pH neutral, and compatible with virtually all wastewater processing systems
- › Media is less aggressive than sand, grit or black beauty
- › It is food safe and silica free
- › Bio blasting is the most cost effective way to de-rust, de-carbonise and degrease – removing all unwanted residues and coating
- › Baking soda neutralizes all the salts on metal surfaces
- › Both can save both time and money for petrochemical plants, refineries, and food processing & packaging plants.
- › Both are great for use inside a unit where personnel are around
- › Minimizes pre-job preparation time and eliminates secondary waste and any damage to valves, pumps and compressors.

SAFETY & QUALITY SECOND TO NONE

- › High-powered and highly efficiency equipment, along with trained personnel, can make the toughest cleaning projects easy and safe.



Before Bio Blasting



After Bio Blasting



Benefits to Bio Blasting & Ice Blasting Heat Exchangers

- » Removes surface contaminants for improved efficiency, allowing shutdown of some fans in the cooler as process temperatures lower.
- » Bio-blasting the fins of fin cooler heat exchangers has proven to improve cooling efficiency over liquid cleanings up to 34%.
- » You can reduce the risk of fire by cleaning spilled hydrocarbons, asphaltines, coke, heavy ends, paraffin, sulphur, carbon, etc. from loading areas or other spill prone areas.

Key Benefits in Food Processing & Packaging

For food processors, dry ice blasting has been documented by the Food Standards Agency to effectively decontaminate surfaces of Salmonella, E. coli, and Listeria.

- » Reduce cleaning time by up to 80%
- » No secondary waste
- » Reduce water and sanitation costs
- » Clean hot and online
- » Non-abrasive, won't damage equipment
- » Eliminate re-lubrication
- » Reduce production downtime
- » Food grade dry ice approved by FDA
- » Dry ice cleaning has been effectively used in AIB inspected facilities
- » Environmentally responsible
- » All resulting in a significant reduction in overall cleaning costs

PART OF A FULL LINE OF SERVICES FROM USA DeBUSK:

- Hydro Cutting
- Hydro Blasting
- Hydro Excavation
- Vacuum Services
- Unit Clearing & Chemical Cleaning
- Degassing & Vapor Control
- Tank, Vessel, and Pipe Cleaning
- Hot Catalyst Handling
- Transportation & Storage
- Fixed Bed Inert Catalyst Handling
- Pigging & Decoking



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