

DRY ICE CLEANING IN THE OIL & GAS INDUSTRY



AMS
ASSET MAINTENANCE SOLUTIONS
BY TSG ENTERPRISE

AMS - Reduce nature harm with technology, to create value for customer

AMS

amsdryice.com



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ABOUT AMS

AMS IS GREEN TECHNOLOGY COMPANY

AMS is specialized in environmentally responsible restoration, surface preparation, part finishing, Dry ice supply system a contract service cleaning.

We provide the most technologically advanced dry ice cleaning system. To fulfill our mission of creating value to customer and protecting the environment , our machine and services produces media that is inert , non-conductive , non-corrosive and does not produce hazardous waste streams.

OUR MISSION

Protecting the Environment.

Improving organization efficiency

Ensuring employee safety

OUR VISION

Reduce nature harm with

technology, to create value for customer.

CORE VALUES

Enhancing operational efficiency

Prioritize the worker safety

Advancing dry ice technology

WE REUSE RECYCLED CO₂ TO REDUCE WATER CONTAMINATION

We are AMS

The global expert in environmentally sustainable cleaning, surface preparation chain management solutions.

Dry Ice Cleaning

AMS has developed the most efficient dry ice blast cleaning technology available. Our environmentally responsible systems are used for cleaning, surface preparation and parts finishing. Designed with unrivaled innovation, unmatched performance and based on years of customer input, our systems let you clean better and with less effort, thus increasing productivity and profit.

DRY ICE PRODUCTION

Our dry ice manufacturing technology offers the greatest level of reliability and the highest quality of extruded dry ice. Dry ice production systems are fully automated, provide the best output to footprint ratio,

- Aerospace
- Automotive
- Composites
- Contract Cleaning
- Electric Motor
- Food & Beverage
- Foundry & Metal Forming
- General Maintenance
- Oil & Gas
- Medical Device Manufacturing
- Packaging
- Plastics
- Power Generation
- Printing
- Restoration
- Textile
- Transportation
- Wood



Dry ice blasting effectively cleans upstream oil and gas equipment more quickly and efficiently

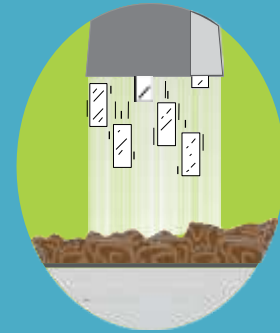
WHAT IS DRY ICE ?

Dry ice is a solid form of carbon dioxide.

Dry ice sublimates at 194.7 K (-78.5 °C; -109.2 °F) at Earth atmospheric pressure. is commonly used as it does not have a liquid state and sublimates directly from solid state to gas state. It is used primarily as a cooling agent , but now a days getting really popular among automobile and machining industries for cleaning purposes.



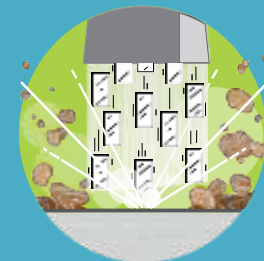
PRINCIPLE OF DRY ICE CO₂ CLEANING



DRY ICE ACCELERATED BY COMPRESSED AIR THROUGH A NOZZLE AT SUPERSONIC SPEEDS.



CONTAMINATED LAYERS BECOME BRITTLE AFTER RAPID COOLING AND ARE GRADUALLY RELEASED FROM THE CLEANED SURFACE



AFTER CONTACT WITH THE CONTAMINATED SURFACE, THE PELLETS CHANGE THEIR PHYSICAL STATE AND BECOME A VAPOUR, PERFECTLY REMOVING ANY CONTAMINATION.

HOW IS DRY ICE BLASTING USED IN INDUSTRY ?

Modernly year, we are currently used dry ice for cleaning which avoids damage to the equipment and all the dirt, grease, oil and many impurities and all contamination remove by dry ice cleaning but some time ago we used water and other chemicals, which caused damage to the environment and equipment, took more time while cleaning, due to which production And it used to take a long time to open and install the machine and labor cost was also high, but now **AMS** has started dry ice cleaning keeping in view all this, so that the time is less and the production is more, the maintenance cost comes down and there is no harm to the environment. Dry ice cleaning can save all equipment, save time and money.



EFFECTIVE CLEANING THAT
REDUCES SCRAP RATES AND
INCREASES PRODUCT QUALITY

Oil and gas companies are continually driving to improve efficiency, operate in a safe manner and reduce their impact on the environment. Traditionally water and pressure washing has been an effective method of cleaning – however the large quantities of water needed, and the contaminated secondary waste produced which has to be disposed of properly – make it a costly operation in terms of labour, financials and the negative effect on the environment.

Dry ice cleaning offers an effective alternative to pressure washing with water. Dry ice cleaning is chemical free, shot free, moisture free and creates no by product waste, is nonabrasive and non-flammable – it eliminates the need for cleaning water, and eliminates the need to dispose of that same water which becomes contaminated during the cleaning operation. Cleaning takes place hot and in situ reducing down time and helping to make your facility more efficient and improve productivity.



BEFORE



AFTER



WHAT CAN BE CLEANED IN OIL & GAS INDUSTRY

- TANK CLEANING.
- OIL MACHINERY.
- STORAGE VESSELS
- PIPE LINE CLEANING.
- VALVES AND GAUGES.
- HYDROCARBON SPILLS.
- WELLHEAD EQUIPMENT.
- NON-DESTRUCTIVE TESTING.
- OIL, BITUMEN AND CORRODING AGENT REMOVAL.
- FAILED COATING, CORROSION, SOLUBLE SALTS AND CHLORIDE REMOVAL.



BENEFITS

- Faster Than Cleaning By Hand
- Reductions In Waste Disposal
- Elimination Of Equipment Damage
- Elimination Of Solvents – No Toxicity
- It Can Handle Toughest Stains And Grime.
- Machinery Will Run Better And Last Longer
- Better And Faster Cleaning Than Most Methods
- Decrease Downtime Through Cleaning In-place
- Increased Safety For Employees, Equipment, Products And The Environment

FEATURE

- It can clean sensitive tubes without damaging it
- Removal of residue such as oil, grease, dust accumulated
- Cleaning of hard to reach areas or in difficult shapes and crevasse

WHAT DRY ICE CLEANING CAN DO

- 1) Improving Quality
- 2) Increasing Productivity
- 3) Prolonging Equipment Life 1
- 4) Improving Worker Safety
- 5) Reducing Costs
- 6) Supporting Environmental Initiatives

ADVANTAGE

- NO SECONDARY WASTE.
- NON ABRASIVE
- NON CONDUCTIVE
- ECO FRIENDLY
- NON TOXIC
- FASTEST METHOD





CONTACT US



<https://amsdryice.com>



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