ICE-JET Series Dry Ice Blasting Machine

ICE-JET series is a versatile dry ice blasting machine that can be used for light, medium up to tough application with low dry ice consumption.

DRY ICE CLEANING MACHINE APPLICATIONS

- Automotive industry
- Surface treatment industry
- Mold industry
- Plastic & rubber industry
- Printing industry
- Food & Medical industry
- Energy industry
- Electronics industry
- Aerospace & defense industry
- Fire & historical restoration

FEATURES

- Made of SUS304 stainless steel, which is corrosion-resistant and oxidation-resistant.
- User-friendly control panel
- Ice outlet rate and air inlet pressure can be adjusted.
- The ice conveying system is made of special materials, which makes the ice jet smoothly and can work continuously at ultra-low temperatures.
- The air filtration system is equipped to filter the compressed air secondly, avoiding impurities entering into the dry ice cleaning system.
- The ice spraying hose is connected with the equipment through a quick joint, which is convenient for disassembly and maintenance.
- Four casters with brakes let the machine can be moved 360° & easily.

PARAMETERS

Model	ICE-JET 3.0	ICE-JET 6.0	ICE-JET 15	ICE-JET 40
Dry Ice Capacity	3KG	6KG	15KG	40KG
Dry Ice Consumption	20-50KG/H	20-50KG/H	30-100KG/H	30-100KG/H
Supply Pressure (User-supplied)	3-10bar	3-10bar	3-10bar	3-10bar
Air Consumption	1-2m^3/min	1-3m^3/min	1-4m^3/min	1-5m^3/min
Weight	40KG	50KG	65KG	80KG
Dimensions	460×340×750mm	460×350×850mm	550x445x985mm	650x550x1000mm
Total Power	<500W	<800W	<800W	<800W

- Working noise: 60-100db
- Voltage: 220V 50Hz 1Ph, others can be customized.

CONFIGURATION

Blasting gun, nozzles, blasting hose, air supply hose, earplug, goggle, ice hopper.

PACKAGE & WARRANTY

- Package: International Standard Veneer Case
- Warranty: One year

KNOW MORE ABOUT DRY ICE BLASTING TECHNOLOGY

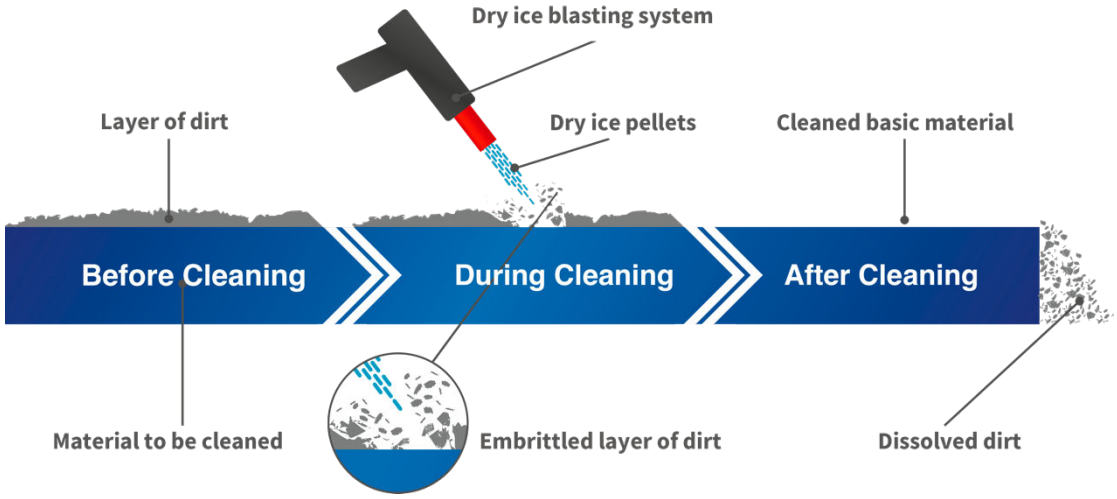
WHAT IS DRY ICE?

Dry ice is the solid state of carbon dioxide (CO_2) formed at a temperature of -79 °C.

Carbon dioxide is naturally found as a gas on Earth. It is non-toxic and tasteless, and often used to saturate drinks to give them a fresh taste and prolong consumption. Dry ice is also used in the food industry to cool food or applied in health services.

DRY ICE CLEANING THEORY

When the dry ice cleaning machine forces tiny dry ice pellets blasted on to a surface, the unwanted contaminants freeze and fracture, then an explosion of energy takes place, resulting in the thorough removal of unwanted coating, such as grease, oil, paint, rust, adhesives, tar, ink, dirt, resins, etc.



THREE TYPES OF PHYSICAL INTERACTION DURING DRY ICE BLASTING PROCESS

1. The kinetic effect: the dry ice particles being accelerated to high speed.
2. The thermal effect: the dry ice particles hit the dirt layer at -78.5° C, cool it down abruptly, it contracts and forms cracks. Due to the different coefficients of thermal expansion, the compound between the surface and the dirt is loosened.
3. The sublimation: on impact, the carbon dioxide directly transforms from a solid to a gaseous state and expands about 700 times the volume in a split second. This expansion literally ‘blasts off’ the dirt from the surface. As a result, only the dissolved dirt particles remain at the end of the cleaning process and can be easily disposed of.

WHY CHOOSE DRY ICE CLEANING METHOD?

Dry ice blasting is a cleaning method that is effective, gentle on the cleaned materials, and environmentally friendly. The dry ice cleaning process only removes residues and no secondary waste is produced. Dry ice lets you gently and ecologically clean deposits of sediment and residue without needing to dismantle any of your equipment. Therefore, save time and considerable monetary costs.

Detailed speaking, dry ice cleaning method has the below advantages:

- No water is required, non-conductive, no need to dry allows for immediate use after cleaning.
- No chemical is required, no secondary waste, environmentally responsible.
- Clean in-place, no disassembly required, no need to rinse or cool, reduce production downtime and unplanned maintenance, increase production efficiencies.
- Clean faster and more effectively, decrease cleaning time and labor costs.
- Non-abrasive, eliminate wear and tear on machinery or parts.
- It is also non-toxic, odourless, and suitable for any surfaces – metal, wood, and concrete, even on fine wood grains, glass, or textiles.
- It is workable for different dirt/coating, such as grease, oil, paint, rust, adhesives, tar, ink, dirt, resins, etc.
- Dry ice can inhibit the growth of bacteria. The dry ice cleaning process also stops the growth of fungi and spores and reduces the presence of other biological contaminants.

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