

Dry Ice Blast Cleaning

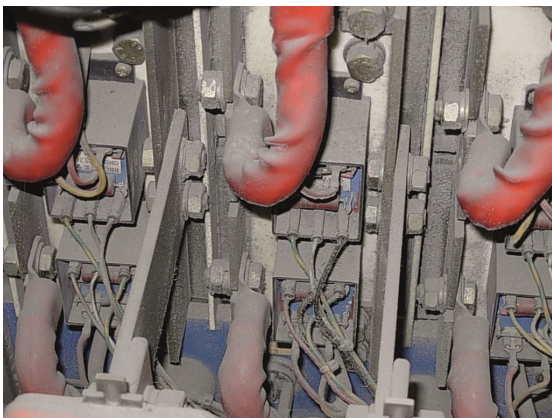
The Cleaner Alternative

What is Dry Ice Blast Cleaning?

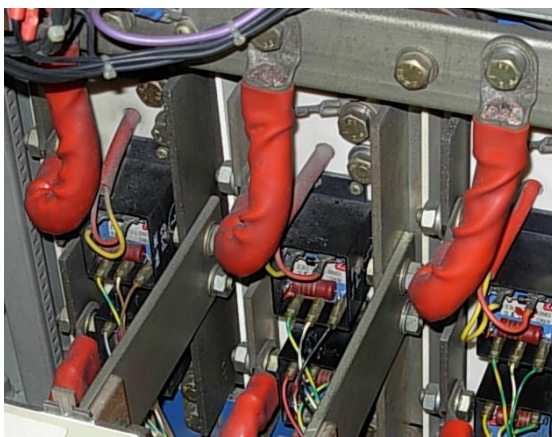
Dry Ice Blast Cleaning offers an environmental solution in the removal of surface contaminants found within a multitude of industrial applications. The system provides a rapid and non-abrasive alternative to traditional methods of surface cleaning.

The equipment operates by accelerating dry ice through a compressed air stream, impacting the particles upon the surface being cleaned.

The process provides a dry and abrasion free clean, and because the dry ice pellets sublime immediately upon impact (turns from a solid to a gas), there is no secondary waste disposal necessary.



Before (photographs courtesy of NIDD)



After (photographs courtesy of NIDD)

Why is Dry Ice Blast Cleaning so effective?

Kinetic Energy

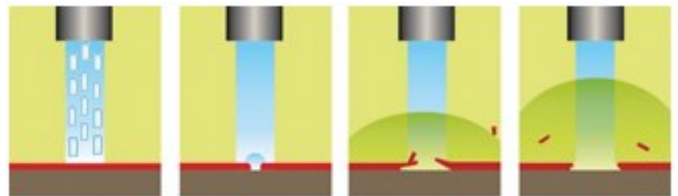
As with traditional methods, the velocity and mass of the media upon impact transfers the required energy to the surface being cleaned. Whilst this principle is, traditionally, responsible for the majority of work in blast cleaning, it only reflects one aspect of Dry Ice Blast Cleaning.

Thermal Differential

The temperature of dry ice upon impacting the surface is -78.6°C . The temperature differential established promotes contraction and expansion, which aids the removal process.

Reverse Fracturing

The dry ice particles sublime immediately upon impact and enter through spaces behind the contaminant at more than 500 times their original volume, lifting it away from the surface being cleaned.



Dry ice pellets are accelerated through a compressed air stream, impacting the particles upon the surface being cleaned.

Application Support

To support the application, Praxair has robust dry ice supply sources available throughout Europe. This is supported by an efficient and flexible distribution system. Praxair customers can, therefore, always rely on receiving expert advice and support as well as uninterrupted supplies of high quality product.

Industry Examples

Established Industries	Typical Contaminants Removed
Aerospace	Paints, carbon deposits, greases and waxes
Automotive	Weld spatter, foam, sealants and release agents
Electrical	Carbon deposits and grease
Fire/Restoration	Carbon deposits from smoke damage
Food	General food waste and carbon deposits
Foundry	Grease, weld spatter and lubricants
Laminate/Composite Board	Glues, varnish and resins
Packaging	Hot melt adhesives, ink overspray, label adhesives and waxes
Printing	Inks, paper dust and glues
Rubber and Plastics	Rubber, plastic and polyurethane deposits

Key Advantages of Dry Ice Blast Cleaning:

Reduction in Operating Costs - Dry Ice Blast Cleaning allows for online cleaning in many applications. This removes the need for prior dismantling of equipment and, therefore, significantly reduces downtime and cost.

Non-Abrasive Cleaning - As Dry Ice Blasting offers an abrasion free clean, it can even be used on precision tooling and electrical equipment.

No Secondary Waste - Only the surface contaminant being removed requires disposal, as the dry ice sublimates immediately upon impact.

Environmentally Friendly - Dry Ice Blast Cleaning is a non-toxic and non-corrosive process. There is no need for hazardous solvents or chemicals, or for their controlled and costly disposal.



Who are the Suppliers of Dry Ice Blast Cleaning Equipment?

Praxair is pleased to assist with any enquiries you may have regarding the supply of Dry Ice Blast Cleaning Equipment, or contract cleaning. We have long established partnerships with Europe's leading equipment and contract cleaning providers, and are confident in supporting any requirements you may have.

Why not contact us for more information at:

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