



the drayton group | simply the best



dry ice blasting **The Perfect Solution**

Every now and then something comes along that revolutionizes an industry: the digital camera, the hybrid automobile, the cell phone.

In our business it's been dry ice blasting — the perfect solution to the multiple problems implicit in traditional cleaning methods: water blasting, steam cleaning, solvent cleaning and grit blasting.



Technical Machine Cleaning

Ventilation Mechanical Hygiene

Dry Ice Blasting

Manpower Placement

Facility Services

Cleans faster and better ... dry ice blasting cleans faster and eliminates the need for the disassembly/reassembly of the equipment being cleaned. Cleans crevices that can't be reached by hand.

Reduces downtime ... dry ice blasting cleans-in-place. Parts and tools normally cleaned in blasting rooms can be cleaned on-line. In the food industry, for example, ovens can be cleaned without disassembly or having to be pre-cooled.

Reduces equipment damage ... dry ice blasting is non-abrasive and will not damage critical equipment. Surface integrity is preserved. Because dry ice sublimates (evaporates) on contact, there are no issues of grit entrapment. Contaminants are lifted away.

Reduces waste disposal ... the CO₂ pellets sublime upon contact; the only waste created is the contaminant itself. In other methods, the cleaning agent itself becomes a secondary contaminant which must be disposed of.

Reduces liability ... dry ice blasting eliminates the expense and hazards of chemical cleaning and avoids costly environmental clean-up. Removes the risk of product contamination from wire brush bristles. Can be used around electrical components where water can pose a serious risk.

Reduces costs ... Because dry ice blasting reduces labor cleaning costs, equipment downtime, scrap runs and waste disposal costs, you'll realize a quicker return-on-investment.

How Dry Ice Blasting Works

In dry ice blasting solid CO₂ pellets are converted directly from a solid blast pellet to CO₂ pt gas, leaving no residue.

The process involves propelling dry ice particles from a special blasting gun at a hyper-velocity to impact and clean a surface. The particles are accelerated by compressed air, similar to other blasting systems.

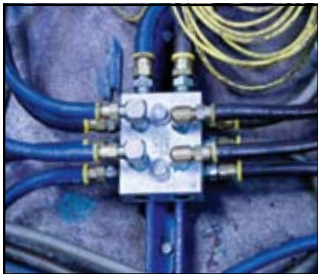
The Better Alternative

The micro-thermal shock (caused by the dry ice temperature of -79° C), the kinetic energy of dry ice pellets and the air pressure break the bond between the coating and the substrate.

The dry ice sublimates to a CO₂ gas and expands to 400 times its original volume. The coating then pops off from the inside out and the air stream removes it from the surface ... while creating no secondary waste stream.



before / after



Applications
Dry ice blasting is quickly becoming the cleaning method of choice in a range of industries:

Automotive
Food and Beverage
Adhesives
Printing/Paint
Electrical Utilities
Foundry
Electric Motor Windings

Plastics
Wood and Paper Industry
General Maintenance
Fire Restoration
Pharmaceutical
Mold Remediation



SBA Section 8 Certified



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