

# Dry Ice Blasting: The Green Clean.

A safe alternative for you and the environment



## Dry ice blasting is clean and safe

- Dry ice has been approved by the EPA, FDA and USDA as an acceptable material in cleaning methods.
- For food processors, dry ice blasting has been documented by the Food Standards Agency to effectively decontaminate surfaces of Salmonella, E. coli, and Listeria.
- Dry ice blasting does not release harmful gases into the atmosphere.

Dry ice does not produce CO<sub>2</sub> or add CO<sub>2</sub> to the atmosphere and therefore does not contribute to the greenhouse effect.



- Dry ice blasting does not generate secondary waste.
- Dry ice blasting is safe and non-toxic (once pellets impact the surface they dissipate).
- Dry ice blasting reduces or eliminates employee exposure to (and corporate liability from) the use of dangerous chemical cleaning agents.

## Environmentally Responsible

In addition to being clean and safe, it is also important to remember that dry ice is obtained as a byproduct of other industrial processes - i.e. it is made from reclaimed CO<sub>2</sub>. It does not produce CO<sub>2</sub> or add CO<sub>2</sub> to the atmosphere and therefore does not contribute to the greenhouse effect. Dry ice blasting is truly, and completely, environmentally responsible.

## Other cleaning methods can be toxic

- When using solid grit media or water for cleaning hazardous materials, the cleaning medium also becomes hazardous, requiring special handling, disposal and regulatory reporting. Dry ice creates none of these waste stream additions.
- Sand, soda, or water blasting can create downstream contamination that affects surrounding installations.
- Soda blasting can kill surrounding vegetation.
- Chemical and solvent cleaning methods are toxic, which creates toxic waste requiring disposal.
- Workers are exposed to potentially harmful substances through the use of chemicals and solvents.



*"We've been able to cut back on our use of chemical solvents. We use about 25% of what we used to, which makes us a much more environmentally friendly company."*

**Matt Schriфт**, Engineer  
Robotworx



*"It's better for the people and better for the environment. This technology has shaved time, and allowed us to reduce our use of chemicals."*

**Bob Hawkey**  
Versa-Trim

**"Using dry ice blasting reduces harmful air emissions and generally creates no addition to the volume of the cleaning process waste stream... in-process machinery can be cleaned on-line, resulting in decreased labor costs and less down-time."**

EPA technical fact sheet for TCA hazards and alternatives. EPA 905-F-00-026

