



COLD HARD FACTS



PLASTIC, FOAM, AND RUBBER MOLDS
INDUSTRY | DRY ICE BLASTING

ARTICLE

WHY DRY ICE BLASTING?

As one of the top companies in the dry ice blasting industry, we understand the numerous benefits this cleaning method offers in the plastic and rubber molds industry. Dry ice blasting is a fast and effective cleaning solution that surpasses traditional methods.

When the pellets of CO₂, also known as “blasting rice,” are propelled at high speeds, they sublime immediately upon impact, transferring kinetic energy to the surface and cleaning any existing sludge or debris.

Since it leaves behind no residue, dry ice blasting has become one of the most efficient and environmentally friendly methods to clean an industrial or domestic environment. The unique composition of dry ice makes it an innovative solution for cleaning plastics and rubber molds equipment.



Here are the key benefits of dry ice blasting for plastics and rubber molds:



▪ **Gentle and non-destructive**

Dry ice blasting offers a gentle and non-destructive cleaning process for plastic and rubber molds. The dry ice pellets vaporize upon impact, minimizing the risk of damage to delicate mold surfaces. This ensures the longevity and integrity of the molds, extending their lifespan and reducing the need for frequent replacements.



▪ **Eco-friendly and chemical-free**

Dry ice blasting is an eco-friendly cleaning solution that aligns with sustainability goals. It uses solid CO2 pellets, which evaporate into harmless gas upon impact, leaving no chemical residue or secondary waste to dispose of. This eliminates the need for harsh chemicals, solvents, or other media thus reducing environmental impact and ensuring a safer workplace for employees



▪ **Efficient removal of contaminants**

Plastic and rubber molds can accumulate stubborn contaminants such as release agents, residue, grease, oils, and polymer buildup. Dry ice blasting provides an effective method to remove these contaminants without abrasive scrubbing or harsh chemicals. The high-velocity dry ice pellets dislodge and lift off the unwanted substances, restoring the molds to optimal condition.



▪ **No disassembly required**

Unlike traditional cleaning methods that often involve disassembling the molds, dry ice blasting can be performed in place. This saves valuable time and eliminates the risk of damaging or misplacing mold components during disassembly. The non-abrasive nature of dry ice blasting allows for a thorough and efficient cleaning process without disrupting mold integrity.



▪ **Shortened cleaning cycles and increased productivity**

Dry ice blasting significantly reduces cleaning time and cycles in the plastic and rubber molds industry. The precision and speed of the process ensure swift mold restoration, allowing for quicker mold changeovers and minimizing downtime. This increased efficiency directly translates to improved productivity and overall operational output.



▪ **Versatile cleaning capabilities**

Dry ice blasting is highly versatile and can clean various types of plastic and rubber molds, regardless of their size, complexity, or surface texture. It effectively removes contaminants from intricate mold details, tight crevices, and hard-to-reach areas, ensuring a thorough and consistent cleaning result.



▪ **Enhanced product quality and reduced defects**

Clean molds are essential for achieving high-quality plastic and rubber products. By eliminating contaminants and residues that can impact mold release and product finish, dry ice blasting plays a crucial role in improving product quality and reducing defects. The result is a more consistent and reliable manufacturing process, leading to customer satisfaction and reduced waste.

In summary, dry ice blasting is a game-changer for the plastic and rubber molds industry. Its gentle yet powerful cleaning capabilities, eco-friendliness, efficiency, versatility, and positive impact on product quality and productivity make it an invaluable tool for mold maintenance and optimization. By embracing dry ice blasting, manufacturers can ensure cleaner molds, improved manufacturing processes, and ultimately, a competitive edge in your industry.

WHY NU-ICE?

With 10+ years of experience, which extends to our assembly facility as well, Nu-Ice provides dry ice blasting for unrivaled cleaning power without harmful chemicals. After extensive research, design and testing, we developed a line of high-performance dry ice blasting machines for an environmentally friendly cleaning solution.

The Commando line of dry ice blasters is ideal for various applications, and dry ice is the preferred cleaning method for food processing equipment, welding cells, fire restoration, historical restoration, power generation equipment and more. Using only standard dry ice pellets, Commando Dry Ice Blasters easily remove production residue, grease, oils, tar, mold and other materials

As a family and veteran-owned company based in Jackson, Michigan, we're proud to say all of our dry ice blasting machines and accessories are proudly **Made in the USA.**



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