

THINK ENVIRONMENTAL,
THINK COST SAVINGS,
THINK RESULTS ... THINK ICE BLAST!

ICE BLAST IS CHEMICAL-FREE

The ice blast cleaning technology is inherently benign. No chemicals, no dust, no life-ending blast stream. There is just less likelihood that an accident will lead to a catastrophe when using ice blast. Whether you are cleaning parts, tools, or manufacturing equipment and facilities, you will find that ice blast can offer a more environmentally sound option - no dust, no chemicals, and waste minimization, to get the job done right.

1. Proven reliability
2. Superior cleanliness
3. Low waste generation
4. Simple equipment operation requiring little maintenance
5. Compact size of equipment
6. No recycling or waste water processing requirements
7. Low operating cost
8. Environmentally sound

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INDUSTRIAL CLEANING & PARTS CLEANING - A NEW PERSPECTIVE


COULSON
= ICE BLAST =



The Montreal Protocol mandates the elimination of Ozone Depleting Substances (OPS), which has greatly affected the industrial parts cleaning industry in the following manner:

- Commodity price and delivery of a cleaning chemicals is now a careful study in MSDS. (At one time, just about any chemical could be purchased easily, in bulk. Now, there are strict guidelines to follow when purchasing chemicals, even in minimal quantities.)
- There has been a shift in thought. It is no longer feasible to just clean parts as an after thought. Manufacturing specs now call for stringent control of less than 10 mg contamination per part.
- Small problems are now big problems. Today's parts are generally very small. In the automotive industry, the government mandates higher gas mileages. Contamination of any proportion has huge implications, especially on the smallest parts.

Many of the "new" cleaning technologies, mostly modified chemical solvents and aqueous solutions, have been developed for a specific application. But, in general, they are a stop-gap solution. Future development must further address issues such as:

- environmental awareness
- worker safety
- cost effectiveness
- cleaning capability
- long-term health liability
- resource conservation
- future regulatory
- compliance issues

Ice Blast is the Answer to the Issues

Ice blast uses 27 gallons of water to produce 270 pounds of crystalline ice per hour. Water blast uses thousands of gallons of water per hour, but cannot provide the same level of cleanliness as ice blasting, even with chemical additives.

According to the 3M Corp., aerospace and medical device manufacturers are still using CFC's because they have not found effective replacement systems. CIB has been working (and continues to do so) with clients on some solvent replacement cleaning processes using the ice blast cleaning technology.



The ice blast technology needs to be recognized for its environmentally-friendly features. Once endorsed, the ice blast technology will find its way into thousands of plants and factories worldwide.

SOMETHING'S GOT TO GIVE

According to industry watchers, trends in California (set by the South Coast Air quality Management District (SCAQMD) and the Bay Area Air Quality Management District (BAAQMD)), are gaining attention nationally.

High on the priority list of these organizations:

1. Reducing particulate matter (PM), more commonly known as dust, and
2. Reducing VOCs (Volatile Organic Compounds)

The ice blast technology already offers these benefits to users:

- It produces no dust in operation
- It eliminates the use of chemicals in plant and equipment cleaning

CLEANING WITH CHEMICALS CAN BE HAZARDOUS

In 1997, an explosion, and subsequent fire, at LG Epitaxy in Santa Clara, Calif. killed a worker who had grabbed and mixed a wrong cleaning chemical. He was responsible for his own death, according to an investigation, because he did not wear an acid-resistant apron to protect himself!

The moral of the story is this: cleaning with chemicals can be very hazardous. Accidents do happen and they can be devastating.