ADVANCED DRY ICE CLEANING SOLUTIONS

- Minimizes production downtime
- No water
- No chemicals
- No secondary waste
- No abrasion of treated surfaces
- Environmentally friendly

ADVANCED SURFACE TREATMENT TECHNOLOGY

FerroECOBlast®

EUROPE

in partnership with

Aquila

TRIVENTEK

ferroecoblast.com

AIR BLASTING | SHOT PEENING | WET BLASTING | PAINT STRIPPING | DRY ICE & DRY SNOW CLEANING
SODA BLASTING | ULTRA HIGH PRESSURE WATER JETTING | ENAMELING & COATING SOLUTIONS
FerroECOBlast is a leader in the development and production of surface treatment technologies and machinery.

Our philosophy is keeping track of new technologies and constantly develop through innovation and research. This enables us to be one of the top suppliers of technological solutions in the fields of air blasting, shot peening and industrial surface cleaning technologies. We are present at all the most important exhibitions in the world and we attend and hold lectures about surface treatment technologies and solutions.

We shape the surface treatment industry with our constant research and development

We are a problem solvers

We strive for a superior customer experience

- Over 55 years of know-how, tradition of innovation and excellence
- More than 1.000 successfully installed custom made solutions worldwide
- Highly motivated, educated and experienced team
- Our own laboratory and research center
- Prompt after sales activities
- Satisfied customers in the most demanding global companies
What is **DRY ICE**

Dry ice cleaning is indispensable in the modern production process. Cleaning or removing dirt and residues can be done directly on machines, hot tools, etc., without wasting precious time and money dismantling and reassembling.

This type of cleaning technology is very similar to sandblasting, where a medium is accelerated with a pressurized air stream to impact a targeted surface, except that the effect is doubled. With the difference in temperature, dry ice creates tensions and fractures on the surface layer, and with the kinetic energy of its pellets removes deposits without damaging the base material.

Due to its soft means of application, dry ice cleaning is in many ways superior to sandblasting. It does not pit or damage the underlying surface and sublimes quickly into the air. It leaves no secondary residue and does not erode or wear away the targeted surface. Tolerances are preserved and most equipment and machinery can be cleaned while in place, no transport needed.

**DRY ICE** can be used for **cleaning**, in the **food and wine processing industry**, **cooling**, **catering**, etc.

**DRY ICE** advantages:

- Cleans numerous objects with varying complex geometries in one go
- Equipment is cleaned on location, thus minimizing production downtime
- Quick evaporation that leaves no waste - only removed material
- Dry ice transforms into harmless carbon dioxide gas
- No water - no possibility for microorganism growth
- No chemicals
- Non-abrasive, no damage to the surface

Environmentally friendly process with net zero carbon footprint.
Each of our dry ice automatic cleaning solutions is unique and well configured to solve the biggest problems and satisfy even the most demanding clients.
The most important task of every automatic or robotic cleaning solution is the permanent and continuous supply of a controlled amount of dry ice pellets to the nozzle.
BLASTER BL25 MINI

The BL25 is a high-performance dry ice blasting machine that is developed for the small but frequent cleaning jobs in factories and workshops. The BL25 is used for both heavy contaminations as well as delicate cleaning tasks. Its small size makes it very mobile in confined spaces. It can operate with limited air supply (as low as 70L per minute).

BLASTER BL60

A new generation of blasters with improved rotary air-lock system and a large hopper with a capacity of 23kg which enables continuous dry ice flow. The emphasis was put on sustainability, affordability, and efficiency. A powerful and reliable machine for everyday jobs.

PELLETIZER PE80

The pelletizer enables users to manufacture dry ice directly into the blaster or into a storage container. High-density pellets can be produced in any size from 1.7mm to 16mm.

RECOVERY UNIT RE80

The revert gas that would otherwise go to waste is collected, chilled, compressed to liquid CO₂, and sent back to the pelletizer to produce more dry ice pellets. Low energy and CO₂ consumption (saves up to 0.8 kg of LCO₂ per kg of produced dry ice) significantly reduce your dry ice production costs.
What is DRY SNOW blasting

Similar to the dry ice blasting/cleaning process, the special feature of snow blasting is that liquid CO₂ is first converted into standard pellets and immediately after to very small solid CO₂ snow particles at a temperature of -78.5 °C. Uniform micro crystals have better density in the airflow and much less kinetic energy, making the impact on the surface of the object being cleaned extremely gentle. Working pressure can be significantly lower and the consumption of dry snow crystals is easily controlled. Our snow cleaning method is the next step of cleaning very demanding and precise objects that are too sensitive for classic cleaning processes.

WHERE do we apply it?

FerroECOBlast’s snow blasting technology is best applied in the cleaning of demanding and sensitive components, like electronics, fine mechanical parts etc. It is also becoming increasingly popular for final pre-cleaning or activating surfaces prior to painting metal or plastic parts of any size both in individual and serial production.

We offer our own know-how, procedures and equipment for cleaning of very sensitive and delicate surfaces with innovative, manual or automated/robotized snow blasting technologies in the mass production of automotive, aerospace or medical instruments and components.

DRY SNOW advantages:

- The only system on the market that provides 85% efficiency in obtaining dry ice pellets from liquid CO₂
- Fast, cost-efficient and safe cleaning process
- Easy automation and process monitoring with reproducible features
- High cleaning and pre-cleaning efficiency of a wide range of materials
**DRY ICE / SNOW**

**IS APPLICABLE TO:**

<table>
<thead>
<tr>
<th>INDUSTRY</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>FOUNDRY INDUSTRY</strong></td>
<td>Everyday cleaning of dies/molds directly on die-press machines is a necessity for modern-day foundries.</td>
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<tr>
<td><strong>AUTOMOTIVE INDUSTRY</strong></td>
<td>Surface preparation before painting has never been easier than today with dry ice/dry snow cleaning.</td>
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<tr>
<td><strong>AEROSPACE INDUSTRY</strong></td>
<td>From landing gear systems to cargo bays, dry ice blasting has proven to be an ideal solution for many cleaning applications in the aircraft and aerospace industry.</td>
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<tr>
<td><strong>DEBURRING</strong></td>
<td>Dry ice blasting is an effective solution to remove burrs and flash from machined and molded parts.</td>
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<tr>
<td><strong>PLASTIC &amp; RUBBER INDUSTRY</strong></td>
<td>Dry ice cleaning technology provides plastic &amp; rubber manufacturers with a non-abrasive and environmentally friendly method of cleaning their molds.</td>
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Dry ice cleaning **reduces** production downtime and costs.

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