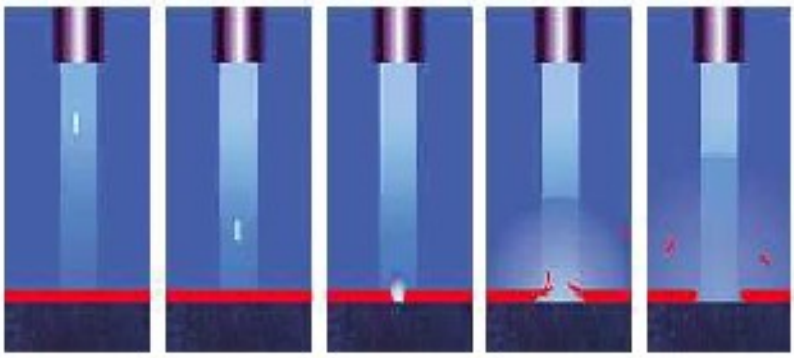
CRYOS

Dry Ice Blasting



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General information

Dry ice blasting is a new effective technology in the modern industrial cleaning.
- Time saving
- Cost saving
- Clean environment

are among the many advantages of dry ice blasting operations.

Cryos is an innovator and a leader in the Italian market of dry ice blasting with over 10 years of experience.

Dry ice blasting makes use of solid CO2 pellets, at -78° celsius, produced from liquid CO2 and by mean of a pelletizing machine.

The liquid CO2 evaporate making CO2 snow, this is compressed by a piston then extruded as pellets.

Technology

Principle of operations:

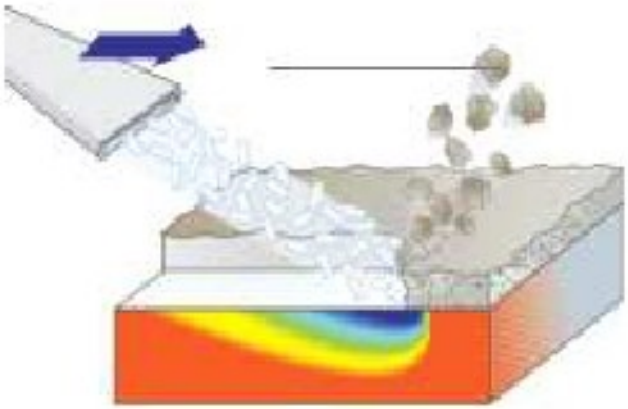
The heart of the system is the cryoblast unit Cryos BG01.

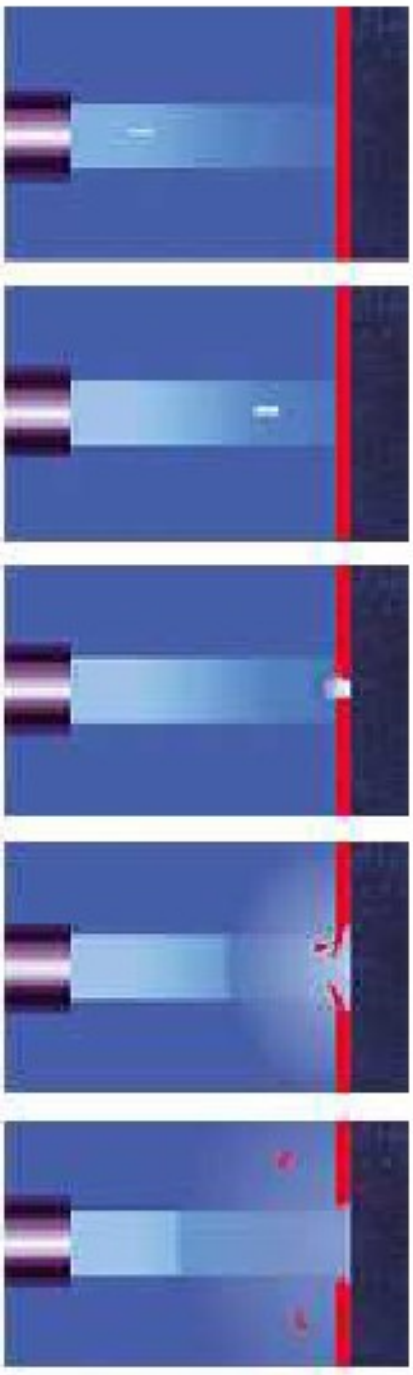
The machine uses CO2 pellets from its tank and it pushes them to the chamber where the compressed air accelerate them.

The special shape of the nozzle further accelerate the CO2 pellets to the high speed of 300m/s.

The pellets hit the surface to be cleaned and mechanically remove all dirt. The pellets then evaporate and dissolve into air leaving a clean and dry surface.

Dirt particles fell down by gravity and they are easily removed.





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Dry ice blasting system

Advantages of dry ice blasting in the field of industrial cleanings:

- No need of harmful chemicals
- High quality of cleaning, no residuals
- Low cleaning time, fast operations
- Low downtime for the machines to be cleaned
- Low cost of cleaning agent
- Not corrosive, not abrasive action

- Compressor size: 2.5m3/h min
- Compressor pressure: 4 bar min

- ISO container: Cryos 200 lt
  or
  Cryos 400 lt

- Cyojet system: Cryos BG01

- Safety devices:
- - protective eyewear
- - low temp gloves
- - ears protection
- - work gear clothes

Examples of application

Automotive industry:

Fast cleaning of
- welding jigs, robots and parts
- painting guns, trolleys etc.
- transport lines
- assembling devices

Refineries, petroleum industry:

Fast cleaning of
- processing plants
- tanks, pipes and valves
- mixing devices
- probes and measuring devices

Naval industry:

Fast cleaning of
- hulls and keels
- engines and propellers
- rusted parts
- difficult access areas

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Examples of application

Paper / newspaper industry:

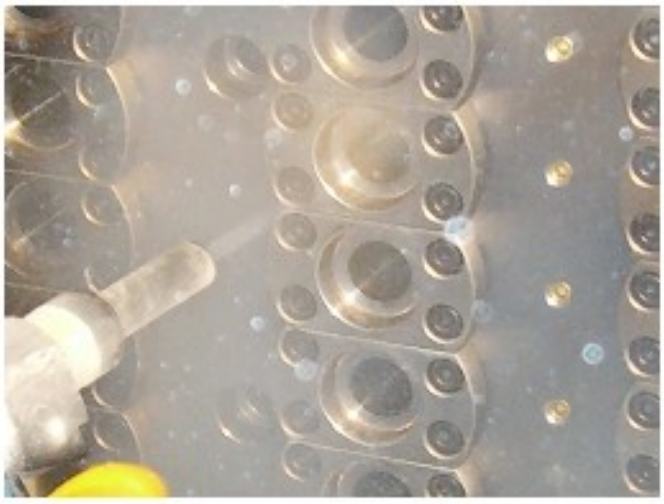
Fast cleaning of
- printing cylinders
- paper feeding machines
- ink devices
- rollers, chains, belts

Food industry

Fast cleaning of:
- processing plants
- transport belts and lines
- mixing devices
- owens
- food itself

PET injection industry:

Fast cleaning of
- molds
- injection devices and areas



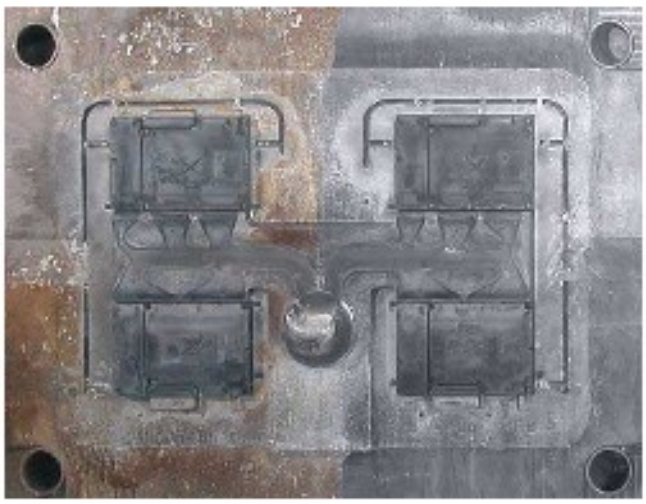
Examples of application

Shoes industry:

Fast cleaning of
- molds for rubber parts
- injection devices
- various machinery

Construction industry:

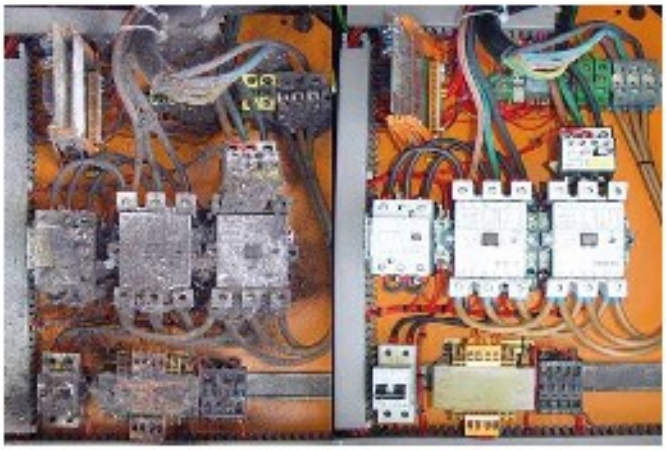
Fast cleaning of
- internal walls
- ceilings and wood floors
- after a fire restoration
- antique parts
- archeology



Molding industry:

Fast cleaning of
- molds in general
- no surface damages
- hot surfaces don't need cooling

Advantages within classic applications



Electrical industry:

Fast cleaning of switches, boards, connectors, circuits and electrical lines with no damage to electrical devices. Circuits immediately available after cleaning

Electro-mechanical industry:

Fast cleaning of copper, aluminum and rubber surfaces with no damage to insulating layers and electrical devices

Paint removal:

Fast cleaning of multiple paint layers with no damages to original surface and its immediate availability

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Cryoblast unit

CRYOJET BG 01

Dimensions:	Width=500mm Depth=950mm Height=1150mm
Weight:	109 Kg
CO2 capacity:	22 Kg
Working pressure:	0-15 bar
Working air flow:	3.5-12 m3/min
CO2 blasing capacity:	0-180 Kg/h
Power:	1.5 Kw @ 230V
Blasing systems:	mono-hose double-hose

CRYOJET BG 02

Dimensions:	Width=500mm Depth=950mm Height=1150mm
Weight:	102 Kg
CO2 capacity:	22 Kg
Working pressure:	0-7 bar
Working air flow:	2.5-4.5 m3/min
CO2 blasing capacity:	0-130 Kg/h
Power:	1.5 Kw @ 230V
Blasing systems:	mono-hose only

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Containers ISO

ISO 200

- Dimensions: Width=990mm
  Depth=920mm
  Height=690mm
- Container weight: 75 Kg
- Volumetric capacity: 255 lt
- Dry ice capacity: 200 Kg
- Body material: 7mm polyester resin
- Insulating material: medium density poli-urethanic foam
- Insulating thickness: 95mm
- Locking system: Airtight with gasket
- Hinges and locks: Steel
- Opening system: 90° with air piston
- Bottom system: Steel base with wheels

ISO 400

- Dimensions: Width=1200mm
  Depth=1000mm
  Height=920mm
- Container weight: 95 Kg
- Volumetric capacity: 490 lt
- Dry ice capacity: 400 Kg
- Body material: 7mm polyester resin
- Insulating material: medium density poli-urethanic foam
- Insulating thickness: 95mm
- Locking system: Airtight with gasket
- Hinges and locks: Steel
- Opening system: 90° with air piston
- Bottom system: Steel base with wheels

Thanks for choosing Cryos