

## Dry ice cleaning

REYM is an industrial service provider. We support our customers in the field of industrial cleaning, transport and waste management, always acting from our mission 'Industrial Services our concern' and driven by our core values.



If cleaning with water under high pressure or with blasting agents is not possible, REYM has a different method of cleaning in its package, namely dry ice cleaning or dry ice blasting.

Dry ice blasting is an environmentally friendly way of cleaning using frozen carbon dioxide instead of water. Using compressed air, very small chunks of ice are blasted onto the material to be cleaned at a temperature of  $-80^{\circ}$  Celsius. These flakes of ice (frozen carbon dioxide) evaporate immediately after use, so that both the surface and the waste remain dry. This means that no additional waste is generated, which is not only environmentally friendly, but also cost-saving.

REYM uses dry ice cleaning if cleaning with water under high pressure and/or blasting agents is not possible or

undesirable. A dry ice blasting unit is used for cleaning. This unit is mobile, so REYM can clean at the desired location. The advantage of this is that machines do not have to be dismantled and transported. This prevents any production shutdowns.

The dry ice blasting unit works as follows:

Small dry ice pellets are accelerated by a steel nozzle, using compressed air ranging from 2.5 to 16 bar. When the pellets touch the surface to be cleaned, their kinetic energy allows them to penetrate to the surface. Here they crush and push particles laterally in all directions (mushroom effect), thus removing the contamination from the substrate. The dry ice pellets immediately sublimate, i.e. immediately switch from solid to gas. The expansion of dry ice of solid matter also exerts a lifting force, so that the contamination is removed very quickly.

**Applications:**

Objects that were previously cleaned by hand and/or are not resistant to water can now be cleaned with dry ice blasting.

Conveyor belts cast iron moulds, plastic moulds or metal partridges and machine parts, which are normally cleaned with toxic chemicals or environmentally unfriendly substances, can also be cleaned with dry ice blasting.

Dry ice blasting can be used to remove oil, grease, wax, resin, glue, ink, plastic, rubber, dye, bitumen, gum, chewing gum, paint and lacquer.

If you would like more information, please contact one of the REYM branches in your region.

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