



## Dry Ice Cleaning for the Industry and Overhaul Workshops





## **What is dry ice?**

Dry Ice is the Name for solid CO<sub>2</sub>. At Atmospheric Pressure it has a Temperature of approx. -79° C (-110,2 °F). The evaporation is residue free. Dry Ice is non toxic, non flammable, inert, tasteless and odourless. It is white and has a density of approx. 1'500 kg/m<sup>3</sup> (93,64 lb/ft<sup>3</sup>) in its compact form.

## **How does Dry Ice clean?**

The Dry Ice Blasting Machine accelerates with compressed air the Dry Ice Pellets to a speed of approx. 300 m/s (984,25 ft/s). The Pellets hit the Object to be cleaned. The surface is shock-frozen in a Fraction of a second. Due to the sudden Thermo Shock generated on the Surface to be cleaned, the Coating/ Dirt contracts, becomes brittle and cracks. Due to the cracking of the Surface, the Pellets can reach under the Dirt and remove it. The additional kinetic Energy removes the Coating/Dirt from the Surface. Immediately after impact, the Pellet sublimates and goes back to Atmosphere as a pure Gas (CO<sub>2</sub>) without leaving any moisture behind. The only thing left is the Coating/Dirt removed from the Surface and no Blasting Media has to be disposed of. Since the hardness of the Pellets the cleaning is virtually non-abrasive, and the Surface Quality is maintained.

### **The Thermo Shock**

As a result of the sudden and intense Temperature Shock on the surface, the Coating or impurity contracts.

### **The cracking**

As a result of the contraction the Coating Cracks and the Material becomes brittle due to the cold.

### **The cleaning**

The dry ice Pellets hit the surface with great Speed and remove the detached Coating and clean the surface Material.



## **The Industrial Allrounder**

With its powerful one-hose-system, the Dry Ice Blasting Unit ASCOJET 1701 is the ideal combination of high Performance and easy Handling.

The Dry Ice Blasting Unit ASCOJET 1701 is a compact, mobile and is mounted on 4 wheels. It is supplied with 7.5 m (295.28 in) single hose and high Pressure Gun. It is equipped with a regulator for setting the working pressure and Dry Ice consumption on the control Panel. The powerful ASCOJET 1701 is suitable for Industrial End Users like Repair- and Overhaul Workshops, Tyre Manufacturers, Food Industry, Car Industry and the Printing Industry who require high Performance.

## From liquid CO<sub>2</sub> into dry ice



Typical 30 ton Tank for storage liquid CO<sub>2</sub>

## From liquid CO2 into dry ice



**Dry Ice Maschine**



**Dry Ice**

As a provider of complete CO2 Solutions, we not only provide Quality Dry Ice Production Machines in various capacities, but we can also Partner with you to assist with setting up your own in-House Dry Ice Production.

Please do not hesitate to contact us anytime.

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