TECHNICAL RECONDITIONING

CO_2 Dry Ice Blasting

For cleaning sensitive tools or insulation

Property Damage Restoration

Temporary Humidity Control

Property Damage Prevention

APPLICATION

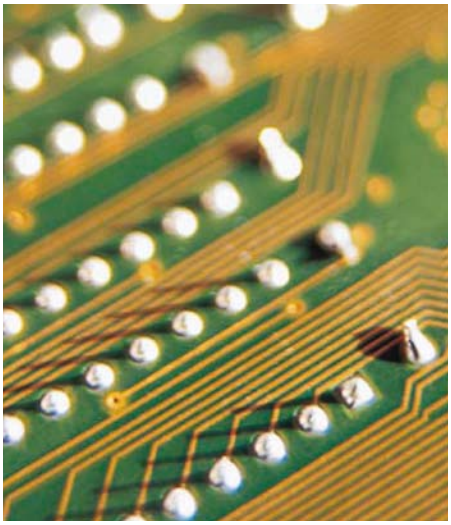
Overview

Cleaning sensitive surfaces such as electrical or machine components often proves difficult and problematic, particularly when the stain is oil or lubricant. Attempting to clean them without the appropriate equipment can worsen the problem causing further penetration of the stain. Based on their considerable experience and knowledge of cleaning such surfaces has encouraged Munters to move away from using the more traditional route of power, water and chemicals; instead they have opted for a new process using CO_2 ice blasting.

Mixing compressed air and CO_2 foam, Munters blast the solution onto the soiled surfaces at a specific temperature and speed. The material and the adhering soiling are thereby point cooled resulting in embrittlement and shrinkage which releases the surface adhesions from the substrate. The stain is thereby loosened by the CO_2 particles. The transition from solid to a gaseous state ensures that no residues are left behind.

The CO_2 dry ice blasting process has little if any abrasive effect, and depending on the particular types of plant used, will not damage the surface.

CO_2 ice blasting work shop.



Printed circuit board.

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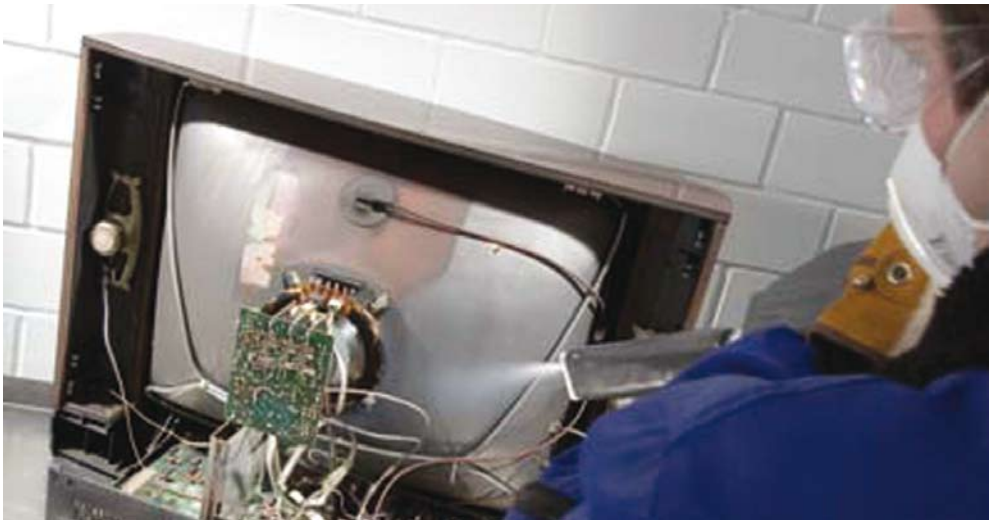
PROCEDURE

Munters offer a range of solutions aimed a tackling a variety of stains on a number of surfaces. Types of surfaces that Munters can cure include sensitive electrical and electronic components such as switchgears. Having assessed the effected area, the Munter's technician determines which variant of the CO_2 blasting solution is required in order to tackle the stain. These variants include CO_2 pellets, tailings or foam. Only the non-abrasive blasting media soft foam and tailings may be used for cleaning electrical parts.

The area that Munters are able to cure per hour depends on environmental parameters and the geometrical and structural characteristics of each project.



Dry ice blasting television circuit board.

RESULTS

The competence and experience that Munters' technicians offer, guarantees that the most appropriate CO_2 process is identified and used, resulting in the effective removal of all stains tackled. The efficient CO_2 dry ice blasting process achieves high performance, depending on the item.

BENEFITS

- A sparing and non-destructive process
- Eliminates damage to the surface as there are no abrasive effects
- Difficult areas are reliably reached
- No residues are created as a result of the blasting
- Surfaces can be treated without the use of water
- Achieves reduced drying times
- Eliminates the need to use additional cleaning chemicals
- Provides an approved solution for the food industry
- Environmentally friendly
- Dismantling of components and machinery is rarely necessary
- Minimised downtime.

Cleaning pcb's in a container used for controlling a factory in the oil industry (Middle East).

Water damage on pcb's can be cleaned with CO_2.

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