



www.scrubzero.com
(403) 697-3127
sales@scrubzero.com

Crystal Particle Blasting

What is it?

Dry Ice pellets, blocks or nuggets are ground into fine or rough sugar crystal like format by means of controlled mechanical stress. Specially developed Dry Ice Management Systems build into our **Mach1** and **Mach2** cleaning machines supply that function continuously and evenly, optimizing particle size and desired Dry Ice flow. This new Dry Ice particle flow is fed into the work air stream by our classic two-hose (venturi) delivery method.

What are the Advantages?

1. Economy

Slow motion video shows that approximately 60% of a Dry Ice pellet sublimates to CO₂ vapor on surface impact, when being blasted via a high velocity air stream onto a targeted substrate. Only 40% of that pellet actually does the job of removing coatings and contaminates.

When particles of a defined small granular size are being used for cleaning (Dry Ice Crystals), solid CO₂ pellets, blocks or nuggets are ground into fine or rough sugar like crystal particles, increasing the impact points per cm³ Dry Ice onto the substrate thousand fold and thereby drastically reducing impact sublimation. This new format utilizes the Dry Ice media more efficiently than any other method.

.....30-50% less Dry Ice consumption !

2. Substrate Safety

CMW CO₂ Crystal Particle Cleaning systems create particles of substantially reduced individual mass, compared to standard Dry Ice pellets without any loss of cleaning power. It is the distribution of equal Dry Ice mass over a much larger amount of impact points, which gives CO₂ Crystal Particle Cleaning the ability to clean very sensitive surfaces. For example your generator and motor windings, electronics, circuit boards, semi conductor tools, even wood or soft sand stone substrates are protected. **...Sensitive surfaces are safe !**

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