

JetStation



CO₂-Snow Cleaning

Principles

- Embrittlement of the contamination through rapid cooling, material shrinking
- Detachment due to the transmitted forces of pressure and shearing
- Dissolving of adsorption bonds (solvent effect)
- Rinsing (increase in volume of approx. 500x during sublimation)

Performance

- Dry cleaning process
- Non-abrasive
- Solvent free
- Liquid-CO₂ supply
- Environmentally-friendly and non-toxic
- Cleaning is material non-dependent
- Residue-free cleaning
- Automatable process

The acp CO₂-Snow-Jet Cleaning technology is suitable for removing organic films and particles from surfaces.

The patented process allows for a clean, environmentally-friendly, residue- and solvent-free cleaning of delicate and finely-structured surface areas. With the aid of a supersonic jacketed jet an increased cleaning performance can be achieved while at the same time reducing the CO₂-consumption.

Automated applications can be designed to be process capable through liquid-CO₂ supply. The acp CO₂-Snow-Jet cleaning technology is available from a small mobile and stationary cleaning unit, the JetWorker and the JetStation, for a flexible cleaning in productions or for simple process evaluation up to a fully automated production platform.

CO₂ Snow-Jet Technology

JetStation



Flexible cleaning equipment

The JetStation is a cleaning system based on the innovative acp CO₂-Snow-Jet cleaning process.

Liquid CO₂ expands at the nozzle outlet to form CO₂ snow. With the aid of a jacketed jet of compressed air, it is accelerated to supersonic speed and blasted onto the surface to be cleaned. The generated CO₂ snow cleans gently, dry and leaves no residues. CO₂ gas is non-combustible, non-corrosive, non-toxic and environmentally friendly.

Processing chamber



The nozzle and process technology is individually adapted to the application and does only consume the amount of CO₂ necessary to complete the task.

The JetStation cleaning system is easily equipped with a CO₂-gas bottle, and is immediately ready to operate after being connected to the compressed air network through the quick connector.

**Stationary
mounted
CO₂ Supersonic-
nozzle**

Specifications

Dimensions	2100 x 1200 x 800 mm
Empty weight	approx. 300 kg
CO₂-supply	Standpipe bottle / fluid gas tank
CO₂-fill capacity	32 kg
CO₂-consumption	0,15 kg/min
Standard-capillary	Ø 0,35 mm
Compressed air	6-10bar; 0,55-1,3 m ³ /min
Working pressure	Up to 16 bar
Hose connector	Compressed Air Quick Connector NW 7,2
Power supply	230 V /16 A
Housing material	Stainless steel

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