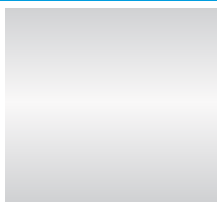
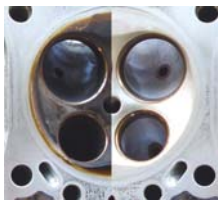


# **DIS** Dry Ice Systems

... your Dry Ice Solution experts



[www.disystems.de](http://www.disystems.de)

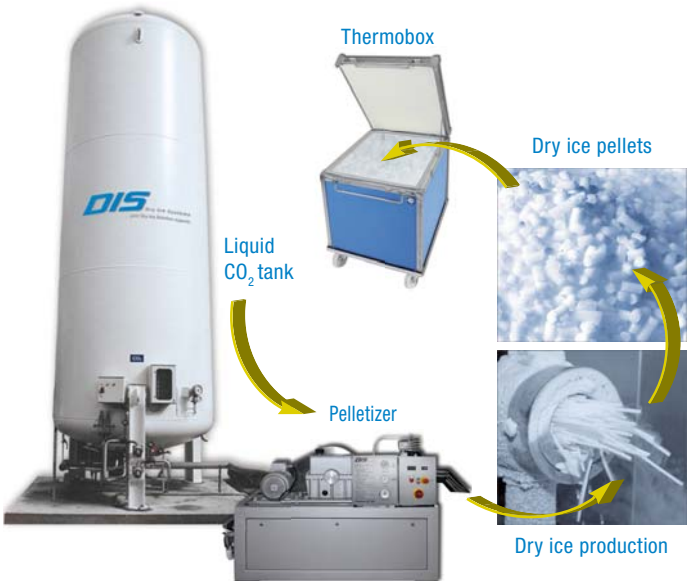


## The procedure

The DIS Dry Ice Systems cleaning system represents one of the major innovations in the sector of industrial cleaning. Conventional methods for removing paint, dirt, grease, release agents and other surface coatings are very time consuming and labour intensive. They lead to long and expensive downtimes in the working process.

### What is dry ice?

Dry ice is  $\text{CO}_2$  (carbon dioxide) in compressed form.  $\text{CO}_2$  is an odourless, natural and non toxic gas. In the beverage industry for instance it is added to several drinks.



## The main advantage

On impact the pellets sublime without generating any waste. **CO<sub>2</sub> won't become water!**

The only thing remaining is the removed dirt – this way waste is reduced considerably and time saved.

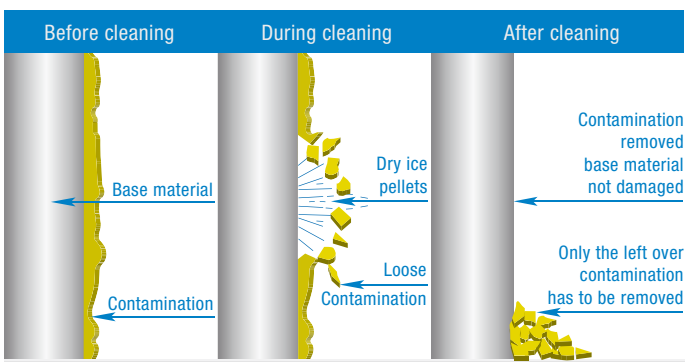
Conventional cleaning methods have serious disadvantages, for example:

- Water treatment
- Complicated waste disposal
- Time consuming demounting of delicate parts
- Damage of parts to be cleaned

The DIS Dry Ice cleaning system is especially appropriate to clean fragile parts since the dry ice is non conductive and non corrosive. The parts to clean do not have to be dismantled nor to be masked.

With the DIS Dry Ice Systems blasting machines you can clean parts without damaging the surface, for example:

Glue, oils, grease, bituminous terials, adhesives, layers of corrosion, wax, printer ink, silicones, PU foam, weld cinder, food residue, encrustations, smoke damage, graffiti, etc.



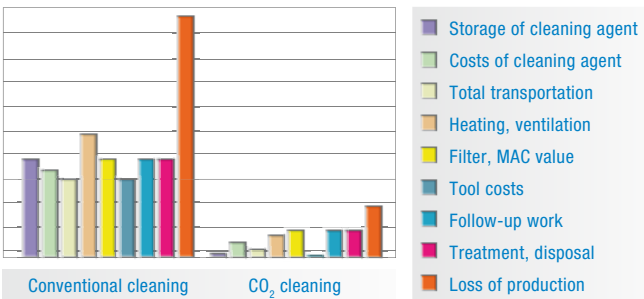
# CO<sub>2</sub> Cleaning

## Your advantages at a glance

### Save costs – increase returns

The illustration shows how incidental costs for conventional cleaning are considerably higher than for cleaning with dry ice pellets.

#### Incidental costs



#### ■ No disposal of blasting medium

Dry ice sublimates instantly upon impact into a gaseous substance.

#### ■ Environmentally friendly

This process is done without any chemical additives. Only the removed contaminants need to be disposed of.

#### ■ Gentle cleaning process

The cleaning is not abrasive. The pellets do not cause any damage to the surface.

#### ■ Increase in production – no downtime

Most parts can be cleaned fully assembled without the removal of machine parts.

#### ■ Speed

Quick and mobile application, no laborious post-treatment necessary.

#### ■ Multipurpose

Numerous nozzles to reach and clean any difficult area effectively.

#### ■ Cost effective

Fast, non abrasive, minimal costs for disposal and no production downtime. This way the investment pays off within a short period of time.

# Fields of application

## Typical applications

- **Automobile industry**  
paint shop, welding line
- **Chemical industry**  
drying chambers, boiler, bitumen
- **Pharmaceutical industry**  
boiler, percussion section, roller, moulds
- **Rubber processing industry**  
moulds, deflashing
- **Plastic industry**  
moulds, deflashing
- **Print industry**  
press cylinder
- **Aviation industry**  
turbines, landing gear cleaning
- **Ship building industry**  
depainting, anti-fouling
- **Food industry**  
moulds, ovens
- **Disaster recovery and building renewal**  
fire restoration, graffiti



# Equipment for professionals

## One hose systems



### E-Jet

- *The all-rounder* -

- easy to use, ideal for all users
- unique cleaning spectrum, from cleaning the most delicate modules to difficult applications, e.g. paint removal



### Nano-Jet Basic

- *The starter* -

- small and compact
- easy handling
- low pellet and compressed air consumption
- for easy contaminations like oils and grease



### Micro-Jet Basic

- *The price breaker* -

- small and compact
- easy to use
- low pellet and compressed air consumption
- for production and machine cleaning e.g. the removal of oils and grease



### Micro-Jet Evolution

- *The small and powerful* -

- easy to use
- flexible application
- the membrane filter makes it also suitable for compressors with a poor quality of compressed air



### Micro-Jet Basic Silent

- *The low noise < 85 dB/6 bar* -

- small and compact
- easy to use
- low pellet and compressed air consumption
- no damage of delicate objects because of the integrated Scrambler



### Micro-Jet Tornado

- *Tornado power* -

- maximum blasting power
- high area coverage
- for the most stubborn of soiling
- ideal for pipe cleaning and paint removal and the removal of undercoating

## Equipment for professionals

### One hose system:

The pellets stored in the hopper are drawn into the air stream by using the rotating disc. Pellets and compressed air are propelled together through the blast hose to the gun.

### Two hose systems



#### Mini E-Jet

- *The powerful* -

- small and compact, easy to use
- high performance
- electrical controller for increased efficiency
- Scrambler (Dry Ice Mill) for gentle cleaning of delicate parts /optional



#### Mini-Jet Basic

- *The universal* -

- small and compact, easy to use
- high performance
- low pellet and compressed air consumption
- Scrambler (Dry Ice Mill) for gentle cleaning of delicate parts /optional



#### Mini-Jet Evolution

- *The durable* -

- small and compact, easy to use,
- high performance
- the membrane filter makes it also suitable for compressors with a poor quality of compressed air

### Two hose system:

The stored pellets from the hopper are fed into the pellet hose by a feeder spiral. The second hose carries pressurized air to the blast gun where a vacuum is created. Due to the vacuum in the pellet hose the granulates are sucked gently to the blast gun. Pellets and pressurized air are mixed in the chamber of the blast gun and then propelled through an exactly calculated nozzle on to the object to be cleaned.

# Equipment for professionals

## Accessories



### Pelletizer DP 160

- *Reduce costs!* -

- high-performance heat exchanger for maximum conversion rate
- simple to install and use
- high pellet density
- production volume 160 - 200 kg/h



### Scrambler - Dry Ice Mill

- *Undreamt of possibilities!* -

- cleaning open grooves and undercuts
- even blasting pattern
- increased efficiency
- clean delicate parts sparingly with dry ice powder



### Thermobox

- *Keeps the dry ice pellets fresh!* -

- double-wall thermal insulation
- easy to transport
- robust and durable
- temperature resistant to -80°C (-112°F)
- TÜV-tested



### Compressed air heater

- *Prevents condensation!* -

- heats blasted air to 70°C
- enables the cleaning of switch boards and objects where condensation is a concern
- mounted between the air supply (compressor) and the blasting unit



### Pipe robot

- *Internal pipe cleaner* -

- for vertical and horizontal pipes and ducts from DN 250 - DN 400
- small and compact, easy to use
- self-adjusting with spring mechanism
- high cleaning performance



### Nozzle cases

- *One hose system* -

- Nozzle case Tornado Professional
- Nozzle case Vario Set 2000 Plus

- *Two hose System* -

- Nozzle case GAP 3
- Nozzle case SX Micro Plus



# Why DIS Dry Ice Systems?

## Why favour us?

Development, production, service and sales to the topic dry ice blasting

*Your single source provider!*

- Decades of experience
- Safe costs through efficiency
- Customer specific solutions
- Professional consulting
- 24h service
- Own dry ice production
- Environmentally safe
- Optimal price-performance ratio

If you don't have sufficient air supply, you can rent an air compressor from us!

For more informations visit our web site

[www.disystems.de](http://www.disystems.de)

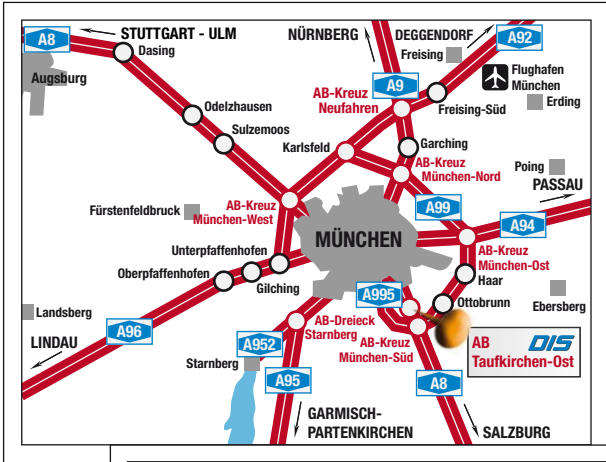
or call us at

+49 (0) 89 / 665 096-0



# Contact

## Your contact person



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