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- R&D
- Engineering
- Own production
- World wide oriented
- Distributor network WW

Based in Belgium

# SAVIC GROUP : Dust Suppression Technology



Dust Suppression Technology



- Wide range of std. cannons
- Tailor made solutions
- Misting systems
- Odor control, humidification and cooling



- For shredders and crushers
- Patented misting technology
- Tailor made solutions

- The Jetzone technology inject fine water droplets directly into the shredder/crusher housing to treat the dust at the source.
- The Jetzone technology is applicable for all types of rotor or high speed shredders/crushers.

# JETZONE : FINE DROPLETS CONCEPT



|   | droplets per litre             | Total surface per litre          |
|---|--------------------------------|----------------------------------|
| <b>Waterspray</b> (droplet size 1mm)        | 1.909.915 droplets             | 6.000.000 mm <sup>2</sup>        |
| <b>JETZONE</b> Injection (droplet size 50μ) | x 8000 15.279.325.163 droplets | x 20 120.000.000 mm <sup>2</sup> |

Only fine droplets will suppress dust.

## « The patented injector is the hart of the installation »

- Resistant to the Impacts in a 'Shredder'-environment'
- Produce fine droplets into the crusher housing
- Quick (re)placement
- Corrosion resistant
- Unique anti blocking concept, when the system is not used

# JETZONE : INJECTOR picture outside view

Example of a mounted nozzle; bolted or welded





# JETZONE : INJECTOR picture inside view

Example of a nozzle seen from the inside the crusher





# JETZONE : INJECTOR picture inside view

Example of a nozzle seen from the inside the crusher

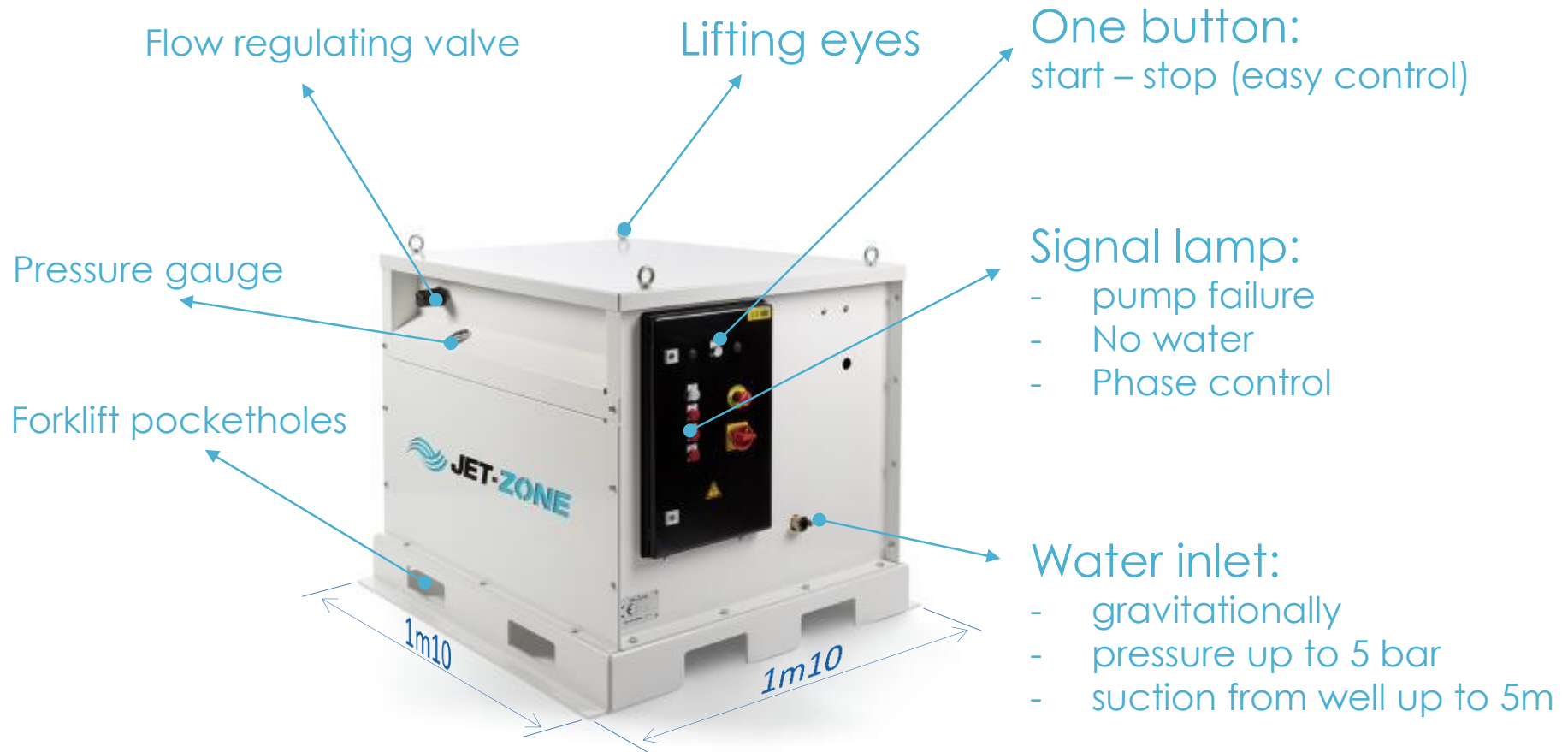


# JETZONE : Technical UNIT

- High pressure water is delivered to the nozzles
- Compact
- Mobile



# JETZONE : Detail Technical UNIT



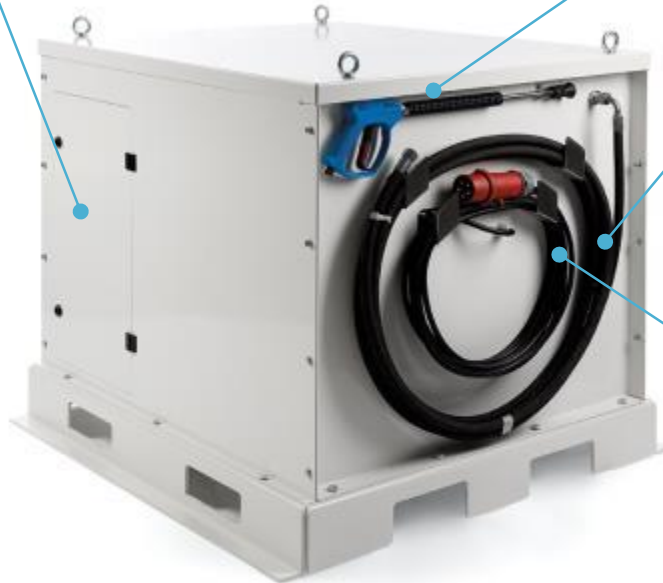
## Connecting and operating

Door access to filter

Industrial high pressure cleaner is standard

High pressure hose 10m with quick coupling

Electrical cable 10m 5-pins connector 16A



- High pressure assembly
- Intelligent water feeding system
- 1" BSP connection
- Industrial waterfilter 150 $\mu$ m
- Dry run protection
- Max. operation pressure 130bar
- Flow control from 3-19l/min
- 3x400V + G
- 16A connector

## 1. Installing the injectors on the crusher housing.

Step1: place determination:

- » *One above the rotor*
- » *One right after the anvil*

Step 2: drill two holes of 40mm in the housing

Step 3: install the flanges (welded or bolted)

Step 4: insert the injector holders and tighten with the lock nut.

Step 5: fix and secure the injectors.





# JETZONE : INSTALLATION PROCEDURE

2. Install the high pressure hoses with the heavy duty mounting brackets

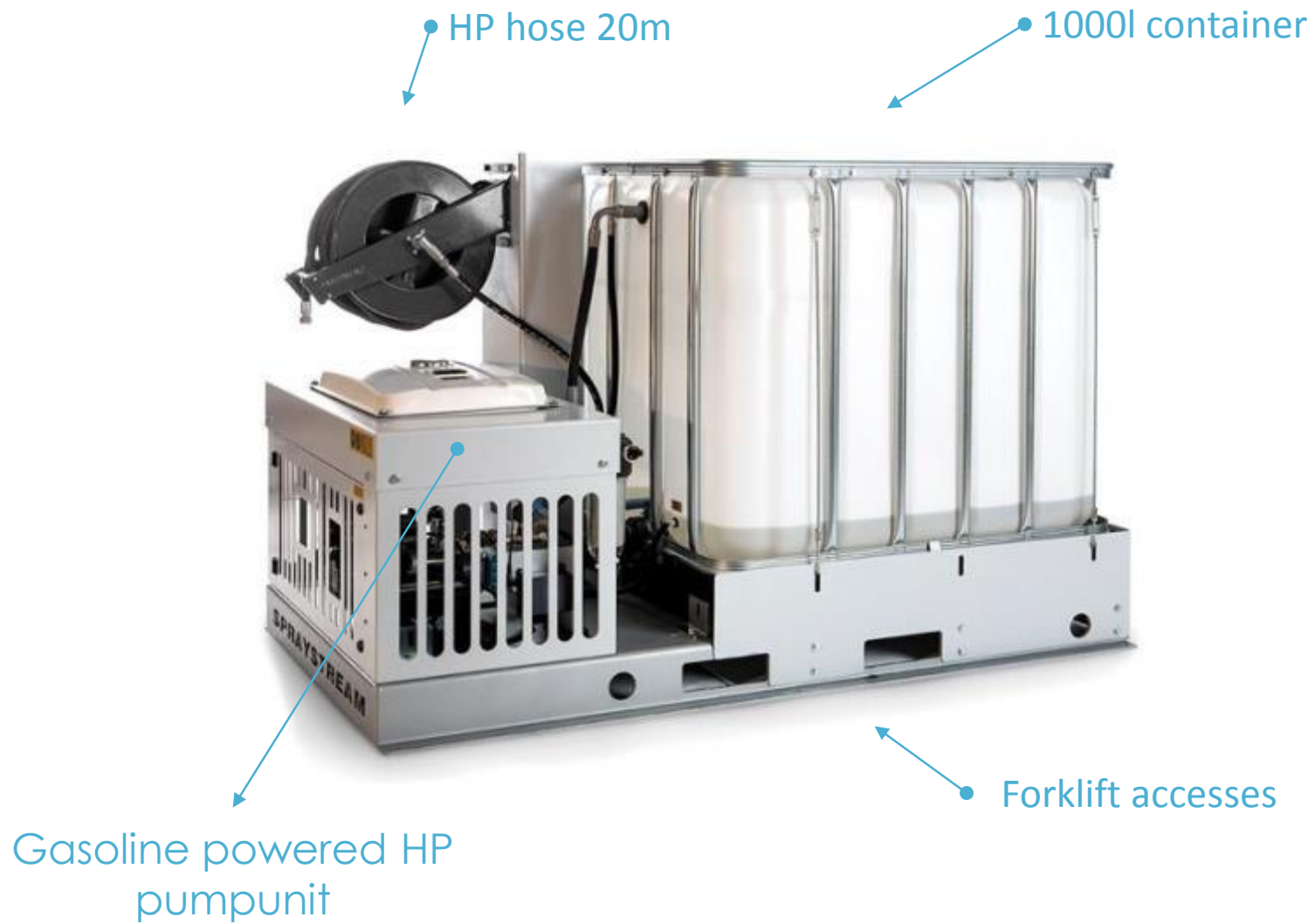


3. Connecting the water inlet on the Jet-Zone unit
4. Start the Jetzone unit and Go!



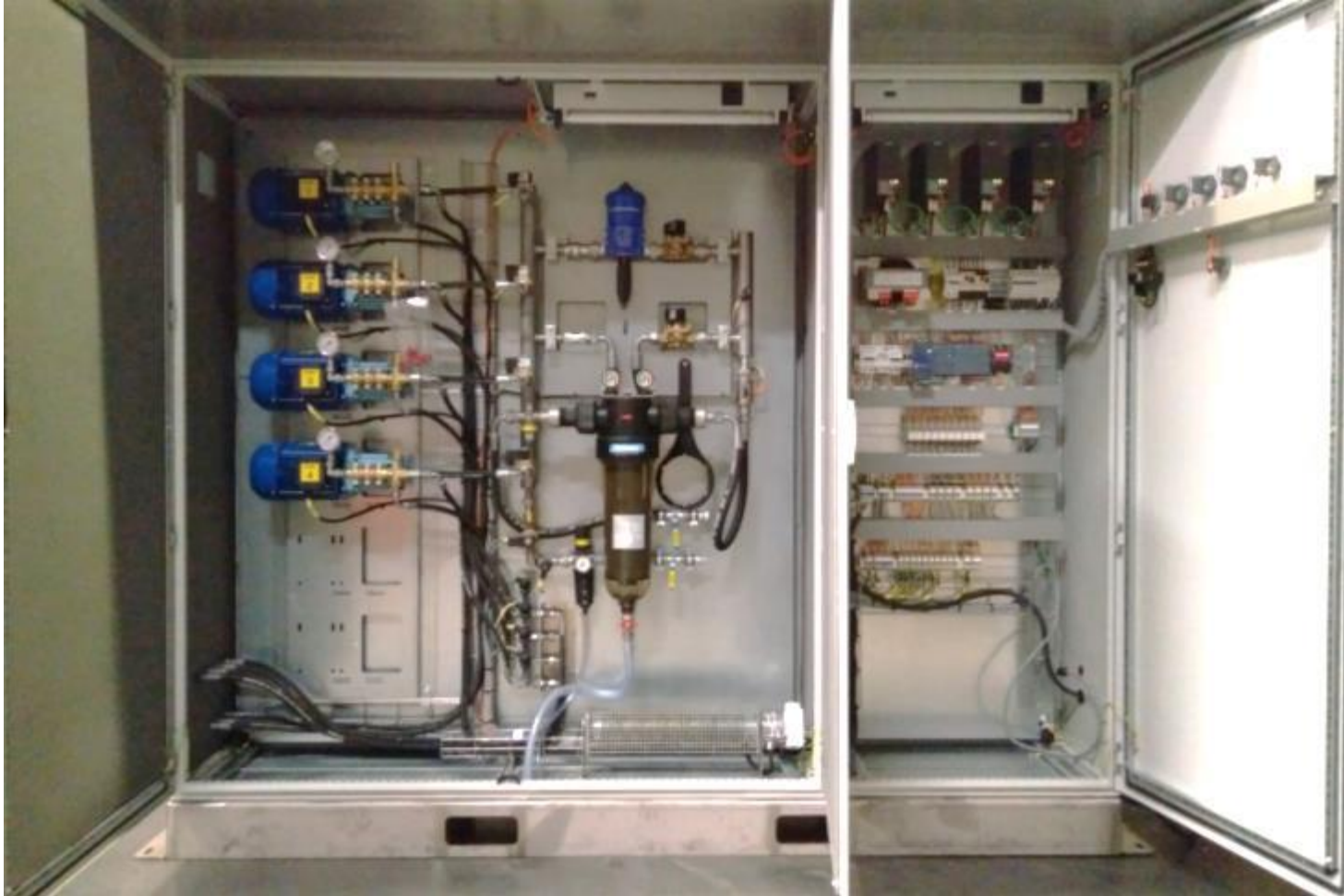
- Electric standard unit
- Petrol driven version
- Customized on crusher

# JETZONE VERSION : Petrol driven version



# JETZONE VERSION : Customized on crusher

- Complete installations for big crusher/shredder installations



1. Oil change every 1000 working hours
2. Clean the waterfilter
3. Check status of the nozzles

# JETZONE RESULT

A spectacular Dust suppression is not only obtained at the shredder, but over the complete installation.



Without  
dust-suppression



With  
dust-suppression

Check video : <https://www.youtube.com/watch?v=dHsSF1K2xlk>



# JETZONE : BENEFITS for the CUSTOMER

- Low water consumption
  - Material stays dry
  - Quality of shredded material is unaffected



# JETZONE : BENEFITS for the CUSTOMER



- Less dust emissions in the vicinity of the shredder:
  - Yard
  - Parking
  - Residents and neighbors
  - Personnel
- Use of process water is possible
- Low exploitation cost
- Can be installed by the end customer himself

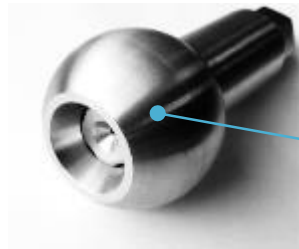
## Standard Jet-Zone unit CR-19

- The unit, assembled and tested in our workshop
- The customer gets a ready-to-use unit and a complete installation kit.
- Kit for installation on the crusher:
  - High pressure hoses for the two injectors
  - Mounting flanges, injector holders and injectors
- High pressure cleaner pistol
- One contact START / STOP
- maximum 100m distance

The installation of the kit on the crusher is not included.

## Misting point on input feeder

- One robust misting unit to weld on top of the crusher:



ball point to adjust the  
spraying direction







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