

100%
ECO
FRIENDLY

CLEANING TECHNOLOGY WITHOUT HIGH PRESSURE, WATER AND CHEMICALS



 **TORNADO ACS**
Advanced Cleaning System



plaster



brick



concrete



tiles

The TORNADO ACS

The patented mobile negative pressure jet system for effective, environmental cleaning – without high pressure, water and chemicals

The unique minimal abrasive technology, also known as low pressure jet method is not comparable with any other method. By applying different blasting material (granulate), various surfaces can be gently cleaned, stripped or derusted.

The closed circuit of the system allows a dust-free work in a vacuum and a permanent reuse of blasting material

up to 100 times. The surface to be processed won't be damaged, which enables the application to sensitive and valuable surfaces.

Special health and safety measures are not required, since it does not work with chemicals or pressure. The extremely compact machine is easy to transport and therefore flexible in the field of applications.

⚡ Floor Cleaning

Tiles, concrete, and stone floors, as well as joints appear as new after cleaning with the **Tornado ACS**. Lime, rust and other debris are no problem. The closed system allows the use of the **Tornado ACS** in public business without barriers and safeguards. The operation is easy to learn, specialized personnel is not necessary for its use.

advantages:

- working without barriers
- closed circuit
- dustfree work
- ideal for indoors
- fast buildup and dismounting



rust on tiles



polluted safety tiles



cleaned mosaic tiles



natural stone



wood



plastic



metal

Graffiti removal

With the **TORNADO ACS** graffiti on clinker, natural stone, roughcast and coat of paint can be removed easily and quickly. The system is built up in a few minutes and ready to use. The costly disposal of soiled detergents does not apply, since neither water nor chemicals are used.

advantages:

- simple handling
- no protective clothing
- working during public business
- possible use in winter



brick



plaster



natural stone

Facade cleaning

Rust, algae, moss and saltpeter can have facades look very unsightly over the years. With the **TORNADO ACS** contaminations can be removed without leaving any residues. Due to the vacuum the jet cap keeps itself on the surface, which allows a fatigue-proof work, with little effort.

advantages:

- low noise level
- gentle on sensitive surfaces
- easy disposal, no hazardous waste
- light and compact



saltpetre on brick



pollution on sandstone



moss-covered coat of paint



functional principle

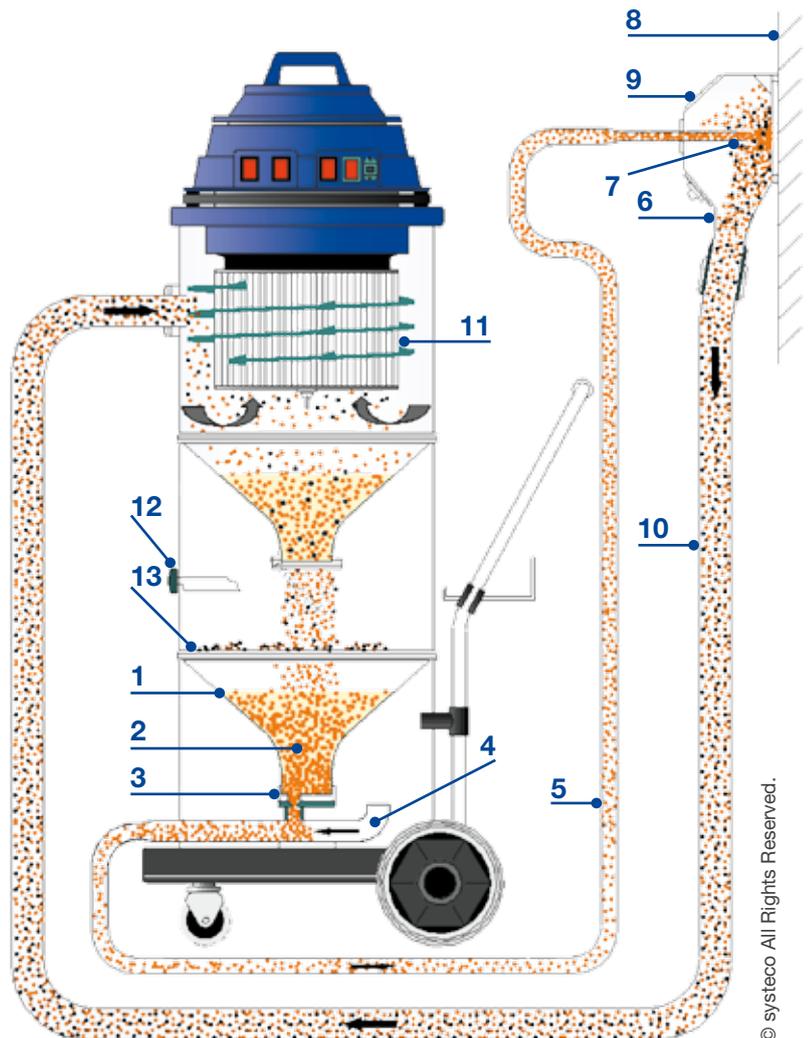
After turning on, the **jet cap (6)** is placed on the **surface (8)** and adheres to it by the vacuum. With inserting the **jet lance (7)** into the **jet cap (6)** the cycle is closed.

By gravity the **granules (2)** are passed through from the **lower container (1)** to a **dosing system (3)** into the **air flow (4)**. Due to the vacuum the **granules (2)** are then transported through a **flexible suction hose (5)** to the **jet cap (6)**. Through the **jet lance (7)** the granulate impinges onto the **surface (8)** to be worked on.

By moving the **jet lance (7)** the surface can be cleaned quickly and dustfree, stripped or roughened up. The process can be optimally monitored and controlled via **3 vision panels (9)**.

After impinging, the **granules (2)** and the removed dirt particles are sucked in immediately. Through the **suction hose (10)** the abrasive mixture enters the upper part of the machine. There, it is separated by the cyclone principle. The dirt particles are received in the **fine dust filter (11)** and the granules fall into the middle container.

To reuse the granules, the **flap (12)** is opened and the granules enter the **storage container (1)**. Coarse particles are kept on the **screen (13)**. The work process begins again.



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technical data TORNADO ACS

alternating current:

230 V/50 Hz

power input:

max. 3500 W

negative pressure max:

220 mbar

Granules consumption:

10l granulate – appr. 80 m²

noise level:

75 db

empty weight:

appr. 41 kg

measures (incl. trolley):

width : 0,56 m

depth: 0,76 m

height: 1,35 m

hose package:

4,5 m

cable length:

7 m

set up:

appr. 3 min

dismounting:

appr. 5 min (cleaning incl.)



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