

System information **TORNADO ACS 30** 100 V / 3.000 W (Japan)

Product description cleaning equipment

The **TORNADO ACS** cleaning machine is based on a unique worldwide patented vacuum blasting procedure that works with no pressure, no water, no chemicals.

The **TORNADO ACS** cleaning equipment is designed as a mobile and compact device no bigger than a conventional industrial pressure washer. This technology is not comparable with a high-pressure cleaner or dry ice blasting.

The combination of units contains a generator for negative pressure with an appropriate filtering cartridge and dust separation as well as the appropriate containers for granulate. The jet cap, the jet lance and the hose package are further components of the system.



Functioning cleaning equipment

After starting the cleaning machine, negative pressure of approx. 170 mbar is produced in the jet cap. The cap is placed on the working surface and adheres on it due to the negative pressure. By inserting the jet lance into the jet hood the cycle is closed. The blast medium is sucked in by the lance and accelerates to more than 400 km/h. With this speed the blast material impinges on the surface, which can be purified, roughened up or cleaned of layers according to requirements.

This process can be controlled optimally by the user through vision panels. After impinging the surface the blast medium is sucked off immediately together with the removed particles. Inside of the device dirt particles are separated from granules through a filtering system. Because of that cycle the device system has got a minimum granulate consumption. Depending on the granulate it can be reused about 70 - 100 times in the cycle.

Because of the closed cycle the system has a very low noise level (75 decibel), so it doesn't operate louder than a customary vacuum cleaner.

Face capacity **TORNADO ACS**

The area coverage of the cleaning is depending on the application 2.0 - 4.0 sqm / h. For very light applications, the performance is also above, for example, graffiti to be removed on clinker facades or in the dirt removal on rough plaster. Also listed facades can be cleaned very well.

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Applications cleaning equipment

The unique cleaning solution is primarily used for the following applications:

- [graffiti removal on clinker](#), natural stone, plaster and EIFS-systems
- [graffiti removal](#) on listed facades
- [facade cleaning](#)
- [floor cleaning](#)
- [saltpeter- and limestone removal](#)
- [rust removal from metal](#)
- [fire damage restoration](#) in closed rooms
- [stripping and lacquer removal](#) from surfaces
- [restoration](#)

Advantages of the system

- eco-friendly cleaning with no pressure, no water, no chemicals
- cleaning is done in a closed circuit
- up to 100 times reuse of the blasting material
- just a normal power supply required
- low noise (no compressor)
- transport possible in any vehicle
- short assembly and disassembly times (max. 5 min)
- no protective clothing required
- low purchase costs
- easy and simple handling
- fast amortization of the cleaning equipment

Technical data

AC	100 V / 50 Hz
input Air	max. 3.000 W
output	3 x 60 l/sec.
cable length	7 m
tare weight	41 kg
height incl. trolley	1.280 mm
length overall	630 mm
width overall	610 mm
length of suction hose	4,5 m
filling quantity	8 l max.
granulate throughput	according to blast medium approx. 20 – 80 l/h
granulate consumption	according to blast medium approx. 0,2 – 0,4 l/h
set up time	approx. 5 min.
dismantling time	approx. 5 min. (incl. cleaning)
noise level	max. 75 dB