The SFM-AT300 can be used to clean parts produced on all additive manufacturing systems.

SFM-AT300 compact depowdering unit for powder removal of metal laser-melted parts

The SFM-AT300 cleans metal laser-melted parts within a sealed process chamber, with targeted vibration and automated rotation.

Due to rotation of the parts, including the build plate, unmelted build material is removed from complex voids and support structures.

After the automated cleaning program, manual cleaning with compressed air or inert gas is possible via glove ports.

Depending on the build material, the process chamber can be rendered inert with protective gas or dust can be removed by means of extraction.

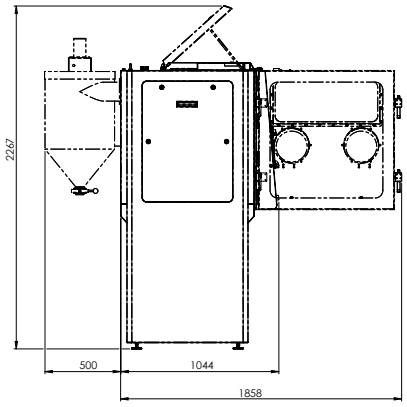
Materials
- Aluminum
- Titanium alloy
- Nickel-based alloy

Basic features
- Automated rotation device
- Turntable for manual positioning of the parts
- pneumatic connections for manual air cleaning tools
- Material airlock with special container for collecting metal powder
- controlled vibration mechanism with wide frequency range

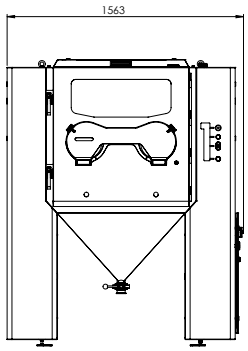
Machine versions
- high-performance dustremoval version for non-reactive materials
- inert gas infusion version meeting European explosive standards for reactive materials (ATEX)

Advantages
- tested explosion protection
- high degree of protection from harmful dust
- fast and economical part cleaning
- completely inert material handling
- maintenance-friendly system layout
- direct link to sieving station

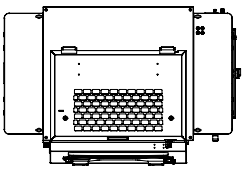
↑ Protected process chamber with rotation device



↑ Side view



↑ Front view



↑ Top view

System specifications	Dimensions	Unit
Installation space (W x D x H)	2,000 x 3,000 x 2,500	mm^3
Weight	500	kg
Part specifications (incl. build plate)		
Maximum dimensions (W x D x H)	300 x 300 x 350	mm^3
Maximum weight	60	kg
Power specifications		
Mains voltage / frequency	3 PH / 400 / 50	V/Hz
Power consumption	0.4	kW
Power supply	16	A
Compressed air specification		
Working pressure	6	bar
Consumption during operation	50 - 600	l/min
Inert gas specifications		
Working pressure	6	bar
Consumption	10 - 50	l/min

The highest safety standards are achieved through intelligent monitoring of the process and operation.
The well thought-through process sequence, from the loading through to the manual final cleaning, ensures convenient and economical operation.