



SFM-AT350-E

The SFM-AT350-E is compatible with every LPBF-printer on the market.

Compact depowdering unit for powder removal of metal laser-melted parts

The SFM-AT350-E cleans metal laser-melted parts within a sealed process chamber, with targeted vibration and automated two-axis rotation.

The high frequencies of the electronic excitation are considerably higher than the harmful natural frequency of the part.

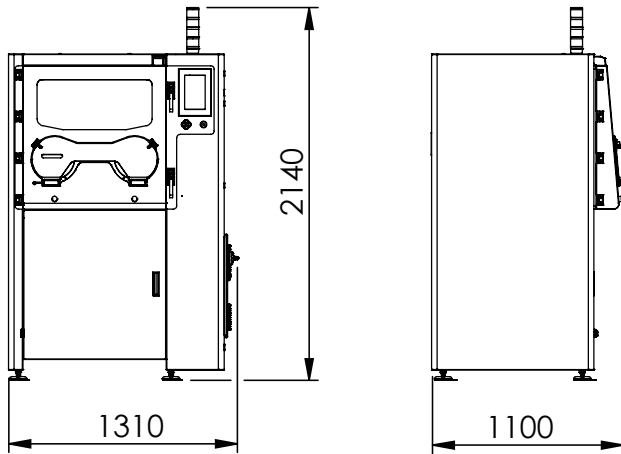
As the frequency constantly controls and regulates itself the risk of exciting the resonance frequency and damaging sensitive structures is avoided.

Consequently, the SFM-AT350-E is the ideal depowdering system for delicate structures.

The SFM-AT350-E is compatible with SPR-Pathfinder® Software. The software automatically calculates the ideal motion sequence for each part, which is then read and executed by the Solukon system so that the powder is removed residual-free.



swivel arm with component



SYSTEM SPECIFICATIONS

Installation space (W x D x H)	2,300 x 2,300 x 2,300 mm
Weight	420 kg
Mains voltage / frequency	400 / 50- 60 V / Hz
Power consumption	1.0 kW
Power supply	16 A

COMPRESSED AIR SPECIFICATIONS

Working pressure	6 bar
Consumption	max. 300 l/min

INERT GAS SPECIFICATIONS*

Working pressure	6 bar
Consumption	2 m ³

* Consumption for an average one-hour cleaning job with aluminum powder.

Part spectrum

- material: aluminum-, steel-, titan- or copper alloy
- weight: up to 100 kg
- dimensions: up to 400 x 400 x 400 mm³
500 x 280 x 400 mm³

Basic features

- automated 2-axis rotation device
- endless rotatable turntable
- pneumatic connections for manual air cleaning tools
- powder lock with special container
- vibration mechanism with wide frequency range

Options

- dust removal for non-reactive materials
- inert gas infusion for reactive materials (ATEX)
- SPR-Pathfinder[®] software to calculate the ideal motion sequence
- OPC UA interface
- Digital-Factory-Tool

Advantages

- certified explosion protection
- high degree of protection from harmful dusts
- very gentle part cleaning
- comfortable part handling
- qualifiable and reproducible cleaning results
- low-noise cleaning process
- self-regulating ultrahigh frequency