



SFM-AT1500-S

The SFM-AT1500 is compatible with every LPBF-printer on the market.

Depowdering system for automated powder removal of metal laser-melted parts

The SFM-AT1500-S is a powder removal system specially designed for cleaning particularly high, heavy and complex parts, such as rocket engines. The system can handle components up to 1.5 m high weighing up to 2100 kg.

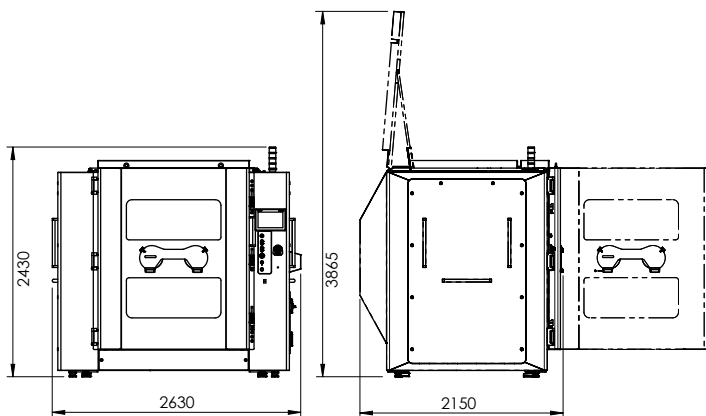
Even complex cavities and support structures are freed from powder by programmable swiveling of the component including the build platform around two axes and targeted vibration excitation.

With the SPR-Pathfinder® software, movement patterns can be automatically calculated in advance based on the CAD file of the component.

During depowdering substantial amounts of powder are collected. The powder can be discharged safely and sensor-monitored with the compatible powder collection unit SFM-PCU.



swivel arm



System specifications

Machine Dimensions (W x D x H)	2,630 x 2,150 x 2,430 mm
Installation Space (W x D x H)	5,000 x 3,750 x 4,000 mm
Machine Weight	3200 kg
Mains voltage / frequency	400 / 50 - 60 V / Hz
Power consumption	3 kW
Power supply	16 A

Part spectrum

- material: aluminum-, steel-, titan- or copper alloy
- weight: up to 2100 kg
- dimensions: up to 600 x 600 x 1500 mm³
820 x 820 x 1300 mm³

Basic features

- vibration mechanism with wide frequency range
- various operating modes (manual, automatic, programmable profile mode)
- inert gas infusion for reactive materials (ATEX)
- dust removal for non-reactive materials
- ready for automatic powder extraction
- custom made mounting plate
- front-top-loading
- unlimited programmable 2-axis rotation
- Digital-Factory-Tool
- OPC UA interface (Industry 4.0 ready)
- SPR-Pathfinder® software (optional)

Advantages

- direct connection to a material recycling unit
- certified explosion protection
- high degree of protection from harmful dusts
- fast and economic part cleaning
- comfortable part handling
- qualifiable and reproducible cleaning results
- process tracking with quality protocol