

# SFM-AT1000-S

# solukon



The SFM-AT1000-S is compatible with every LPBF-printer on the market.

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

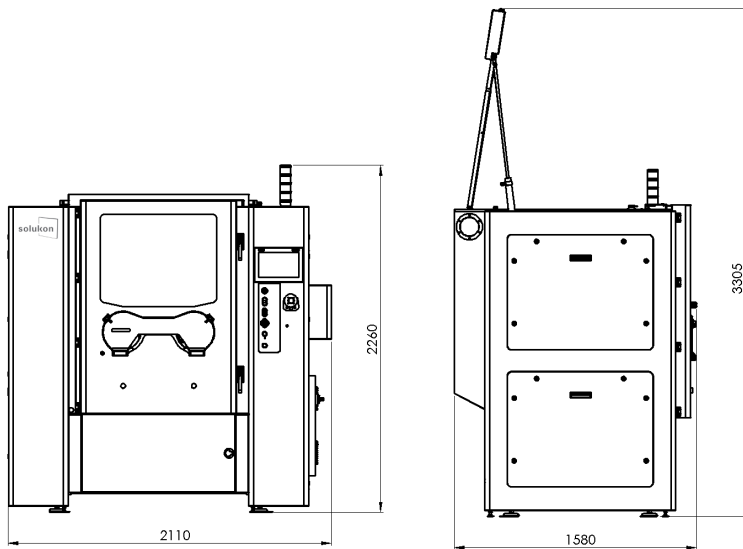
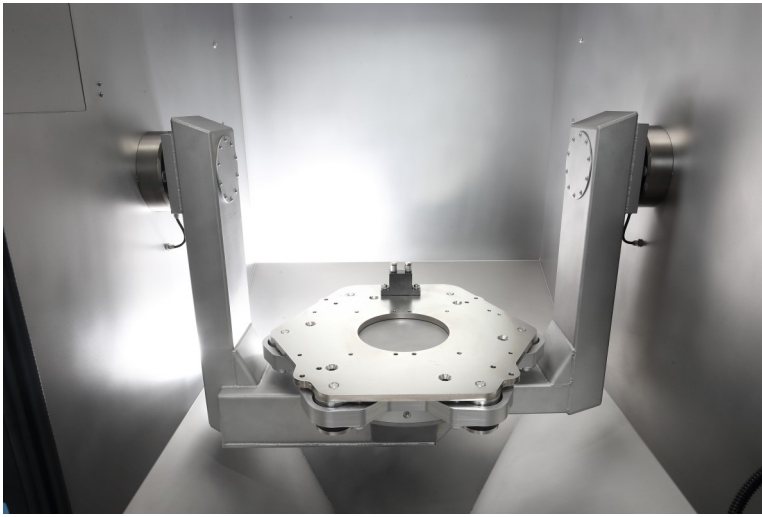
The SFM-AT1000-S is an upscale of the well-established SFM-AT800-S and optimized for automatic depowdering of parts with an extraordinary height of up to 1.000 mm.

The SFM-AT1000-S cleans metal laser melted parts within a sealed process chamber, with targeted vibration and automated two-axis rotation.

The state-of-the art design is specialized in the requirements of cleaning extraordinary high and complex parts like modern compact rocket-propulsion engines.

The depowdering system is based on the unique Solukon Smart Powder Recuperation® technology.

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### System specifications

Installation space (W x D x H) 3,600 x 2,600 x 3,500 mm

Weight 900 kg

Mains voltage / frequency 400 / 50 - 60 V / Hz

Power consumption 1.8 kW

Power supply 16 A

### Compressed air specifications

Working pressure 6 - 8 bar

Consumption max. 300 l/min

### Inert gas specifications\*

Working pressure 6 - 8 bar

Consumption max. 500 l/min

\* only with inert gas infusion option

### Part spectrum

- material: aluminum-, steel-, titan- or copper alloy
- weight: up to 800 kg
- dimensions: up to 600 x 600 x 1000 mm<sup>3</sup>  
(or: 600 x 600 x 660 mm<sup>3</sup>)

### Basic features

- automated 2-axis rotation device
- powder lock with special container
- vibration mechanism with wide frequency range

### S-Version

- unlimited programmable 2-axis rotation
- SPR-Pathfinder® software
- remote gimbal control (Joystick)
- OPC UA interface (ready for industry 4.0)

### Options

- dust removal for non-reactive materials
- inert gas infusion for reactive materials (ATEX)
- direct connection to material processing
- software for path programming with speed, waiting time and vibrator control
- programmable knocker
- front-top-loading
- short rotation arm for optimal center of gravity position (e.g. for NXG XII 600)

### Advantages

- certified explosion protection
- high degree of protection from harmful dusts
- fast and economic part cleaning
- comfortable part handling
- qualifiable and reproducible cleaning results