SFM-AT1000-S

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 for 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 SPR®.

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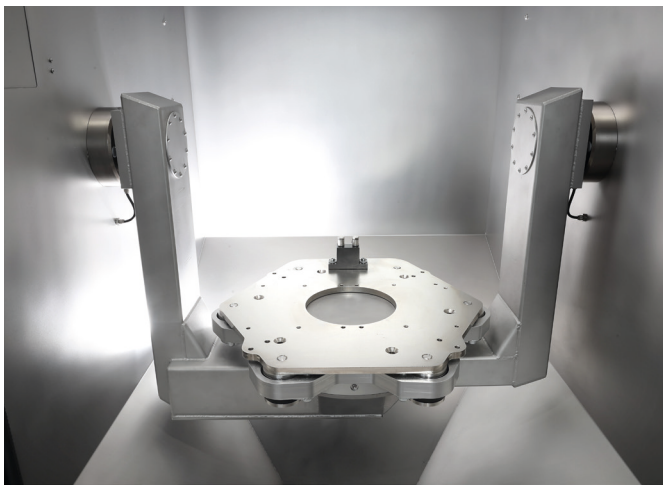
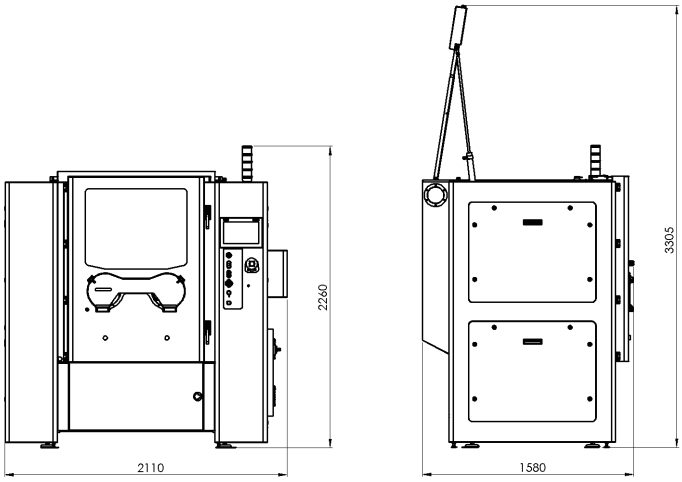


swivel arm



SYSTEM SPECIFICATIONS	
Installation space (W x D x H)	3.600 x 2.600 x 3.500 mm
Weight	1250 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	4 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 800 kg
- dimensions: up to 600 x 600 x 1000 mm^3 (or: 600 x 600 x 660 mm^3)

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 programing 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)
- Digital-Factory-Tool

Advantages

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

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