SFM-AT1000-S

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The SFM-AT1000-S can be used to clean parts produced on all additive manufacturing systems.

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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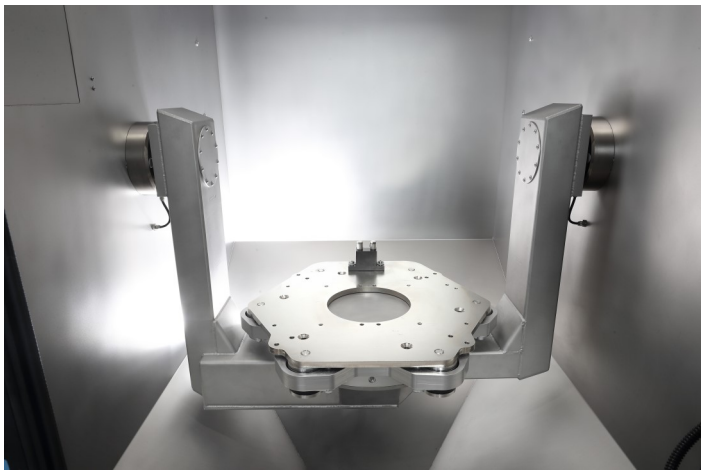

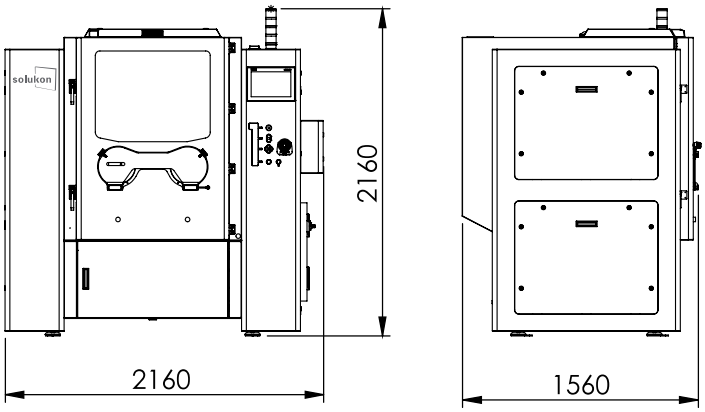

Part spectrum

- material: aluminum-, steel-, titan- or copper alloy
- weight: up to 800 kg
- dimensions: up to 600 x 600 x 1000 mm³

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
- ready for intelligent SiDAM 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

Advantages

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

System specifications		
Installation space (W x D x H)	3,500 x 2,500 x 3,000	mm
Weight	900	kg
Mains voltage / frequency	400 / 50 - 60	V / Hz
Power consumption	1.5	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

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