



Welcome to Solukon

We are the pioneer and technical leader of automated depowdering



Machines for **METAL** powder removal

[Explore](#)



Machines for **PLASTIC** powder removal

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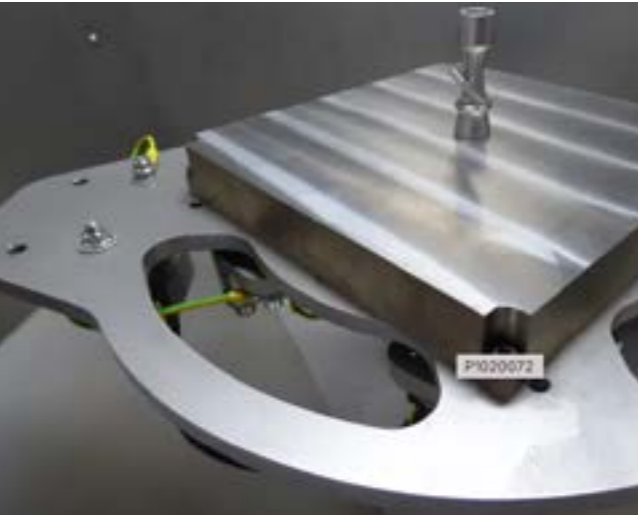
Latest News



Depowdering of large format parts



New system for plastic depowdering



Depowdering of medical parts



Solukon becomes a partner in the Swissm4m Center

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Partners



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SFM depowdering units

Automated powder removal of metal laser-melted parts with Smart Powder Recuperation SPR[®] technology.

The unique Solukon depowdering process Smart Powder Recuperation SPR[®] provides programmable pivoting of metal laser melted parts around two orthogonal axes (gyroscopic rotation).

This helps to move the parts along any imaginable geometry and helps to remove powder from labyrinth channels as with heat exchangers.

The advanced frequency system enables the desired optimization of the powder flow, so that even the smallest openings and channels can be depowdered, which is of paramount importance for thermal downstream processes. To keep the entire process safe, it can run under safety controlled inert condition.



Advantages



Residual powder retrieval



High degree of protection from hazardous dusts



Approved explosion protection



Reproducible cleaning results



Time saving up to 90%

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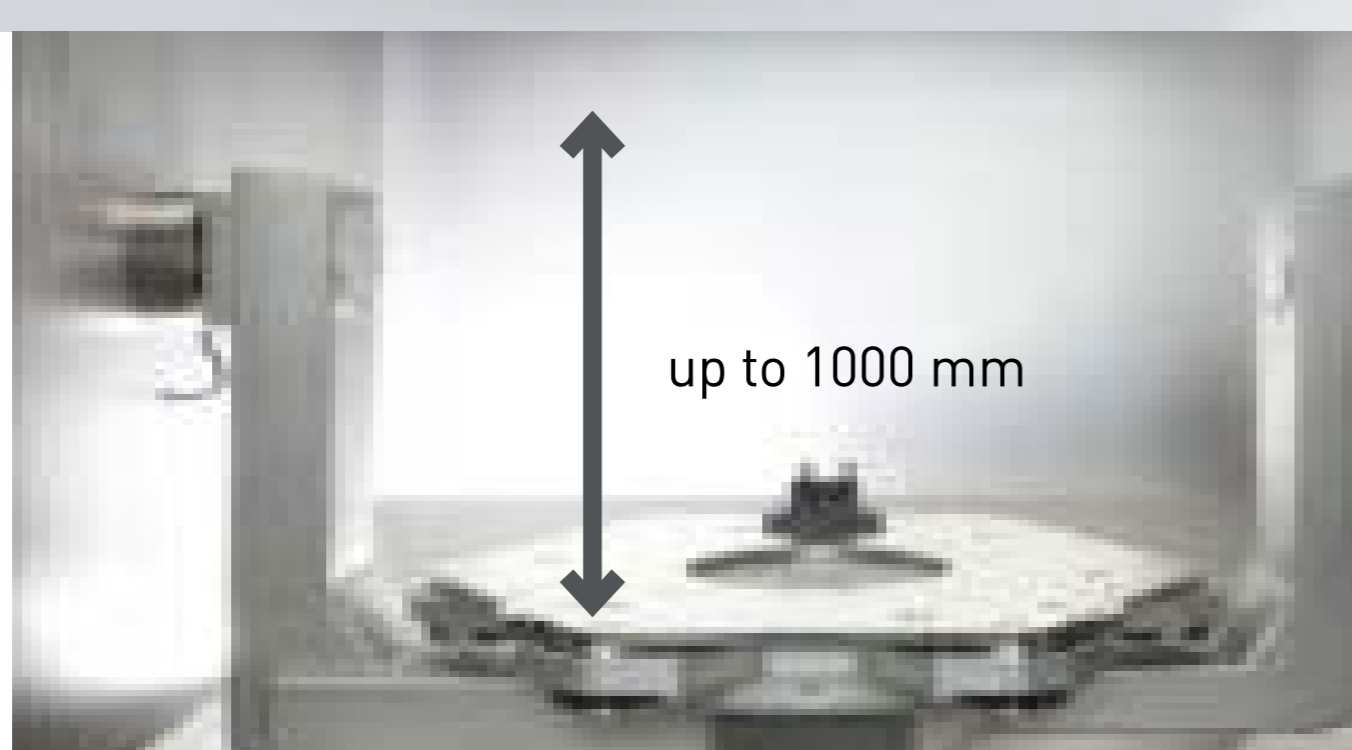
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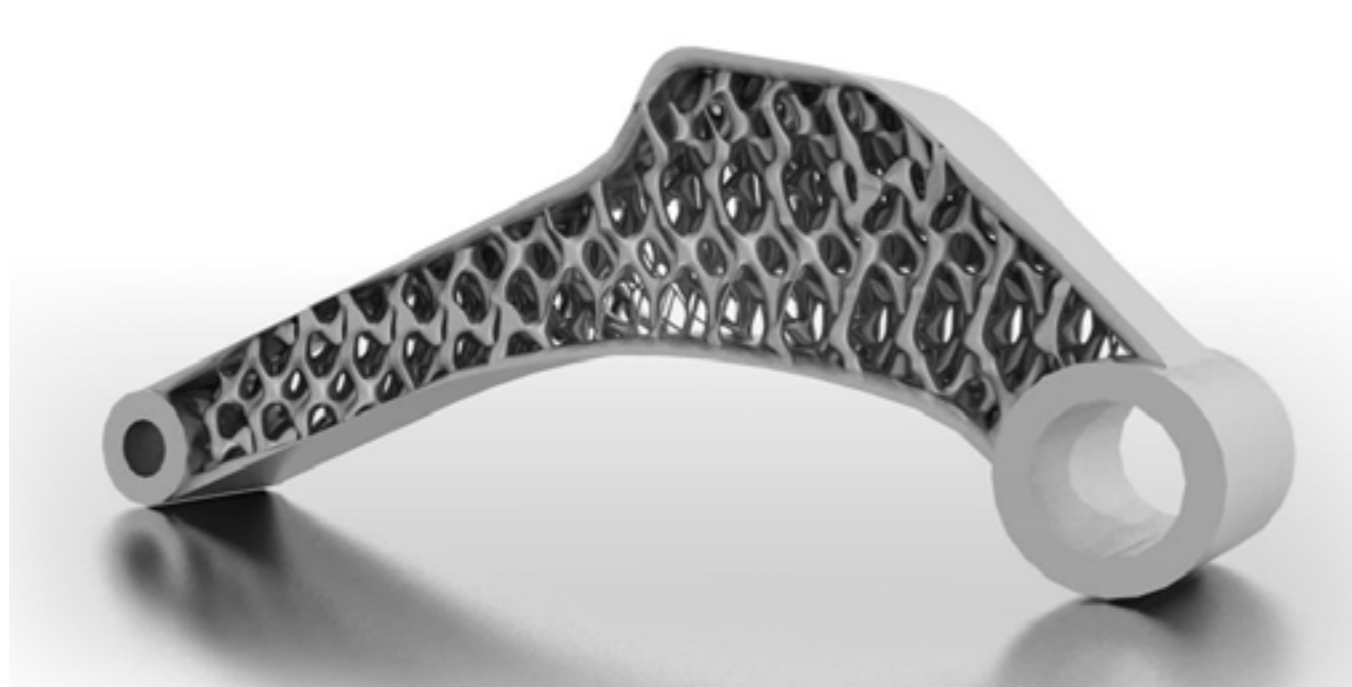


SFM-AT1000-S

The reinforced solution for extraordinary high and complex parts.



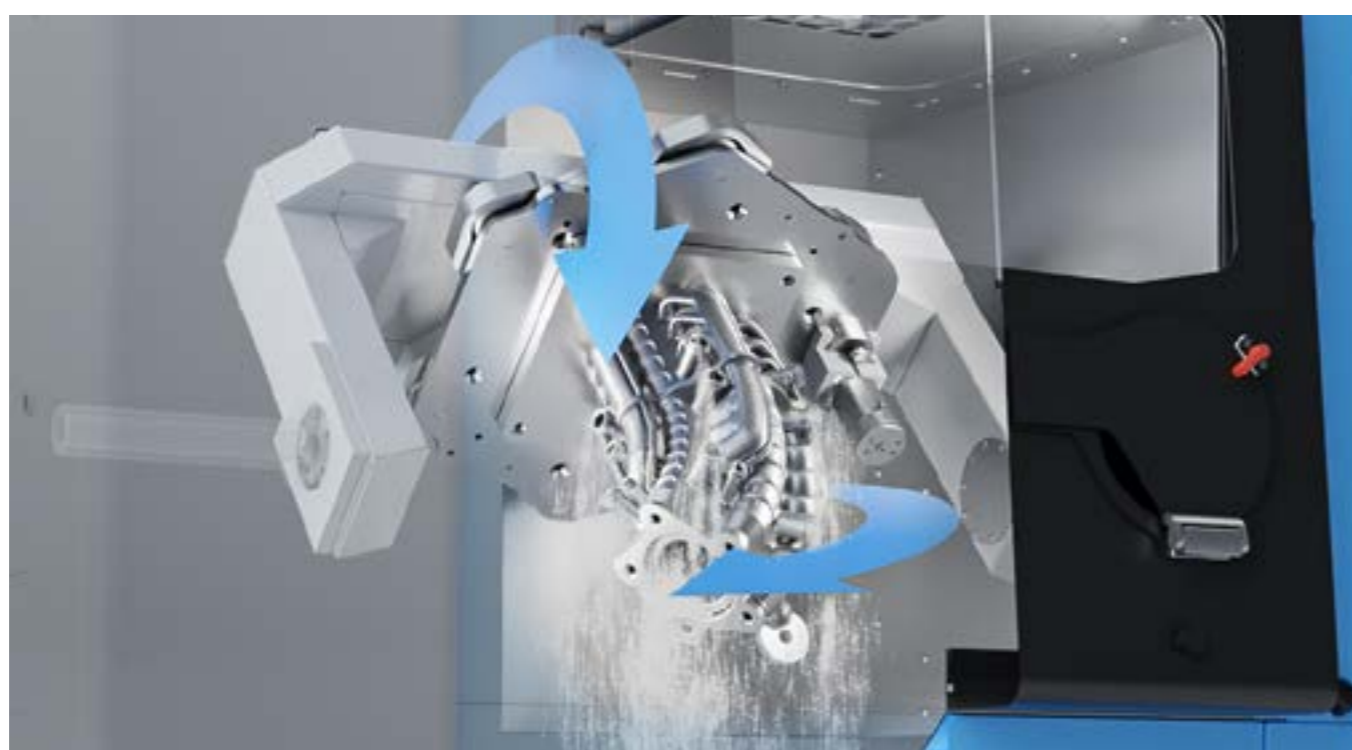
The SFM-AT1000-S is an upscale of the well-established SFM-AT800-S and optimized for automatic depowdering of parts with an extraordinary height of up to 1.000 mm.



The state-of-the-art design is specialized in the requirements of cleaning high parts with internal channels and hard-to-access geometries like modern compact rocket-propulsion engines.



The well proven process removes and retrieves residual metals powders easily, effectively and meets the highest requirements of EH&S.



The technology is based on the combination of two programmable servo-drive-axes with endless rotation and adjustable high frequent vibration. Saving and combining free component movements and spatial positions with an assignment of different functions ensures short process cycles with best results.



Das Speichern und Kombinieren beliebiger Bauteilbewegungen und Positionen mit Zuordnung verschiedener Funktionen, gewährleistet kurze Prozesszyklen und beste Ergebnisse.



Two safety interlocked glove ports facilitate optionally supplementary manual cleaning with compressed air or inert gas.



The process chamber is designed with smooth stainless-steel parts for easy cleaning and free from any ignition source. The safety-monitored inert gas infusion system ensures additionally explosion protection when working with reactive metal powders. Due to the protected process atmosphere the collected powder is immediately ready for recycling.



With the SFM AT 1000, we achieve an incredible throughput and are able to depowder even very large parts quickly and safely.

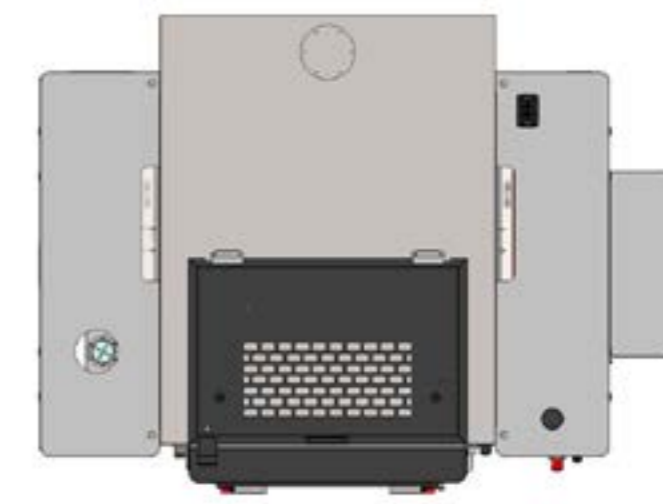
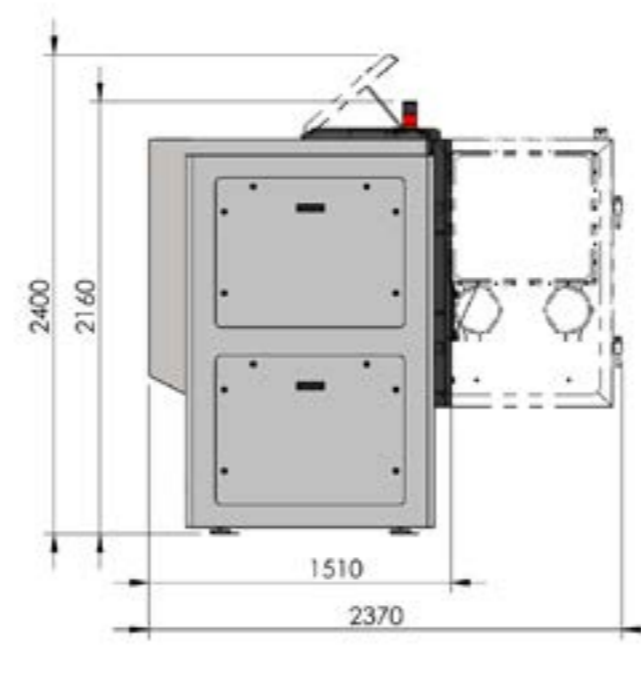
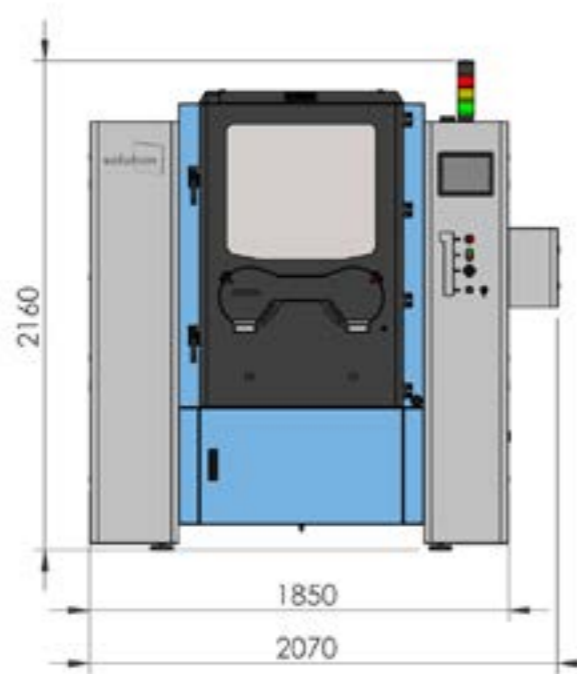
FRANK SCHWARZ
GESCHÄFTSFÜHRER SCHWARZ-3D

Features (*optional)

Like the smaller systems, the SFM-AT1000-S offers a wide range of accessories and individual options.

- S-Drive*
- Two unlimited rotatable and programmable servo axes
- Easy Programming
- Unlimited path programming by toggle mode via joystick or numbers
- Advanced Powder Fluidization
- Adjustable high frequency treatment for gentle and efficient powder flow control*
- Adjustable impactor-knocker system for sticky powder residues
- Powder collection in special inertable containers or direct connection to powder recycling unit*
- Certified, ignition free setup with safety controlled inert gas infusion
- Health protection
- Explosion Safety
- HEPA filtration system for hazardous fine matter
- Contamination free powder retrieval
- OPC-UA control*
- For remote control and IoT systems integration
- Heavy load design
- Easy handling of large and heavy parts
- Compact design
- Condense system setup for minimal foot print

Technical data



Stellmaße (B x T x H)	3.500 x 2.500 x 3.000 mm
Maschinengewicht	950 kg
Bauteilmaße (B x T x H)	450 x 450 x 1040 / 500 x 280 x 875 / 600 x 600 x 1000 mm
Bauteilgewicht	800 kg
Netzspannung / Frequenz	3PH / 400 / 50 V/Hz
Stromaufnahme	0,4 kW 16 A

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