



Automated & Clean Powder Processing



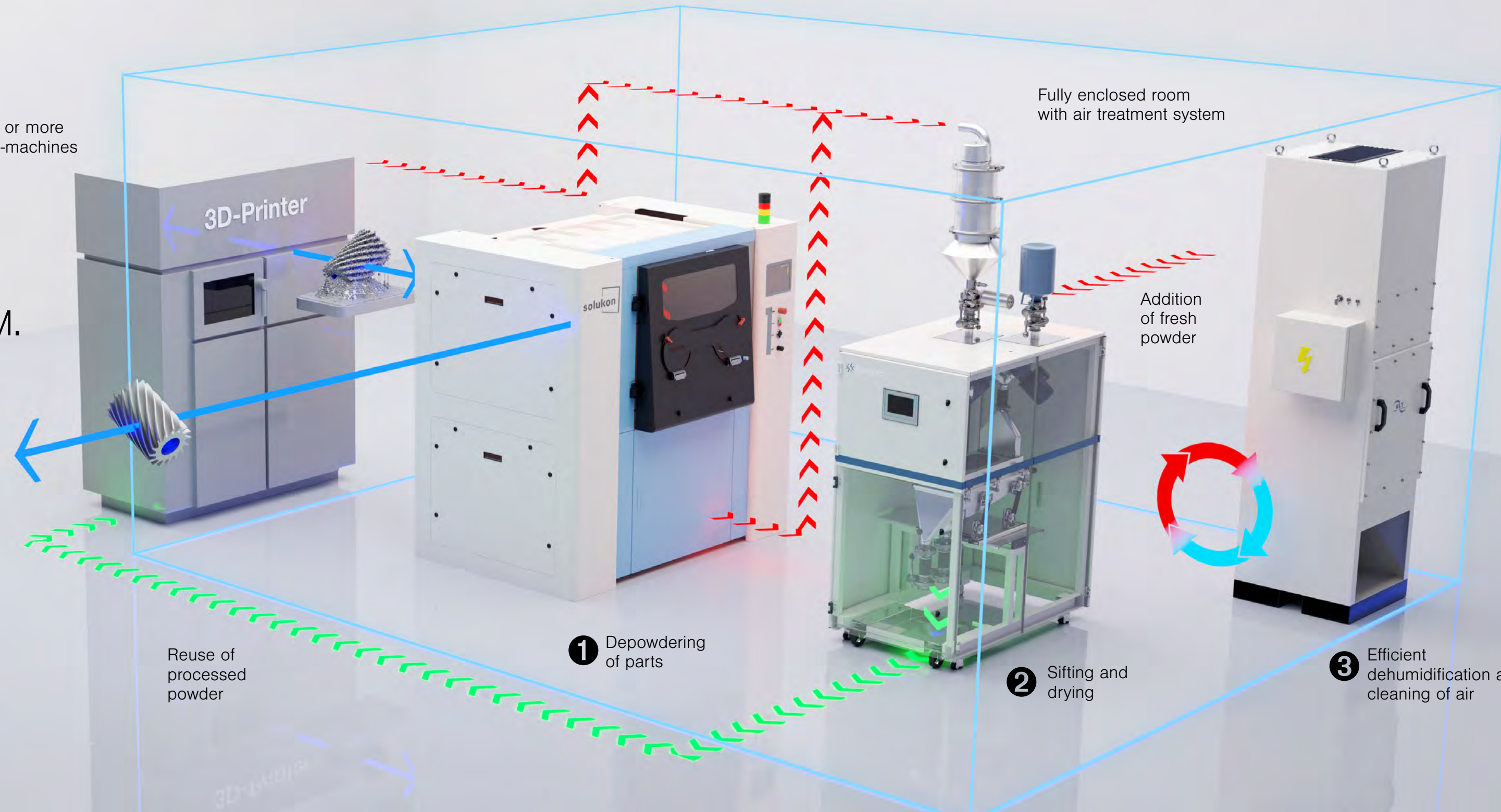
Automated depowdering of parts and conditioning of powder in industrial SLM. Safe & Clean.

In SLM production, safe and clean powder management is a key challenge. The AMP+ network offers highly efficient, well integrated solutions.

- ❶ Handling and automated powder removal of additively manufactured parts.
- ❷ Transferring and conditioning of used powder for reuse as production-quality powder in the SLM process.
- ❸ Securing dry and clean air for a safe working environment.

AMP+ integrated systems for efficient powder Handling.

One or more
SLM-machines



SOLUKON

Solutions for efficient post processing.

Solukon's automated depowdering stations remove powder from complex parts by using programmable vibration and 3D rotation of the parts within a controlled atmosphere. The systems meet highest demands in functionality, reliability and safety. They are approved also for explosion-prone reactive materials and to guard against health hazards. As a pioneer of automated depowdering, Solukon supplies customers worldwide in the fields of aerospace, automotive, medical, oil and gas, and the energy industries.



SFM-AT200
for parts up to 300*300*230 mm

SFM-AT300
for parts up to 300*300*350 mm

SFM-AT800
for parts up to 800*400*550 mm

ASSONIC

Conditioning and handling of SLM process metal powders.

Intense research and system development have made assonic a specialist in reconditioning for both metal and plastic powders used in powder bed fusion AM processes. The integration of the effective „Sonic Speed Screen“ sifting technology with modules adding fresh powder and drying units, results in consistent quality production powder. The systems are operated under inert conditions. The powder management can be designed for different powder flow concepts.



Mini Sonic Screener MSS 150
Semi-automatic sifting of small or medium powder quantities

SPC using KSM 500 Screener
Automatic conditioning of AM-powders 20-63 µm

Sonic Powder Conditioner SPC 1.0
The integrated system including mixing and drying

ULT

Air filtration, cleaning of gases and absorption drying technology.

ULT AG is a worldwide supplier of extraction and filtration technology to eliminate harmful substances from air and for solutions aiming at drying process air based on absorption technology.

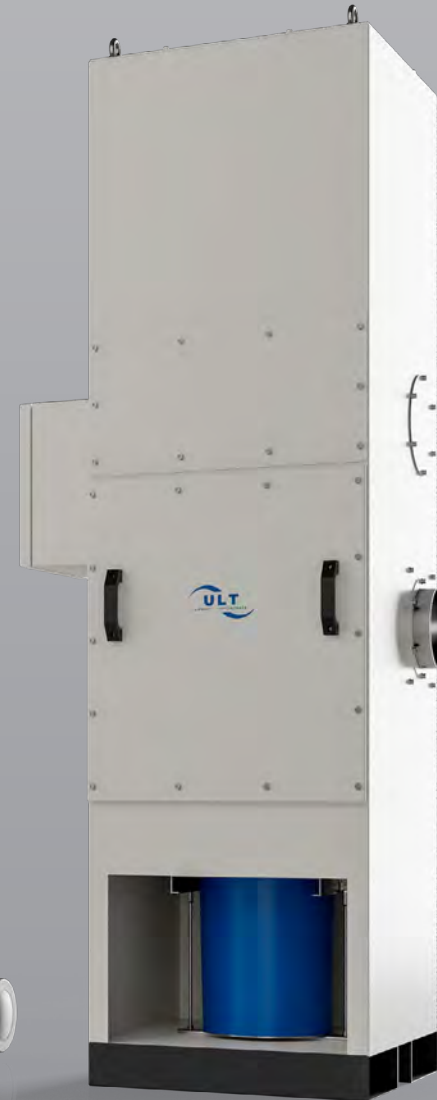
ULT dust and fume extraction equipment is used in many industries, including SLM production, but also in research and development.



ULT DryTec
Dryer for process air



LAS 1200
Mobile filtration system



LAS 1500
Stationary filter system



Controlling humidity in powder-handling rooms



Exhaust and filtration stations for
postprocessing jobs



Advantages at a glance.



Health

Dangerous and harmful dust is extracted efficiently and safely, ensuring a healthy working environment.



Automation and quality

Automated powder management and parts handling, especially in serial production, saves time and increases quality.



Sustainability and cost-reduction

Up to 90% of valuable powder is often wasted during SLM additive manufacturing. Reused powder saves substantial material cost.



Safety

The risks of explosive powder atmospheres of reactive powders are significantly reduced by operating in an inert atmosphere. The systems are conform to ATEX safety standards.



Clean and lean

The work place is kept free of powder residues. The clean environment guarantees the reduction of maintenance cycles.



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