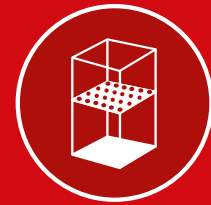


MPS 5 – The **ultrasonic screening station** with integrated pneumatic conveying for printers **with small build chambers**



**Powder sieving
stations**

Printer-independent

Process stable

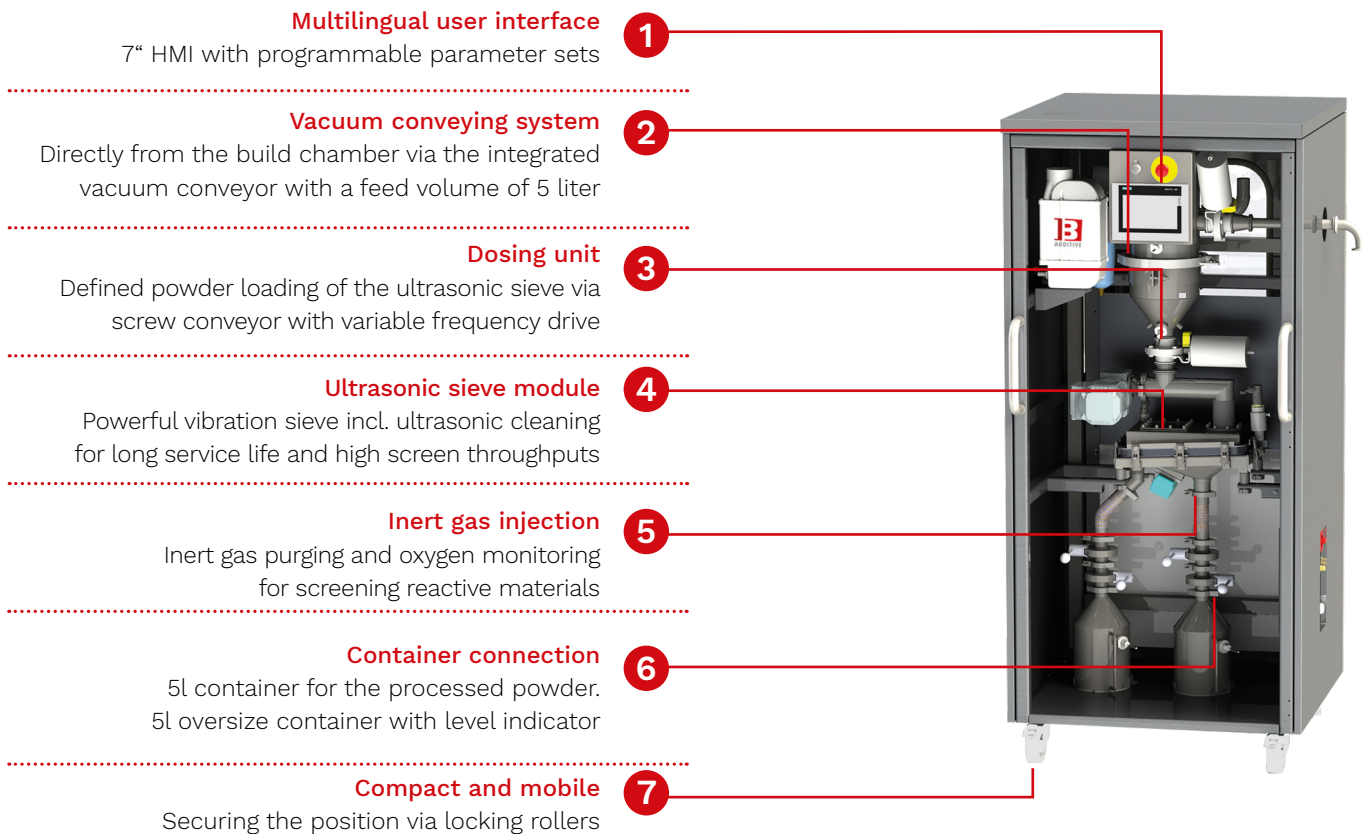
Powerful

Compact

Efficient **ultrasonic screening station**
for powder recovery

Ultrasonic sieving station MPS 5

Simple powder handling for small building chambers



Multilingual user interface

7" HMI with programmable parameter sets

Vacuum conveying system

Directly from the build chamber via the integrated vacuum conveyor with a feed volume of 5 liter

Dosing unit

Defined powder loading of the ultrasonic sieve via screw conveyor with variable frequency drive

Ultrasonic sieve module

Powerful vibration sieve incl. ultrasonic cleaning for long service life and high screen throughputs

Inert gas injection

Inert gas purging and oxygen monitoring for screening reactive materials

Container connection

5l container for the processed powder. 5l oversize container with level indicator

Compact and mobile

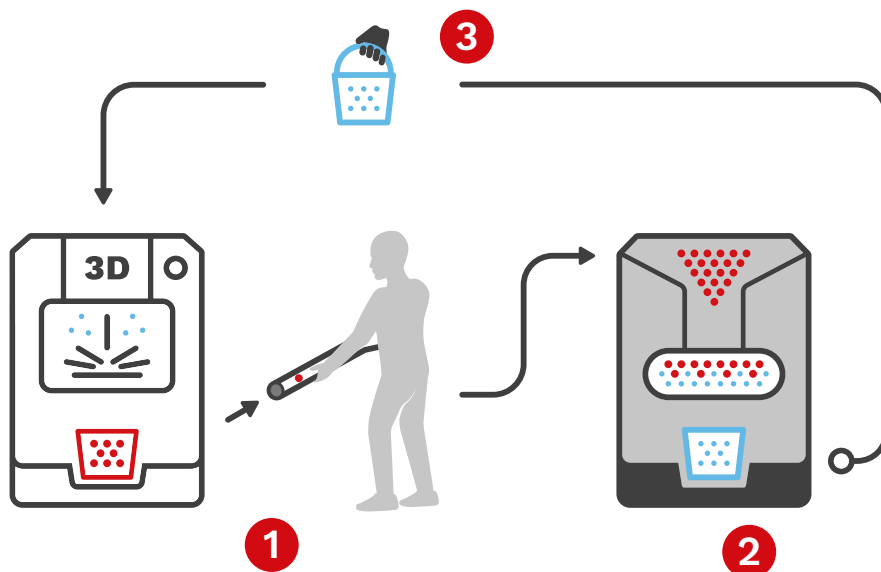
Securing the position via locking rollers

Technical Data

Dimensions	↔	870 x 860 x 1900 mm (W x D x H)
Empty weight	📦	350 kg net
Mesh size	⋮	37 μm - 250 μm
Screen drive	≈	Vibratory drive with ultrasonic cleaning
Inert gas	⚡	Argon / Nitrogen
Container volume	📦	good grain tank 5 l, oversize grain 5 l
Electr. connection	⚡	400 V, 50-60 Hz
Documentation	📄	CE / EAC ATEX / GOST

Universally compatible in the smallest space and with the highest reliability

The MPS 5 Ultrasonic Sieving Station enables used powder to be fed directly from the building chamber of the 3D printer via the integrated vacuum conveying system. The transport of the recycled powder back into the 3D printer is carried out manually via 5l containers.

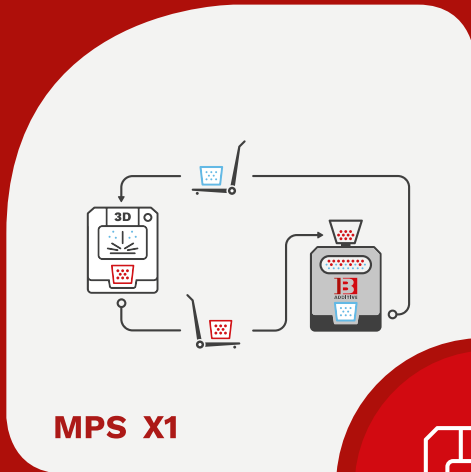


1. Conveying the powder from 3D printer via a suction lance into the sieving station MPS 5
2. Inerting and ultrasonic sieving of the used powder in the MPS 5
3. Manual transport and manual emptying of the container into the 3D printer

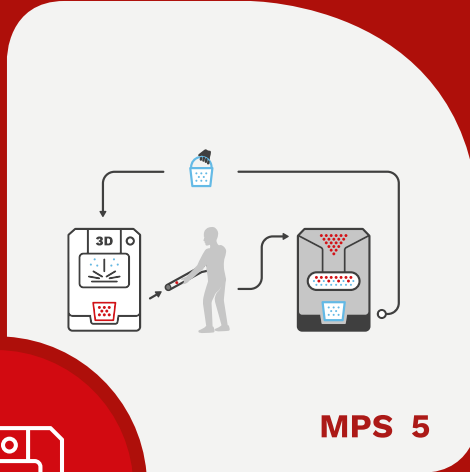
The advantages

- > Powerful ultrasonic sieve with long service life
- > Powder feed directly from the building chamber via vacuum conveying system with 5l feed volume
- > Inert gas purging and oxygen-monitoring
- > CE and EAC compliant
- > Automated system with Integrated vacuum conveying system
- > CE and EAC compliant
- > Sieve throughput aluminum 1l / min at 63 μ m
- > Sieve throughput titanium or stainless steel 2l / min at 63 μ m
- > ATEX and GOST certified

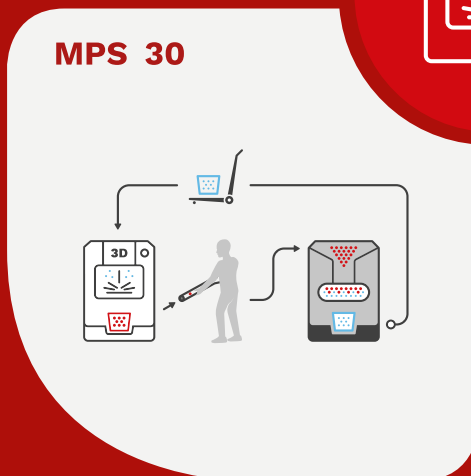
MPS screening stations for every application



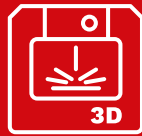
MPS X1



MPS 5



MPS 30



MPS X1

The sieving station for flexible powder feeding via powder hopper

MPS 5

The very compact screening station for 3D printers with small Building spaces

MPS 30

The powerful and adaptable screening station for medium and large printers