Systemized
Powder Handling
Holistic. Customized.

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MPS X1 - The **ultrasonic sieving station** for **powder handling** via containers

Powder sieving stations

- Printer-independent
- Process stable
- Powerful
- Compact

Efficient **ultrasonic screening station** for powder recovery

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Ultrasonic-seiving station MPS X1

Simple powder handling via container

Multilingual user interface
7“ HMI with programmable parameter sets

Powder feed
Via various powder containers, funnels or optional vacuum conveying

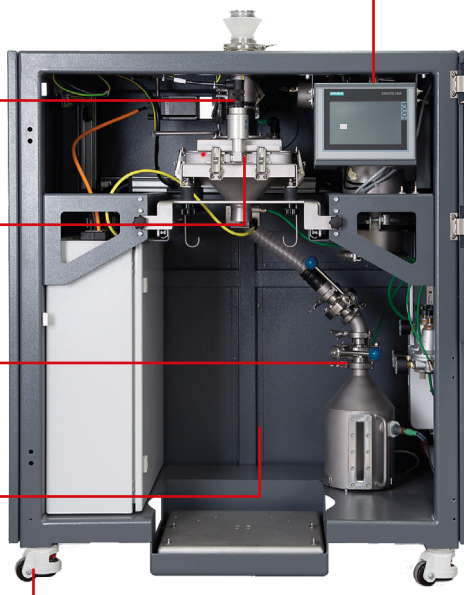
Dosing unit
Defined powder loading of the ultrasonic sieve via screw conveyor with variable frequency drive

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 and weighing system
Compatible with all 3D printers incl. container-weighing. 5l oversize hopper with level indicator

Compact and mobile
Securing the position via lifting rollers

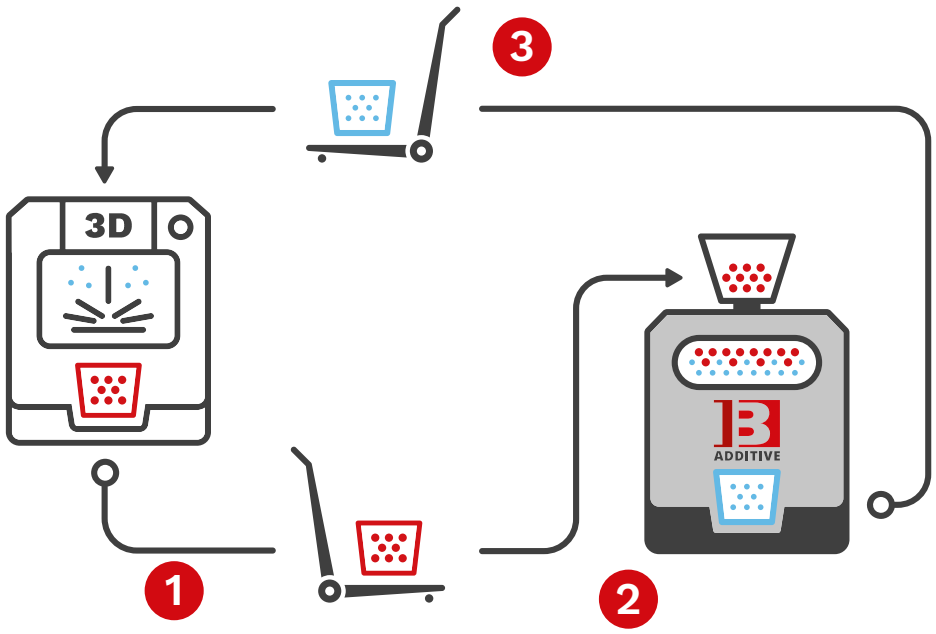


Technical Data

Dimensions	1000 x 680 x 1200 mm (W x D x H)
Empty weight	350 kg net
Mesh siza	37 µm - 250 µm
Screen drive	Vibratory drive with ultrasonic cleaning
Inert gas	Argon / Nitrogen
Container volume	3D printer dependent, oversize 5 liters
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 X1 Ultrasonic Sieving Station enables the feeding of already used powder and the return transport of the recycled powder via the existing containers. Despite the small space requirement, large powder quantities can be efficiently recovered.



1. Removal of the container from the 3D printer and transport to the screening station
2. Inerting and ultrasonic sieving of the used powder in the MPS X1
3. Removing the container from the screening station and transport back to the 3D printer

The advantages

- Powerful ultrasonic sieve with long service life
- Powder feed via powder tanks with variable interfaces
- Inert gas purging and oxygen-monitoring
- CE and EAC compliant
- Automated system with integrated scale
- Sieve throughput aluminum 1l / min at 63 µm
- Sieve throughput titanium or stainless steel 2l / min at 63 µm
- ATEX and GOST certified

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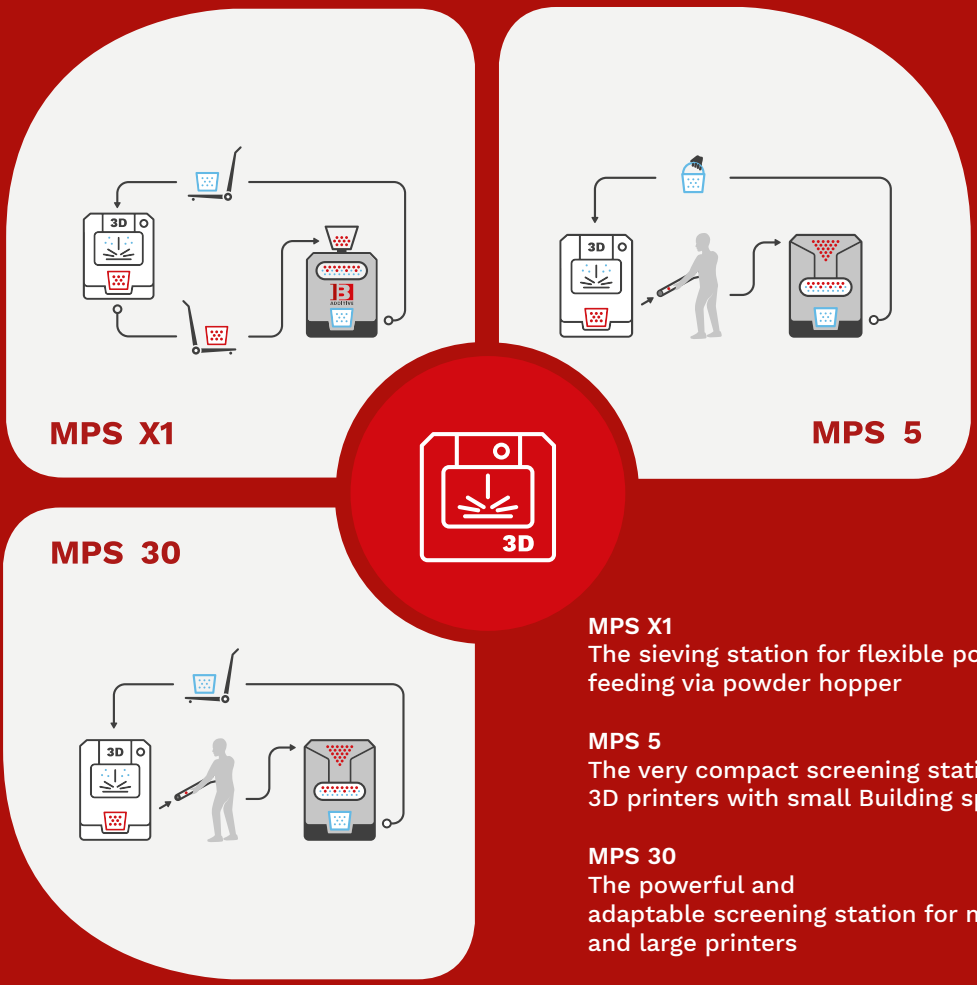
MPS screening stations for every application



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

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ATEX APPROVED
Zertifiziert für die Zonen 20, 21 und 22