Systemized
Powder Handling
Holistic. Customized.

www.ib-additive.com

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

Systemized
Powder Handling
Holistic. Customized.

Ultrasonic sieving station MPS 5

Simple powder handling for small building chambers

Multilingual user interface 1
7“ HMI with programmable parameter sets

Vacuum conveying system 2
Directly from the build chamber via the integrated vacuum conveyor with a feed volume of 5 liter

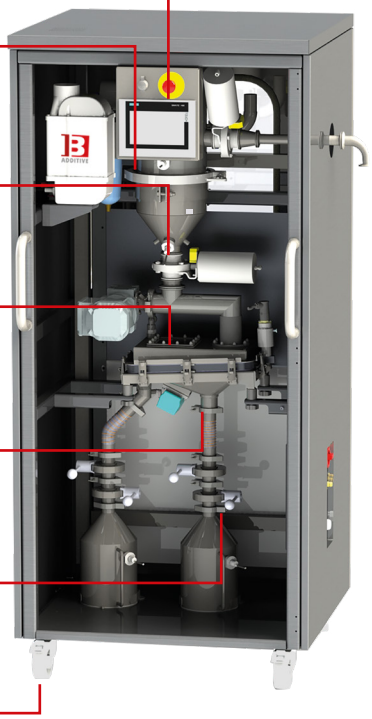
Dosing unit 3
Defined powder loading of the ultrasonic sieve via screw conveyor with variable frequency drive

Ultrasonic sieve module 4
Powerful vibration sieve incl. ultrasonic cleaning for long service life and high screen throughputs

Inert gas injection 5
Inert gas purging and oxygen monitoring for screening reactive materials

Container connection 6
5l container for the processed powder.
5l oversize container with level indicator

Compact and mobile 7
Securing the position via locking rollers

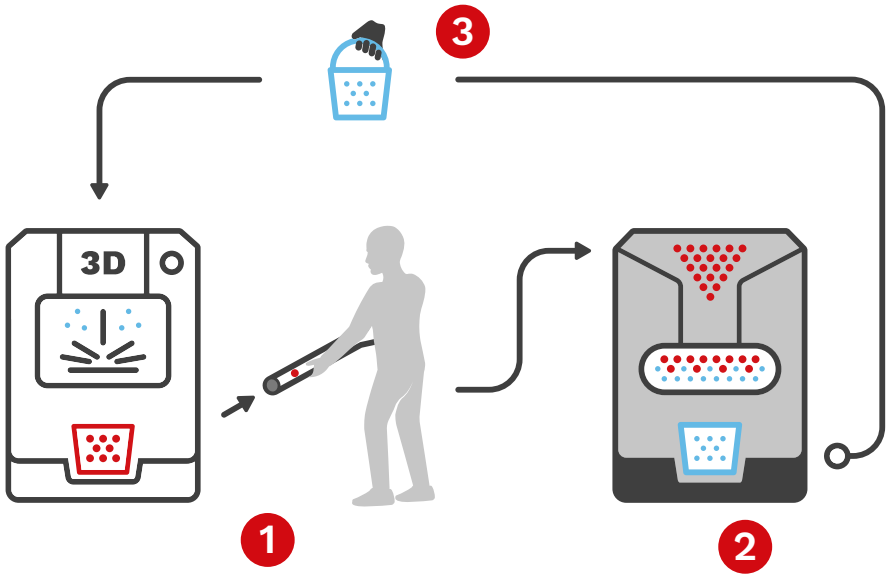


Technical Data

Dimensions	↔	870 x 860 x 1900 mm (W x D x H)
Empty weight		350 kg net
Mesh siza		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

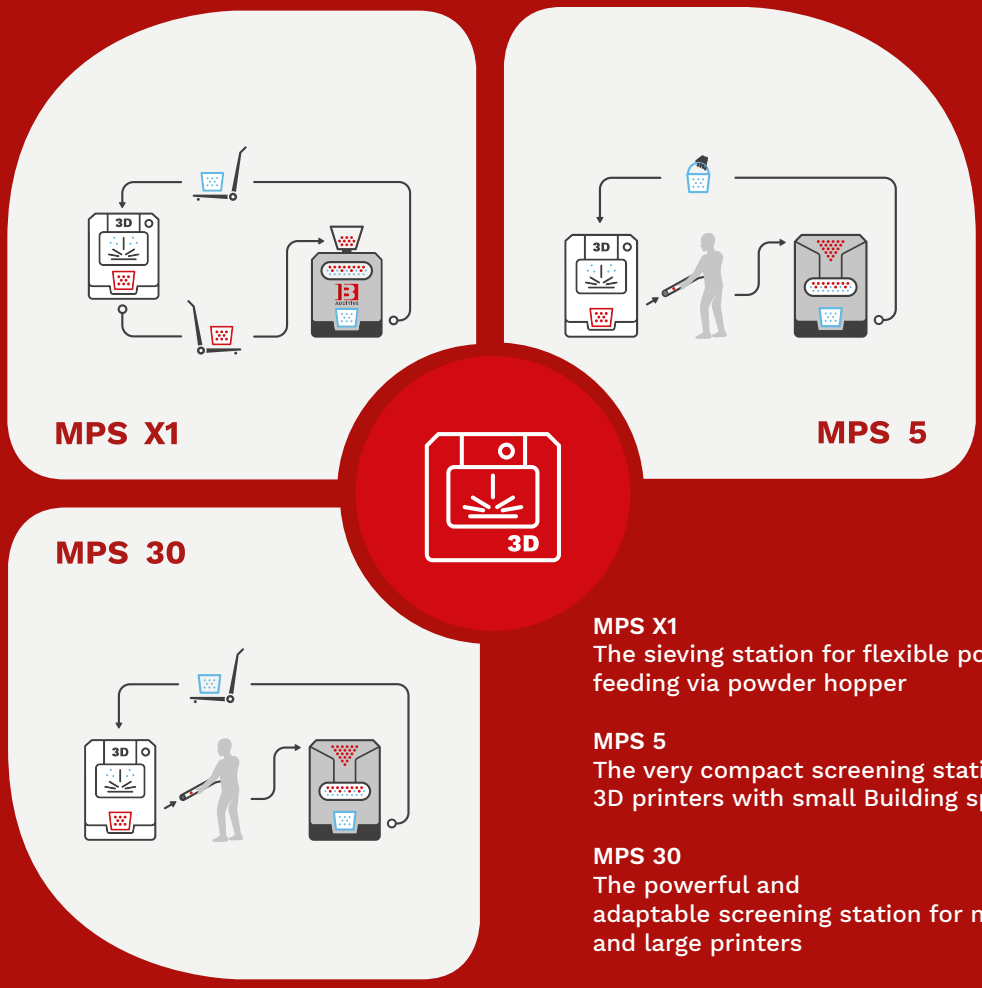
The advantages

- 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 µm
- Sieve throughput titanium or stainless steel 2l / min at 63 µm
- ATEX and GOST certified

Systemized
Powder Handling
Holistic. Customized.

www.ib-additive.com

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

IB Verfahrens- und Anlagentechnik GmbH & Co. KG
Großer Kamp 10-12 · 32791 Lage · www.ib-vt.com
t +49 5232 69190-0 · info@ib-vt.com

ATEX APPROVED
Zertifiziert für die Zonen 20, 21 und 22