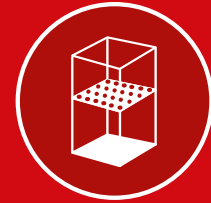


## MPS X1 - The **ultrasonic sieving station** for powder handling via containers



**Powder sieving stations**

**Printer-independent**

**Process stable**

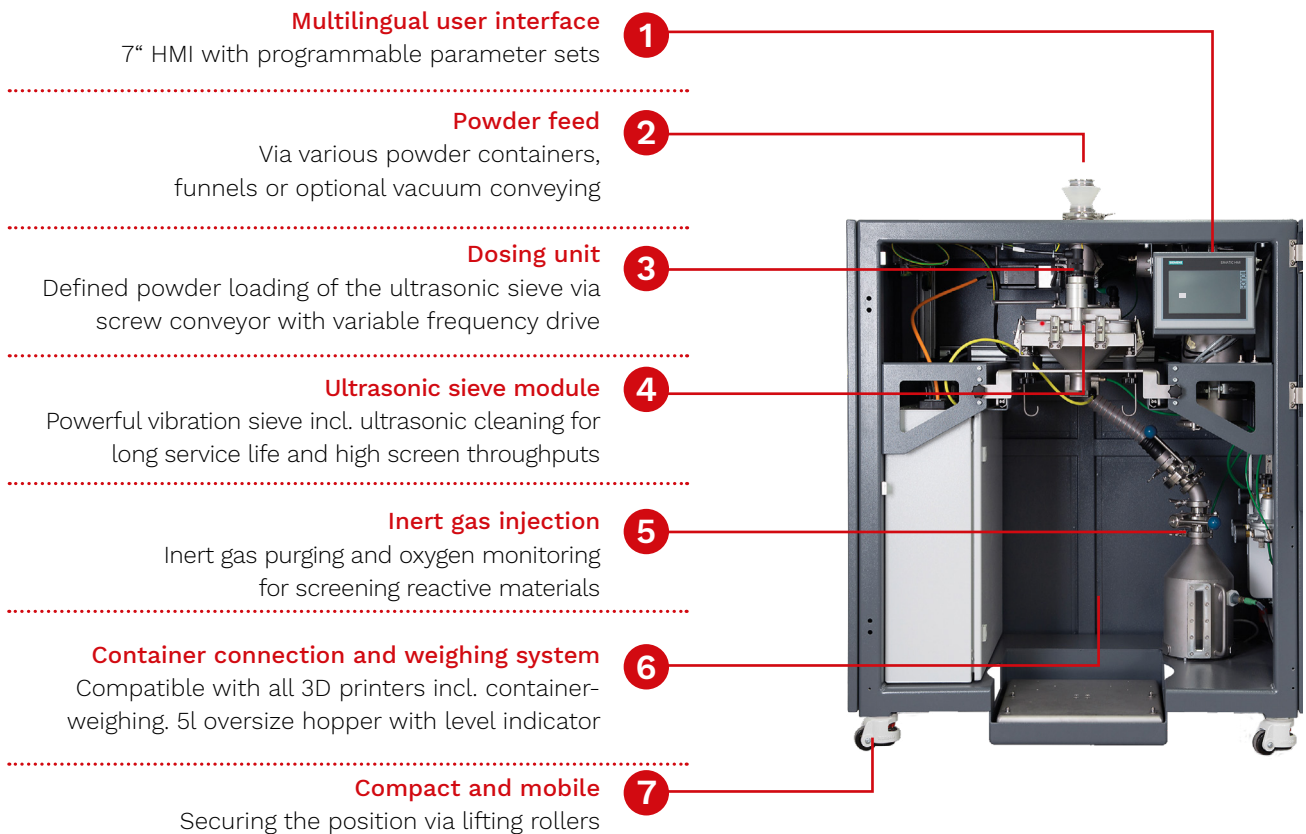
**Powerful**

**Compact**

Efficient **ultrasonic screening station** for powder recovery

## 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**

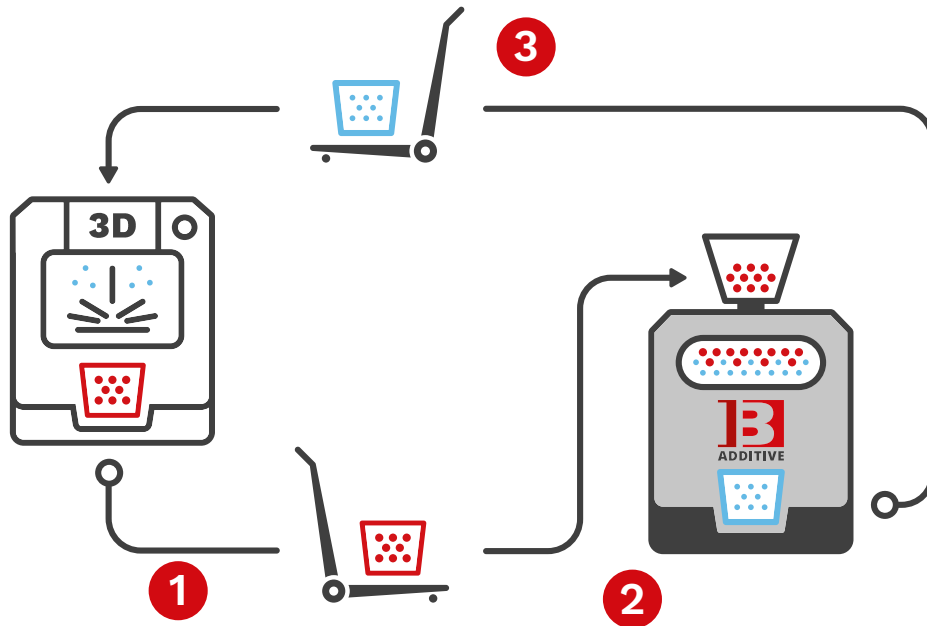
Securing the position via lifting rollers

### Technical Data

Dimensions	↔	1000 x 680 x 1200 mm (W x D x H)
Empty weight	📦	350 kg net
Mesh size	⋮	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.

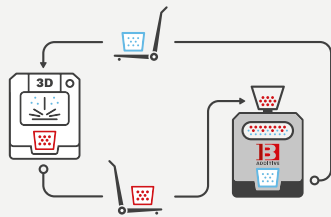


1. Removal of the container from the 3D printer and transport to the screening station
2. Inerting and ultrasonic sieving of the used powder in the MPS X1
3. Removing the container from the screening station and transport back to the 3D printer

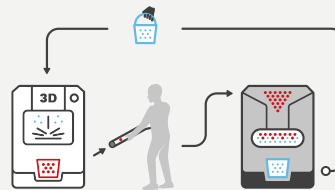
### The advantages

- > 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  $\mu$ m
- > Sieve throughput titanium or stainless steel 2l / min at 63  $\mu$ m
- > ATEX and GOST certified

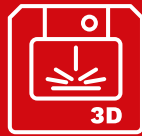
## MPS screening stations for every application



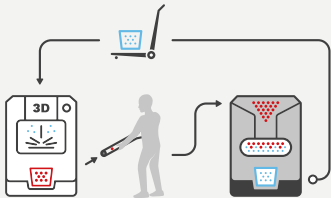
**MPS X1**



**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