



SAFETY

Our solutions meet extremely high safety standards. ATEX certification is available on request, if desired by the customer.



THE SIEVING SPEED

Our sieving machines use high-frequency ultrasound excitation and a low-frequency vibrator to ensure a high material throughput.



EFFICIENCY

Improved sieving result: virtually 100% of the fine material is captured and automatically filled into the designated containers.



COST EFFICIENCY

Our solutions are sophisticated yet straight forward. Standard components are used to achieve top functionality paired with low operating costs.



CONTROL

The entire sieving process can be controlled and regulated. Residual oxygen monitoring is optionally available.



EASY HANDLING

All our sieving machines are easy to clean and convenient to use. We produce sieves individually and they can be replaced as needed.



SONIC SPEED SCREEN MSS 1000

Sieving machine with Sonic Speed Screen Technology

Your customer benefits

The tried-and-tested assonic sieve technology has been upgraded to meet the requirements of a closed, inert powder process chain combined with the TRUMPF TruPrint 1000.

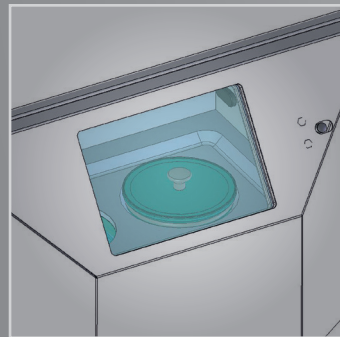
The solution allows for a continuous, closed powder flow that is optionally available as an inert solution, thanks to the option to use protective gas.

Advantages

- High throughput thanks to excitation using high-frequency ultrasound and a low-frequency vibrator
- Closed powder handling along the TruPrint 1000 process chain via Glovebox
- Cost efficient sieving: no operator involvement during the sieving process, thanks to continuous powder dispensing
- Automatic sieving of up to 6 l of powder using the integrated feeding hopper
- High degree of flexibility as powder can alternatively be fed in from bottles using the standard clamp connection on the outside
- Low operating costs thanks to standard analysis sieves
- Worry-free package – the required accessories are included in delivery

Workflow

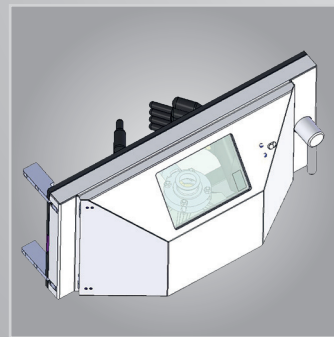
Closed powder handling in three steps



1) The overflow tank is closed before removal



2) The Glovebox can be optionally flooded in advance. The powder is fed into the Glovebox through a hopper. The powder is sieved into the valve cylinder

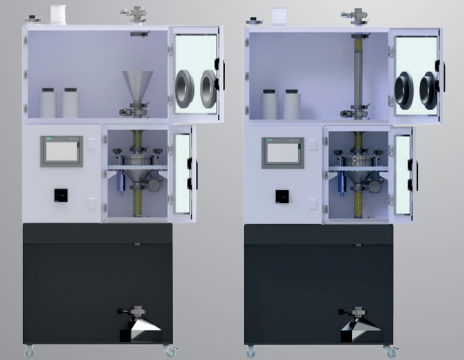
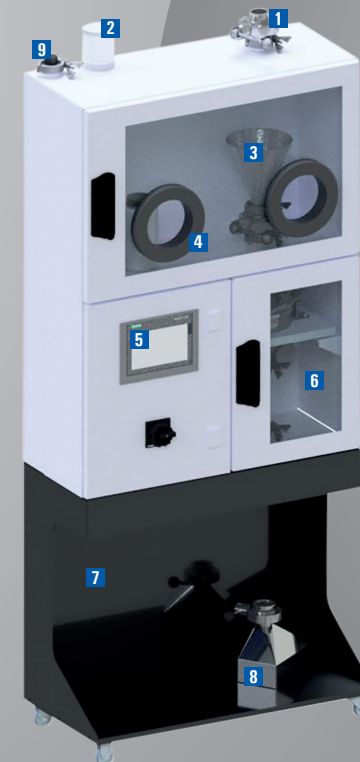


3) The valve cylinder is placed in the Glovebox. The chamber can be optionally flooded with protective gas before opening the bottle.

Technical specifications

- Includes:** Sieving machine with ultrasonic excitation and Glovebox operation via a 7 inch touch panel
- Content:** Sieving machine, analysis sieves (freely selectable mesh widths of 43, 65 and 73 μm , for example)
- Accessories:** Adapter ring, valve cylinder
- Dimensions:** W 760 mm x D 395 mm x H 1780 mm
- Weight:** 120 kg
- Protective gas:** argon or nitrogen
- Operation:** via 7 inch touch panel
- Connection:** 230 V (Schuko plug)

- 1 Standard TriClamp 1½" disk valves
- 2 HEPA filter gas outlet
- 3 Powder feeding using a hopper or optionally a tube from above
- 4 Ergonomic operating height
- 5 Touch panel operation
- 6 Two separate chambers for maximum cleanliness and easy cleaning
- 7 Electrical connection by means of a Schuko plug (230 V)
- 8 TruPrint 1000 valve cylinder
- 9 O₂ sensor for residual oxygen monitoring



Left: Powder is fed in through the hopper (Glovebox)

Right: Powder is fed in from above using a bottle (bottle to bottle)