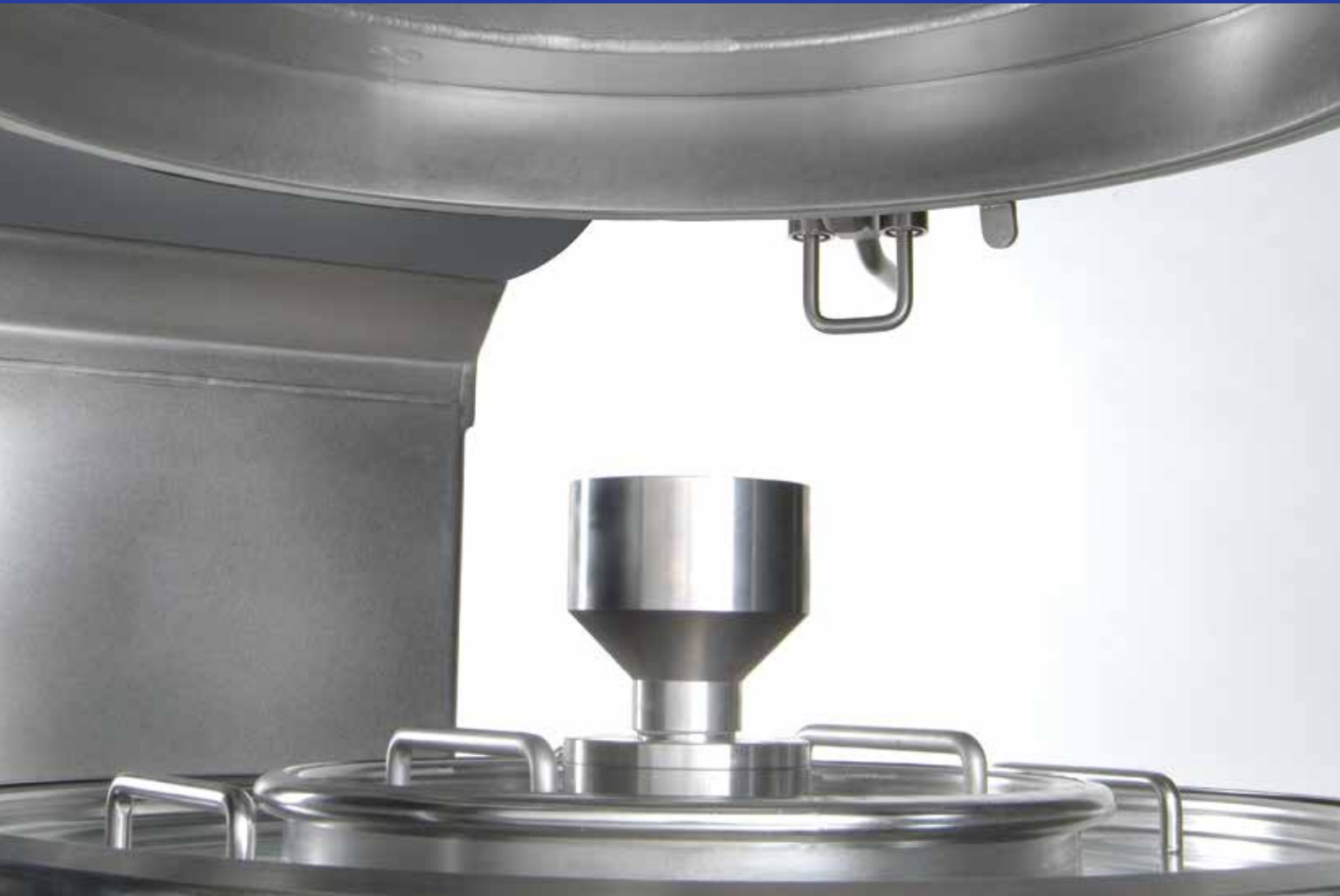


# Blending and Sieving Technology by Bohle

Pharma Blender PM | Turbo Sieve BTS | Turbo Mill BTM





Bohle is the world's leading manufacturer of blenders. The high efficiency of the Bohle blending systems is based on the revolutionary and patented counter-current process principle.

Benefits PM:

- homogeneous blending of dry powder batches
- patented blending elements
- blending of 4–12,000 liters
- PM can also be used as a milling station for bin to bin transfer

## Pharma Blender PM

PM is capable of advanced processes – Blending, chopping and liquid addition:

- closed system
- no cleaning between batches
- rotates up to 6 rpm
- rotation up to 9 rpm is also available
- gentle product movement
- blending baffles in Intermediate Bulk Container (IBC)



PM 2000



Blending elements

- square or round containers
- just rotation, no tumbling
- 20% to 85% fillings level

- chopper is inserted into the 315 mm standard opening of the blending lid
- chopper is able to intensify blending movement and to break lumps
- chopper speed approx. 750 rpm
- automatic coupling for PM 400–PM 2400



Chopper system



## Pharma Blender

The range of Bohle blending systems shows the flexibility of our engineering and manufacturing departments. Bohle blenders can be adjusted and used in any imaginable pharmaceutical production situation. No matter what kind of container you use, round and square, Bohle blenders can handle them with excellent blending results.

Bohle provides blenders featuring a variety of different load bearing capacities:

- standard arm connection and clamps
- round forks on the lift arm
- lift arm with eccentric, power and hydraulic clamps

## Bohle Blending Technology

The Bohle blending systems allow homogeneous blending of dry powder batches with its patented blending elements mounted to the inside of the container lid. The blending procedure can be scaled up from 4–12,000 liters.

For full flexibility the blending containers can be exchanged to use different volumes if required. Due to the patented Bohle blending systems each blending container can be used for effective mixing between 20–85 % of the total container volume for densities between 0.2–1.2 kg/l.

The Pharma Blender is a stationary blending device, consisting of:

- PM machine body with load suspension device
- electrical switch cabinet integrated in machine body. A separate installation is optional upon request
- separate operator panel
- safety light barrier or laser scanner as an option

The blending operation is a fully contained and closed process. Each container has an inner lid for filling procedures.

An extended hoist allows the blender to be also used as a milling station for bin to bin transfer.



Bohle square blender PM 2400 with a MT 1000 container.



## Bohle Turbo Mill BTM



The operator-friendly, modular and compact cGMP design of the BTM guarantees excellent milling results.

### Benefits:

- particle size < 100  $\mu\text{m}$
- screen sizes from 0.3 to 3 mm
- speed of 600–6,000 rpm
- rotor with hammer and knife sides
- automatic rotary valve protects against overfilling
- easy to operate, modular and compact
- integrated mobile lifting column
- gasket made of PTFE or silicone – cGMP, FDA compliant



## Bohle Turbo Sieve BTS

The Bohle high speed cone mill is a patented unit used for particle sizing of dry or wet products which guarantees finest sieving results.

### Benefits:

- innovative impeller design
- speed 150–1500 rpm
- particle sizing of dry or wet products
- mobile, height adjustable, flexible
- production capacities of 2–3 tons/hour
- also available in explosion proof design – according to ATEX guidelines
- conical perforated screens of different mesh sizes



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