

PSM-8

Shear Double Ribbon Mixer

Through the smart construction of the PSM-8 Shear Double Ribbon Blender a twin set of ribbon blades run with different rotation speeds and generating an efficient axial and radial shearing, folding and recombining. Helical Ribbon Mixers are suitable for mixing of powders, wet powders, granules as well as for mixing of light pastes and creams. Hence, depending on the powder properties, they could be also compatible with some limited wet granulation processes.



PSM-8 attached directly to UAM

Operation Mode

As the material is pulled and squeezed against the blades, the saddle and the side walls, the repetitive combination of bulk movement, shearing, stretching, folding and recombining presents the reason behind the high efficiency and quick performance in batch mixing of the PSM-8 Shear Double Ribbon Blender. The PSM-8 Shear Double Ribbon Blender is equipped with a “Reed Relay Safety System” at the cover to increase operation and handling safety.



Clearly Visible

The PSM-8 can only be operated while the cover is closed. Furthermore, the transparent cover facilitates the visual observation of the running process by the operator. The PSM-8 Shear Double Ribbon Blender can be directly attached to the UAM Universal Motor Drive, which in turn allows the operator to smoothly adjust the speed. All contact parts are made of GMP Compliant materials and can be sterilized in accordance with GMP.

Advantages

- » Used for blending, mixing and limited wet granulation
- » Good solution for R&D and small batch production
- » Corrosion resistant, medical & food grade contact parts

Features

- » Versatile applications for solids and liquids
- » Powerful & compact
- » GMP compliant

Standard Scope of Supply

The PSM-8 (part. no. 40-01121) comes with the following standard scope of supply:

- » Adjustable metal frame support
- » Plexiglas cover
- » Safety guard system

Application Specifications

Parameter	Specification
Operation principle	Axial and radial shear mixing; shearing, folding & recombining
Process range	<ul style="list-style-type: none"> » Blending of dry powders (solid/solid) » Mixing of wet powders, slurries and light pastes (solid/liquid)
Feed characteristics	» Dry powders, wetted powders, slurries and light pastes
Range of applications	Pharmaceutical, herbal & alternative medicine, chemicals & fine chemicals, food, agriculture, cement & ceramics, cosmetics and detergents, paints & pigments

Technical Specifications

Parameter	Specification
Total capacity	5 l.
Operation capacity	Up to 4 l Depends on feed properties, instrument and process parameters
Rotation speed	50-450 rpm
Safety guard	Reed relay on the top cover
Instrument dimensions	Approx. 250 x 470 x 500 mm (width x depth x height)
Packaging dimensions	Approx. 480 x 620 x 600 mm (width x depth x height)
Net / Gross weight	Approx. 25 / 27 kg

We reserve the right to make technical changes without any prior notice.