

PLOUGHSHARE® MIXER FOR BATCH OPERATION TYPE FKM



- Highest quality mixes
- Short mixing times
- Reproduceable batches
- Gentle treatment of the product
- Maximum availability
- Low maintenance mixer concept
- Easy accessibility to all inside parts of the mixer





Ploughshare® Mixer for batch operation type FKM 2400



Ploughshare® Mixer for batch operation type FKM 1200

Lödige Mixer for Batch Operation

The Batch Mixer operates on the principle of a mechanical generated fluid bed introduced by Lödige to mixing technology. Equipped with mixing elements which can be adapted to individual requirement, the mixes produced in these machines are of the highest quality.

Range of Application

- Processing bulk materials
(powdery, granular, fibrous)
- Supply of liquids to the dry solid materials
(moistening + granulating)
- Processing pumpable materials

Mode of Operation

Ploughshare® shovels rotate as mixing elements in special arrangement on the mixer shaft in a horizontal, cylindrical drum. The size, number and positioning, geometric shape and peripheral speed of the mixing elements are coordinated in such a way that they produce a three-dimensional movement of the components. The resultant turbulence in the mix, whereby all the product is constantly involved in the mixing process, prevents the formation of deadspots or low-movement zones in the mixing drum and ensures high speed, precision mixing. To prevent particles from being squashed against the drum wall, the mixing elements are specially shaped to lift product from the wall within the radial movement of the mix.

In some cases additional assistance for the mixing elements to obtain the desired mixing effect is required. Separately driven, high-speed choppers can be installed to disperse agglomerations and control granulation during the mixing process in coordination with the mixing elements.

Optional Equipment

- Surfaces with maximum wear resistance
- Heavy duty constructional steels, stainless steels and special materials
- Chopper units
- Heated/cooled drum, endplates and shaft
- Liquid dosing

Sizes

Mixer Type	Total Volume in litres	Working Volume in litres
FKM 130	130	35 – 95
FKM 300	300	75 – 225
FKM 600	600	150 – 450
FKM 1200	1200	300 – 900
FKM 1600	1600	400 – 1200
FKM 2000	2000	500 – 1500
FKM 3000	3000	750 – 2250
FKM 4200	4200	1050 – 3100
FKM 6000	6000	1500 – 4500
FKM 8000	8000	2000 – 6000
FKM 10000	10000	2500 – 7500
FKM 13500	13500	3400 – 10100
FKM 15000	15000	3800 – 11200
FKM 20000	20000	5000 – 15000
FKM 25000	25000	6300 – 18700
FKM 30000	30000	7500 – 22500

Basically, the Lödige Ploughshare® Mixer of type FKM for batch operation has a filling degree of approx. 25 - approx. 75 % of the total volume. The optimal filling degree depends on the application and can therefore vary according to the product mixed.