



Planning | Constructing | Building BEAR Mills & Tanks GmbH

BEAR Ball Mills BMFL Series

Description:

The BMFL ball mills have been developed especially for the fine milling and homogenizing of chocolate and similar liquid products. Thanks to the large cooling surface it is suited also for temperature sensitive products. The relatively small steel ball filling minimizes the dynamical weight that combine energy efficiency with a high shaft speed. and a product flow from bottom to top. The BMFL is suitable for low abrasive products.

Construction:

In the BMFL ball mill series the milling tank is mounted to the rigid steel frame over a hinge. That makes it possible to turn the milling tank out of the frame for an optimal access during maintenance work. The BMFL ball mills are also equipped with a quick discharge for the steel balls. This enables a comfortable and easy removing of the steel balls during maintenance works. Thanks to the milling tank design with an inner and outer milling chamber the cooling surface also consist of an inner and outer surface.

Characteristics:

The BMFL ball mill has a special milling tank construction which can be described as a labyrinth design. Thanks to the splitting of the milling chamber into two sections the milling effect is very intensive. Compared to conventional ball mills the cooling surface is about 50% larger and the product has an about 80% longer way to pass through the milling tank. Thanks to the large cooling surface the mill is especially suited for the milling of temperature sensitive products. The BMFL type ball mill operates with a high shaft speed and a low amount of steel balls. Further it combine the characteristics of a mill that is fed from the bottom with those of one that is fed from the top.

Process controlling:

The product temperature, shaft speed and feeding pump are continuously monitored and displayed on the control panel. A product flow sensor in the outlet assure that the mill can only operate by product flow and help to avoid disturbances.

Including:

- Ball mill
- Feeding pump
- Product buffer
- Control panel

Specifications:

	BMFL 15	BMFL 18	BMFL 22
Capacity: [kg/h]	up to 200	up to 400	up to 600
Main drive: [kW]	15	18	22
Shaft speed: [rpm]	120	120	120
Volume, milling tank: [l]	50	50	50
Dimensions: [m]	1,35 x 1,2 x 2,5	1,35 x 1,2 x 2,5	1,35 x 1,2 x 2,5

