



Planning | Constructing | Building BEAR Mills & Tanks GmbH

BEAR BMS Marilyn Ball Mill

Description:

The BMS ball mill is constructed especially for the intermediate and fine milling of cocoa liquor. Typical for the BMS is the wide milling tank with a large volume and a large steel ball filling. Thanks to the combination of a large amount of steel balls and the slow shaft speed, good milling characteristics can be achieved with a relatively low powered and energy saving main drive.

Construction:

The ball mills in the Marilyn series consist of a rigid steel frame with an attractive design. The milling tank is mounted on the steel frame with two heavy bearings. That makes it possible to tilt the milling tank out of the frame for maintenance work. The tilting is achieved by a hydraulic cylinder. Further the Marilyn ball mills are equipped with a quick discharge for the steel balls. This enables a comfortable and easy removing of the steel balls during maintenance works. The milling tank is jacketed for cooling and heating purposes. For added cooling capacity the shaft can be delivered as water cooled.

By optimizing the milling tank size and the length of the stirring arms combined with high graded materials the wear has been reduced significantly. Thanks to this we can give a three years warranty on our milling tanks.

Characteristics:

On the BMS ball mills the product flow is from the top to the bottom. In that way the weight and pressure of the steel balls increase the milling intensity. Due to this the shaft speed can be kept low and thus keeping the wear and maintenance effort at a low level.

Process controlling:

The product temperature, shaft speed and discharge pump are continuously monitored and displayed on the control panel. A product flow sensor in the outlet and a level sensor in the milling tank assure an even output and help to prevent disturbances.

Including:

- Ball mill
- Gear pump
- Control panel

Specifications:

	BMS 04	BMS 30	BMS 45
Capacity: [kg/h]	up to 100	up to 1.500	up to 2.000
Main drive: [kW]	4	30	45
Shaft speed: [rpm]	115	92	92
Volume, milling tank [l]:	25	500	500
Dimensions: [m]	0,8 x 0,5 x 1,7	1,5 x 1,0 x 3,0	1,5 x 1,0 x 3,0

