



# Planning | Constructing | Building

## BEAR Mills & Tanks GmbH

### BEAR Beater Blade Mill BBM

**Description:**

BEAR BBM is a beater blade mill which has been constructed for the pre-milling of cocoa nibs. The main drive is applied as a direct drive to assure an energy efficient milling process.

**Construction:**

All mills within the BBM-series are mounted on a rigid steel main frame. The direct drive brings it advantages such as energy efficiency and less radial forces on the main shaft compared to a belt drive.

The milling tank is made in mild steel or optional in stainless steel. Further the milling tank is jacketed for heating and cooling purposes. The tank top cover can be opened with a hydraulic cylinder to make maintenance safe and comfortable.

**Process:**

The product enters the mill from the top where a feeding screw conveyor regulate the input flow. The milling process is realized by four horizontally mounted beater blades that rotates at a high speed.

Around the internal milling area a cylindrical gap sieve is mounted to guarantee an equal product output fineness. A product buffer at the outlet helps to achieve a stabile and even product flow. Metallic particles due to wear are removed from the product by a magnet inlay in the output.

**Process controlling:**

The process is controlled by level sensors mounted in the milling tank and product output buffer. The product input is regulated by the continuous monitoring of the main drive power consumption. All these control points help to regulate the milling process and to avoid an over filling of the mill. In the output a temperature sensor measures the temperature which is displayed on the control panel. On customer requirements the output product buffer can be equipped with an analogue level sensor to regulate the feeding pump for the next milling stage.

**Including:**

- Mill with gap sieve and beater blades
- Discharge pump
- Product output buffer
- Magnet inlay
- Control panel

**Specifications:**

	BBM 5	BBM 10	BBM 20	BBM 30
Capacity: [kg/h]	up to 500	up to 1.000	up to 2.000	up to 3.000
Main drive: [kW]	45	75	110	160
Shaft speed: [rpm]	1.465	1.465	1.465	1.465
Milling tank: [l]	400	400	600	600
Product buffer: [l]	300	300	700	700
Dimensions: [m]	2,0 x 1,6 x 3,0	2,0 x 1,6 x 3,0	2,8 x 2,0 x 3,8	2,8 x 2,0 x 3,8

