



# Planning | Constructing | Building

## BEAR Mills & Tanks GmbH

### BEAR BCM Classifier Mill

#### Description:

The BCM classifier mill is a mill for the dry powder milling of different products. It has long life bearing housings and drives with power reserves. In its construction, the classifier mill, is an impact crusher mill with integrated classifier. The milling disc is equipped with milling stones made out of wear resistant material. The product is being crushed by the milling stones and an impact ring. The integrated dynamical sifter, or classifier, is placed before the product output. The sifter separates the coarse particles from the product flow and return these to the milling process. The particle size depends on sifter speed and sifter design.

#### Typical features:

- Milling and classifying in one machine
- Cold milling (low heat input)
- Rigid and safe design
- Wear resistant materials
- Output fineness adjustable during operation
- Easy maintenance and cleaning
- Low energy consumption

#### Process:

The product input flow is regulated by a star lock valve and an air circulation. On its way through the mill it passes the milling elements of the milling disc and the impact ring. After the size reduction the product flow has to pass the sifter where coarse and fine particles are separated from each other. The fine particles exit the mill with the air flow through the output and the coarse particles are returned to be re-milled. The end product is separated from the air flow in a cyclone.

#### Specifications:

	BCM 50	BCM 600	BCM 1.000
Capacity: [kg/h]	up to 50	up to 500	800 - 1.200
Main drive: [kW]	3	30	90
Sifter: [kW]	1,1	4	15
Sifter speed: [rpm]	8.800	1.000 - 3.000	500 - 1.600
Dimensions: [m]	1,5 x 1,5 x 2,5	6,0 x 4,5 x 6,0	6,5 x 4,5 x 6,0

