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## Bottom discharge hammer mill

The basic principle is straight forward. A hammer mill is essentially a steel drum containing a vertical or horizontal rotating shaft or drum on which hammers are mounted. The hammers are free to swing on the ends of the cross, or fixed to the central rotor. The rotor is spun at a high speed inside the drum while material is fed into a feed hopper. The material is impacted by the hammer bars and is thereby shredded and expelled through screens in the drum of a selected size.



Our ranges of techno wings brand bottom discharge hammer mills are available in various sizes. These bottom discharge hammer mill are recommended for powdering grains, chemicals, herbs, minerals, spices, cattle feed, chemicals, oil cake, tea, coffee, crude drugs, molding powder, dry soap, charcoal, etc. These hammer mill known for the different features of hammer mill include:

- improved crushing efficiency thus low specific power consumption
- Minimized power consumptions by the way of friction lose.
- Low temperature grinding.
- Easy starting.
- Silent running.
- dust free operations
- robust construction
- durable long life
- guaranteed grinding efficiency

## Operating principle of Bottom discharge hammer mill

The materials to be ground into the crushing chamber of hammer mill from feed hopper by gravity or through an auto feeder (optional) the beaters / blades inside the crushing chamber accelerate the material to a very high speed to the toothed liner placed at the upper half of the crushing chamber. Shearing pulverizes the material. The ground materials continuously discharge through screens placed at the bottom periphery of the crushing chamber and excess air filtered through a cotton balloon. Particle size varied using screens with different size hole.



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### **Key features of Bottom discharge hammer mill**

- Unique and reliable design
  - The bottom discharge hammer mill series pulverizers are highly effective as well as nonstop continuous pulverizing process.
- Compact size
- Dust free operation
- Ideal for dry crushing
- Increased production leading to faster return on the investments
- Hardened & fully machined shelving type blades thus less wear & tear
- All rotating parts are balanced for reducing friction losses and noise

### **Standard accessories of Bottom discharge hammer mill**

- Motor pulley
- 1 number cotton balloon.
- Anti vibrating foundation stand with adjustable rail for motor
- 2 numbers of perforated round hole screen.

### **Extra accessories of Bottom discharge hammer mill**

- Suitable totally enclosed fan cooled three phase sq. Cage motor as per is: 325. {electricity (special power can be accommodated): 220/380/415 v0lts, 50/60 Hz, 3 phase }
- Starters, main switch, ampere meter, capacitor for three phase
- Foundation bolts
- V belts
- All contacting parts stainless steel 304 / 316 can be accommodated

### **Application of Bottom discharge hammer mill**

Hammer mills are exclusively meant for the grinding of sugar, bangle grams, maize, pulses, and a large scale basis.

### **Construction of Bottom discharge hammer mill**

Hammer mill made from heavy duty mild steel fabricated body. Grinding chamber lined with serrated wear plates, which protects the body from wear and tear. Grinding is done by a set of swinging blades or hammers on a balanced rotor. A screen classifier forms the lower half of the grinding chamber.

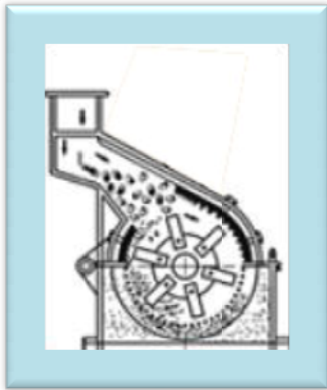


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### Section view of Bottom discharge hammer mill



### Available models of Bottom discharge hammer mill

Model no.	Chamber size	Type	Capacity per/hour	Hp required
Tw-48 BD	4" x 8"	Bottom discharge	20-25 kg.	2
Tw-510 BD	5" x 10"	Bottom discharge	30-35 kg.	3
Tw-612 BD	6" x 12"	Bottom discharge	50-55 kg.	7.5
Tw-714 BD	7" x 14"	Bottom discharge	100-110 kg.	10