



Jas Enterprises
An ISO 9001:2008 Certified Company
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Hammer mill

Techno wings hammer mill (screen type machine) is more efficient. The grinding chamber consists of a serrated liner on top and screen at the bottom, at times due to higher oil content in spices; there are chances of the screen getting clogged with spices, thus chocking the grinding chamber. The material passes through the blower and gets discharged through the cyclone through a one way valve. The air generated in the grinding chamber passes out through the cyclone outlet on top. A polyester dust bag can be fitted above the cyclone working like a dust collector, or we can offer you a totally enclosed dust collector (manually shaken type) or a pulse air type dust collector, the choice we however leave it to your kind decision. The attached illustrated catalog will also brief you about the type of machine manufactured by us.



Key features of hammer mill

- Unique and reliable design
 - The hammer mill series pulverisers are highly effective as well as nonstop continuous pulverising 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 wears & tears.
- All rotating parts are balanced for reducing friction losses and noise

Available models of hammer mill

Model no.	Chamber size in inch Width x diameter	Type	Capacity per/hour	Required H.P.
Tw - 48e	4" x 8"	Economic	20-25 kg.	2 H.P. (1.5 Kw.)
Tw - 510e	5" x 10"	Economic	30-35 kg.	3 H.P. (2.3 Kw.)
Tw - 612s	6" x 12"	Super	60-65 kg.	7.5 H.P. (5.5 Kw.)
Tw- 612e	6" x 12"	Economic	50-55 kg.	7.5 H.P. (5.5 Kw.)
Tw - 714s	7" x 14"	Super	100-110 kg.	10 H.P. (7.5 Kw.)
Tw - 714e	7" x 14"	Economic	70-75 kg.	10 H.P. (7.5 Kw.)



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Tw-1016s 10" x 16"	Super	200-210 kg.	20 H.P. (15 Kw.)
Tw-1020s 10" x 20"	Super	250-275 kg.	25 H.P. (18.5 Kw.)
Tw-1224s 12" x 24"	Super	400-440 kg.	40 H.P. (30 Kw.)
Tw-1326s 13" x 26"	Super	800-880 kg	50 H.P. (37.5 Kw.)

Operating principle of 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 pulverises the material. The ground materials are continuously sucked by a centrifugal blower through screens placed at the bottom periphery of the crushing chamber and conveyed through a pipe into the cyclone dust collector for bagging. Excess air filtered through a cotton balloon. Particle size varied using screens with different size holes.

Standard accessories of hammer mill

- Hammer mills's & motor pulley.
- 2 numbers of cotton balloons.
- Anti vibrating foundation stand with adjustable rail for motor.
- 3 numbers of perforated round holes screens.

Extra accessories of hammer mill

- Suitable totally enclosed fan cooled single or three phase sq. Cage motor as per is: 325 or 996 { (special power can be accommodated): 110/220/380/415 volts, 50/60 Hz, 1/3 phase }
 - Suitable miniature circuit breaker as per is: 8828 with 3 meter cable & 3 pin top as per is: 1293 or suitable starters, main switch, ampere meter, capacitor, 4 core cable for three phase.
- V belts
- Contacting parts stainless steel 304 / 316 can be accommodated.

Application of hammer mill

Hammer mills are exclusively meant for the grinding of chilies, coriander, dry ginger, black pepper, turmeric and curry powders, on a large scale basis. These spices are ground in a two / three stage operation, depending on the fineness desired, i.e. the breaking of the turmeric in a large holes screen for the first operation, and the subsequent fine grinding done in a fine holes



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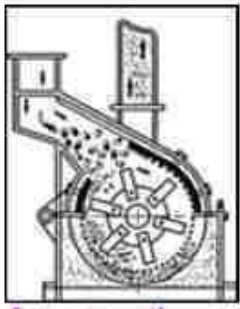
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screen for the second and third operation. We give here below production figures for the same.

Construction of 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. For super model blower driven on a separate shaft with the help of a 'v' belt adjustable drive from the rotor shaft. For standard / economical model, the rotor & blower driven by single shaft there is single speed of rotor and blower.

Section view of hammer mill



Enlarge view