

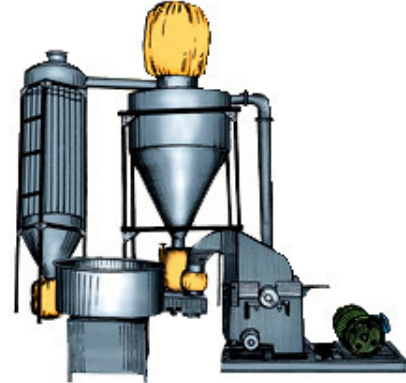


Jas Enterprises
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Auto suction hammer mill

We offer customers automatic suction hammer mill that comes in capacity ranging from 6 H.P. To 85 H.P. Available under the brand name 'techno wings' these automatic machines maintain due to continuity flow through automatic suction through motor. Further, the ampere of motor does not fluctuate, hence increasing the working capacity of machine. The basic principle is straight forward. A hammer mill is essentially a steel drum containing a horizontal rotating shaft or drum on which hammers / blade 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 / blade and is thereby shredded and expelled through screens in the drum of a selected size.



Key features of auto suction hammer mill:

- Less operating cost due to automatic feeding
- The size of cyclone body tank is bigger in these hammer mills
- Automatic operations less production cost
- Easy to work & collect ground material without air pressure, due to dust collector.
- Through rotary suction machine red chili, cumin, coriander, husk of ground nut, rice bran, seeds of araticrec (batool) soya bean are automatically sucked.
- Due to availability of beater carbides in automatic machines, it is not necessary to change beater frequently, which also ensures that production is not effected
- Separate motor for hammer mill, blower, and rotary feeder, thus ampere of motors does not fluctuate, hence increasing the working capacity of machine.

Operating principle of auto suction hammer mill

The materials to be ground into the crushing chamber of auto suction hammer mill from feed hopper by gravity or through an automatic rotary feeder the carbides 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 an air classifier. Particle size varied using screens with different size holes.

Standard accessories of auto suction hammer mill



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- 3 numbers motor pulley
- 2 number cotton balloon.
- Anti-vibrating foundation stand with adjustable rail for motor
- A set of perforated round holes screen are supplied with the machine

Screen Size

Application

1/64"

Fine dry powder like turmeric, sugar, bessen etc.

1/32" 60 degree staggered round holes

medium coarse powder like coriander

1/32" 45 degree staggered round holes

medium fine powder

1/16"

Powders like chili

1/8"

Grainier

3/8"

Hard materials like turmeric into granules (prior to fine grinding)

Extra accessories of auto suction hammer mill

- Suitable totally enclosed fan cooled three phases or single phase sq. Cage motor as per is: 325 or 996. {electricity (special power can be accommodated): 220/380/415 volts, 50/60 Hz, 3 phase}
- Suitable miniature circuit breaker as per is: 8828 with 3 meter cable & 3 pin top as per is: 1293 for single phase electric motors.
- Starters, main switch, ampere meter, capacitor for single phase electric motor.
- Foundation bolts
- V belts
- Magnetic hopper
- All contacting parts stainless steel 304 / 316 van be accommodated

Application of auto suction hammer mill

Hammer mills are exclusively meant for the grinding of turmeric, red chili, cumin, coriander, mango powder, sugar, wheat for ladu, salt, coffee, ayurvedic / homeopathic medicines herbs, roots, leaves, bark, dry fish, cattle and poultry feeds, food colors and so on so forth at large scale basis.

Construction of auto suction hammer mill

Rotary feeder is supplied with gear box. 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

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Developed and Managed by Jas Enterprises



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screen classifier forms the lower half of the grinding chamber. Blower is driven on a separate shaft with the help of a 'v' belts & separate motor.

Available model of auto suction hammer mill

Model no	Chamber size	Required motor for hammer mill	Required motor for blower	Required motor for rotary feeding hopper	Approximate production capacity per hour
Tw-as612	6 inch width x diameter 12 inch	3 H.P. (2.2 KW) 4 pole	2 H.P. (1.5 KW) 4 pole	1 H.P. (0.75 KW) 6 pole	175 kilogram
Tw-as713	7 inch width x diameter 13 inch	5 H.P.(3.7 KW) 4 pole	2 H.P. (1.5 KW) 4 pole	1 H.P. (0.75 KW) 6 pole	300 kilogram
Tw-as814	8 inch width x diameter 14 inch	5 H.P.(3.7 KW) 4 pole or 7.5 H.P. (5.6 KW) 4 pole	2 H.P. (1.5 KW) 4 pole	1 H.P. (0.75 KW) 6 pole	375 kilogram
Tw-as915	9 inch width x diameter 15 inch	7.5 H.P. (5.6 KW) 4 pole or 10 H.P. (7.5 KW) 4 pole	3 H.P. (2.2 KW) 4 pole	1.5 H.P. (1.125 KW) 6 pole	425 kilogram
Tw-as1016	10 inch width x diameter 16 inch	10 H.P. (7.5 KW) 4 pole or 12.5 H.P. (9.3 KW) 4 pole	3 H.P. (2.2 KW) 4 pole	2 H.P. (1.25 KW) 6 pole	500 kilogram
Tw-as1216	12 inch width x diameter 16 inch	12.5 H.P. (9.3 KW) 4 pole or 15 H.P. (11.25 KW) 4 pole	5 H.P.(3.7 KW) 4 pole	2 H.P. (1.25 KW) 6 pole or 3 H.P. (2.2 KW) 6 pole	700 kilogram
Tw-as1620	16 inch width x diameter 20 inch	20 H.P. (15 KW) 4 pole or 25 H.P.(18.5 KW) 4 pole	5 H.P.(3.7 KW) 4 pole	3 H.P. (2.2 KW) 6 pole	1000 kilogram
Tw-as1824	18 inch width x diameter 24 inch	25 H.P.(18.5 KW) 4 pole or 30 H.P.(22 KW) 4 pole	5 H.P.(3.7 KW) 4 pole	3 H.P. (2.2 KW) 6 pole	1300 kilogram
Tw-as2024	20 inch width x diameter 24 inch	30 H.P.(22 KW) 4 pole or 40 H.P. (30 KW) 4 pole	7.5 H.P. (5.6 KW) 4 pole	3 H.P. (2.2 KW) 6 pole	1800 kilogram
Tw-as2424	24 inch width x diameter 24 inch	40 H.P. (30 KW) 4 pole or 50 H.P. (37.5 KW) 4 pole	7.5 H.P. (5.6 KW) 4 pole	3 H.P. (2.2 KW) 6 pole	2000 kilogram



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Tw-as3024	30 inch width x diameter 24 inch	50 H.P. (37.5 KW) 4 pole or 60 H.P. (45 KW) 4 pole	10 H.P. (7.5 KW) 4 pole	5 H.P.(3.7 KW) 6 pole	2300 kilogram
Tw-as2836	28 inch width x diameter 36 inch	60 H.P. (45 KW) 4 pole or 70 H.P. (52.5 KW) 4 pole	10 H.P. (7.5 KW) 4 pole	5 H.P.(3.7 KW) 6 pole	3000 kilogram
Tw-as3040	30 inch width x diameter 40 inch	70 H.P. (52.5 KW) 4 pole or 80 H.P. (60 KW) 4 pole	10 H.P. (7.5 KW) 4 pole	5 H.P.(3.7 KW) 6 pole	3500 kilogram

Section view of auto suction hammer mill

