



IMPACT PULVERIZER

AUTO SUCTION HAMMER MILL

HAMMER MILL

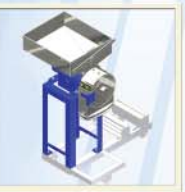
BOTTOM DISCHARGE HAMMER MILL

SPICE MILL

POUNDING MACHINE

FOUR HAMMER POUNDING MACHINE

DRY & WET PULVERIZER



WET PULVERIZER

MINI PULVERIZER

JACKETED MINI PULVERIZER

BLACK PEPPER DAL MAKING MACHINE

MULTI CAMBER PULVERIZER

MINI DAL MILL

EMERY SCOURER

DAL POLISHER



VIBRO SREEN

CENTRIFUGAL SIEVES / SIFTER

RIBBON BLENDER

SINGLE PADDLE MIXER 'U' TYPE

DOUGH KNEADER

SEMI AUTOMATIC CHAPATI MAKING M/C

RAW CHAPATI MAKING MACHINE

AUTOMATIC CHAPATI MAKING MACHINE



NOODLE MAKING MACHINE

NOODSLE STEAMING MACHINE

ECONOMIC STEAMER

IDLI DHOKLA MOMOS STEAMER

SHEVAYA MACHINE

VERMICELLI MAKING MACHINE

TRAY DRYER DRYING OVEN

VEGETABLE PEELER



POTATO CHIPS CRISPS MAKING MACHINE

HAND OPERATED POTATO CHIPS MAKING MACHINE

FRENCH FRY MAKING MACHINE

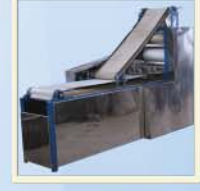
BANANA WAFER MACHINE

RECTANGULAR FRYER

CIRCULAR BATCH FRYER

CONTINUOUS FRYER

COATING PAN



MKEEN MAKING MACHINE

CENTRIFUGAL DRYER MACHINE

DOUGH KNEADER WITH EXTRUDER

PAPAD MAKING MACHINE

CONTINUOUS PAPAD DRYER

PANI PURI MAKING MACHINE

ECONOMIC MIXER GRINDER BLENDER

MIXER GRINDER BLENDER



STIRRER

MULTIPURPOSE VEGETABLE CUTTER

VEGETABLE SLICER, DICER, GREATER

GREEN CHILL ONION CHOPPER

DRY FRUIT TUKDA MACHINE

DRY FRUITS CHIPS MAKING MACHINE

DRY FRUITS CHIPS MAKING M/C WITH MOTOR

MULTIPURPOSE DRY FRU CHIPS & POWDER MACHIN



CENTRIFUGAL JUICER

MASTICATING JUICER

VEGETABLE & FRUIT PULPER

HOT BEVERAGE VENDING MACHINES

# Jas ENTERPRISES

AN ISO 9001:2008 CERTIFIED COMPANY

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# Jas Enterprises

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## AUTO SUCTION HAMMER MILLS



We offer customers automatic suction hammer mill that comes in capacity ranging from 5 HP to 50 HP. Available under the brand name "Techno Wings" these automatic Suction Hammer Mills maintain Due to continuity flow through automatic suction through motor. Further, the ampere of motor does not fluctuate, hence increasing the working capacity of hammer mill.

**Operating Principle of Auto suction Hammer Mill**  
Techno Wings auto suction hammer mill are durable utility grinders capable of grinding most dry, free-flowing materials. The Techno Wings auto suction hammer mill comprises of a heavy duty mild steel fabricated body (alternatively stainless steel construction can be provided in hammer mill wherever necessary). Hammer mills operate on the principle that most materials will grind or crush upon impact with the hammers or blades. The material

is feed into a hammer mill from the top through an automatic rotary feeder into the grinding chamber. The grinding chamber of hammer mill is lined with serrated wear plates, which protects the body from wear and tear. The material is contacted by a series of rotating, swing & dynamically balance blades / hammers. The material is ground by repeated contact with these hammers / blades, contact with the serrated wear plates of the grinding chamber, and particle to particle contact. The material remains in the grinding chamber until it is suitably sized to pass through the perforated screen that covers the bottom half of the grinding chamber. A powerful blower in hammer mill continuously sucks the ground material through a screen classifier and conveyed through the pipe into the cyclone for bagging. The blower maintains constant airflow in the Hammer Mill chamber in order to obtain a cool product and continuously cleans the screens, thus increasing the output. Particle size of the ground material can be varied over a large range by using sieves with the desired openings of hammer mill.

### Construction of Auto Suction Hammer Mill

Rotary feeder is supplied with gear box. The Techno Wings hammer mills comprises of a heavy duty Mild Steel fabricated body (alternatively stainless steel construction can be provided in hammer mill wherever necessary). The grinding chamber of hammer mill is lined with serrated wear plates, which protects the body from wear and tear. A dynamically balanced rotor in hammer mill with a set of swing hammers accelerates the grinding process. The screen classifier forms the lower half of the grinding chamber of hammer mill. The blower in hammer mill is driven on a separate shaft with the help of a 'v' belt adjustable driven from the rotor shaft.

### Auto suction Hammer Mill crush/grind/pulverize in various applications

The Techno wings Hammer Mills can be used for a wide range of application e.g. Animal & Poultry Feeds, Chemicals, Food Products, Herbs & Spices like read chilies, Black pepper , White pepper, Cinnamon, Cardamom, Coriander, Red pepper, Oregano, Basil, Thyme, dill seed, shell corn, Marine Feeds, Molding Powders, Dry Soap, Charcoal, Tea, Coffee, et cetera

### Outstanding Features of Auto suction Hammer Mill

- Less operating cost due to automatic feeding.
- Easy to change screens in a variety of sizes
- Four-way reversible hammers / blades
- Hinged door for easy access to hammer mill interior
- Cold & silent running
- Dust free operations
- Robust Construction
- Low Specific Power Consumption
- Durable Long Life
- Low Temperature Rise for Heat Sensitive Materials

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### Technical Specifications of Auto Feed Hammer Mill

Model No	Chamber Size	Required Motor For Hammer Mill 4 pole	Required Motor For blower 4 pole motor	Required Motor For Rotary feeding Hopper 6 pole motor	Approximate Production Capacity Per Hour for hand made tye spice
Tw-AS612	6 Inch Width X Ø 12 Inch	3 HP	2 HP	1 HP.	175 Kilogram
Tw-AS713	7 Inch Width X Ø 13 Inch	5 HP	2 HP	1 HP	250 Kilogram
Tw-AS814	8 Inch Width X Ø 14 Inch	5 HP or 7.5 HP	2 HP	1 HP	375 Kilogram
Tw-AS915	9 Inch Width X Ø 15 Inch	7.5 HP or 10 HP	3 HP	1.5 HP	425 Kilogram
Tw-AS1016	10 Inch Width X Ø 16 Inch	10 HP or 12.5 HP	3 HP	2 HP	500 Kilogram
Tw-AS1216	12 Inch Width X Ø 16 Inch	12.5 HP or 15 HP	5 HP	2 HP or 3 HP	700 Kilogram
Tw-AS1416	14 Inch Width X Ø 16 Inch	15 HP or 20 HP	5 HP	3 HP	850 Kilogram
Tw-AS1620	16 Inch Width X Ø 20 Inch	20 HP or 25 HP	5 HP	3 HP	1000 Kilogram
Tw-AS1824	18 Inch Width X Ø 24 Inch	25 HP or 30 HP	5 HP	3 HP	1300 Kilogram
Tw-AS2024	20 Inch Width X Ø 24 Inch	30 HP or 40 HP	7.5 HP	3 HP	1800 Kilogram
Tw-AS2424	24 Inch Width X Ø 24 Inch	40 HP or 50 HP	7.5 HP	3 HP	2000 Kilogram
Tw-AS3024	30 Inch Width X Ø 24 Inch	50 HP or 60 HP	10 HP	5 HP	2300 Kilogram
Tw-AS2836	28 Inch Width X Ø 36 Inch	60 HP or 70 HP	10 HP	5 HP	3000 Kilogram
Tw-AS3040	30 Inch Width X Ø 40 Inch	70 HP or 80 HP	10 HP	5 HP	3500 Kilogram

30% of net amount charged extra for auto suction hammer mill with air classifiers.

### Standard Accessories of Auto Feed Hammer Mill

- Motor Pulley
- Cotton balloon.
- Anti-vibrating foundation Stand with adjustable rail for motor
- 3 numbers of perforated round hole screens.

### Extra Accessories of Auto Feed Hammer Mill

- Suitable totally enclosed fan cooled three phase or Single Phase Sq. cage motor {Electricity (Special power can be accommodated): 110/220/380/415 Volts, 50/60 Hz, 1/3 Phase }
- Suitable miniature circuit breaker with 3 meter cable & 3 pin top 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

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## HAMMER MILLS



The Techno Wings Hammer Mill comprises of a heavy duty Mild Steel fabricated body (alternatively stainless steel construction can be provided in hammer mill wherever necessary). The grinding chamber of hammer mill is lined with serrated wear plates, which protects the body from wear and tear. A dynamically balanced rotor in hammer mill with a set of swing Hammers accelerates the grinding process. The screen classifier forms the lower half of the grinding chamber of hammer mill. The blower in Super type hammer mill is driven on a separate shaft with the help of a 'V' belt adjustable driven from the rotor shaft and the blower fan is mounted on same shaft of blower fan in economic type hammer mill.

The Techno Wings hammer mills are a versatile grinding unit of heavy and rugged construction and built for continuous operation day after day. The hammer mill is especially designed for the course, and medium fine size reduction.

### Operating Principle of Hammer Mill

The material to be crushed enters the hammer mill through gravity feed hopper having an adjustable slide to control the feed material. The material is crushed between the hammers and serrated liners. A powerful blower in hammer mill continuously sucks the ground material through a screen classifier and conveyed through the pipe into the cyclone for bagging. The blower maintains constant airflow in the hammer mill chamber in order to obtain a cool product and continuously cleans the screens, thus increasing the output. Particle size of the ground material can be varied over a large range by using sieves with the desired openings of hammer mill.

### Typical Application of Hammer Mill

The techno wings Hammer Mills can be used for a wide range of application e.g. Animal & Poultry Feeds, Chemicals, Food Products, Herbs & Spices like red chilies, Black pepper, White pepper, Cinnamon, Cardamom, Coriander, Red pepper, Oregano, Basil, Thyme, dill seed, shell corn, Marine Feeds, Molding Powders, Dry Soap, Charcoal, Tea, Coffee, et cetera

### Outstanding Features of Hammer Mill

- Easy to change screens in a variety of sizes
- Four-way reversible hammers / blades
- Hinged door for easy access to hammer mill interior
- Cold & silent running
- Dust free operations
- Robust Construction
- Low Specific Power Consumption
- Durable Long Life
- Low Temperature Rise for Heat Sensitive Materials

### Standard Accessories of Hammer Mill

- Motor Pulley
- 2 Number cotton balloon.
- Anti-vibrating foundation Stand with adjustable rail for motor
- 3 numbers of perforated round hole screens.

### Extra Accessories of Hammer Mill

- Suitable totally enclosed fan cooled single/three phase Squirrel cage motor {Electricity (Special power can be accommodated): 110/220/380/415 Volts, 50/60 Hz, 1/3 Phase }
- Starters, main switch, ampere meter, capacitor for three phase or Miniature Circuit Breaker, ampere meter, for single phase
- Foundation bolts
- Anti-vibrating mounts
- V Belts
- All contacting parts stainless steel 304 / 316 can be accommodated.

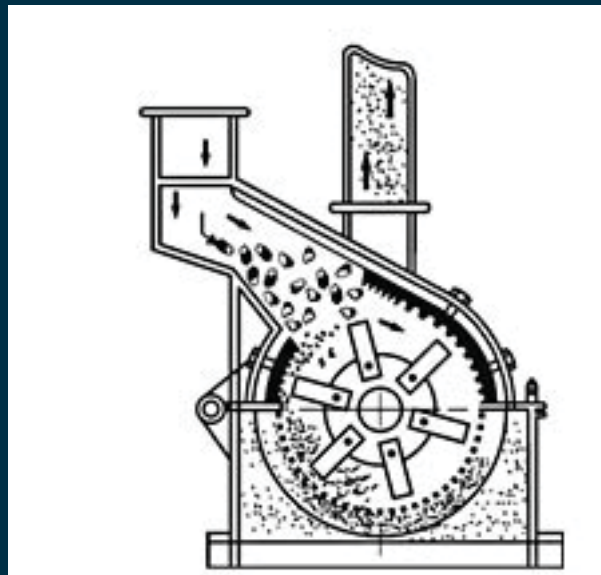
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## Technical Specifications of Hammer Mill

Model No	Chamber Size	Required Motor For Hammer Mill 4 pole	Type of hammer mills	Approximate Production Capacity Per Hour
Tw-HM-48E	4 Inch Width X Ø 8 Inch	2 HP	Economic	20-25 Kilogram
Tw-HM-510E	5 Inch Width X Ø 10 Inch	3 HP	Economic	30-35 Kilogram
Tw-HM-612S	6 Inch Width X Ø 12 Inch	7.5	Super	60-75 Kilogram
Tw-HM-612E	6 Inch Width X Ø 12 Inch	5 HP	Economic	50-60 Kilogram
Tw-HM-714S	14 Inch Width X Ø 7 Inch	10 HP.	Super	60-100 Kilogram
Tw-HM-714E	14 Inch Width X Ø 7 Inch	10 HP.	Economic	50-70 Kilogram
Tw-HM-1016S	10 Inch Width X Ø 16 Inch	20 HP.	Super	180-200 Kilogram
Tw-HM-1216S	12 Inch Width X Ø 16 Inch	20-25 HP	Super	200-250 Kilogram
Tw-HM-1416S	14 Inch Width X Ø 16 Inch	25-30 HP	Super	250-300 Kilogram
Tw-HM-1620S	16 Inch Width X Ø 20 Inch	30-40 HP	Super	350-400 Kilogram
Tw-HM-1814S	18 Inch Width X Ø 14 Inch	40-50 HP	Super	450-550 Kilogram
Tw-HM-2024S	20 Inch Width X Ø 24 Inch	50-60 HP	Super	550-600 Kilogram
Tw-HM-2424S	24 Inch Width X Ø 24 Inch	60-70 HP	Super	800-1000 Kilogram
Tw-HM-2430S	24 Inch Width X Ø 30 Inch	70-80 HP	Super	1000-1200 Kilogram
Tw-HM-2836	28 Inch Width X Ø 36 Inch	80-90 HP	Super	1200-1500 Kilogram
Tw-HM-3040	30 Inch Width X Ø 40 Inch	90-100 HP	Super	1500-1700 Kilogram

## Section View of Hammer mills



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## BOTTOM DISCHARGE HAMMER MILLS



Techno wings gravity discharge hammer mill are durable utility grinders capable of grinding most dry, free-flowing materials. The techno wings bottom discharge hammer mill comprises of a heavy duty mild steel fabricated body (alternatively stainless steel construction can be provided in hammer mill wherever necessary). Hammer mills operate on the principle that most materials will grind or crush upon impact with the hammers or blades. The material is feed into a hammer mill from the top and gravity falls into the grinding chamber. The grinding chamber of hammer mill is lined with serrated wear plates, which protects the body from wear and tear. The materials are contacted by a series of rotating, swing & dynamically balance blades / hammers. The material is ground by repeated contact with these hammers / blades, contact with the serrated wear plates of the grinding chamber, and particle to particle contact. The material remains in the

grinding chamber until it is suitably sized to pass through the perforated screen that covers the bottom half of the grinding chamber. Ground materials are discharge by gravity force.

### Operating Principle of Gravity 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 holes.

### Typical Application of Gravity Hammer Mill

Hammer Mills are exclusively meant for the grinding of sugar, bangle grams, maize, pulses, et cetera

### Outstanding Features of Gravity Hammer Mill

- Easy to change screens in a variety of sizes
- Four-way reversible hammers / blades
- Hinged door for easy access to hammer mill interior
- Cold & silent running
- Dust free operations
- Robust Construction
- Low Specific Power Consumption
- Durable Long Life
- Low Temperature Rise for Heat Sensitive Materials

### Standard Accessories of Gravity Hammer Mill

- Motor Pulley
- 1 Number cotton balloon.
- Anti-vibrating foundation Stand with adjustable rail for motor
- 3 numbers of perforated round hole screens.

### Extra Accessories of Gravity Hammer Mill

- Suitable totally enclosed fan cooled single/three phase Squirrel cage motor {Electricity (Special power can be accommodated): 110/220/380/415 Volts, 50/60 Hz, 1/3 Phase }
- Starters, main switch, ampere meter, capacitor for three phase or Miniature Circuit Breaker, ampere meter, for single phase
- Foundation bolts
- V Belts
- All Contacting Parts Stainless Steel 304 / 316 can be accommodated

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## Technical Specifications of Hammer Mill

Model No	Chamber Size	Required Motor For Hammer Mill 4 pole	Approximate Production Capacity Per Hour
Tw-HM-48BD	4 Inch Width X Ø 8 Inch	2 HP	20-25 Kilogram
Tw-HM-510BD	5 Inch Width X Ø 10 Inch	3 HP	30-35 Kilogram
Tw-HM-612BD	6 Inch Width X Ø 12 Inch	5 HP	50-60 Kilogram
Tw-HM-714BD	14 Inch Width X Ø 7 Inch	10 HP	50-70 Kilogram
Tw-HM-1016BD	10 Inch Width X Ø 16 Inch	20 HP	180-200 Kilogram
Tw-HM-1020BD	10 Inch Width X Ø 20 Inch	25 HP	225-250 Kilogram
Tw-HM-1224BD	12 Inch Width X Ø 24 Inch	40 HP	350-400 Kilogram
Tw-HM-1326BD	13 Inch Width X Ø 26 Inch	50 HP	750-800 Kilogram

## Section View of Hammer mills

