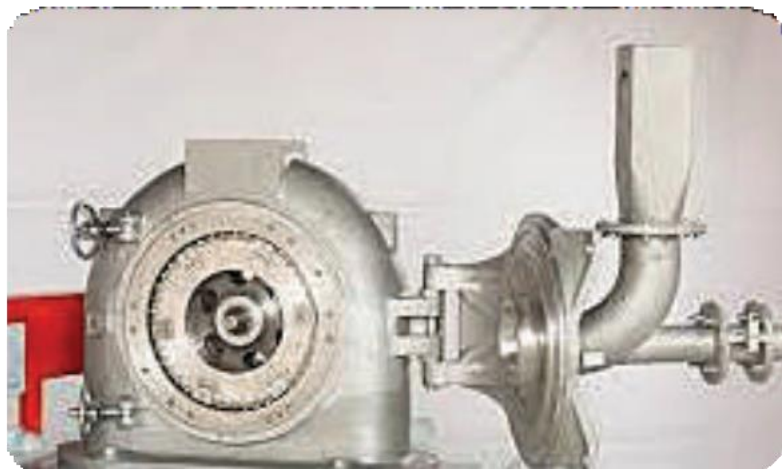
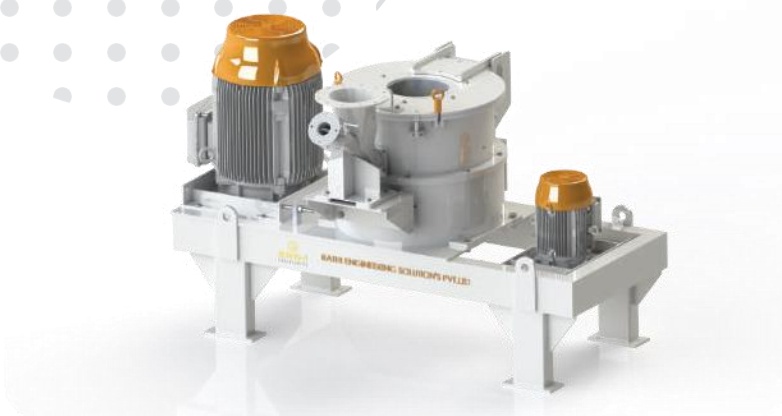


A LEADER IN GRINDING TECHNOLOGY



WHO WE ARE

An experience-driven young company, Rathi Engineering Solutions, designs and manufactures Size Reduction Systems and Powder Processing Solutions for the Food and Spices, Pharmaceutical, Pigment, Pesticide, Cosmetic, Plastic, and other Specialty Chemical Industries.

While our experience gains us the privilege of appreciating the many elements involved in the processing industry, we focus our efforts on providing the best value-oriented Grinding Solutions to our partners.

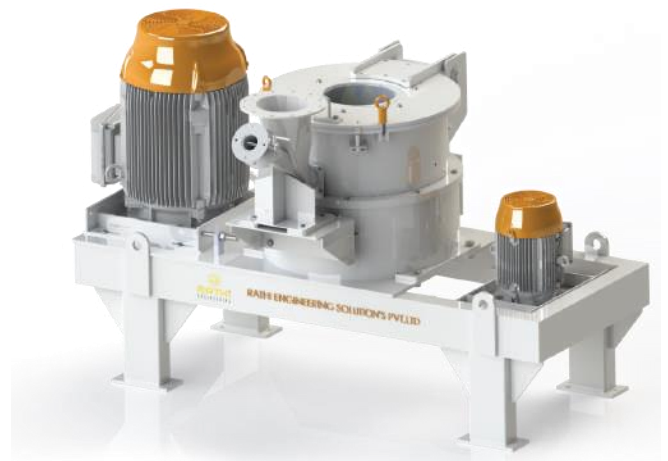
At Rathi Engineering Solutions, to strengthen our ability to deliver the optimal solution, we rely heavily on our experience and customer feedback. To continuously improve our product capabilities and ease of operations, we are constantly working with the leading powder processing technologies to assure reliability, durability, and optimal product performance throughout the lifespan of our machines.

Our expertise across process engineering, mechanical, piping, structural, instrumentation, electrical engineering, and project management facilitates us in providing flexibility while delivering unmatched, application-oriented, and customized end-to-end solutions.

Our specialized and experienced site crew, backed by a strong service network across India, ensures smooth site erection and management be it for site up-gradation, turnkey, or Greenfield projects.

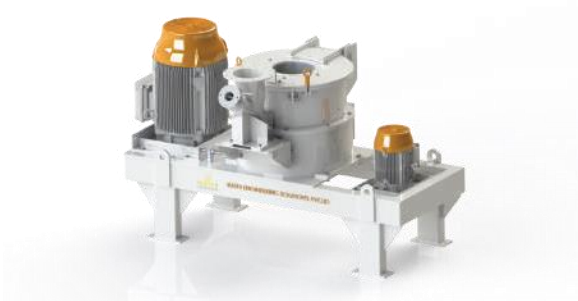
Our in-house R&D facility serves as a catalyst to cater to diverse applications across the industries.

Our pan-India, Sales and Service network with same day response guarantee, enables quick turn-around times. It enhances our ability to promptly provide services and spare parts, thereby ensuring minimum inconvenience to our clients. We orient ourselves toward long term relationships with our customers, offer troubleshooting assistance, maintenance assistance, maintenance contracts, and a 48-hour service guarantee.



RATHI AIR CLASSIFYING MILL AND IT'S COMPONENTS

RATHI AIR CLASSIFYING MILL



Rathi Air Classifying mill is one of the versatile mills that provide efficient grinding, classifying, and minimizes over-grinding of the material. This mill also provides maximum grinding flexibility with very sharp particle size distribution. Rathi Air Classifying mill casing is available in both construction cast and fabrication. In casing Hammers mounted rotor disc, it provides efficient grinding while the classifier wheel provides separate and minimal over-grinding of material.

Construction available for:

1. Explosive materials grinding and Explosion pressure up to 11 bars
2. Independent and coaxial drive
3. Closed-loop system with inert gas.

HAMMER

Hammer configurations are as shown below:

1. Bar Hammers - used for the fine product
2. Pin Hammers- used for coarser product
3. J Hammers- used for grinding fibrous product

CLASSIFIER WHEEL

Classifier wheel configurations are listed below:

1. Classifier wheel with straight blades-used for a coarse and fine product
2. Classifier wheel with inclined blades-used for a finer product

Different configurations of classifier wheel with numbers of blades are available as per product characteristic & fitness

LINER

Liner configurations are as listed below:

1. Multiple Deflector (MD) Liner- used for finer product generation
2. Smooth Liner-used for coarse product generation based on feed material abrasiveness. Different MOC of liners will be offered.

Rathi ACM Model	Main Motor HP	Classifier Motor HP	Rotor RPM Max.	Classifier RPM Max.	Achievable Fineness (MESH)
5ACM	5	1	9000	5400	3- 3000
10ACM	10	1.5	7000	4000	
15ACM	15	1.5	7000	4000	
30ACM	30	5	4600	2500	
30ACM ID	30	7.5	5000	3000	
40ACM	40	5	4600	2500	
40ACM ID	40	7.5	5000	3000	
60ACM	60	12.5	3000	2000	
60ACM ID	60	15	3500	3000	
75ACM	75	12.5	3000	2000	
75ACM ID	75	15	3500	3000	
100ACM	100	12.5	3000	2000	
100ACM ID	100	15	3500	3000	
120ACM	120	20	2000	1500	



RATHI UNIVERSAL MILL

Rathi Universal mill is a versatile mill which delivers maximum grinding flexibility for fine and ultrafine particle size reduction. This mill is used for soft, medium-hard materials with interchangeable grinding elements. Rathi Universal mill is used in the construction of the casing, with grinding elements fitted on rotor shaft mounted on casing body along with bearing housing assembly. Grinding elements are covered by sieve ring assembly with intermediate grinding jaw arrangement on peripheral.

RATHI UNIVERSAL MILL			
Sr No.	Model	Power Range(HP)	Achievable Fineness (MESH)
1.	BT- 130	1- 3	20- 400
2.	BT- 220	2- 10	
3.	BT- 450	20- 40	
4.	BT- 800	60- 100	

Configurations of grinding elements

1. Straight Bar Turbo Rotor - used for efficient grinding to a high degree of fineness.
2. Inclined Bar Turbo Rotor - used for highly efficient grinding than Straight Bar Turbo Rotor.
3. Pin Rotor - used for fine grinding of materials with high-fat content.
4. Stud Bar Rotor - used for coarser grinding as well as for materials containing hard or large particles.



RATHI HAMMER MILL

Rathi Hammer mill is a one-of-its-kind new and highly efficient grinding machine. This mill is mainly used for soft, medium-hard, fibrous, coarse granules, and irregular shaped materials. Rathi Hammer mill is rigidly fabricated under the construction of casing having wear resistance bits sandwiched between rotor discs mounted on rotor shaft which is supported by self-alignment bearings fitted in Plummer block.

- High grinding ratio
- Low investment cost
- Convenient maintenance

RATHI HAMMER MILL			
Sr No.	Model	Power Range(HP)	Achievable Fineness (MESH)
1.	HM- 12	5- 7.5	10-80
2.	HM- 24	10- 40	
3.	HM- 32	40- 75	
4.	HM- 36	60- 120	

GRINDING TECHNOLOGY RANGE

RATHI PULVERISER

Rathi Pulveriser is a robust long-life machine with stable performance. This mill is used for soft, medium-hard, coarse granules as well as irregular shaped materials e.g. sugar, pigment, carbon black, chalk, starch, spices, medicine powder, and capsules. Rathi Hammer mill is a robustly casted construction of main body and mill cover along with wear resistance bitsers sandwiched between rotor discs mounted on high-speed rotor shaft which is supported by heavy-duty bearings fitted in specially designed Plummer block.



RATHI PULVERISER			
Sr No.	Model	Power Range(HP)	Achievable Fineness (MESH)
1.	BANTAM MILL	1- 3	20- 200
2.	1SH,1W	3- 7.5	
3.	2DH,2W	10- 20	
4.	3TH,3W,3SCB	30- 50	
5.	4TH,4W,4SCB	50- 100	

- High production rate with low operation cost
- High Efficiency of grinding
- Longer lifespan of machines
- Stable performance



RATHI CRUSHER

Rathi Crusher is a robust crushing machine that delivers large lumps into smaller granules. This is used as the primary crusher for further milling operations and also used as granular in some applications. Rathi crusher is made up of replaceable S and Star type knife blades on two rotor shafts which are supported by rigid pillow block. The housing of crusher is available in both construction CI and fabricated MS.

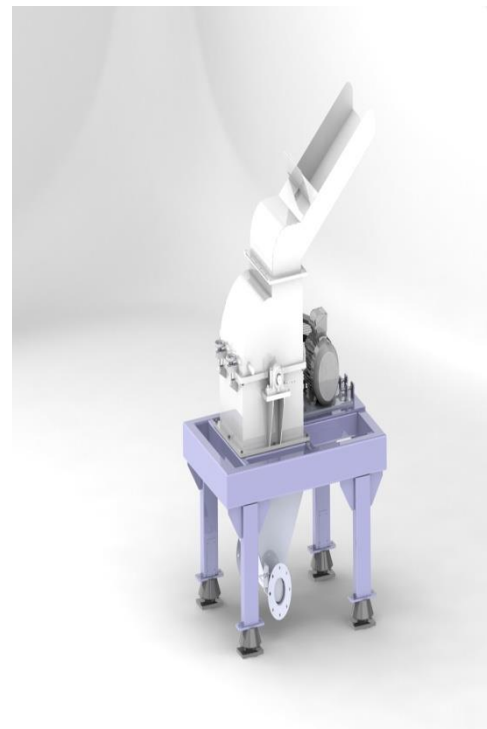
RATHI HEAVY DUTY CRUSHER			
Sr No.	Model	Power Range(HP)	Achievable Fineness (MM)
1.	Heavy Duty Crusher (HDC)	3- 5	5-20
2.	Extra Heavy Duty Crusher (2 HDC)	7.5- 10	
3.	Super Heavy Duty Crusher (SHDC)	10- 20	

RATHI AIR CLASSIFYING MILL PARTS

RATHI DL-CUTTER

Rathi DL-Cutter machine cuts the large cake into a smaller size. This machine is used for soft, medium-hard, fibrous, and tough materials. Rathi DL-Cutter is a fabricated construction of casing having one stationary blade inside and other rotating blades mounted on the high-speed rotor shaft. The rotor shaft is supported by two bearings fitted in the Plummer block.

RATHI DL-CUTTER			
Sr No.	Model	Power Range(HP)	Achievable Fineness (MM)
1.	DL 200	3- 5	5-25
2.	DL 500	7.5- 15	
3.	DL 750	20- 40	



RATHI MICRON SEPARATOR

Rathi Micron separator is a dynamic air classifier used for the separation of fine and coarse particles from the mixture with the help of the dynamic centrifugal force of the classifier wheel. Rathi Micron Separator is a fabricated construction of casing with an inbuilt dynamic the classifier wheel mounted on classifier shaft. The speed of the classifier wheel will be adjusted by variable frequency drive as per the desired requirement of particle separation.

RATHI MICRON SEPARATOR			
Sr No.	Model	Power Range(HP)	Achievable Fineness (MESH)
1.	MSS- 1	3.7	200- 5000
2.	MSS- 2	7.5	
3.	MSS- 3	15	
4.	MSS- 4	30	
5.	MSS- 5	60	

GRINDING TECHNOLOGY RANGE

RATHI AIR SWEPT MILL

Rathi Air Swept mill is mainly used for grinding soft to medium-hard, fibrous, and slightly moist materials. Rathi Air Swept Mill is a fabricated construction of the main body and mill cover along with wear resistance bitters sandwiched between rotor discs mounted on high-speed classifier shaft which is supported by heavy-duty bearings fitted in standard Plummer block.

RATHI		AIR	MILL
		SWEPT	
Sr No.	Model	Power Range(HP)	Achievable Fineness (Mm)
1.	ASM- 15	20- 30	40- 80
2.	ASM- 25	40- 60	
3.	ASM- 40	60- 75	



RATHI ROTARY AIRLOCK VALVE

Rathi Rotary Air Lock is used to discharge or feed (metering) operation. This model is used to maintain pressure and provide an optimal airlock seal condition between different products conveying transitions such as gravity to pneumatic conveying lines. An optimal airlock seal condition is essential to prevent air loss in high pressure and conveying systems. Rathi Airlock Valves construction is available in various material of construction such as CI/MS, Casted SS304, Casted SS316, WCB, and Alloy steel. Rathi Engineering offers customized Rotary Airlock Valve constructions as per process requirement.

RATHI ROTARY AIRLOCK VALVE				
Sr No.	Model	Power Range(Hp)	Standard design	Quick cleaning design
1.	RAL- 150	0.5	Yes	Yes
2.	RAL- 200	0.5	Yes	Yes
3.	RAL- 250	1	Yes	Yes
4.	RAL- 300	1.5	Yes	Yes
5.	RAL- 350	1.5	Yes	Yes
6.	RAL- 400	2	Yes	-
7.	RAL- 450	2	Yes	-
8.	RAL- 500	3	Yes	-
9.	RAL- 550	3	Yes	-
10.	RAL- 600	5	Yes	-
11.	RAL- 750	7.5	Yes	-
12.	RAL- 800	7.5	Yes	-
13.	RAL- 950	10	Yes	-
14.	RAL- 1000	10	Yes	-



GRINDING TECHNOLOGY RANGE

RATHI RIBBON BLENDER

Rathi Ribbon Blender provides uniform and homogeneous blends of coarse and fine particles in a short time. The configuration of the ribbons in the ribbon blender is carefully designed to provide a movement of material within the trough that avoids dead spots and gives rapid product discharge.



RATHI RIBBON BLENDER		
Sr No.	Model	Power Range(HP)
1.	U- 03	0.3
2.	U- 05	0.5
3.	U- 10	1.0
4.	U- 15	1.5
5.	U- 20	2.0
6.	U- 30	3.0
7.	U- 45	4.5
8.	U- 60	6.0
9.	U- 70	7.0
10.	U- 100	10.0

Rathi ribbon blender is a fabricated construction of U or O shaped trough having efficient ribbon shaft inside supported by heavy-duty bearing fitted in the standard Plummer block.

- **Leak proof and dustproof design**
- **Heavy-Duty construction**
- **Uniform product blends**
- **Dimpled or baffled jackets for heating or cooling**

RATHI ROASTER



Rathi Roaster is a Ribbon Blender with an oil-jacketed bath of a suitable thermic fluid with heaters immersed in it. The oil bath would get heated by the heaters and accordingly roast the material. This machine is commonly used for roasting, reduction of moisture contents, increasing the lifespan of food materials. Rathi Roaster construction is similar to Rathi Ribbon blender with an extra jacket for oil bath having an electrical heater. A small control panel is provided to run the roaster independently as a stand-alone machine.

RATHI ROASTER		
Sr No.	Model	Capacity (M3)
1.	U- 1.5	0.15
2.	U- 05	0.5
3.	U- 10	1.0
4.	U- 15	1.5
5.	U- 20	2.0
6.	U- 30	3.0

GRINDING TECHNOLOGY RANGE

RATHI TABLE FEEDER

Rathi Table Feeder prevents bridging in silos, hoppers & storage bins. This allows for a wide range of applications including powders, fibers, flakes, etc. V-shaped slow-rotating vane causes the radial flow of material and conveys material toward one or more discharge ports. Vanes are driven by adequate drive power calculated based on bulk density and material volume handled in silo/bin. Rathi Table Feeder is available in the fabrication construction of mild steel, SS304, SS316, etc

RATHI TABLE FEEDER		
Sr No.	Equipment	Power Range(HP)
1.	TF- 500	HP AS PER PRODUCT BULK DENSITY AND SILO VOLUME
2.	TF- 750	
3.	TF- 1000	
4.	TF- 1200	
5.	TF- 1500	



APPLICATIONS WE DELIVER

FOOD

Sugar
Pulses
Rice Protein
Tamarind Seeds
Food Colour
Soya Flakes
Soya Nuggets
Corn
Starch
Coffee Nuts
Yellow Peas

CHEMICAL

Pigments
Dyes
Colours
Aeronautic Specialty
Resins
Polymers
Zinc Stearate
Calcium Stearate
Zinc Oxide Pellets
Calcium Carbonate
Magnesium Oxide
Kaolin Phosphates
Paint Chips & Powder Coatings
Filter Press Cake
Ammonium Nitrate
Ammonium Perchlorate
Gum Crystal
Red Oxide
TbIs Pvc Stabilizers
Aluminium Hydrate
Ppt Silica
Dry Calcium Phosphate

PHARMACEUTICAL

Capsules
Cosmetic
Fillers
Paracetamol
Medicine Tablets

PESTICIDES

Wettable Pesticides
Acephate
Celdan 50 Sp
Mancozeb
Zinc Edta
Tricyclazole

MINERAL

Alumina
China Clays
Powders Of Marble
Limestone
Dolomite
Premixed Dry Mortars
Roof Tiles, Bricks.
Talcum Gypsum,
Barite
Bentonite
Talcum
Colemanite
Waste Bricks
Carbon Coke
Pet Coke
Activated Carbons
Charcoal
Graphite

SPICES

Chilly
Turmeric
Cumin
Coriander
Pepper
Mixed/blended Spices
Fenugreek
Ayurvedic Herbs, Roots And Flowers



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Sakal Nagar, Pune - 411007



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Bhosari, Pune 411026



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