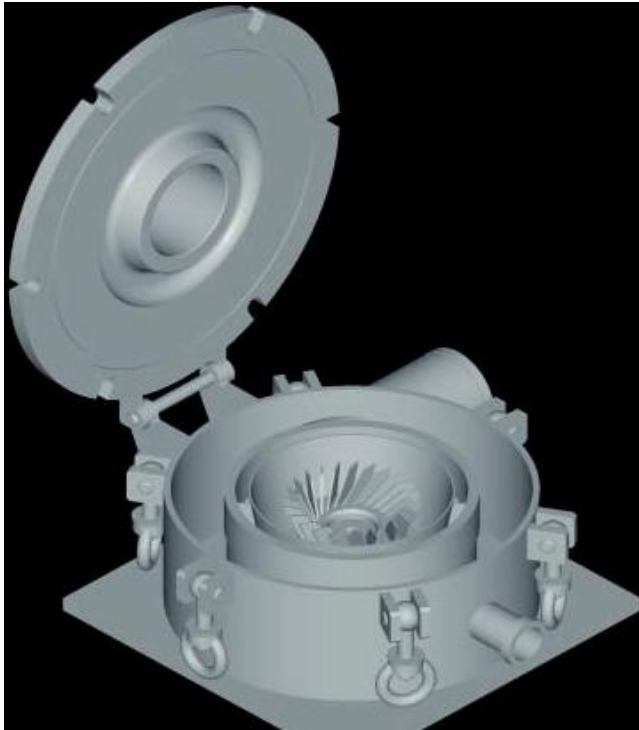


The AIR CLASSIFYING MILL ACM



Features

- Dust free operation.
- High collection efficiency.
- Easy and fast cleaning.
- Reliable and consistent output.
- Grinding and classifying in one machine with on line adjustment.
- Wide range of applications (powder coatings, toners, Pharma, food, Minerals, & many more size reduction applications).
- Economically priced.
- Output range from 5 kg/ hr. to 5000 kg./hr. (ACM-2 to ACM-200) (depending upon input & out requirements)
- Air feeding / Screw feeding / Fines feeding system for Production models, depending upon the product.
- ACM with Cyclone Classification to achieve the perfect rage of particle size can be possible.
- Special Purpose ACM can be developed depending upon the product requirements.

Operating Principle of AIR CLASSIFYING MILL

The Chips / flakes of material to be ground are conveyed from the hopper to the grinding chamber by means of variable feed screw. The grinding of material starts immediately when material enters in to the grinding chamber. (Because of high powered suction) The particle size of product / material is reduced to desirable size by grinding pins and liner. When the particles reach to its required size they will enter in to the air stream through baffle ring and classifier.

We can control the particle size by variable speed available both for feeding mechanism and classifier. Thus the oversized particles return into the grinding chamber for further reduction of particle size.



Approx Output data for the ACM Air Classifying Mill

Material	Feed Size	Output (Fineness)	Output (Kg/hr/hp)
Cane Sugar	Nominal 20 Mesh	98% < 325 Mesh	30
Talc	Nominal 80 Mesh	99% < 325 Mesh	18
Soya	Flake 1/4" - 0	98% < 80 Mesh	25
Hydrated Lime	Nominal 80 Mesh	97% < 25 Microns	10
Limestone (soft)	1/4" - 0	97% < 20 Microns	7
Milk Crumb	Nominal 20 Mesh	99% < 400 Mesh	10
Magnesium Oxide	Nominal 40 Mesh	99% < 325 Mesh	20
Cocoa Press Cake (10-12% butter fat)	65% <100 Mesh	99% < 200 Mesh	25
Phenolic Resin	1/2" - 0	97% < 200 Mesh	20
Zinc Sterate	1/8" Flakes	97% < 38 Microns	7
Xanthan Gum	Nominal 1/8"	97% < 44 Microns	8
Barium Sulfate	Nominal 60µ	97% < 14 Microns	8
Carbon Black	900 PPM > 44µ	10-25 PPM > 44 Microns	20

Note: The results shown here are for reference purpose only. Sample Testing must be carried out on our demo machine to establish throughput for the desired output fineness.

ACM-10 GNP Model (Curtesy by M/s. MB Sugars & Pharma Ltd. Nashik, India)



Technical Specification of ACM-Grinders

Model No. (ACM-...)	2-Lab	3	5	10	15	20	30	40	50	60	75	100
Main Motor Power (HP)	3	5	7.5	10	15	20	30	40	50	60	75	100
Classifier (HP)	1	1.5	1.5	2	3	3	7.5	7.5	7.5	10	15	15
Suction Blower (HP)	2	5	10	15	20	25	40	50	60	75	100	125
Rotor Speed (Max RPM)	20,500	10,600	8750	6,000	6,000	5,000	4,250	4,250	3,200	2,700	2,700	2,000
Classifier Speed RPM (Max)	10,000	5,400	4,200	3,600	3,000	3,000	2,700	2,700	2,700	2,700	2,200	2,200
Mill Inlet Airflow M3/Hr	100	300	500	1000	1,350	1,800	2,700	3,600	4,500	5,400	6,500	9,000
Multiplying Factor for output	0	0.15	0.5	1	1.25	1.75	2.5	3.5	4.5	5.5	6.5	8

Also bigger & Higher capacity machines are available like ACM-125, ACM-150, ACM-200. ACM with Cyclone Classification for products like toner, pharma, sugar, metal powders, etc. is also provided by special ACM machines in all sizes.

Please ask for Layout for the model no of your choice.

For further information please contact us :

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