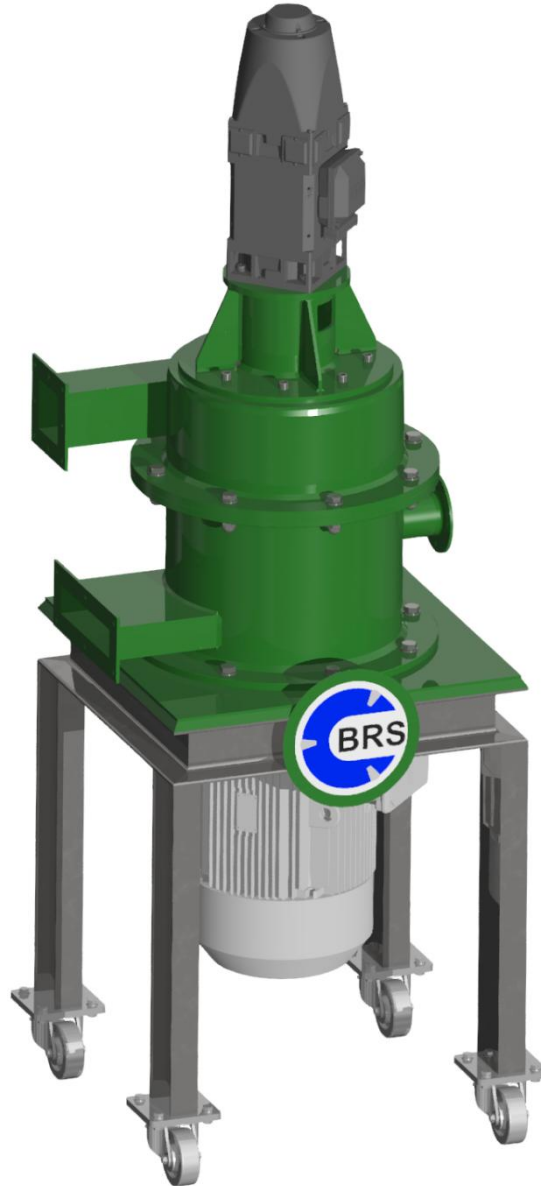




BRS ENGINEERING BRM-V CLASSIFIER MILL



BRM-V Classifier Mill

The BRM-V Classifier mill is an innovative, compact system that integrates a horizontal grinding unit and vertical classifier in a one single machine.

Capable of processing materials with an input particle size of up to 15 mm, it delivers a fine and consistent output ranging from 30 to 150 μm . The system is ideally suited for a wide range of products with soft materials. When equipped with appropriately wear-resistant components, it can also handle materials with hard and abrasive material.

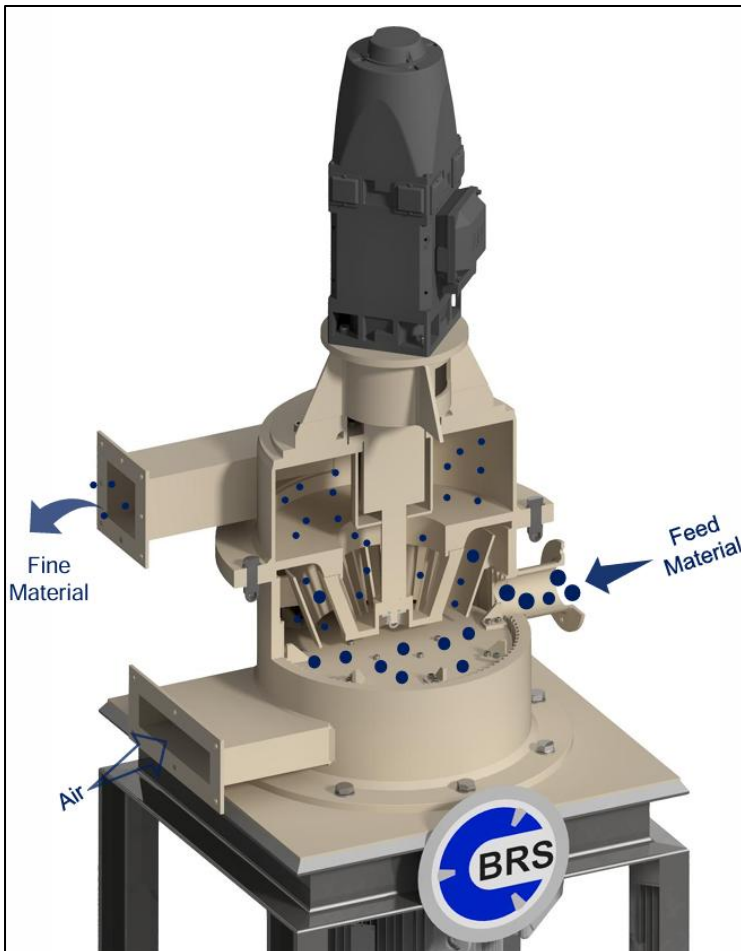
Designed for convenience and efficiency, the machine features a pneumatic mechanism that allows the grinding and classification chamber to be opened easily, ensuring quick access for inspection, cleaning, and maintenance.

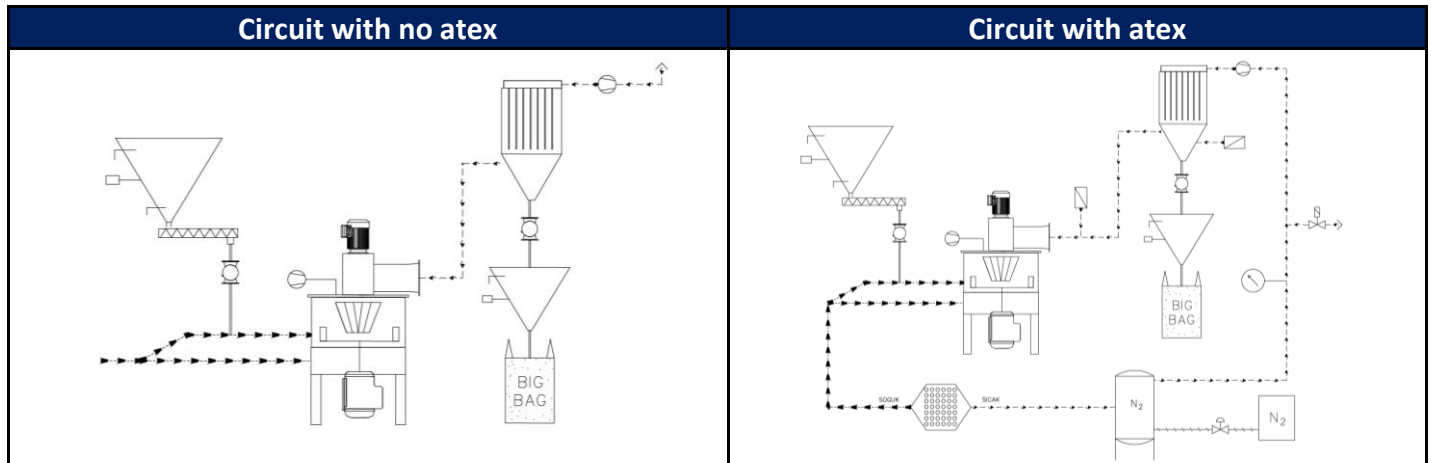
Features

- Energy efficiency
- Compact system, occupy less area
- Easy maintenance
- Easy accessible and cleaning
- Industrial, pilot and laboratory sizes are available
- Protection against wear with steel, stainless, PU or ceramic materials (Al_2O_3)

Working Principle

The feed material is introduced into the machine via a side-mounted feeding system or, alternatively, through an air suction, depending on the configuration. It enters the grinding chamber through feeding inlet, where it is immediately impacted by high-speed rotating grinding disc mounted on different type grinder (pins, half bar etc.). These grinders, working in conjunction with a toothed grinding track, reduce the material through a combination of impact, friction, and shearing forces. The ground particles are then transported by airflow into the integrated classifier. Here, a frequency-controlled classifier wheel separates fine particles from coarse ones based on the desired fineness. Only the particles that meet the required size—determined by the classifier wheel speed—are discharged via the fine's outlet. Oversized particles are rejected by the classifier and returned to the grinding chamber for further milling until the target fineness is achieved. Air is introduced through a lateral inlet, playing a triple role: cooling the system, transporting the particles, and aiding in classification.





BRM-H Application Area			
Minerals	Food	Chemicals	Others
<ul style="list-style-type: none"> - Calcium carbonate - Diatomite - Graphite - Kaolin - Silica - Gypsum - Perlite - Talc - Wollastonite - Mica 	<ul style="list-style-type: none"> - Colour malt - Gelatine - Oat hulls - Lactose - Lupines - Corn - Palm fibre - Rice - Soy - Wheat germs 	<ul style="list-style-type: none"> - Aluminium hydroxide - Lead oxide - Calcium phosphate - Iron oxide - Sodium polyphosphate - Novolak - PE wax - Zinc oxide - Cobalt oxide - Pigments 	<ul style="list-style-type: none"> - Toners - Coating mat. - Paints - Dentals - Pharma - Cosmetics

BRM-V	Type	BRM-V 15	BRM-V 20	BRM-V 30	BRM-V 50	BRM-V 75
Rotor Drive	kW	11	15	22	37	55
Speed	rpm	8750	6900	5750	4500	3750
Air flow rate	m ³ /h	1300	1750	2750	4600	6750
Grinding disc	mm	275	350	420	530	630
Classifier Power	kW	3	4	5,5	7,5	11
Fineness	d95 mic.	15-100	15-120	15-120	15-130	15-150
Capacity d95 mic.						
15 mic.	Kg/h	20	25	40	65	100
45 mic.	Kg/h	70	90	135	220	350
100 mic.	Kg/h	150	200	300	500	750

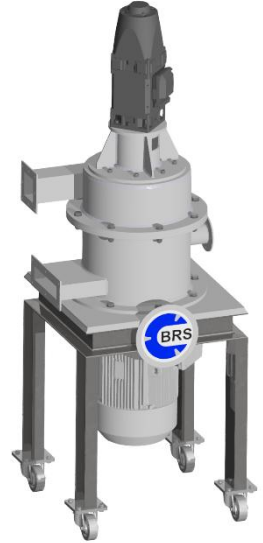
*Values are given for information. May vary depending on feeding products and materials.



Fluidized Bed Jet Mill



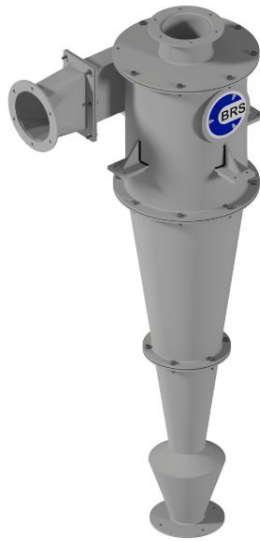
BRM-H Classifier Mill



BRM-V Classifier Mill



BVS Classifier



Cyclones



Feeding Unit

