

BRS ENGINEERING BRM-V CLASSIFIER MILL







BRM-V Classifier Mill

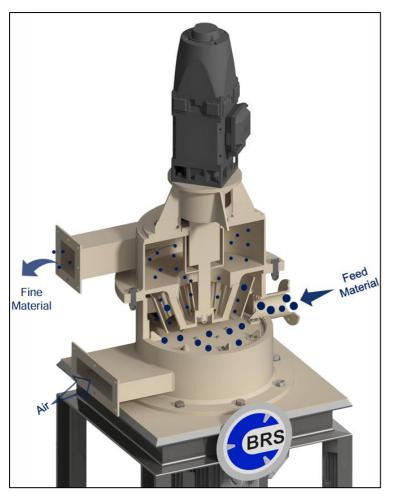
The BRM-V Classifier mill is an innovative, compact system that integrates a horizontal grinding unit and vertical classifier in a one single machine.

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 μ m. 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

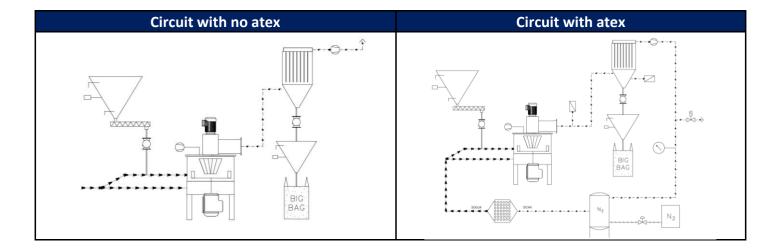
- Energy efficiency
- Compact system, occupy less area
- Easy maintenance
- Easey accessible and cleaning
- Industrial, pilot and laboratory sizes are available
- Protection against wear with steel, stainless, PU or ceramic materials (Al₂O₃)



Working Principle

The feed material is introduced into the machine side-mounted via feeding system 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				
- Calcium carbonate	- Colour malt	- Aluminium hydroxide	- Toners				
- Diatomite	- Gelatine	- Lead oxide	- Coating mat.				
- Graphite	- Oat hulls	- Calcium phosphate	- Paints				
- Kaolin	- Lactose	- Iron oxide	- Dentals				
- Silica	- Lupines	- Sodium polyphosphate	- Pharma				
- Gypsum	- Corn	- Novolak	- Cosmetics				
- Perlite	- Palm fibre	- PE wax					
- Talc	- Rice	- Zinc oxide					
- Wollastonite	- Soy	- Cobalt oxide					
- Mica	- Wheat germs	- Pigments					

BRM-V	Туре	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	m³/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.

















BRS ENGINEERING MÜHENDSİLİK MAKİNE SAN. LTD. ŞTİ.

İstasyon Mah. Yarış Çıkmazı Sk. No:252, İstim Sitesi Tuzla, İstanbul /TÜRKİYE

info@brs-eng.com.tr

www.brs-eng.com.tr