



BRS ENGINEERING BVM AIR CLASSIFIER



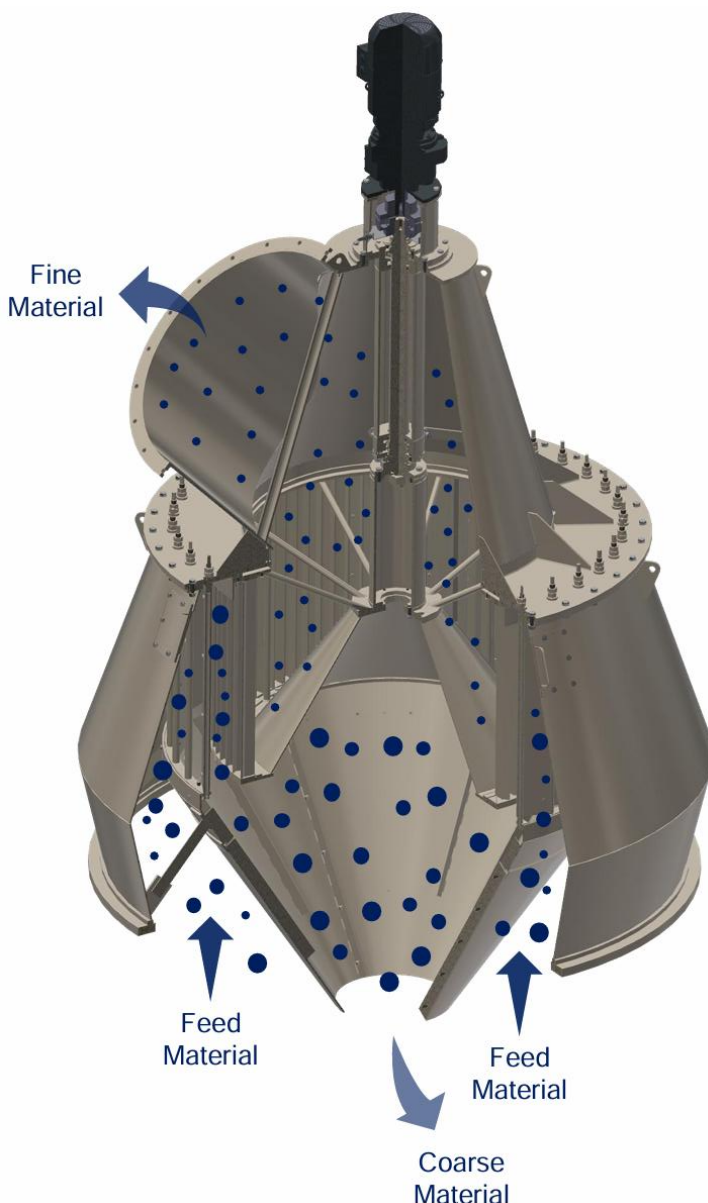
BVM Air Classifier

BVM Vertical mill separators are essential components in modern grinding systems, especially in cement and mineral processing industries. They are used to separate fine and coarse particles from the ground material, ensuring optimal product quality and energy efficiency in vertical roller mill or with ball mill arrangement.

Features

- Controlled grain size obtaining d97 20-200 mic.
- High efficiency due to vertical arrangement of rotor, high top cut sharpness
- Occupy less area. Environmentally friendly with its closed system, dust-free and low noise level
- Ease of commissioning and operation
- Protection against wear with steel, stainless, PU or ceramic materials (Al_2O_3)
- Pressure less or pressure-shock proof to 8 bar.

Classifier Rotor



Working Principle

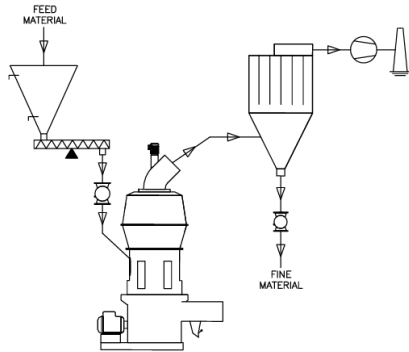
The classifier works based on centrifugal force, airflow, and gravity. Ground material (fine and coarse) is lifted by the airflow generated by main fan. Inside the classifier, a rotating cage or blades create a controlled centrifugal force. Fine particles are light and are carried upward by the airflow. Adjustable rotor speed allows for finer or coarser products as needed. Coarse particles are heavier and cannot overcome the centrifugal force, so they fall back to the grinding table for further processing. The correctly sized fine particles pass through the classifier blades and exit the mill, usually to a cyclone or bag filter for final collection.

More efficient and widely used in modern VRMs.

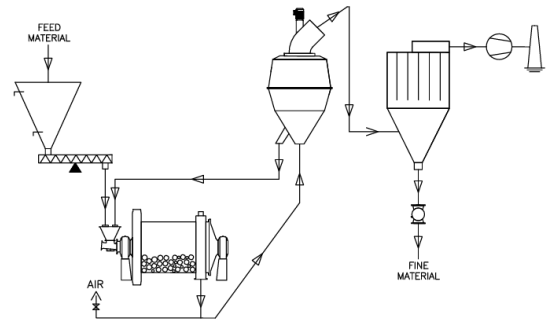
– Higher rotor speed results in finer particles, lower speed allows coarser material.

– Increased airflow results in coarser particles, lower airflow allows finer material.

With Vertical Roller Mill



With Ball Mill



Graphite



Glass



Talc



Toner



Pharma

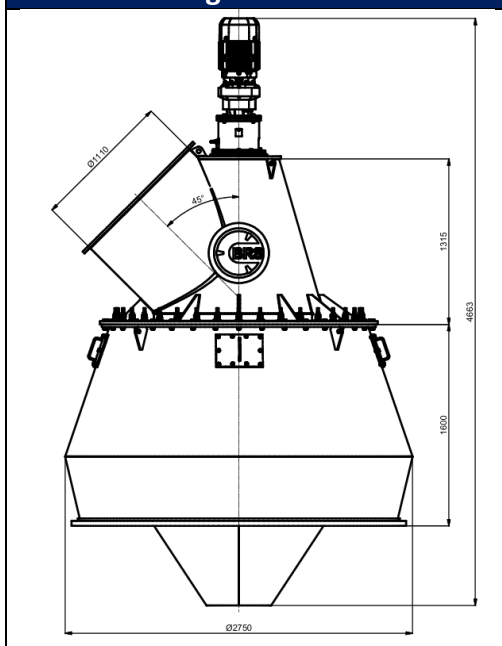


Mic

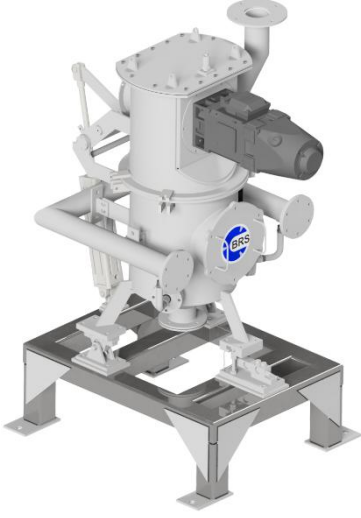
BVM	Type	BVM500	BVM1000	BVM1250	BVM1600	BVM2000	BVM2500
Drive	kW	5,5	11	15	22	30	45
Speed	rpm	600	290	225	180	145	110
Air flow rate	m ³ /h	12.000	25.000	40.000	60.000	10.0000	200.000
Fineness	d97 mic.	20-200	25-200	30-200	35-200	40-200	40-200
Capacity	d97 mic.						
45 mic.	t/h	2	4	8	16	32	60
150 mic.	t/h	4	7,5	15	30	60	120

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

Drawings of BVM1600



The layout drawing is given for the BVM1600 model.



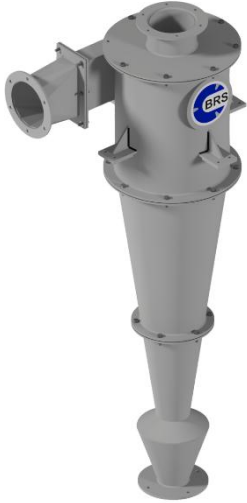
Fluidized Bed Jet Mill



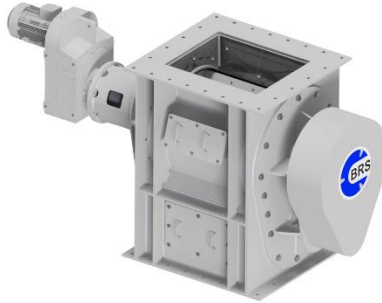
BVS Classifier



BVM Classifier



Cyclone



Self-Cleaning Rotary Valve



Feeding Unit

