BRS ENGINEERING
FLUIDIZED BED JET MILLS

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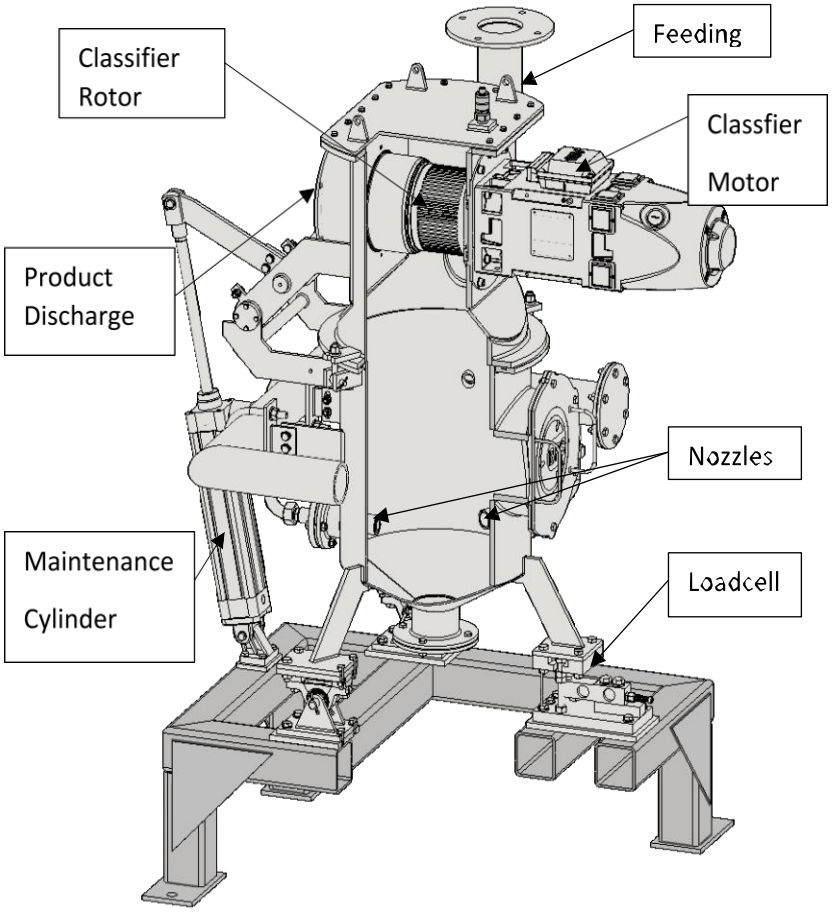
Jet Mills

Jet mill technology is a widely used grinding method, especially in applications where very fine particles of hard materials with high purity must be obtained.

Features

- Controlled grain size obtaining d50 1-30 mic.
- Environmentally friendly with its closed system, dust-free and low noise level
- Ease of commissioning and operation thanks to automation
- High and low pressure operation
- Grinding and separation are done simultaneously thanks to its compact structure.
- Occupy less area
- Protection against wear with steel, stainless and ceramic materials
- Suitable for hard and abrasive materials
- Possibility of grinding without heat



Working Principle

After the high-pressure air or gases (nitrogen or steam) compressed in the compressor are filtered and dried, they are sprayed into the grinding mill chamber with the nozzles in the jet mill. Grinding occurs when the air flow intersects with multiple nozzles and the materials collide with each other. The ground materials are carried to the separator by the suction of the fan. The coarse and fine materials are separated by the strong centrifugal force created by the separator rotating at high speed. The desired grain size is obtained precisely depending on the rotation speed of the separator. Fine grained products are separated with the help of a cyclone and filter and used as a product. Coarse grains cannot pass through the separator and go to the grinding area to be ground again. In this way, a product with a constant capacity is obtained depending on the mill size.

Jet Mills Applications				
Special Grinding	Industrial Minerals	Hard Materials	Contamination-free Grinding	Others
- Toner - Coating materials - Wax - Painting - Tungsten carbide	- Mica - Talc - Ceramic pigments - Perlite - Limestone	- Ceramic - Quartz - Glass - Boron carbide	- Dental ceramics - Silica jells - Pharmacy - Cosmetics - Food	- Feldspar - Rare elements - PTFE - Graphite


Graphite


Glass


Talc

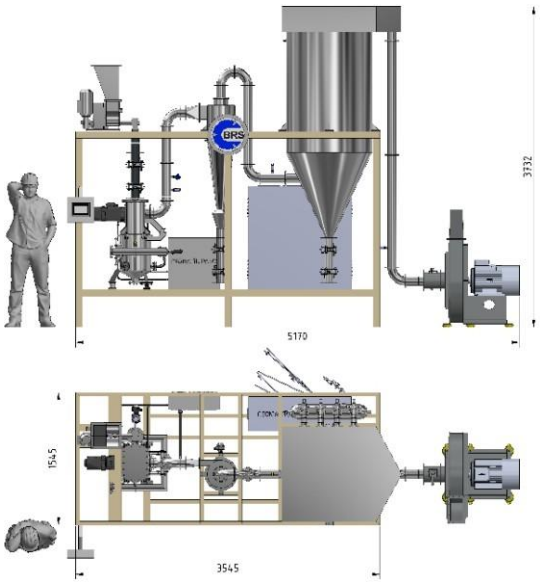

Toner

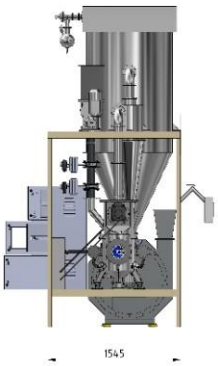

Pharma

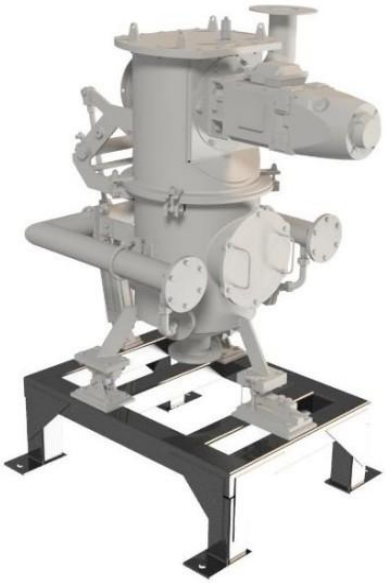

Mic

Type	JD	JD160	JD200	JD350	JD500	JD800	JD1000	JD1500
Air cons. at 6 bar	m3/h	50	80	350	800	1800	32000	5500
Nozzles	Qty	3	3	3	3	3	3-4	4
Mill Dia.	Mm	160	200	350	500	800	1000	1500
Classifier power	kW	0,55	1,5	2,2	5,5	15	18,5	30
Classifier speed	rpm	15000	10000	8000	5000	3600	2500	2000
Fineness	d97 mic.	4-60	5-60	5-60	6-70	6-100	7-120	7-150

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







The layout drawing is given for the JD350 model.
Costumer's samples can be performed and tested in BRS jet mill test unit.

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