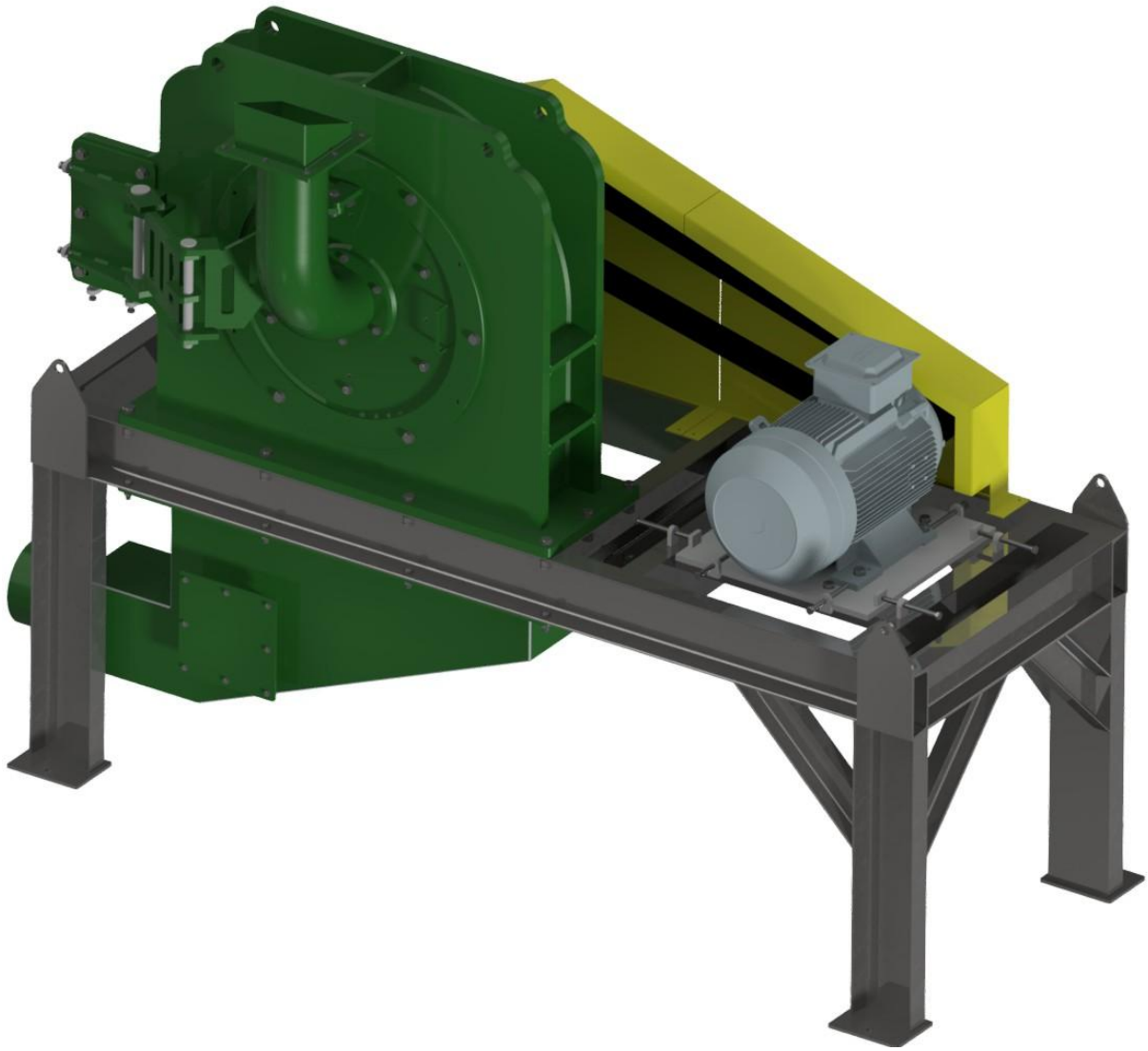




BRS ENGINEERING BPM PIN MILLS



Pin Mills

A **pin mill** is a type of grinding mill used to reduce the particle size of a wide range of materials through impact and shearing. It consists of two discs one stationary and one rotating or both discs rotating. As the material is fed into the mill, it is impacted by the high-speed rotating pins, which cause it to break down into fine particles.

Pin mills are commonly used for grinding dry, brittle, and semi-hard materials in the food, pharmaceutical, chemical, and mineral industries. They offer precise particle size control, low heat generation, and high throughput capacity.

Features

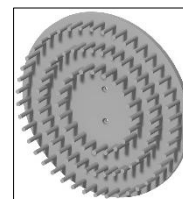
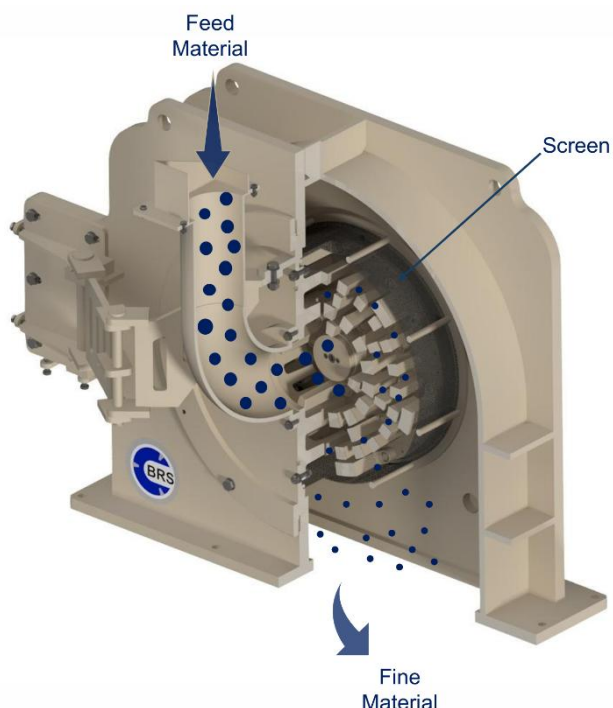
- High efficiency due to high-speed design
- Different rotor design for different applications
- Ease of commissioning and operation
- High- and low-pressure operation
- Minimal heat generation
- Occupy less area
- Suitable for cryogenics material with low temp.



Working Principle

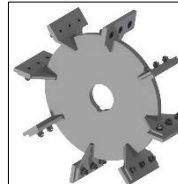
A pin mill operates by using two discs fitted with pins – one stationary and one rotating at high speed – to grind materials through intense impact and shearing forces. The product is fed into the center of the mill, where the rotating disc accelerates the material outward toward the pin zones.

As the material passes through the intermeshing pins, it is broken down into finer particles due to repeated collisions and shear actions. The finely ground product is then discharged through a screen or outlet, depending on the system design.



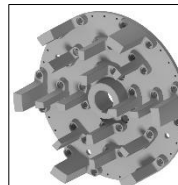
Bar Pin Discs

- Steel-alloy pins
- Small feed size
- High fineness



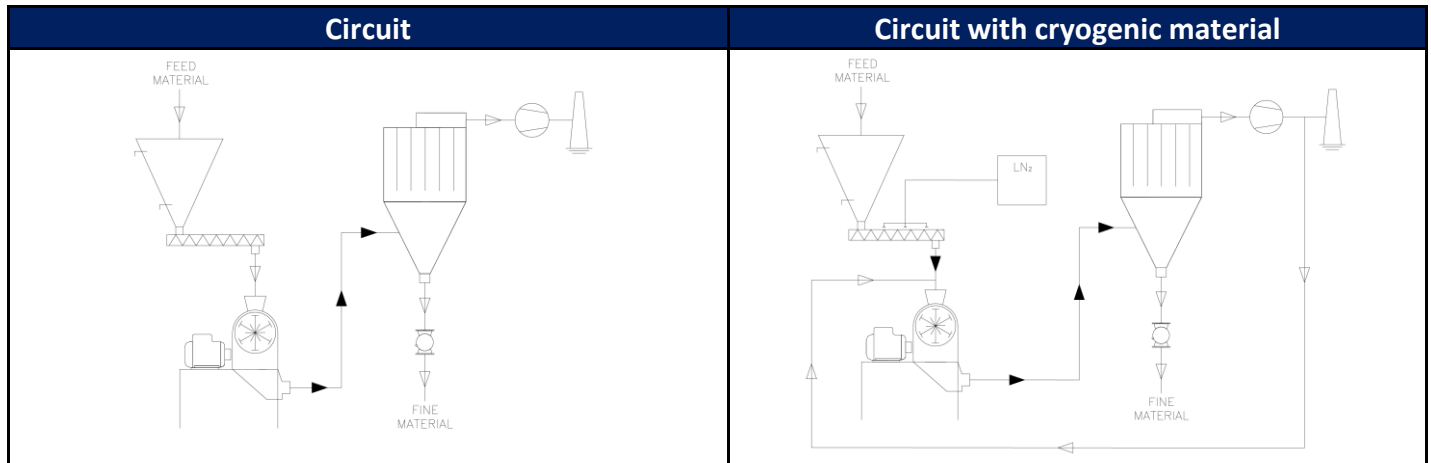
Wings Beater

- Wear resistance wings
- Medium feed size
- Medium fineness



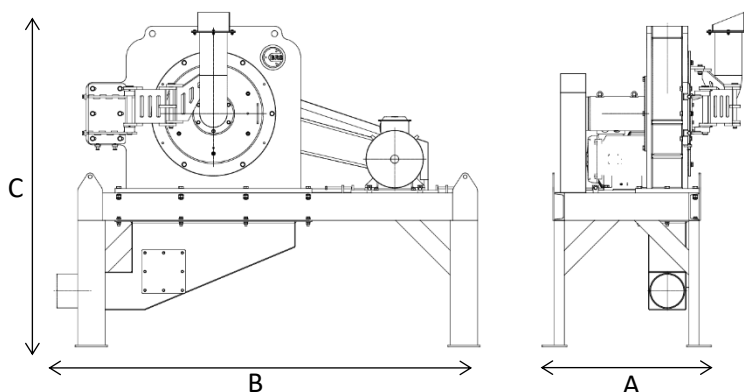
Rectangular Pin Discs

- Low-wear cast steel
- Bigger feed size
- Course fineness



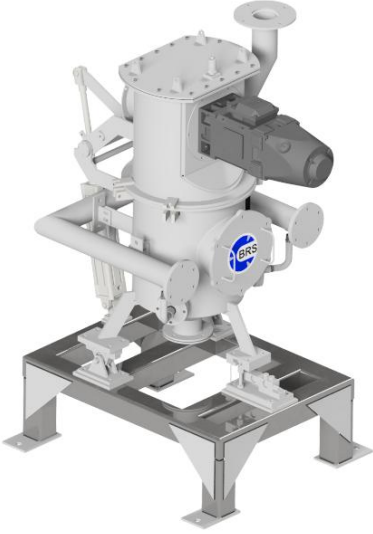
Type	BPM	300	500	700	900	1200
Disc Dia.	mm	300	450	700	900	1200
Air flow rate	m ³ /h	1500	3500	6000	9000	12000
Bar pin Discs						
Speed	rpm	9000	5250	3750	3250	2250
Motor power	kW	22	45	90	132	250
Bar pin discs, double drive						
Speed	rpm	6000	3000	2250	1500	1250
Motor power	kW	22x2	45x2	90x2	132x2	250x2
Rectangular pin discs						
Speed	rpm	5000	3100	2000	1400	1300
Motor power	kW	18,5	37	55	110	200
Wings beater						
Speed	rpm	4500	3000	2250	1500	1000
Motor power	kW	11	22	45	75	132
Size and weight						
Length (A)	mm	1750	2300	3000	3500	4000
Width (B)	mm	750	900	1100	1500	1750
Height (C)	mm	1750	2100	2500	2750	3000
Weight	kg	900	2250	3250	6200	9000

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



The layout drawing is given for the PM700 model.





Fluidized Bed Jet Mill



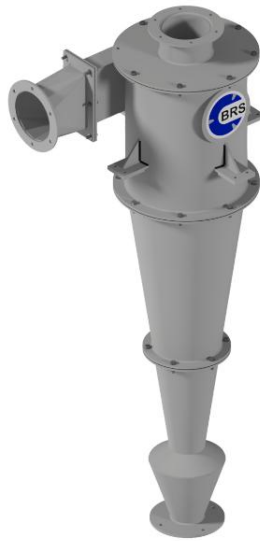
BRM-H Classifier Mill



BVM Classifier



BVS Classifier



Cyclones



Pin Mill



BRS ENGINEERING

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