

Spiral Jet Mill Type SJ



Application:

Fine grinding of structured minerals while obtain the particle structure, especially suitable for:

- ▶ Talc
- ▶ Mica
- ▶ Graphite
- ▶ Barite
- ▶ Zeolite
- ▶ Kaolin

Performance:

- ▶ Fines Capacity 50 to 4.000 kg/h
- ▶ Fineness d_{97} = 3 μ to 60 μ

Features:

- ▶ Up to 30 % less specific energy consumption compared to common jet mill system
- ▶ Increase of the grinding efficiency due to the closed grinding and classifying circle with adjustable and constant load in the grinding zone
- ▶ Grinding medium is either high pressure air (3,5 to 15 bar) or overheated steam (up to 24 bar and 400 °C)
- ▶ Hot air operation for special minerals possible
- ▶ Easy adjustment of fineness with regulation of rpm at the rotor with an excellent top size reduction of the final product
- ▶ Optional mineral components that are heavy to grind can be extracted from the grinding zone

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The milling chamber is designed bigger than with common spiral jet mills. The reason for the enlarged milling chamber is to feed as much grinding product as possible into the grinding zone. The material bed is fluidised by compressed air, entering through nozzles what creates a "fluid bed effect" so far unknown for such type of mills. This results in accepting and accelerating as many particles as possible in the air jets.

Different than with common jet mills a classifier rotor is placed in the centre of the milling chamber. The rotor unit is connected directly to the drive motor and the selection of construction material allows extreme high speed of the rotor. Due to the intensive reject effect of the rotor for coarse particles a very high product concentration in the grinding chamber is possible.

To achieve optimum grinding conditions, independent from the fineness, a control of the feed rate in regard to the current of the classifier drive as indication for the load in the milling chamber is realised.

Technical Data:

Single Jet Mill Systems			
Jet Mill Typ	SJ15-CR/ER100	SJ50-ER100	SJ50-CR65e
Fineness d_{90} [μm]	3 - 45	3 - 45	7 - 60
Air Volume [m^3/h]	800 - 1200	2400 - 3600	2400 - 3600
Classifier Type	2/260	5/260	5/260
Capacity approx. [kg/h]	50 - 1000	200 - 4000	400 - 4000

Twin Jet Mill Systems		
Jet Mill Type	SJ100-ER100	SJ100-CR65
Fineness d_{90} [μm]	3 - 45	7 - 60
Air Volume [m^3/h]	4500 - 7500	4500 - 7500
Classifier Type	2 x 5/260	2 x 5/260
Capacity approx. [kg/h]	400 - 8000	800 - 8000

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