

Pamir

High Efficient Ultrafine Mill

Pamir

Compared to conventional Ball Mills, with the PAMIR it is possible to obtain extremely fine products combined with very high throughput capacities at low specific energy consumption levels thanks to its operating mode and stress characteristics. Used together with NETZSCH ECUTECH Classifiers in a grinding-/classifying circuit, mineral fillers with a particle size of less than 2 μm can be produced.

The PAMIR is continuously fed via a rotary airlock valve. A shaft equipped with exchangeable agitator tools is mounted inside the horizontally installed grinding vessel. The grinding media which are evenly distributed in the grinding vessel are kept in constant motion by the agitator tools and the resulting shearing /pressure- and impact stress ensures a very fine grinding result with a relatively low fines fraction. The product discharges the mill either by gravity into a conveying system or will be transported by the classifying air to a separator.

The PAMIR can be operated on its own in single passage or alternatively with a NETZSCH ECUTECH Classifier. This combination puts the strengths of the PAMIR to good use. The material coming from the PAMIR, which is high in fines and low in coarse followed by an inline classifier with high cutting precision ensure highest finenesses at low energy consumption.

The air classifier removes the fine product from the grinding circuit and the coarse coarse product returns back to the mill together with the fresh feed. Thanks to the optimized operation mode a low circulation load helps to obtain a specific and adjustable particle size distribution. NETZSCH ECUTECH can deliver the Bead Mill as an individual machine or as a complete turnkey plant.

Applications

The main application field of the Pamir dry agitator bead mill in the mineral and ceramic are:

- Aluminium oxide
- Baryte
- Bauxite
- Bentonite
- Calcite
- Calcium carbonate
- Calcium hydrate
- Cement
- Ceramic material
- Ceramic pigments*
- Clay
- Clinker
- Dolomite
- Feldspar
- Fly Ash
- Mineral fillers
- Perlite
- Pumice powder
- Quartz sand
- Talc
- Wollastonite
- Zeolite

*from natural source



Finenesses of $d_{98} = 2\mu\text{m}$ to $70\mu\text{m}$ are possible.

Advantages

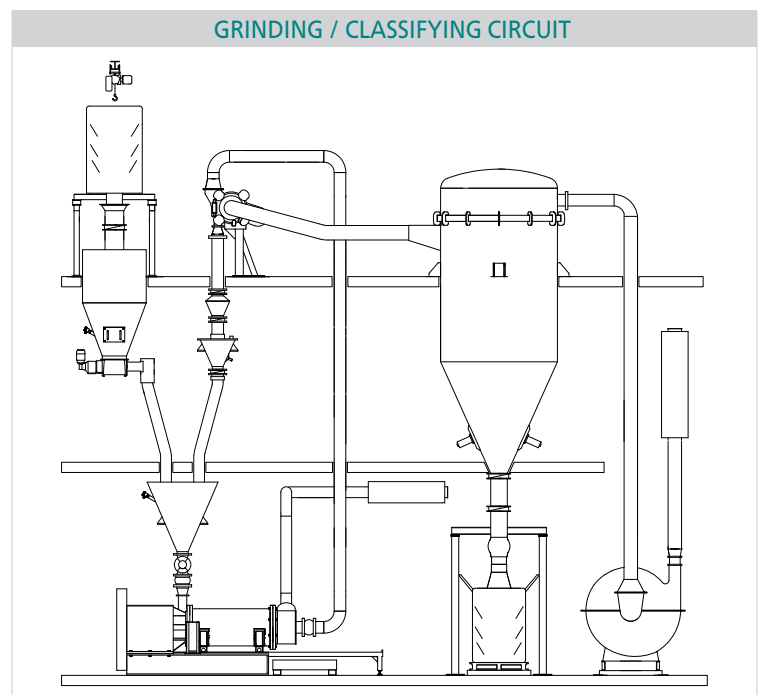
1. High energy efficiency
2. High product yields
3. Compact design
4. Open loop operation possible
5. High finenesses
6. Special separation systems permits the use of very small grinding media
7. Horizontal design leads to easy maintenance
8. High throughput capacities
9. Available with wear protection for abrasive products
10. Cooling available for heat sensitive products

Technical Data		30	300	1000
Throughput	[kW]	0,02 - 1,2	0,12 - 7,2	0,32 - 19,2
Max. motor power	[t/h]	22	110	315
Length	[mm]	2.100	5.800	10.800
Width	[mm]	1.500	2.450	1.490
Height	[mm]	1.550	1.685	2.490

All technical data are subject to change



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NETZSCH ECUTEK
Div. Minerals & Mining
Gran Via de les Corts Catalanes 641, 6^o-4^a
08010 Barcelona
Spain
Tel.: +34 932 477 700
Fax: +34 932 477 701
info.net@netsch.com

ecutec
NETZSCH

www.netsch-grinding.com