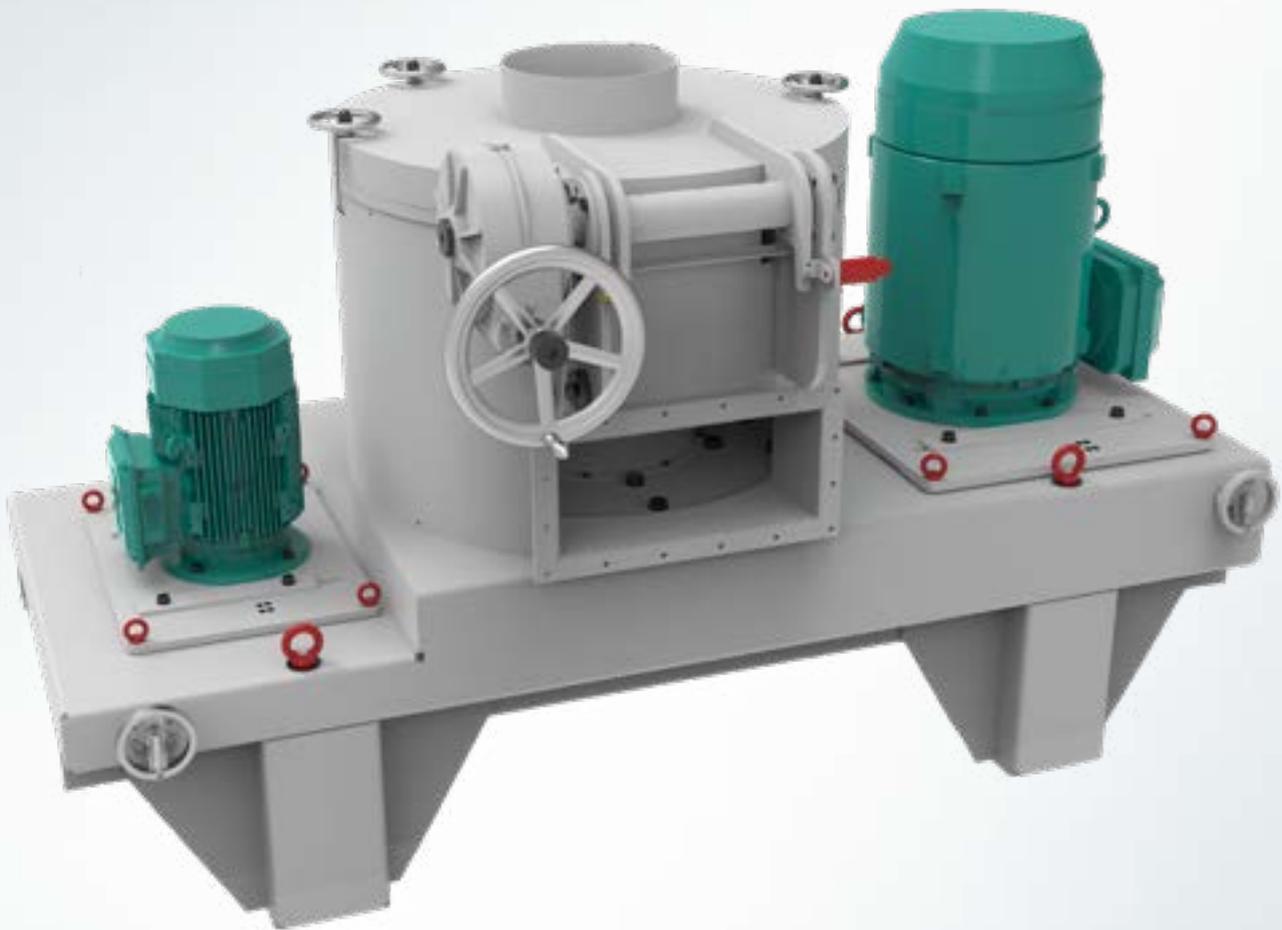


NETZSCH

Proven Excellence.



NETZSCH Air Classifier Mill *URAL*

Air Classifier for Special Products

Business Unit
GRINDING & DISPERSING

NETZSCH Air Classifier Mill *URAL*

URAL Air Classifier Mills combine high classifying efficiency with the advantages of a multi-purpose mill.

The NETZSCH *URAL* Air Classifier Mill is an impact grinding system with integrated classifier and therefore ideal for products with steep particle size distributions. The multipurpose mill can be used for soft and medium hard minerals where wear resistant materials can be chosen. The mill can be equipped with different grinding tracks as well as different impact elements, depending on the product and final product specs.

All these different designs are available in:

- Mild Steel
- Hardened Steel
- Casted Steel
- Ceramics

There are also several designs and materials available for the classifier, depending on the product and final particle size:

- Mild Steel
- Hardened Steel
- Ceramics

NETZSCH *URAL* can be operated with ambient air, hot air as well as dried and cooled air which covers a wide range of mineral applications. The mill combines drying, grinding and classifying processes in one compact unit.

URAL Air Classifier Mill is designed with a grinding disc and classifier rotor which are attached to a double shaft. This design and the operation with VFD's makes it possible to adjust the rpm's of grinding and classifying independently. Product ground by the high impact forces of the grinding disc will be offered to the classifier where fine product is accepted and coarse is rejected back into grinding zone. There are two air inlets: the main air inlet at the bottom of the mill disc and another one which is used to feed the fresh product pneumatically. Product accepted by the classifier will leave the mill on the top section through a center opening, connecting the mill to a final product filter or cyclone.



Benefits

- Simultaneous drying, grinding and classifying
- Soft to medium hard products
- Steep particle size distribution
- Excellent control of final top cut
- Low investment
- Quick product change

Applications

- Calcium Carbonate
- Dolomite
- Barite
- Lime
- Hydrated Lime
- Magnesium Hydroxide

Operating Principle



Technical Data

| <i>URAL</i> | | 150 | 1250 | 1500 | 3000 | 3500 |
|----------------------------|---------------------|---------------|----------------|-----------------|-----------------|-----------------|
| Air throughput approx. | [m ³ /h] | 1 200 - 1 500 | 9 600 - 11 000 | 14 000 - 17 000 | 22 000 - 25 000 | 24 000 - 30 000 |
| Feedrate up to | [t/h] | 0.1 - 0.5 | 1 - 4.0 | 2 - 6.0 | 3 - 13 | 3 - 15 |
| Mill speed approx | [rpm] | 3 000 - 7 200 | 800 - 2 600 | 800 - 2 600 | 800 - 1 850 | 800 - 1 850 |
| Rotor speed max. | [rpm] | 500 - 5 000 | 200 - 1 800 | 200 - 1 800 | 600 - 1 600 | 600 - 1 600 |
| Installed drive | [kW] | 11 | 90 | 110 | 250 | 315 |
| Classifier installed drive | [kW] | 1.5 | 15 | 18.5 | 45 | 55 |
| Fineness d ₉₈ | [μm] | 10 - 500 | 10 - 500 | 10 - 500 | 10 - 500 | 10 - 500 |

The owner-managed NETZSCH Group is a leading global technology company specializing in mechanical, plant and instrument engineering.

Under the management of Erich NETZSCH B.V. & Co. Holding KG, the company consists of the three business units Analyzing & Testing, Grinding & Dispersing and Pumps & Systems, which are geared towards specific industries and products. A worldwide sales and service network has guaranteed customer proximity and competent service since 1873.

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Business Unit Grinding & Dispersing – The World’s Leading Grinding Technology

NETZSCH-Feinmahltechnik | Germany
NETZSCH Trockenmahltechnik | Germany
NETZSCH Vakumix | Germany
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NETZSCH Mastermix | Great Britain
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