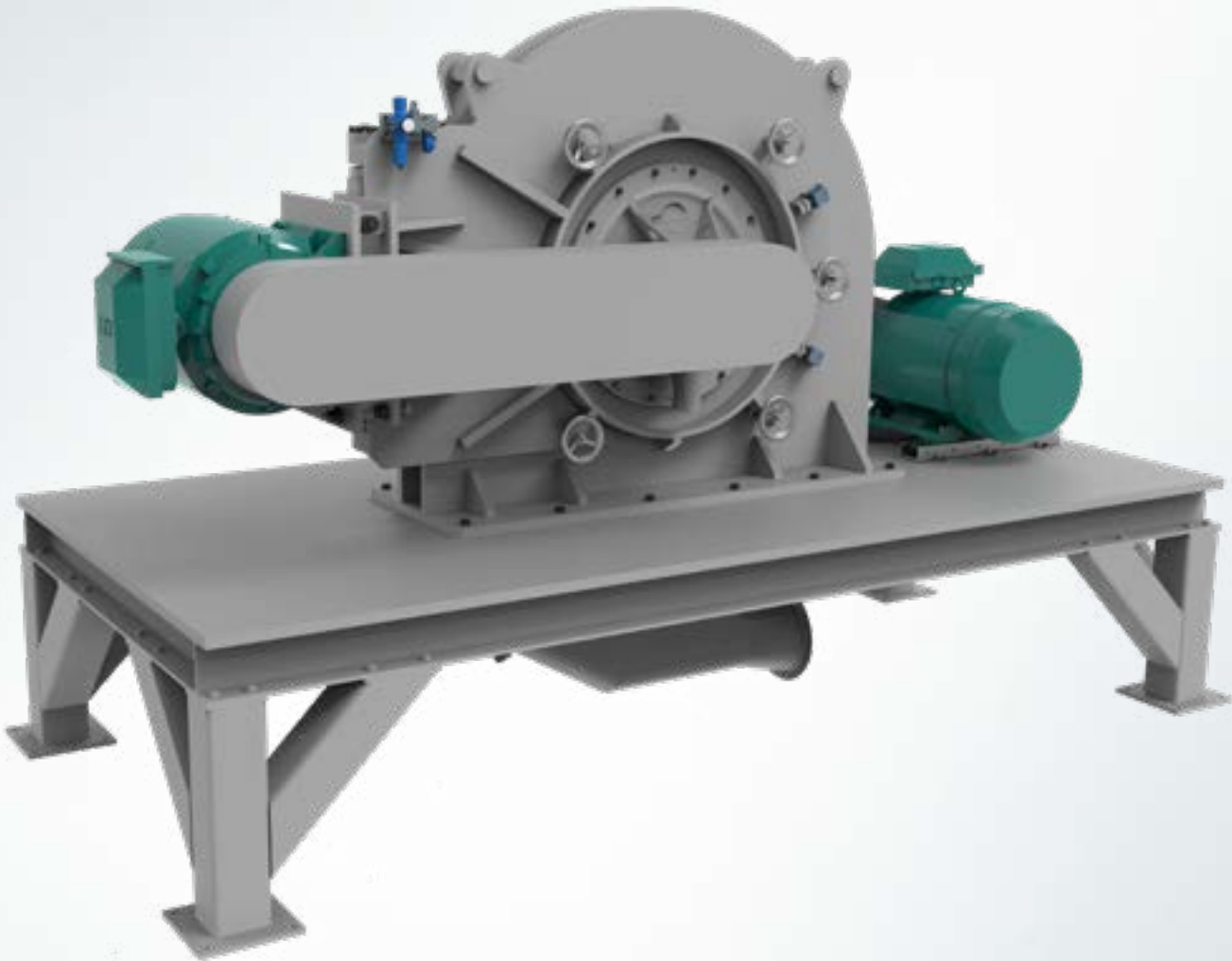


NETZSCH

Proven Excellence.



NETZSCH Pin Mill *SIERRA*

Pin Mill for Fine Products and Coating

NETZSCH Pin Mill *SIERRA*

Developed for grinding soft and medium-hard products and for surface coating of fillers

GRINDING

With contra-rotating pin discs the resultant tip speed is over 200 m/s which enables the grinding of soft to medium hard minerals to a high fineness. Independent control of the speed and direction of rotation of the pin disc drives gives a high degree of flexibility. An airflow through the mill assists the grinding, enables the control of product temperature and provides a medium for pneumatic transfer of the product.

As standard, the mill body is a robust, welded mild steel construction. Where necessary, the *SIERRA* Pin Mill can also be offered in stainless- steel construction. Access on the *SIERRA* is excellent and pin replacement is an easy operation.

COATING

NETZSCH Coating systems are optimized for achieving highly homogeneous coating results with low consumption of additives and with a final product free of agglomerates.

NETZSCH has designed a complete loss-in-weight system for both mineral and stearic acid where the mass flow is constantly monitored and controlled by a PLC. The stearic acid is injected through an atomizing nozzle into the high speed *SIERRA* Pin Mill, where hot pressurized air creates millions of small droplets of melted liquid stearic acid stream. Injecting the liquid into a zone with high shear forces reduces the size of the droplets even more, meaning that small particles will not get 'glued' to other particles by oversized droplets. As all the necessary coating is achieved inside the *SIERRA* Pin Mill, there is a fresh air inlet after the milling chamber that helps cooling down the product and prevents it from agglomerating.

This technology ensures that there will not be any over-coating or waste of stearic acid, or under-coating and a loss of product quality, which can be easily tested with the waterglass or HCl test.

NETZSCH *SIERRA* Pin Mills achieve higher product throughput on the same system size compared to similar systems available in the market.



Grinding Benefits

- Fine grinding of soft and medium hard minerals
- Extremely reliable and robust design
- Pin discs counter rotation or same rotation depending on material and application requirements
- Easy and quick maintenance resulting in low maintenance costs

Coating Benefits

- Minimization of the coating agent
- Aiming to achieve a perfect single layer of coating
- Avoid creating agglomerates after the coating process
- Low energy consumption
- Long lifetime of filter bags
- Compact design

The *SIERRA* Pin Mill also represents an economical and highly efficient method of coating ultra-fine fillers with stearic acid.



Pin discs for *SIERRA* 63



SIERRA 63 special design:
Heart insulated for coating of CaCO_3 with stearic acid

Technical Data

<i>SIERRA</i>		40	63	84
Feed rate approx.	[t/h]	1 - 5	3 - 10	6 - 15
Air throughput approx.	[m ³ /h]	3 000 - 7 500	6 000 - 15 000	12 000 - 22 000
Max. drive speed	[rpm]	6 000	3 550	2 660
Installed drive	[kW]	2 x 15 - 30	2 x 45 - 75	2 x 90 - 110
Rows of pins - Housing		3	2	2
Rows of pins - Door side		3	2	3

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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