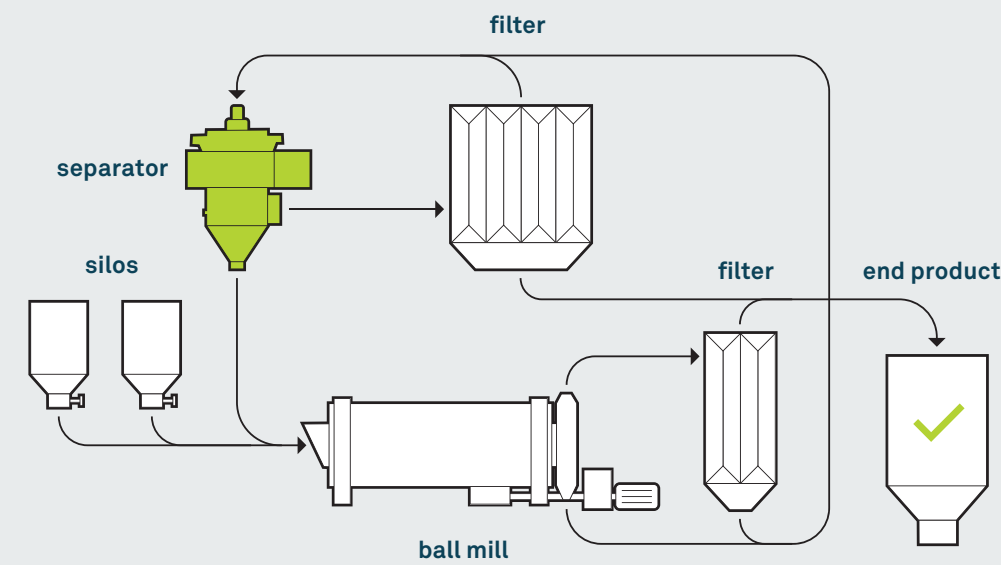


The separator in the grinding process

Following the grinding process, a separator classify the ground material according to different grain sizes. The material of the desired quality is discharged as product and the coarse material is returned to the mill.



Ensure the quality of your product and increase the **EFFICIENCY** of your grinding plant with a separator of Christian Pfeiffer.

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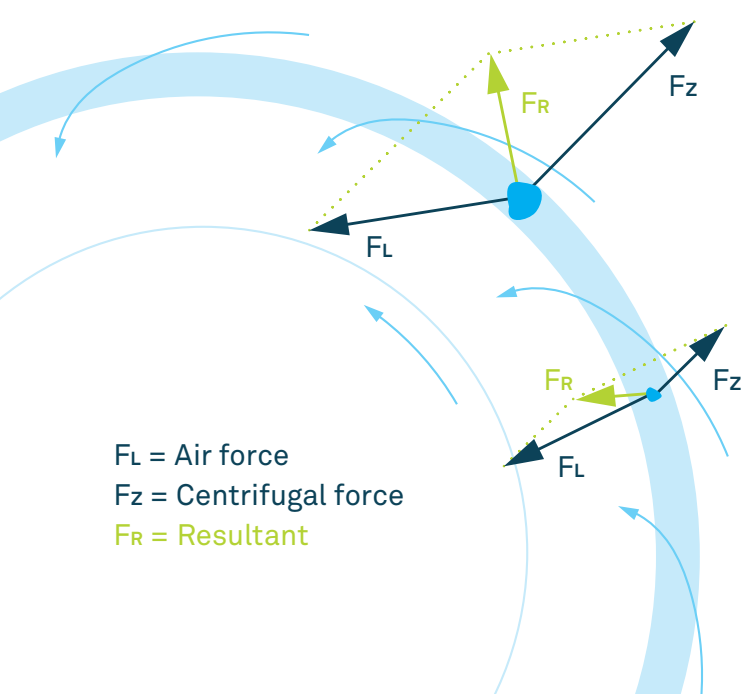
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Focusing on the Separator: The effect

Centrifugal, gravity and flow forces act on the mass particles of different sizes and ensure separation on the basis of natural laws.

The separator can produce product fineness up to --> TIM (How you explain it to a maintenance guy).ww



More than just grinding and separation: **EFFICIENT PROCESSES**

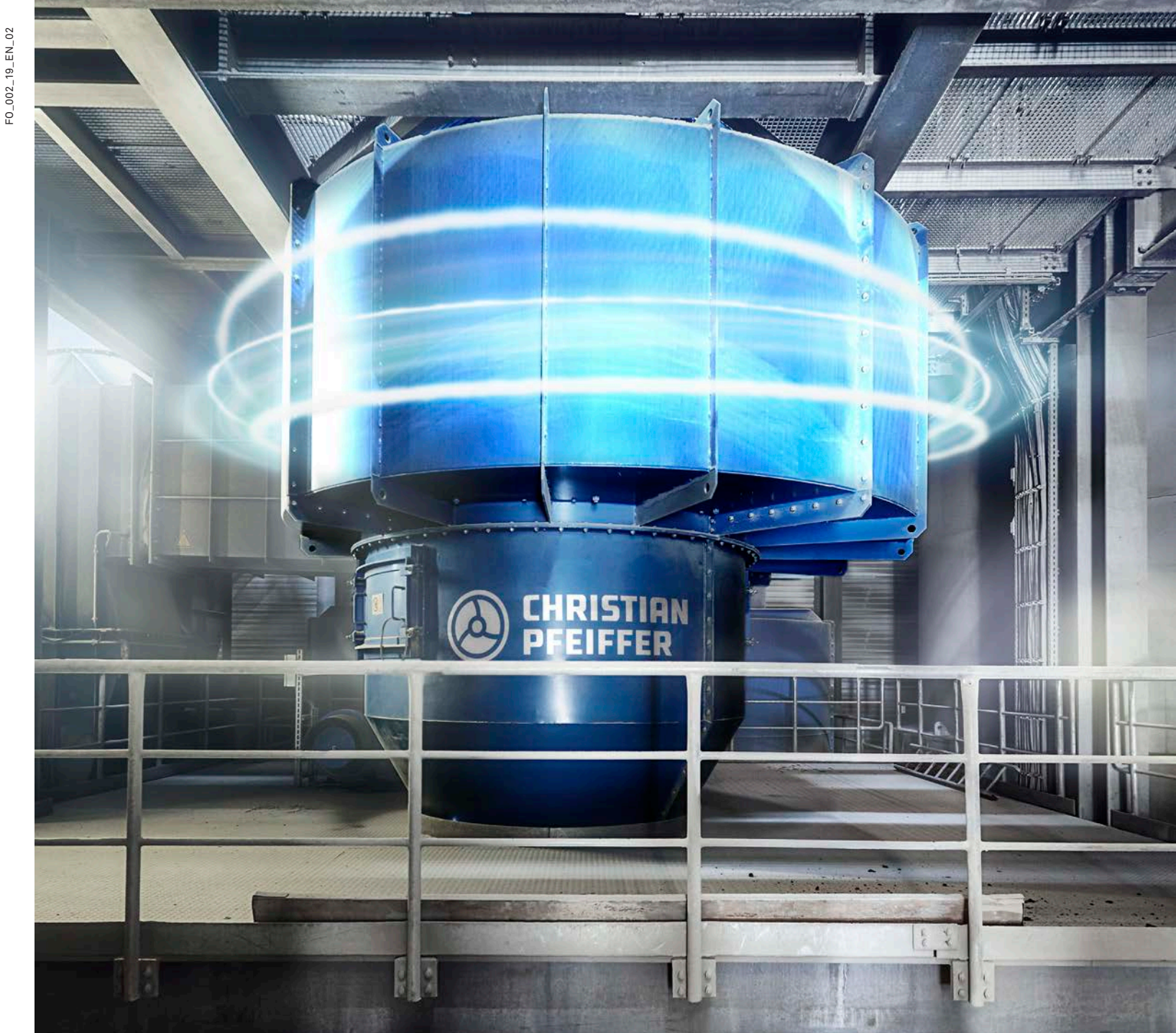
We analyze and understand to optimize the entire grinding process. Thanks to this expertise, Christian Pfeiffer has been one of the technology leaders in the grinding industry for nearly a century.

Separator

Visit us on
christianpfeiffer.com



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Decades of experience in separator technology



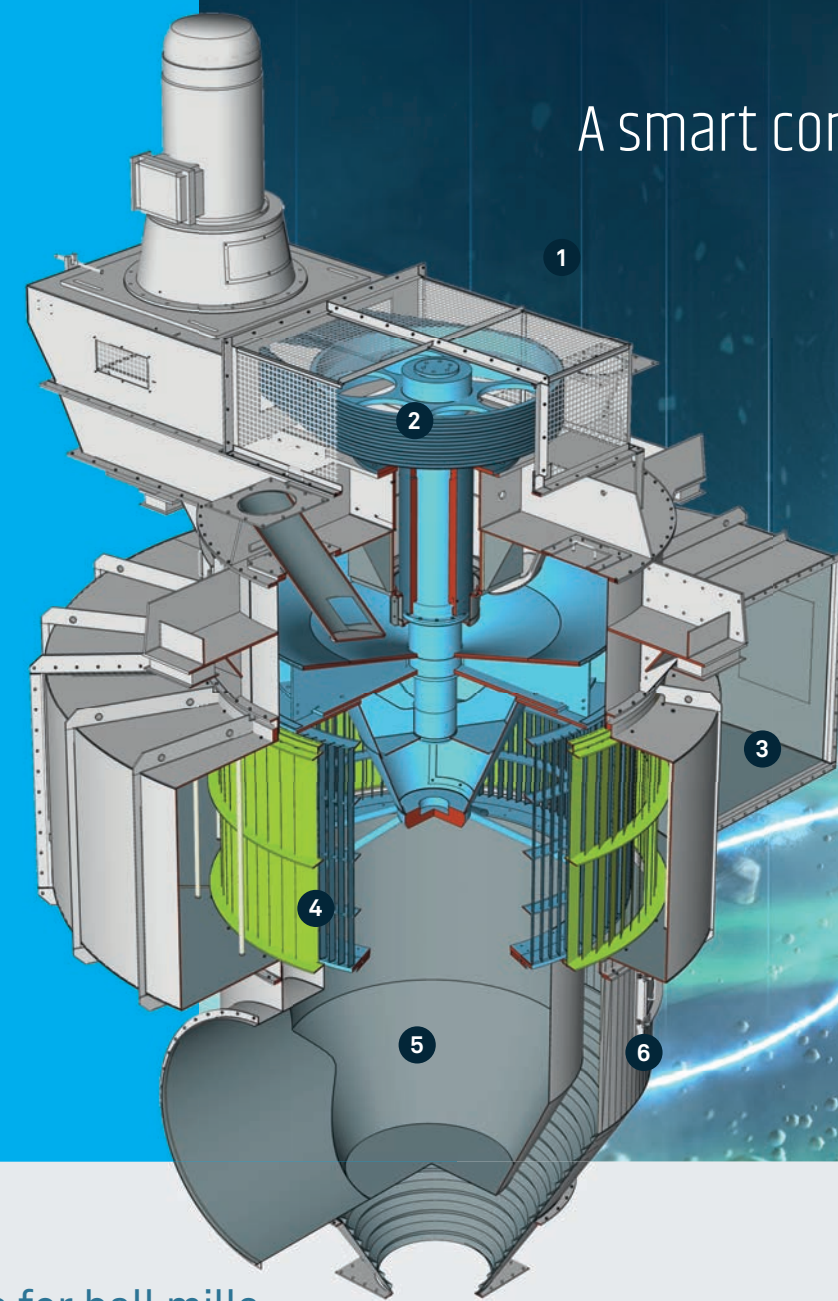
Our founder
Christian Pfeiffer

At Christian Pfeiffer, we have been developing components for high-quality grinding systems since 1925. In the late 1930s, we added the Heyd Separator which revolutionized the market in terms of quality and efficiency.

With our decades of experience and extensive process know-how, we offer a comprehensive range of highly efficient classifier models, each separator is adapted to the grinding plant.

This allows us to:

- ensure the quality of the end product
- increase the efficiency of the grinding plant
- reduce the specific energy consumption



A smart concept

- 1 if needed: Cooling of finished product temperature to below 70°C by a filter system. More reliable and durable.
- 2 v-belt drive without gears
- 3 consistent conditions throughout the separation zone due to especially designed rotary, air guide vanes and spiral housing
- 4 no dust or coarse material particles (spray grain) in the Separator thanks to wear-free sealing of the air barrier
- 5 durable hardfacing as an indestructible shield against the high speeds of the feed material
- 6 economical and easy to maintain thanks to large maintenance doors and dust-free bearing cartridge

Quality for your industry

Separators from Christian Pfeiffer are utilized in many industries, as they are suitable for a wide variety of grinding plants to ensure the product quality of:

- > Cement
- > Raw meal
- > Coal / petroleum coke
- > Quartz sand / blast furnace slag
- > Graphite / fly ash
- > Gypsum
- > Lime
- > Calcium carbonate
- > Zeolite
- > Iron ore
- > Feldspar
- > Tabular
- > Ferrosilicon



Universal separator



Heyd Sichter Dynamic Separator 1st generation

The universal talent
Our favorable all-in-one aggregate

Separators for ball mills



QDK-S cross-flow high efficiency separator

For all grinding circuits
Can be integrated into almost any grinding plant



QDK-T Top gas separator

For space limited installations
Same technology as the QDK but with more installation flexibility



FIX + QDK-F Twin Feed Separator

For combined grinding
For rollerpress grinding systems and combined feed grinding circuits

Dynamic separators for vertical mills



QDK-L Dynamic Separator Air flow

For raw meal, coal and petcoke
Installed in air-swept mills and vertical mills for ultrafine classification



QDK-K Solit fuels

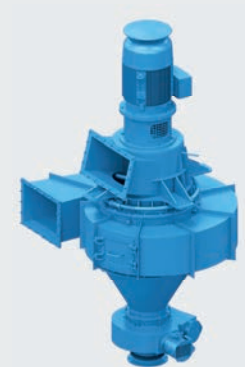
Moist materials
For separating moist materials, e.g. coal or petcoke



QDK-M Minerals

Dry materials
For separating products with relatively low moisture

Ultrafine classifier



ROC Industrial Minerals

Fine minerals
For classifying industrial minerals down to d98 = 5-100µm, e.g. calcium carbonate



U-ROC Industrial Minerals

Very fine minerals
For classifying industrial minerals down to d98 < 3 µm



“Christian Pfeiffer high performance separator QDK has expanded our product portfolio and increased the efficiency of our plant.”

With the support of Christian Pfeiffer, we have converted our cement grinding plant from an open to a closed circuit. The addition of the QDK 143-Z high efficiency separator with cyclone separation in conjunction with our existing ball mill has made our cement production significantly more efficient. Furthermore, we are able to produce additional cement types because we achieve higher particle finenesses. To reach these results, the mill internals were also modernized. These project upgrades proved to be a worthwhile investment which paid for itself in a short period.

Due to their extensive process knowledge and many years of experience, Christian Pfeiffer was the right partner for us. The cooperation ran smoothly and reliably.

Akkermancement
Gornozawodsk, Russia