

# EFFICIENT PROCESSES

for grinding and separation



**CHRISTIAN  
PFEIFFER**





Passionate about the  
**FLOW**

Our mission is to ensure the material flows through your plant in the best possible way, with the best possible results. This is linked inseparably to our passion – the deep desire to understand your challenges, to get to grips with the raw material, and to take a close look at each step in your process.





“Teamwork is the key to realize efficient projects.”

Dietmar Freyhammer  
Managing Director

## A vision that goes beyond technology

Every day, we make grinding plants of outstanding quality. And while others promise high-quality technology, we go further. We use our skills and experience to explore your process in its entirety, to make it as efficient as possible.

We take a long, hard look at your grinding and separation needs. And then we design and build a solution precisely geared to the imperatives of your specific manufacturing situation.

## We consider all process-relevant components

At Christian Pfeiffer, we believe in interdisciplinary teamwork – for the construction of an all-new plant, for the extension of an existing installation, or for retrofits and upgrade. In practice, this includes engineering, project management, installation and commissioning – and more.

Our highly skilled team provides tailored advice and assistance throughout the entire lifecycle of your plant – to ensure maximum process efficiency.

45

locations worldwide

100+

employees

15+

languages spoken





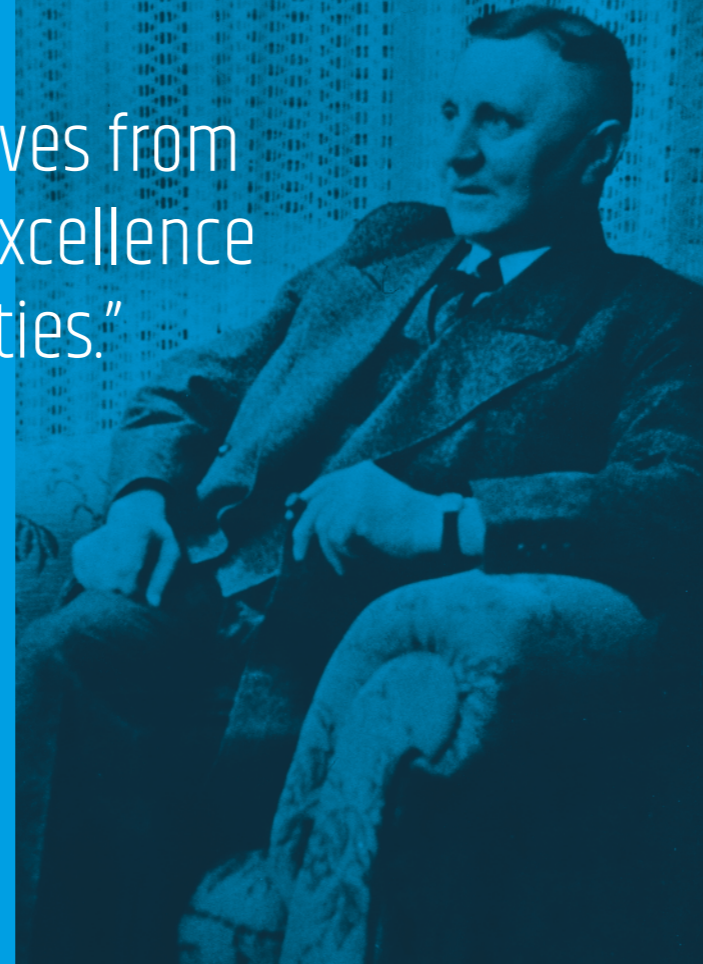
How we see the  
**TROMP CURVE**

This curve is more than plotted measurements.  
It is an expression of know-how, experience  
and commitment. It combines material flow with  
knowledge, and engineering with passion.



**Christian Pfeiffer**  
Company founder

“Leadership derives from the pursuit of excellence across all activities.”



## Efficiency is our heritage

Our expertise and experience are the result of almost a century of dedication. The Christian Pfeiffer company was established in 1925, and quickly made a name for itself as a developer and manufacturer of components for grinding plants. Today, we do not only supply parts, we also design and build end-to-end plants.

We do not only deliver equipment. We deliver process optimization. It is part of our DNA. From the very beginning, our founder Christian Pfeiffer was committed to grinding process efficiency – and he revolutionized the market in the 1930s with his first separator.

## Efficiency is our future

Leadership means being better than others — always and everywhere. Markets and requirements are ever-changing and so are we. We repeatedly and regularly take a critical look at all our activities and draw on our traditional spirit of innovation. The results are products and processes that continue to improve and evolve — and that gives our customers a competitive advantage.

**1930**

Patent registered for the first diaphragms

**1939**

Establishment of Heyd separator technology in the European market

**2004**

4<sup>th</sup> generation diaphragm featuring separation of air and material flow

**2010**

Next-generation separators with a 10 per cent increase in efficiency



# We manage **COMPLEXITY**

Drawing on our engineering competence, we do not only know the components you need for your production process — we also understand how your material behaves when it is passing through the separator at a speed of 144 km/h.





# Little adjustments can make a huge difference

We raise efficiency through continuous improvement and innovation: a modification to the lining shape, a slight change of the separator, a next-generation diaphragm.

## Hardened rolled steel

Steel with a hardness of typically 60 HRC ensures a long service life. Specially shaped conical slots only allow material that has been sufficiently ground to pass.

## Separation of air and material flows

The adjustable material flow control system, as well as the separation of air and material flows prevent material-free zones in front of and behind the diaphragm for effective utilization of the entire grinding length inside both grinding compartments.

## Monobloc<sup>®</sup> design

The Monobloc<sup>®</sup> diaphragm effectively supports the mill cylinder, and avoids deformation as a result of its floating fixation, extreme robustness and durability.

4<sup>th</sup> generation  
intermediate diaphragm



## **Greater impact energy**

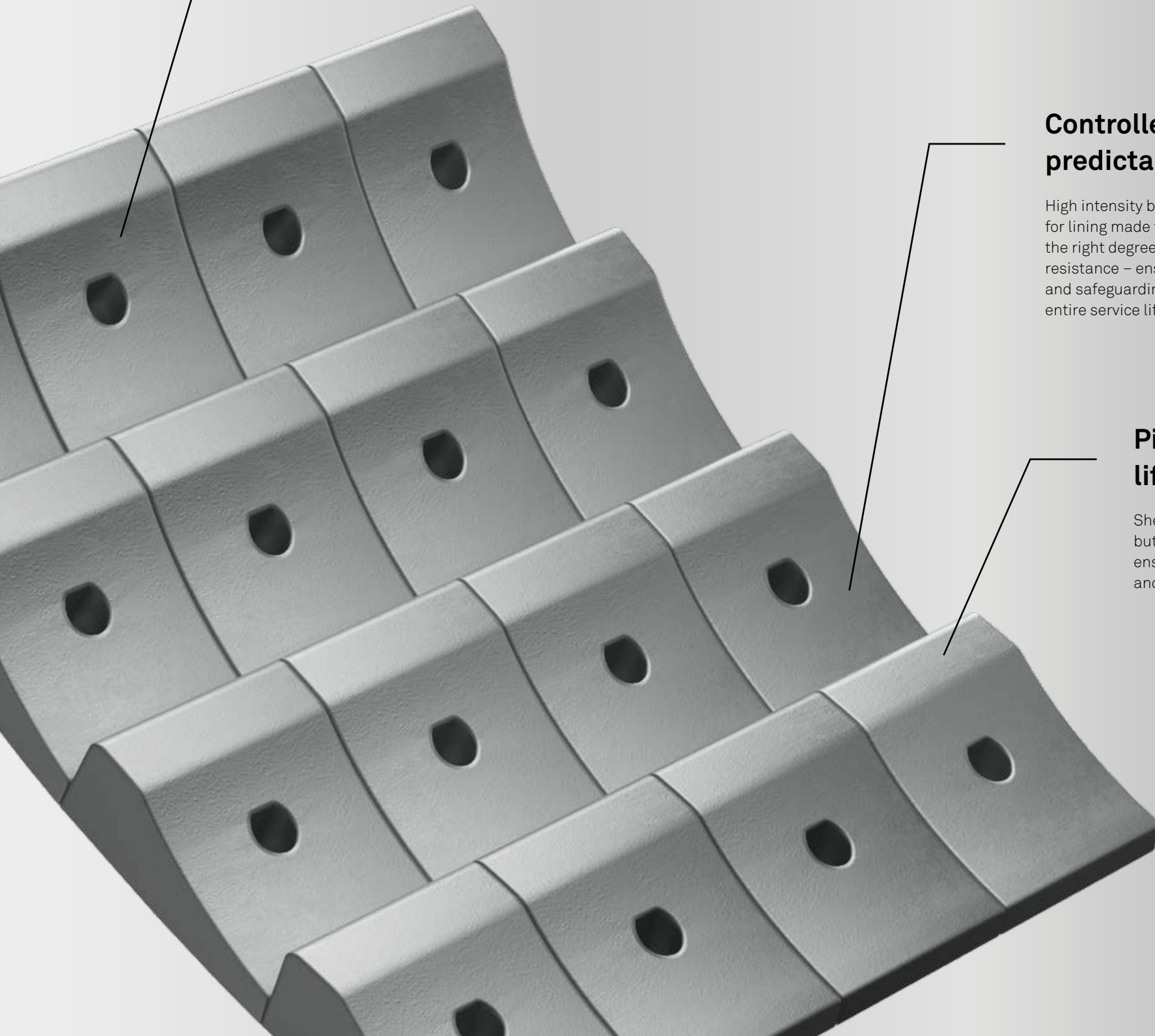
The activator lining is specially designed to lift the ball charge significantly higher than is possible with conventional linings, generating optimal impact energy.

## **Controlled, predictable wear**

High intensity ball charge activation calls for lining made from a material that offers the right degree of hardness and breakage resistance – ensuring controlled wear and safeguarding function throughout the entire service life.

## **Pioneering lifter shape**

Shell linings are subject to wear but the cleverly designed shape ensures a constant lifting height and process stability.





QDK  
cross-flow rotating cage separator

## Maintenance-friendly

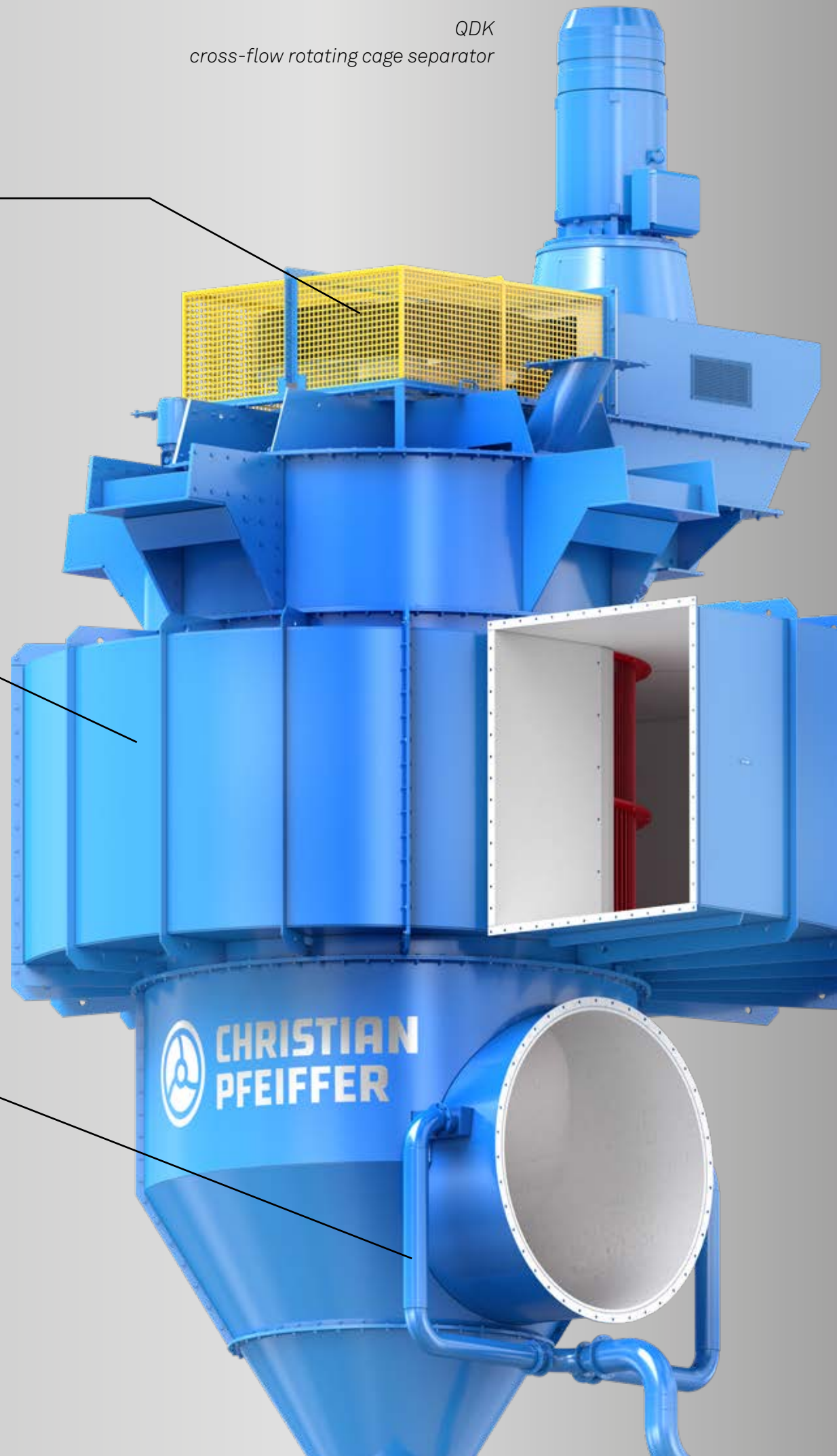
No gear boxes, large maintenance doors accessible from all sides, a dust-free bearing cartridge that can be removed from above for maintenance.

## Consistent conditions for separation

The specially developed rotating cage, air guide vanes and spiral casing ensure consistent, stable conditions within the entire separating zone.

## Low-wear confined air seal

The design of the confined air seal underneath the rotating cage safeguards the fine product from oversized particles.



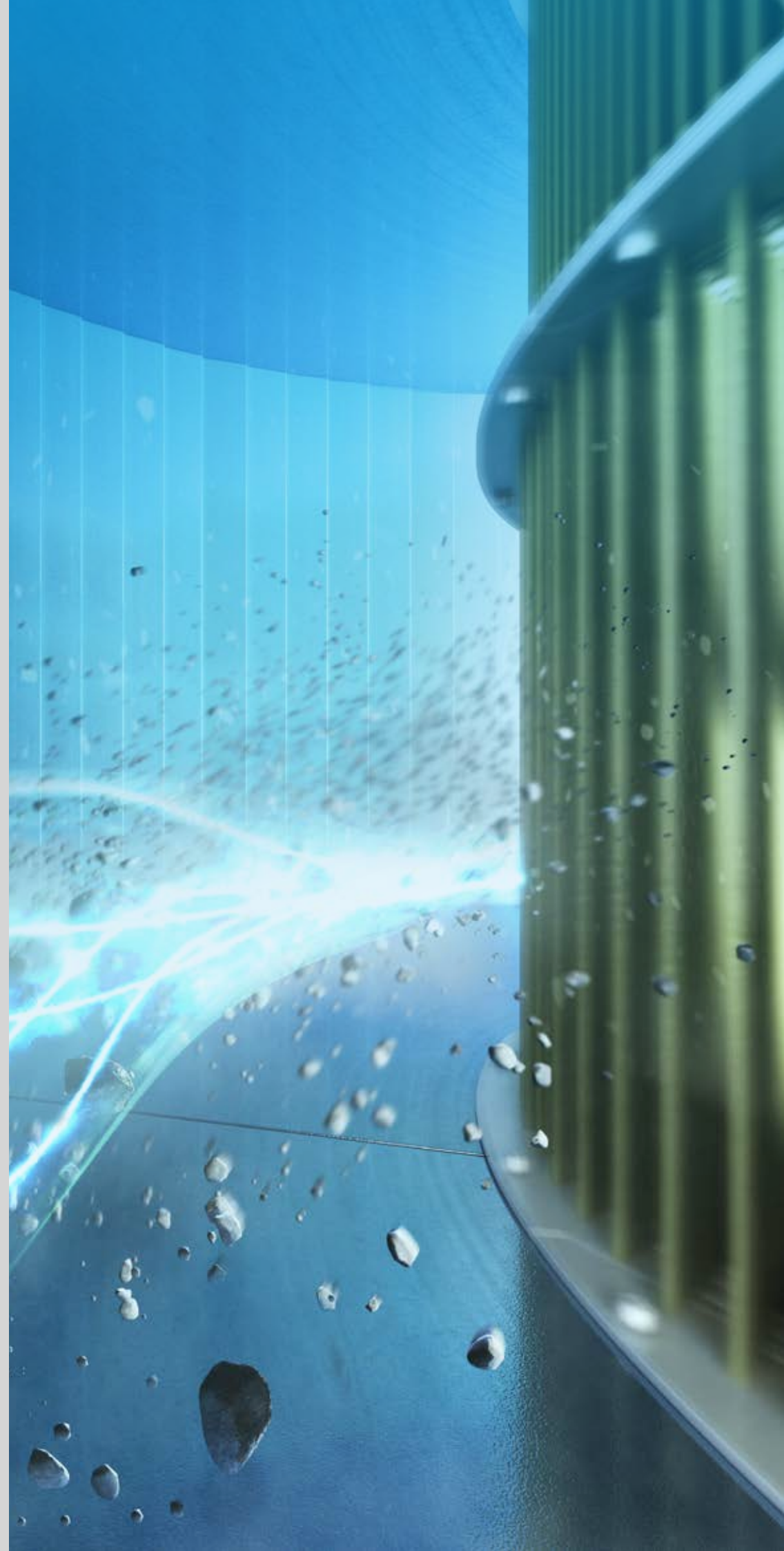


# From the first bolt to the completed grinding plant: **we're here to help you.**

Our success is measured by the efficiency of your processes. By carefully considering all process-relevant components, we design and build solutions that enhance performance, save energy and increase quality. Day in, day out.

We can make your grinding process more efficient. Guaranteed. Visit our website to discover more.

[christianpfeiffer.com](http://christianpfeiffer.com)







Efficiency is based on  
**RELIABLE  
PARTNERSHIP**

We know that no two manufacturing facilities, locations or customers are the same. Therefore, we work hand-in-glove with you to make sure we always have the full picture. We believe in long-term relationships, helping you plan, build and run the best possible plant for your needs throughout the entire lifecycle.





“We are committed to close partnerships with our customers.”

**Uwe Karsunke**  
Managing Director

## Long-term customer relationships

The first contract is based on trust, the second on conviction. We are not focussing on winning contracts – we are focussing on long-term relationships, on genuine partnerships where we share the same goals, where we learn from each other, and continuously grow together.



### Ivano-Frankivsk Cement Ukraine

“ We have been working with Christian Pfeiffer since 1994. During this long-lasting partnership we went through good and also through challenging times. Throughout the years this business relationship turned into a loyal friendship based on deep, mutual trust. This is what we particularly appreciate working with Christian Pfeiffer.”

### ALMINA Minas do Alentejo S.A. Portugal

“ When we first approached Christian Pfeiffer to upgrade our copper-ore grinding plants, we did not think they could implement the project so quickly. A new mill was added to our plant, increasing our capacity by 30 per cent. It took just 10 months from placing the order to commissioning: an impressive achievement.”

### NIPPON STEEL Blast furnace slag cement Japan

“ We assigned Christian Pfeiffer with the upgrade of our cement grinding plant. The replacement of the intermediate diaphragm for one of our mills ran fast, smoothly and the result exceeded our expectations. Therefore, we considered Christian Pfeiffer technologies and products also for other mills. That’s why we have recently applied the progressive shell lining system for the first compartment of another mill.

Our company is located in Kitakyushu City, which has been selected by the Organization for Economic Co-operation and Development (OECD) as one of the world’s model cities for promoting the official Sustainable Development Goals (SDG). In order to promote SDGs, we will continue to focus on Christian Pfeiffer’s excellent latest energy saving technologies.”



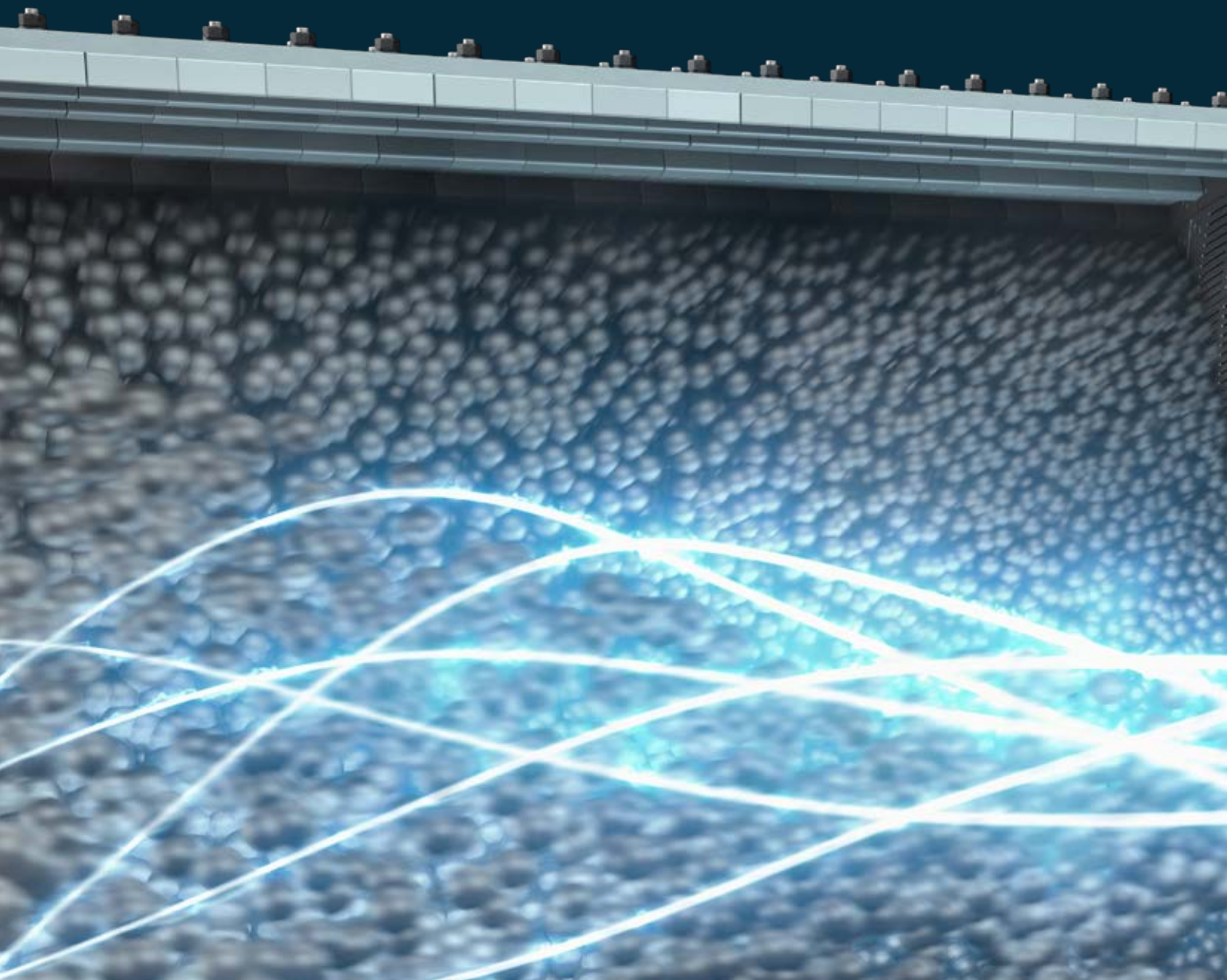


Our motivation:  
**PERFECT  
RESULTS**

We are motivated by the desire for efficient processes. They turn feed material into a high-quality end-product.



Let us discuss your needs, and how we can work together to maximize the efficiency of your plant. We operate around the globe, so visit our website to identify your local contact:  
[christianpfeiffer.com/contact](https://christianpfeiffer.com/contact)



Visit us at  
[christianpfeiffer.com](https://christianpfeiffer.com)



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