

Our product **BIRKOSIT Dichtungskitt®** has earned us our position among the global market leaders in professional sealing technology.



# COMPANY HISTORY

It all began back in 1952 when the company was started up by Henning Schulze. We are proud to have followed in his footsteps and to have built the company into an international supplier.

## **Big names trust us**

Siemens, Alstom, EON, ENBW, PreußenElektra, RWE Rheinbraun and all public utilities in Germany are just some of our long-standing customers.

## **Sustainability & stewardship**

We balance economic growth with environmental stewardship and corporate social responsibility. Sustainable and responsible practices also equate to optimum levels of safety and protection at all times.

## **Jobs and careers**

We are a modern employer and attach great importance to the satisfaction of our employees. Flexible working hours and ergonomic workstations are must-haves in our company.

Innovation and quality control are the cornerstones of our business. We guarantee reliability, performance and operational safety. What is more, our team operates on the principle of prevention instead of cure, preferring to avoid errors than correct them.

**Certified  
company**

**Pure materials  
free of toxins**

**Quality management for  
flawless end products**

# GENERAL AGENCIES

A.I. Schulze  
Chemotechnische Fabrik

We serve customers in many different markets all over the world.

The group headquarters in Germany and 24 General Agencies guarantee flexible services and fast delivery.

**Working with innovation leaders to find solutions in all industries.**  
**BIRKOSIT Dichtungskitt®** can be used without hesitation in all industries  
where metallic connections need to be sealed.

## Power supply



Energy suppliers all over the world have to face a multitude of challenges, and **BIRKOSIT Dichtungskitt®** plays a part in the solutions to these challenges.

## Mechanical & plant engineering



The requirements in mechanical and plant engineering vary from industry to industry therefore we have adapted **BIRKOSIT Dichtungskitt®** to cater for the specific needs.

## Water, sewage & disposal



The efficiency and quality of sealants are major priorities in the water industry. **BIRKOSIT Dichtungskitt®** is the perfect sealing product for guaranteed reliability.

## Automotive industry



**BIRKOSIT Dichtungskitt®** saves time during overhauls and unscheduled downtimes, making car production more efficient and therefore more profitable.

# APPLICATION

Our product **BIRKOSIT Dichtungskitt®** is the prime solution for your sealing requirements. It is entirely reliable for all the relevant sealing applications in your business thanks to its exceptional resistance and ease of use.

## STEAM AND GAS TURBINES



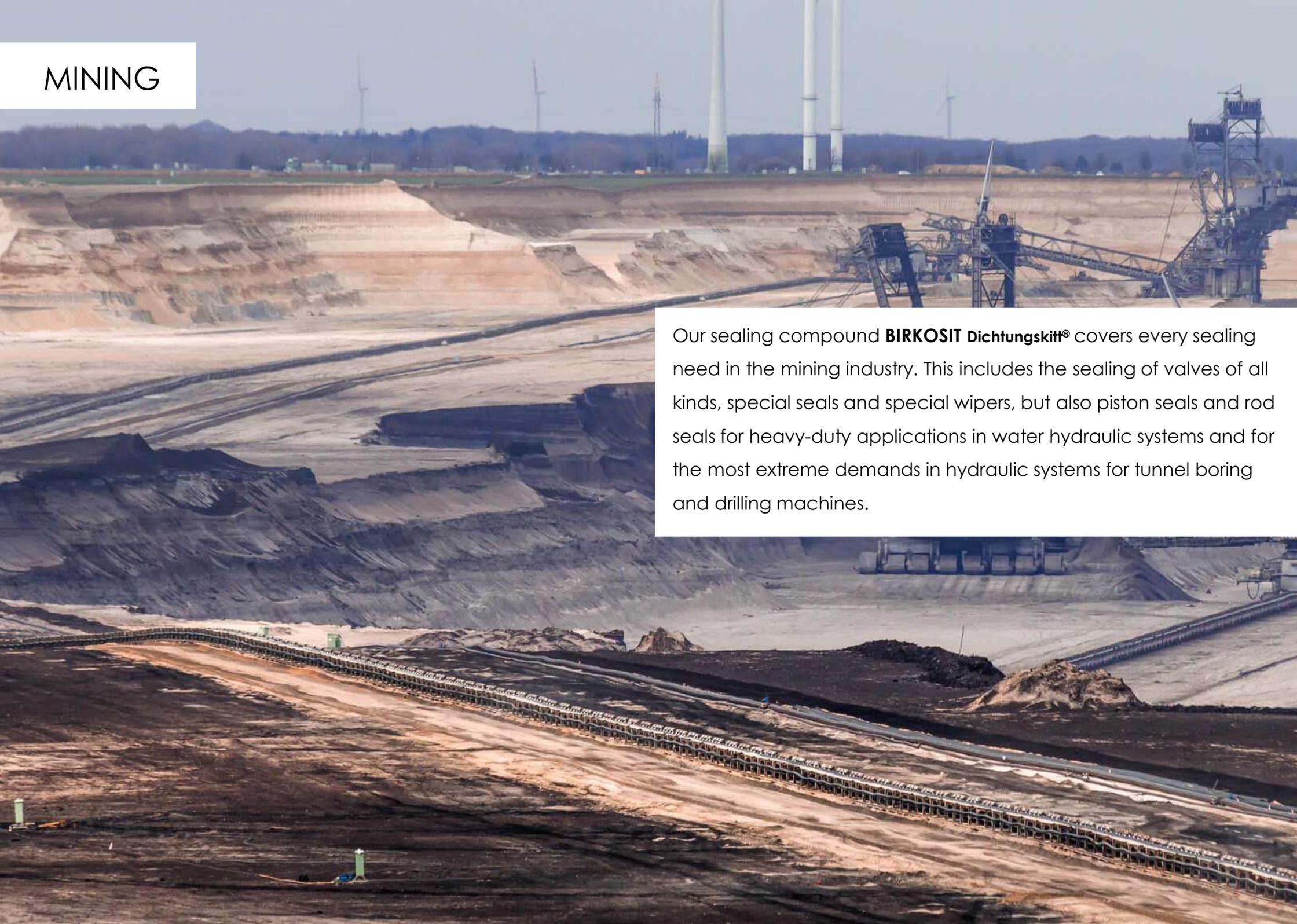
**BIRKOSIT Dichtungskitt®** offers a 100% seal for all the relevant areas in gas turbines, steam turbines and nuclear plants, including surfaces, intermediate gaskets and oil control valves.

# OIL AND GAS INDUSTRY

Conditions are tough in the oil and gas industry, with components exposed to high temperatures, high levels of pressure, steam, water and aggressive chemicals in the various processes. The demands can be extreme at times therefore a reliable seal is a must in order to avoid unnecessary downtime and to increase process efficiency.

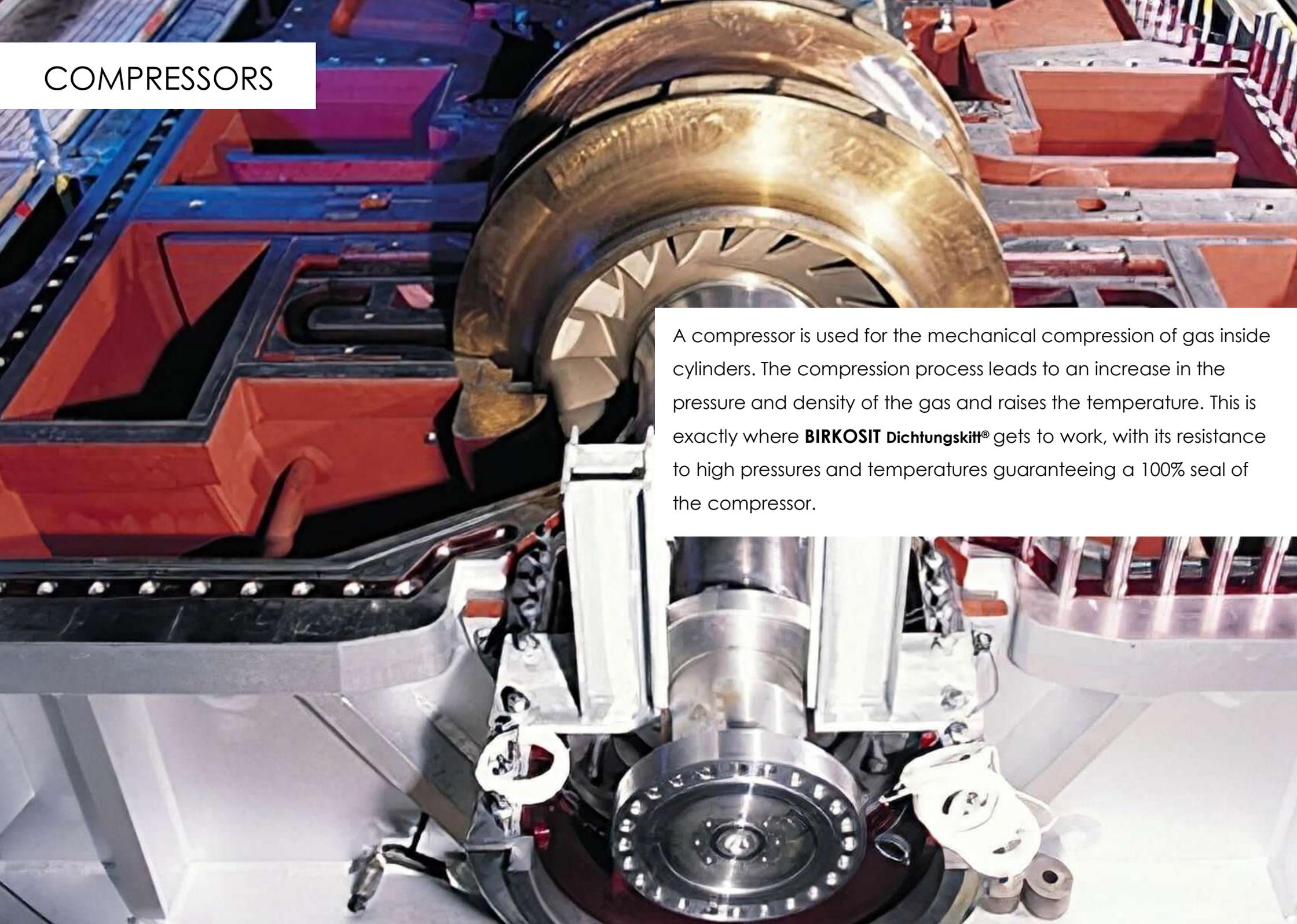


# MINING

A wide-angle photograph of a large-scale mining operation. In the foreground, a long, winding conveyor belt system stretches across a dark, excavated area. The middle ground shows a vast, open-pit mine with terraced levels of earth and rock. In the background, several tall, white wind turbines stand against a clear blue sky. The overall scene depicts a modern, industrial mining site.

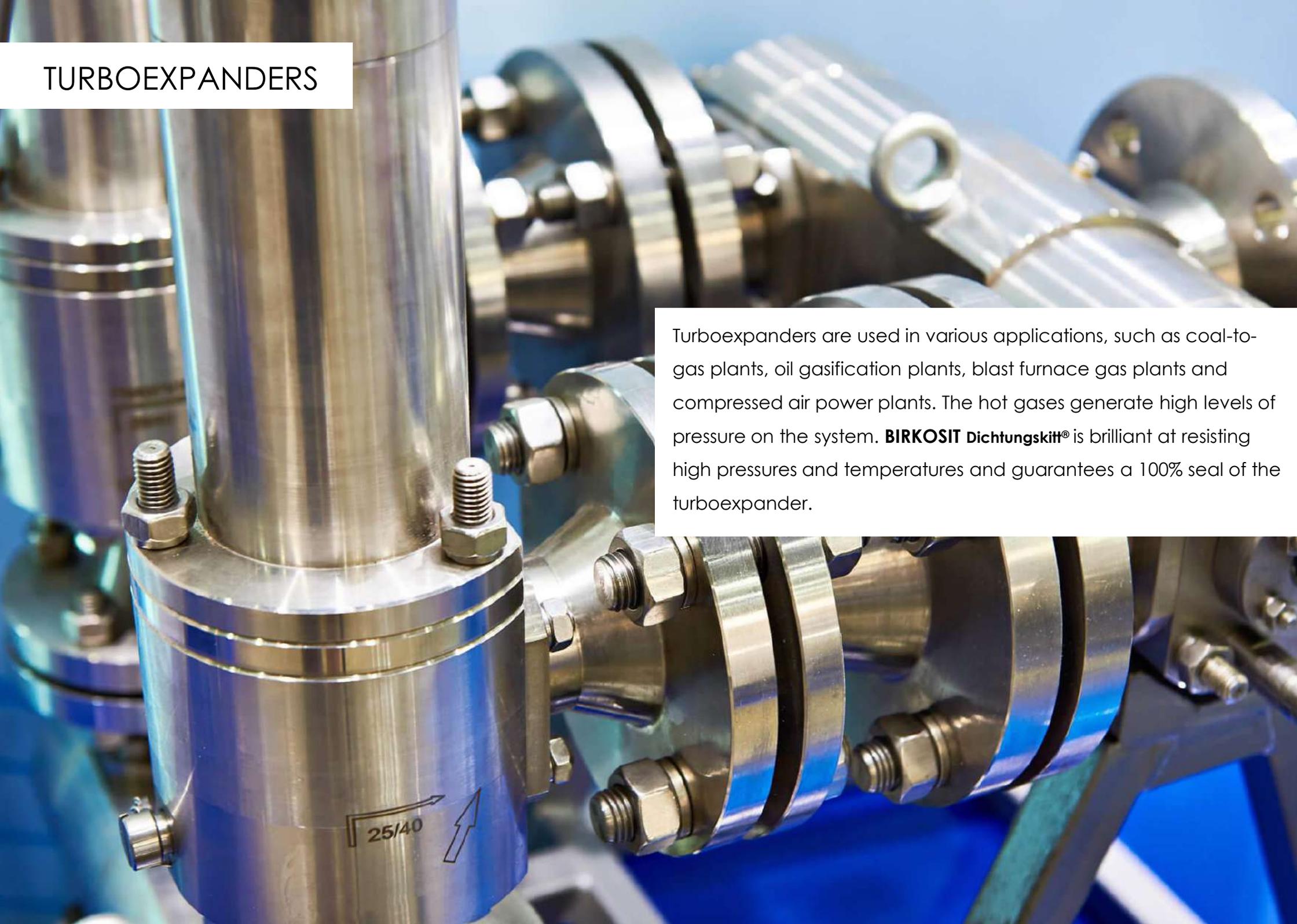
Our sealing compound **BIRKOSIT Dichtungskitt®** covers every sealing need in the mining industry. This includes the sealing of valves of all kinds, special seals and special wipers, but also piston seals and rod seals for heavy-duty applications in water hydraulic systems and for the most extreme demands in hydraulic systems for tunnel boring and drilling machines.

# COMPRESSORS



A compressor is used for the mechanical compression of gas inside cylinders. The compression process leads to an increase in the pressure and density of the gas and raises the temperature. This is exactly where **BIRKOSIT Dichtungskitt®** gets to work, with its resistance to high pressures and temperatures guaranteeing a 100% seal of the compressor.

## TURBOEXPANDERS

A detailed close-up photograph of a turboexpander assembly. The image shows several vertical and horizontal cylindrical metal components, likely made of stainless steel or aluminum, connected by various bolts and flanges. The lighting is bright, highlighting the metallic surfaces and the precision of the engineering. In the lower-left foreground, a vertical component has a small rectangular label with the text '25/40' and two arrows pointing upwards and to the right.

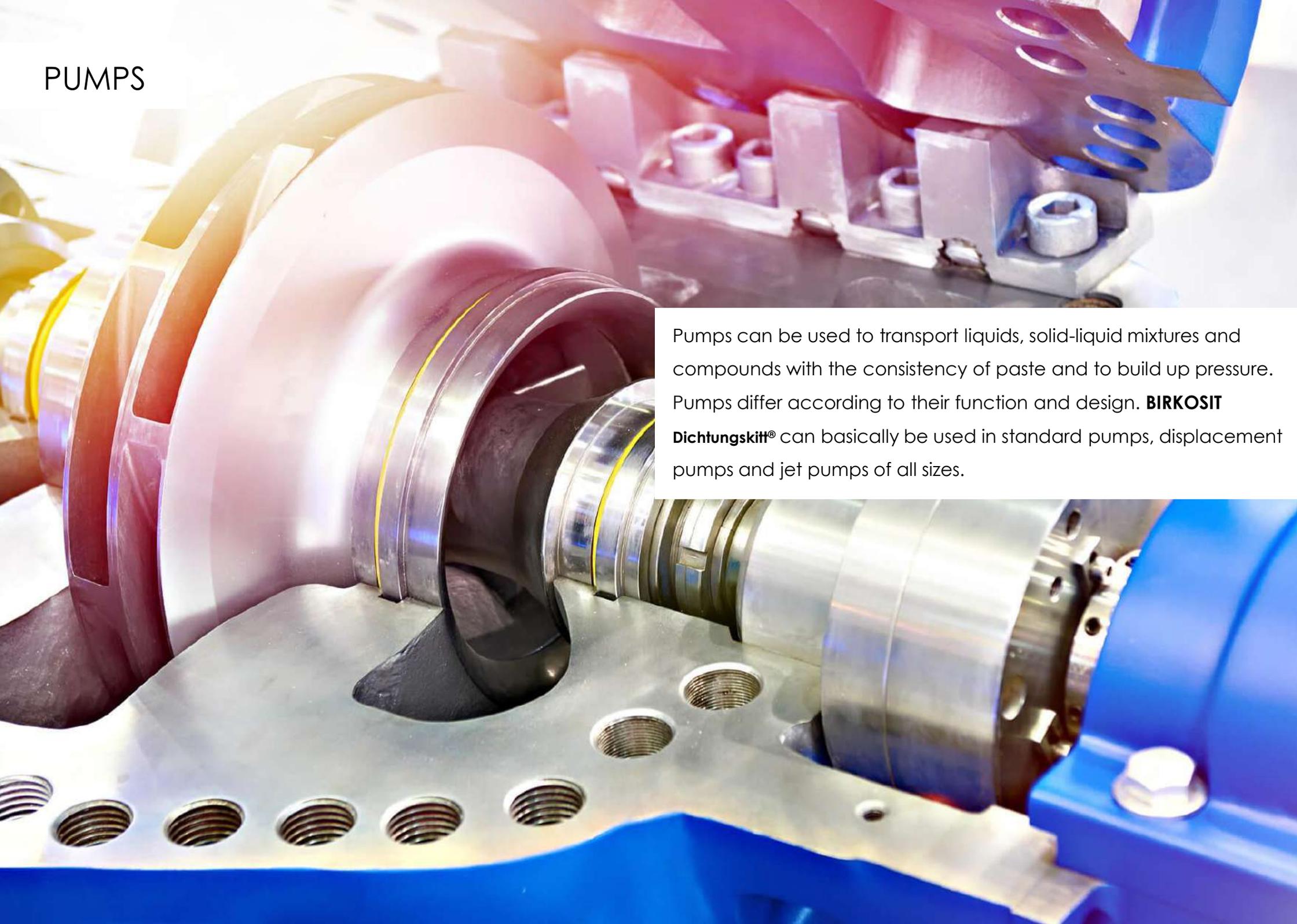
Turboexpanders are used in various applications, such as coal-to-gas plants, oil gasification plants, blast furnace gas plants and compressed air power plants. The hot gases generate high levels of pressure on the system. **BIRKOSIT Dichtungskitt®** is brilliant at resisting high pressures and temperatures and guarantees a 100% seal of the turboexpander.

# GENERATORS



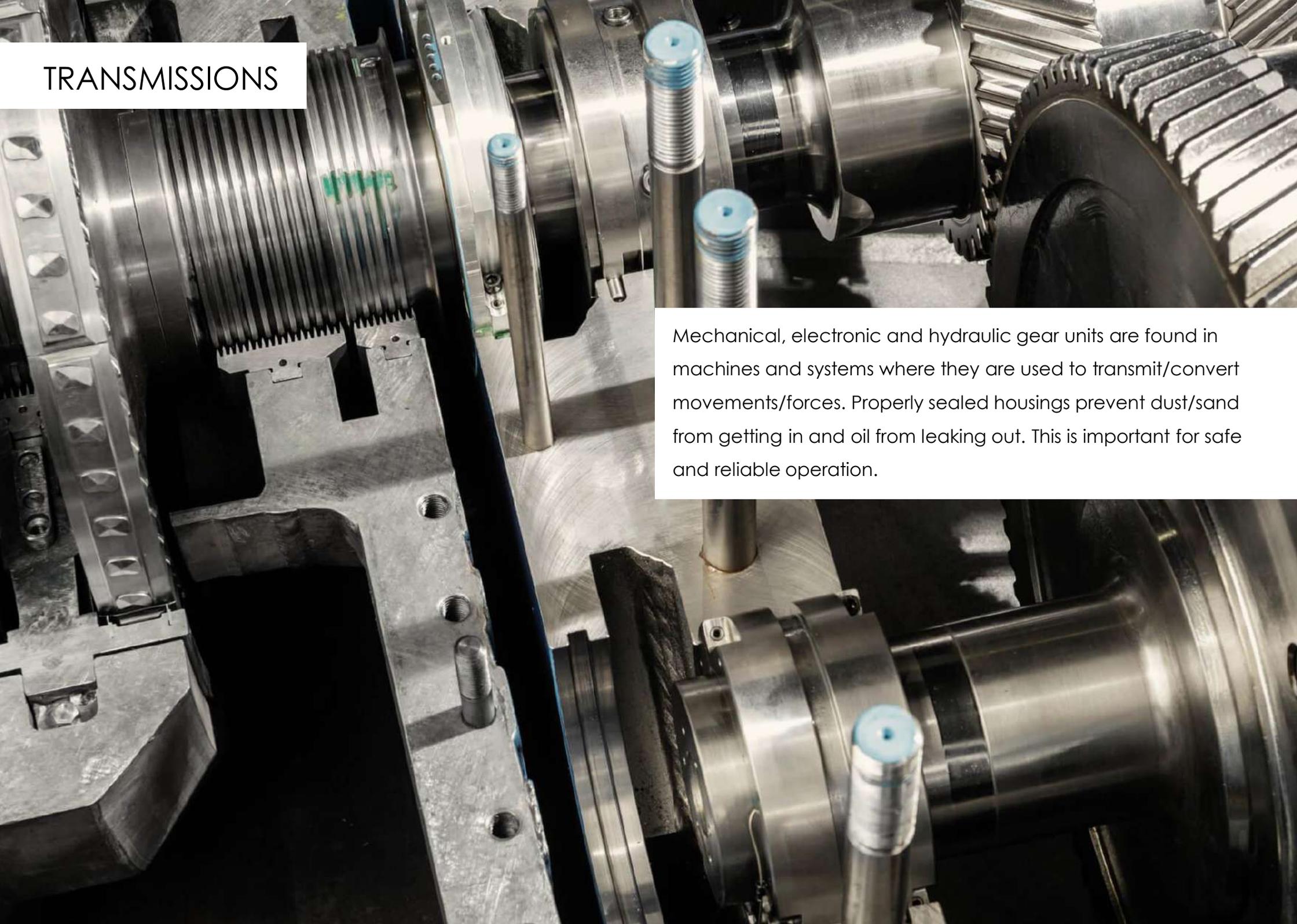
Generators convert mechanical energy into electrical energy. During operation, the generator components heat up more than the cooler. This causes greater expansion of the generator and therefore increases the strain on the sealing compound. **BIRKOSIT Dichtungskitt®** is designed to meet this demand with its resistance to high temperatures and pressures and its exceptional permanent elasticity.

# PUMPS



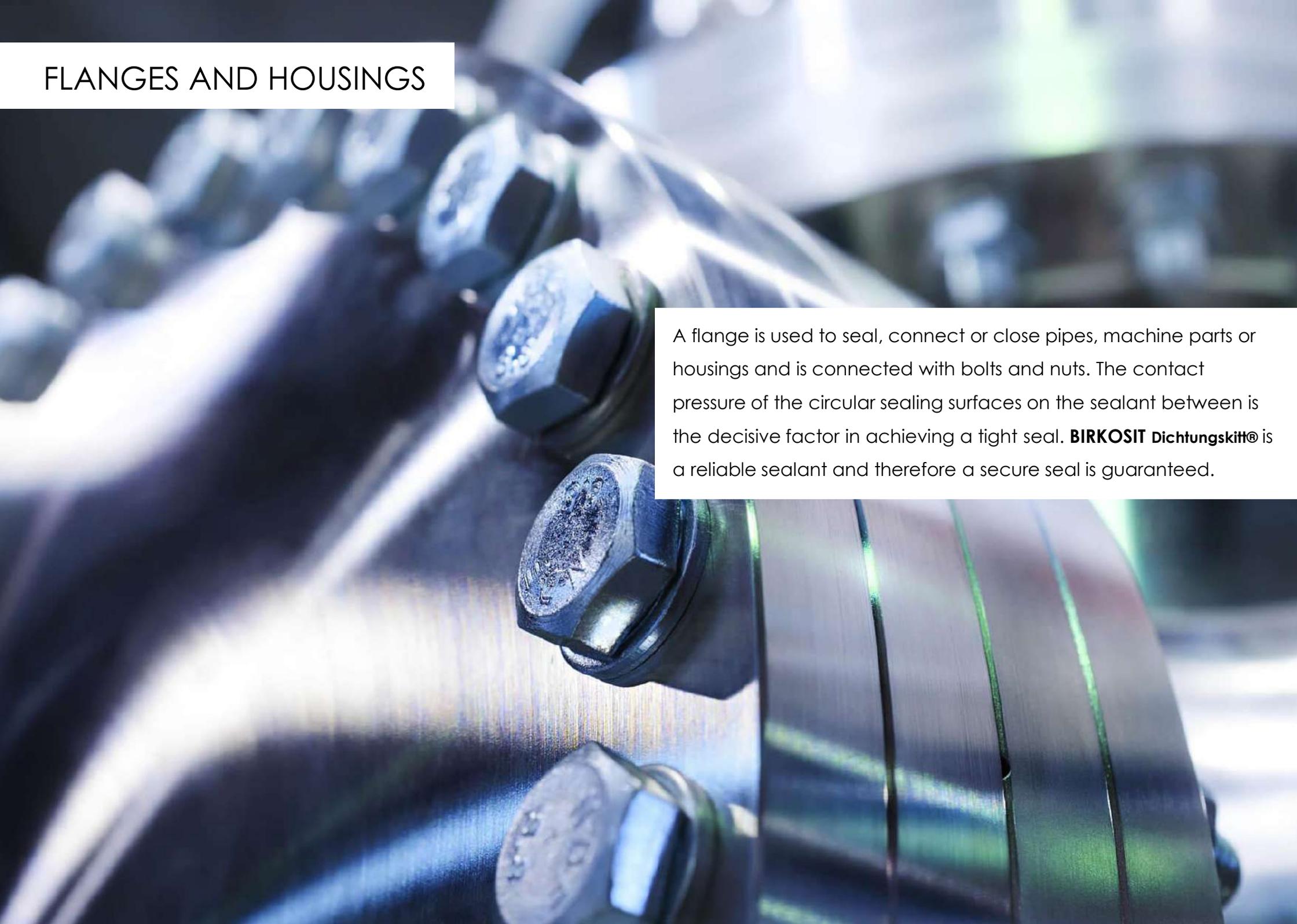
Pumps can be used to transport liquids, solid-liquid mixtures and compounds with the consistency of paste and to build up pressure. Pumps differ according to their function and design. **BIRKOSIT Dichtungskitt®** can basically be used in standard pumps, displacement pumps and jet pumps of all sizes.

# TRANSMISSIONS



Mechanical, electronic and hydraulic gear units are found in machines and systems where they are used to transmit/convert movements/forces. Properly sealed housings prevent dust/sand from getting in and oil from leaking out. This is important for safe and reliable operation.

## FLANGES AND HOUSINGS

A close-up photograph of a metal flange assembly. The image shows several hexagonal bolts and nuts arranged in a circular pattern on a metallic surface. The lighting is dramatic, with strong highlights and deep shadows, emphasizing the textures of the metal and the industrial nature of the components. The background is blurred, focusing attention on the foreground bolts.

A flange is used to seal, connect or close pipes, machine parts or housings and is connected with bolts and nuts. The contact pressure of the circular sealing surfaces on the sealant between is the decisive factor in achieving a tight seal. **BIRKOSIT Dichtungskitt®** is a reliable sealant and therefore a secure seal is guaranteed.

# ADVANTAGES AT A GLANCE

- **BIRKOSIT Dichtungskitt®** meets all the requirements in terms of pressure resistance, temperature resistance, reliability, permanent elasticity, fluid resistance and ease of use.
- **BIRKOSIT Dichtungskitt®** has an exceptional ability to withstand the effects of extreme temperatures.
- **BIRKOSIT Dichtungskitt®** can be easily and quickly cleaned from the sealing areas when the generator is dismantled, saving time during inspections and speeding up the resumption of normal operations.
- **BIRKOSIT Dichtungskitt®** can also be used on surfaces in place of conventional seals, such as O-rings, flat gaskets, rubber seals, paper gaskets, asbestos seals, graphite seals and metal gaskets, or it can be used to reinforce seals with solid materials.
- With the help of the O-ring and **BIRKOSIT Dichtungskitt®** the sealing ring can be mounted with a radial inward bias against the radial sealing surface on the inside.
- Due to the pressure applied to this surface, **BIRKOSIT Dichtungskitt®** can allow for the pressure difference of the sealing ring by means of homogeneous surface pressure.

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