



Compressors are key components in production systems.

As such, the requirements for safety and availability are correspondingly high. Any unforeseen machine failure can quickly cause immense economic damage. Long-term analyses show that less than 4% of all machine malfunctions can be attributed to problems with compressor seals. Impurities through contaminated process or seal supply gas as well as penetrating lube oil are the number one cause of damage. Anyone who operates compressors and has to contend with contamination must invest an enormous amount of resources in damage prevention and, as a rule, in repairing damage. Still, there remains a permanent risk of failure and generally unacceptable short seal operating periods.

Even small amounts of impurities in the process or supply gas or lube oil components are sufficient to negatively influence the safe and reliable function of mechanical seals. The consequences of contamination are often visible as contact marks on the seal faces or as problems in torque synchronization. This inevitably shortens the operating period of a mechanical seal. This does not have to be the case!

Sustainability Board

EagleBurgmann continuously minimizes the impact of its own production processes (footprint) on the environment. At the same time, we improve sustainability for our customers (handprint) with innovative and reliable products.

Our Robust Technology solutions specifically excel in the following

Emissions

- Leakage optimization (RoTechSeal) and thus reduction of environmentally harmful emissions

Energy

- Reduced energy consumption, among other things due to lower nitrogen consumption (CobaSeal)

Waste

- The solutions are of high quality, enabling long operating periods and increased lifetime. When servicing is required, the products can be repaired and only defective parts are replaced.

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EagleBurgmann is one of the internationally leading companies for industrial sealing technology. Our products are used everywhere where safety and reliability are important: in the oil and gas industry, refining technology, the petrochemical, chemical and pharmaceutical industries, food processing, power, water, mining, pulp & paper, aerospace and many other spheres. Every day, more than 5,500 employees contribute their ideas, solutions and commitment towards ensuring that customers all over the world can rely on our seals. Our modular TotalSealCare service underlines our strong customer orientation and offers tailor-made services for every application.

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EagleBurgmann
Rely on excellence

a member of **EKK** and **FREUDENBERG**

Powerful. Reliable. Dirt repellent.

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High-end trio for difficult operating conditions



✓ **Safe protection**

✓ **Customized safety**

A mechanical seal's nightmare: Impurities

EagleBurgmann has developed innovative products that cope excellently with contamination: RoTechSeal, RoTechBooster, CobraSeal.

This represents a technically reliable and economically attractive high-end solution trio to combat all types of contamination in compressor operation. And thus providing more process reliability and lower operating costs.

RoTechSeal

EagleBurgmann RoTechSeal – Proven design, economical and efficient against contamination through supply gas.

Supply gas contaminated with liquids or dirt particles is one of the greatest challenges for gas-lubricated mechanical seals. The EagleBurgmann RoTechSeal is a seal that is designed individually for the specific application. The sum of design features, engineering know-how and special performance tests results in a robust and technically optimized solution that delivers what it promises!

Features

- Integrated gas-liquid separation "Smart Labyrinth"
- Extreme robustness due to DiamondFace coating
- Self-cleaning 3D gas grooves
- High-performance torque transmission
- Dirt-repellent dynamic sealing element
- Leakage optimization

Benefits and advantages

- Increased reliability**
- Increased lifetime of dry gas seals
 - No more unplanned seal related compressor shut-downs
 - Reduced service costs

Supply gas

- Dry and clean buffer gas flushing protects the mechanical seal from contamination. Insufficiently dried and filtered gas flushes dirt particles into the seal.

Process gas

- Process gas contaminated with dirt particles can enter the seal, especially when the compressor is at a standstill.

Lube oil

- Lube oil seals protect the mechanical seals from being penetrated by lube oil.

RoTechBooster

The technically best and economically optimal solution to keep a gas-lubricated mechanical seal reliably clean when the compressor is at a pressurized standstill. The compact module generates a continuous, stable gas flow for flushing the seal faces and secondary sealing elements.



Benefits and advantages

Increased reliability

- Increased lifetime of dry gas seals
- No more unplanned seal related compressor shut-downs

CobraSeal

Bearing sealings are an essential part of centrifugal compressors. They protect the mechanical seals from contamination through lube oil. The CobraSeal is particularly characterized by its coaxial and robust design and extremely low seal gas consumption.

Best protection in emergencies

Safety is yet another feature of the CobraSeal. If the gas seal fails during an emergency, the robust design and small sealing gap will prevent process gas from penetrating the bearing housing.

Benefits and advantages

Increased reliability

- No process gas leakage to bearings in case of seal failure

Reduced costs

- No more unplanned compressor shut-downs due to lube oil migration
- Up to 90 % reduction on nitrogen can save more than 50,000 € per compressor and year compared with labyrinths

