



**Your Partner for
Reliable Performance of Compressors**





We supply customers in the following industries:

- Process Industry
 - Refining and oil production
 - Petrochemical industry
 - Chemical industry

- Natural Gas Industry
 - Gas gathering
 - Gas transportation
 - Gas storage
 - Gas re-injection
 - CNG
 - LNG

- PET bottle blowing

- Industrial Air

- Technical Gases: (Ar, C₂H₂, CO₂, He, H₂, N₂, N₂O, O₂, etc.)

- Industrial Refrigeration

- Automotive

- Railway

- Marine



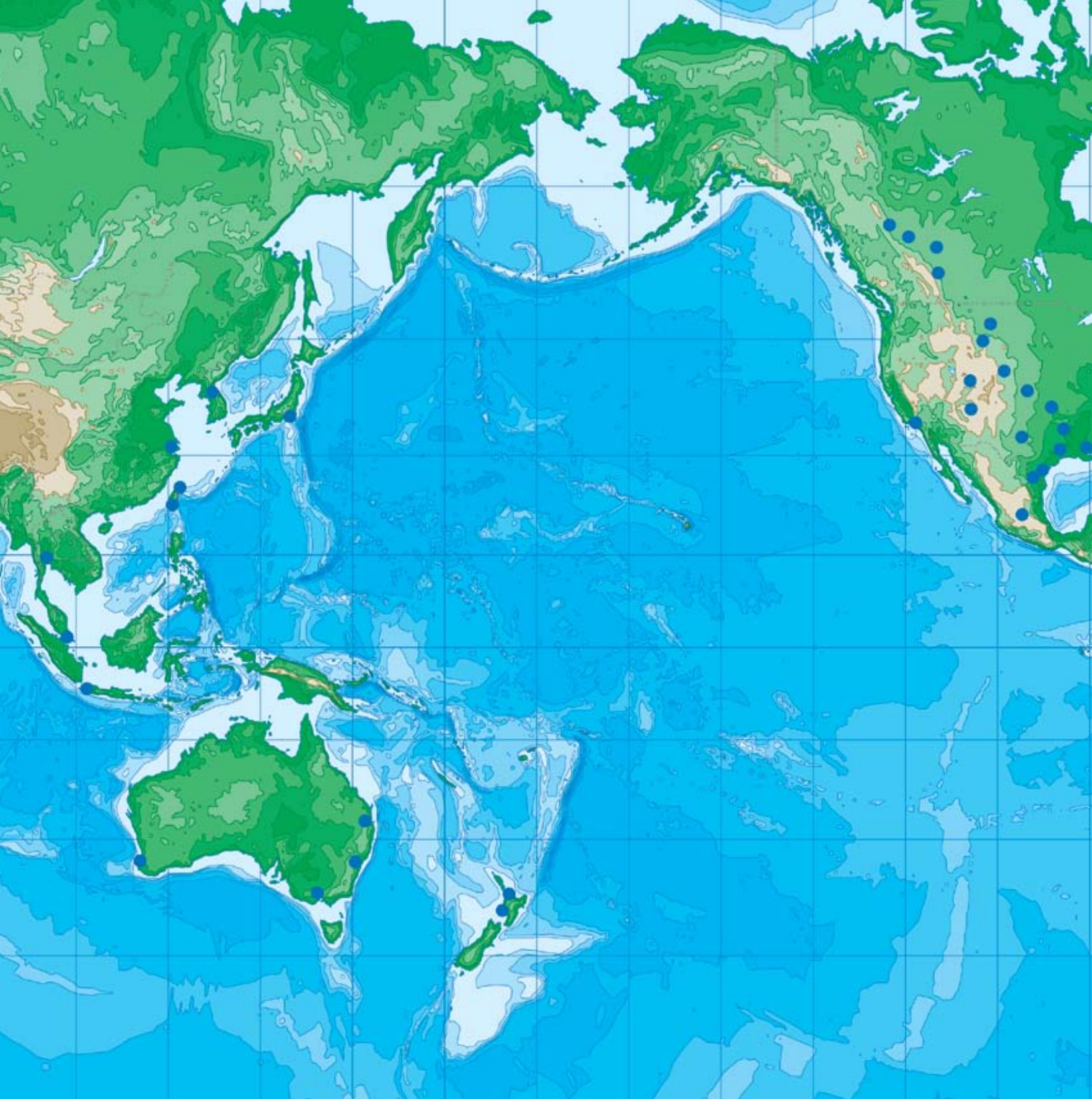
Reliability, efficiency and economy are decisive factors in compressor operation. The use of high-grade components and professional servicing of compressors is indispensable and ensures reliable, efficient, and lasting operation for both the compressors and the plants in which they operate. We measure our performance at HOERBIGER Compression Technology based on how effectively we contribute to the success of our customers.

As the world's leading manufacturer of valves, controls and sealing systems for reciprocating compressors, HOERBIGER Compression Technology is a supplier of outstanding products and services for manufacturers and operators of reciprocating and screw compressors.

Our fully integrated product and service concept is consistently focused on compressor reliability and economy.

This concept is based upon our proven approach to problem-solving for compressor components and systems, our many years of experience in materials, and our ability to offer customized and reliability-related services to meet our customers' specific needs. By employing standardized core methods in development, engineering, manufacturing, and servicing we guarantee consistent quality.

Therefore we are your partner for the reliable performance of your compressors. Throughout the world. Our constantly expanding global company network ensures that we are always near you.



Always near you – throughout the world



At more than 70 production and service facilities, backed by a staff of 2,500, HOERBIGER Compression Technology provides reliable and economic operation of your compressors.

A highly organized exchange of technological experience and know-how within our organization guarantees our ability to deliver this knowledge anywhere throughout the world.

Global expertise for constantly changing requirements





With his groundbreaking invention of the low-mass, frictionless steel plate valve in 1895, Hanns Hörbiger of Austria set a landmark in compression technology history, opening up totally new opportunities for the industry.

HOERBIGER has maintained this innovative strength throughout its history. Even a century later, intensive research and development, meticulous engineering and design, the use of high-quality proprietary materials, along with cutting-edge manufacturing technologies and stringent quality management, continue to form the basis of our products.

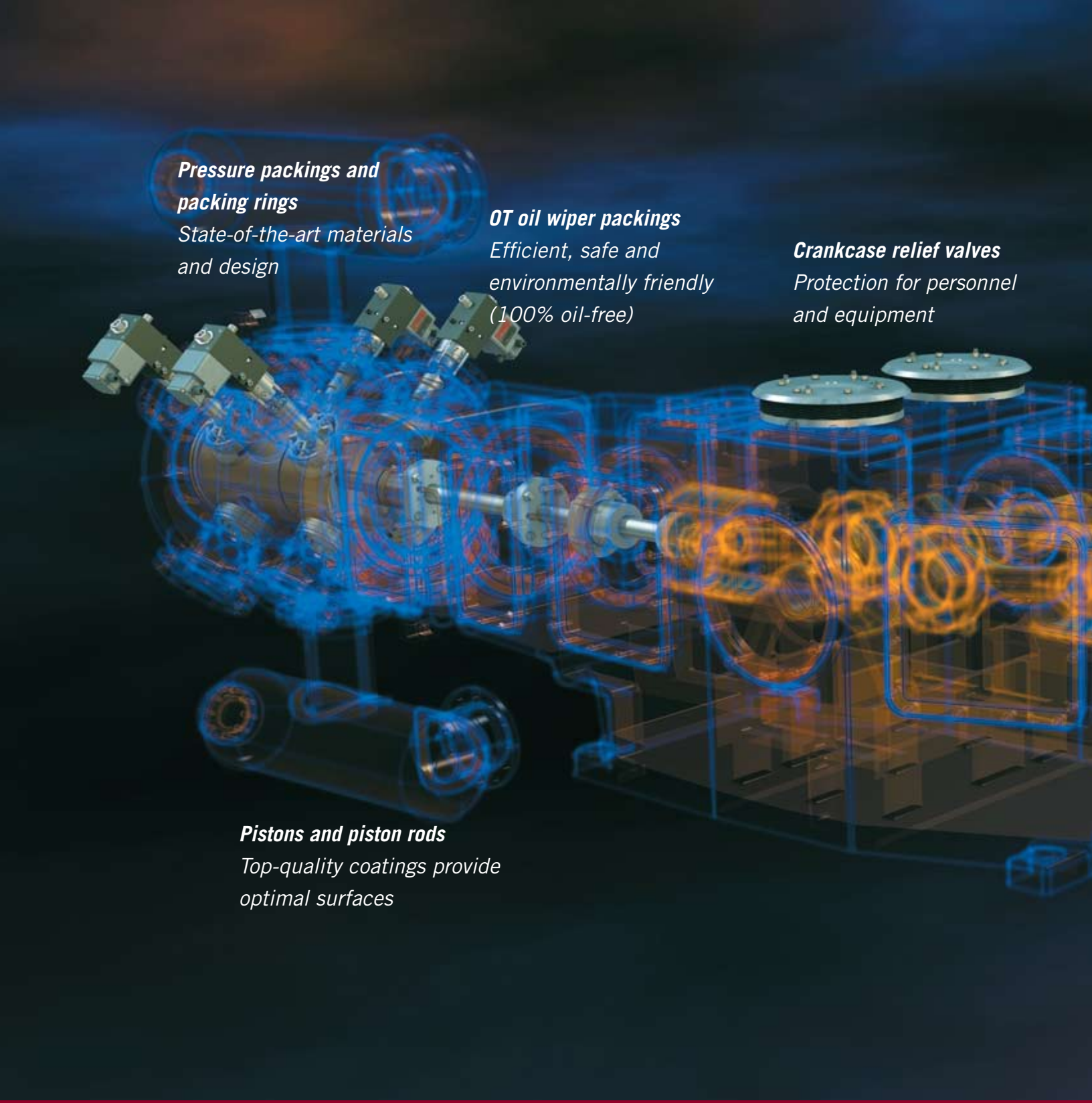
Engineered solution for every application

We use this specialized expertise together with standardized quality procedures for order processing to develop engineered solutions for both standard applications and special customer requirements.

Customized maintenance concepts

To ensure reliable, efficient and environmentally-friendly compressor operation in the long term, we also offer our customers fast, dependable, and flexible reliability-related maintenance and optimization of their reciprocating and screw compressors.

Throughout the world.



Pressure packings and packing rings

State-of-the-art materials and design

OT oil wiper packings

Efficient, safe and environmentally friendly (100% oil-free)

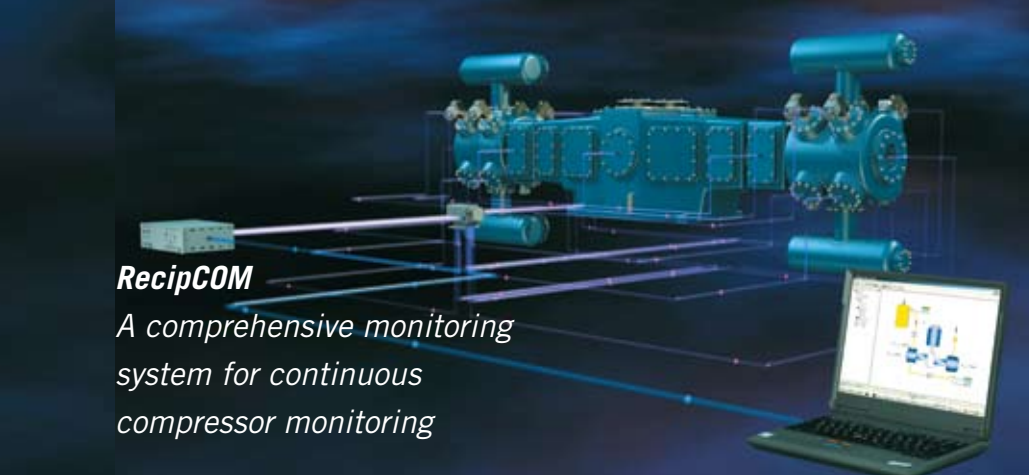
Crankcase relief valves

Protection for personnel and equipment

Pistons and piston rods

Top-quality coatings provide optimal surfaces

Our products for reliable performance of compressors



RecipCOM

A comprehensive monitoring system for continuous compressor monitoring



HydroCOM

The high-tech system for stepless compressor control



Cylinder rings

For all compressor designs and operating conditions

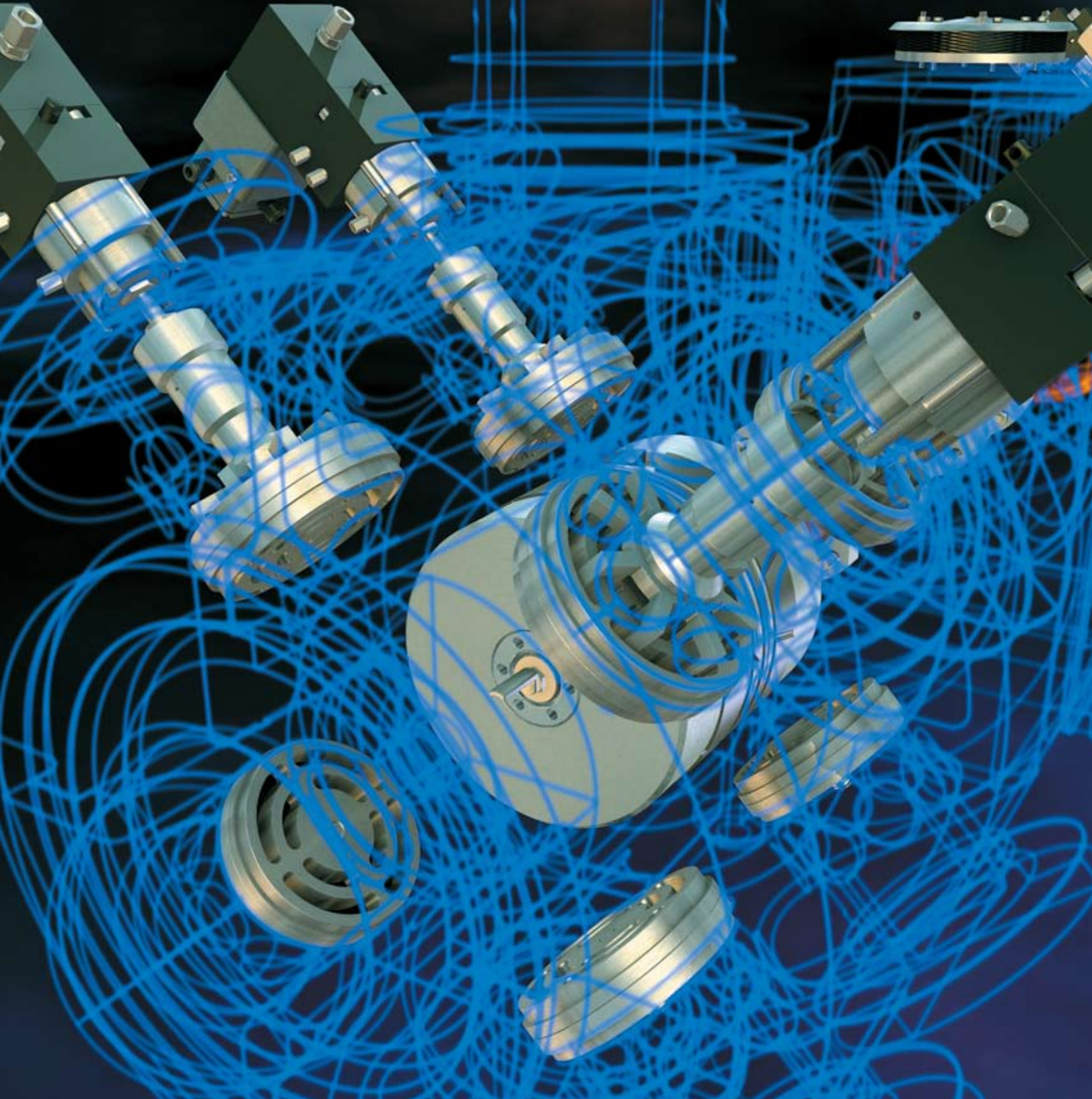


Cylinder liners

For optimal guiding of pistons

Compressor Valves

The heart of every compressor



**HOERBIGER compressor valves –
engineered for every application**



Valves are the components that are subjected to the heaviest loads in compressors and are vital for their efficiency. Valves must operate under continuously changing pressure loads, frequently under difficult operating conditions. This is why HOERBIGER valves are not simply components, but rather carefully engineered solutions, manufactured for maximum reliability and service life to ensure efficient performance and cost-effectiveness.

HOERBIGER valves are available for the entire range of often highly sophisticated industrial applications and equipment where reciprocating compressors are used. These include areas such as refineries, the chemical and petrochemical industries, natural gas production and storage, large-area gas supply, production of industrial and high-purity gases, PET applications, breweries, trucking, railroad, and shipping industries, and the entire area of industrial air supply and cooling.

HOERBIGER compressor valves provide consistent and trouble-free service everywhere, often over the course of many years.

We have the right valve for every application

Our engineers can select the optimum system design from a comprehensive range of valve designs, such as:

- Plate valves
- Ring valves
- Poppet valves
- Concentric valves
- Reed valves

and the appropriate

- unloading systems
- unloaders
- plug unloaders
- actuators

to complete our range of valve products.

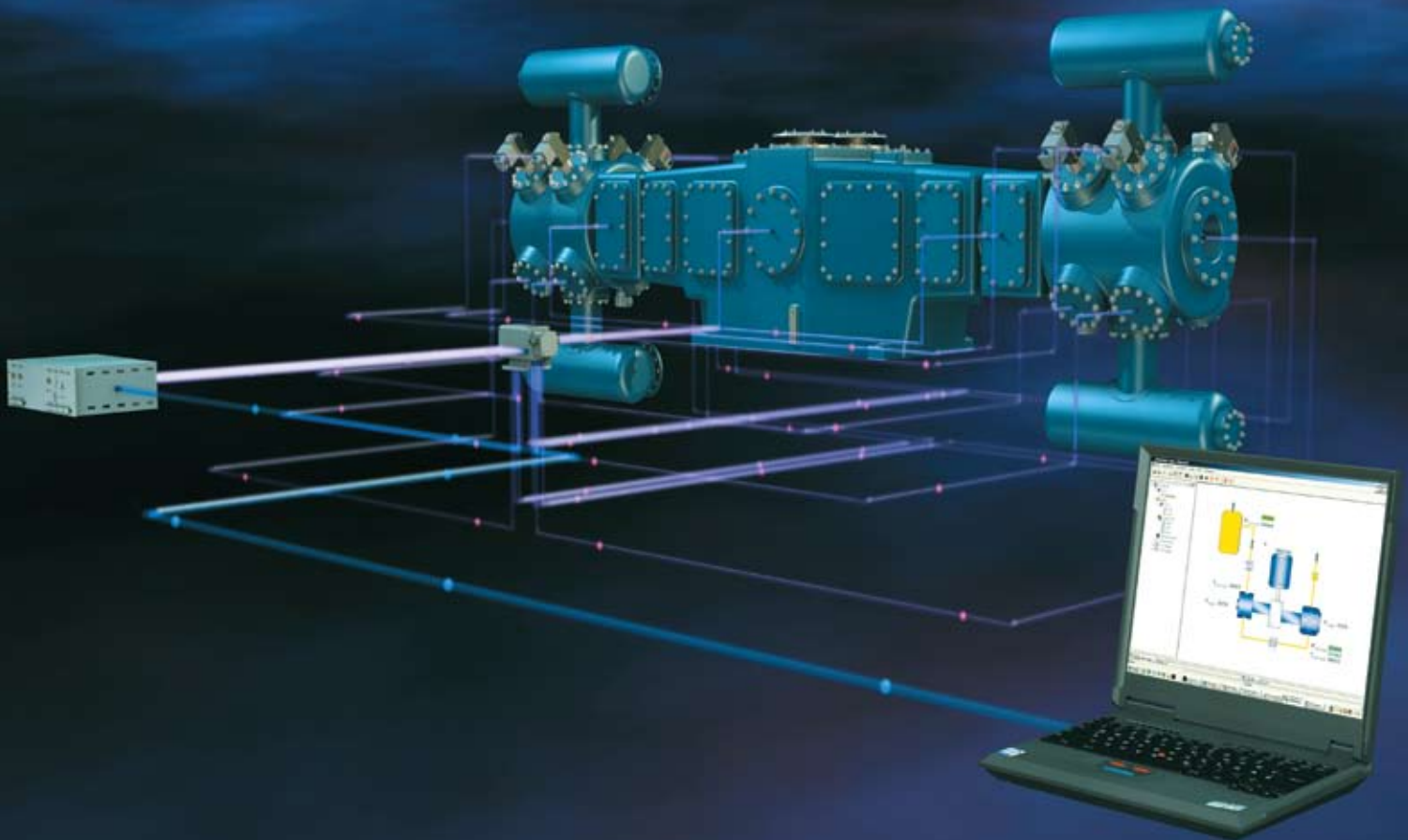
Stepless control and monitoring: The key to economic and reliable performance of reciprocating compressors



Efficient flow rate control is essential in many reciprocating compressor applications. However, most of the devices on the market are slow, inaccurate, and energy-inefficient. With its smart control system HydroCOM, HOERBIGER impressively demonstrates how state-of-the-art electronics, combined with profound compressor process knowledge, simplifies compressor operations and makes them more cost-effective.

HydroCOM, the most advanced and efficient system for stepless control of reciprocating compressors, offers a number of benefits:

- Maximum energy savings, because only the quantity of gas required is compressed
- Stepless control throughout most of the output range
- Maximum control dynamics through extremely rapid and precise actuators
- Complete automation via interfaces to a PCS or process controller
- Integration of essential elements to form the basis for continuous compressor monitoring



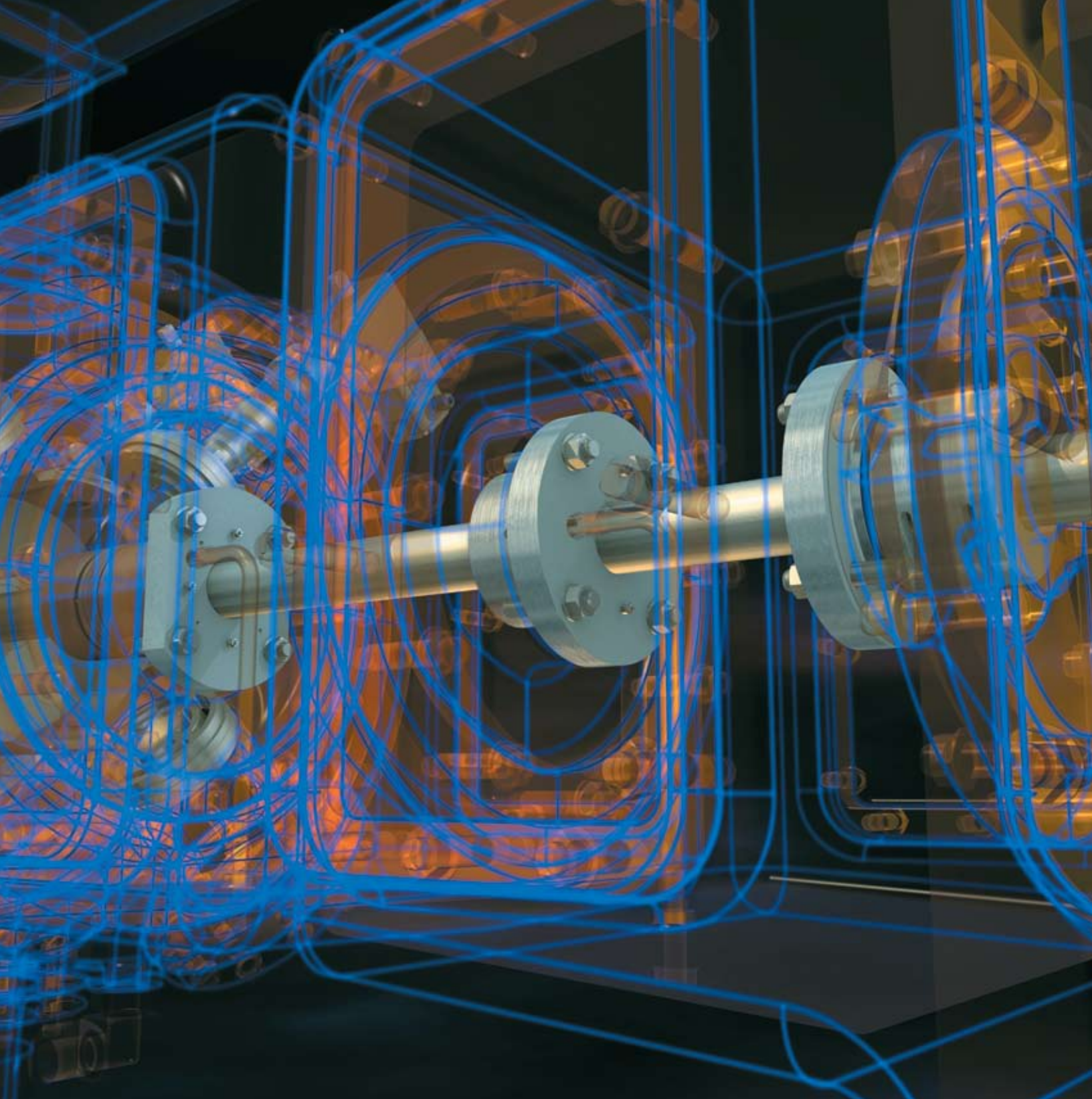
Compressor monitoring with HOERBIGER

In many industries, economical or technical process requirements force operators to rely on trouble-free operation of their reciprocating compressors. This means that operators must be continuously informed regarding the operational status of valves, rider and piston rings, packings, controls, crosshead/ piston connections and process parameters.

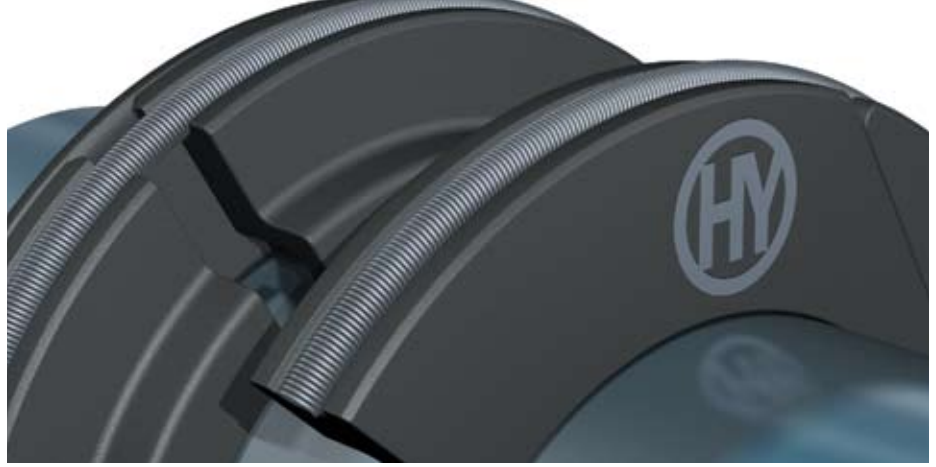
With the ROD Position Analyzer and RecipCOM, the modular online system for continuous condition monitoring, a compressor is ideally equipped for condition based maintenance.

Use HOERBIGER's stepless control and monitoring system RecipCOM to:

- increase reliability
- reduce operating costs, and
- improve compressor productivity.



Sealing technologies for reciprocating compressors – durable and reliable



As with valves, sealing systems are also key components in reciprocating compressor service life. This makes them critical elements for the reliability and availability of the entire system.

HOERBIGER can offer the right sealing technology, regardless of whether it involves lubricated or non-lubricated operation, dry or wet, chemically aggressive or inert gases, high pressure or low pressure.

The key to smooth compressor operation lies in the correct combination of materials and design for the packing and cylinder rings, perfectly adapted to the compressor's construction and operating conditions. As a result of the continuous vertical integration of our HY-materials, which we develop and manufacture in-house, and which have proven themselves in numerous applications around the world, we ensure the highest quality standards throughout the entire manufacturing process for these critical key components.

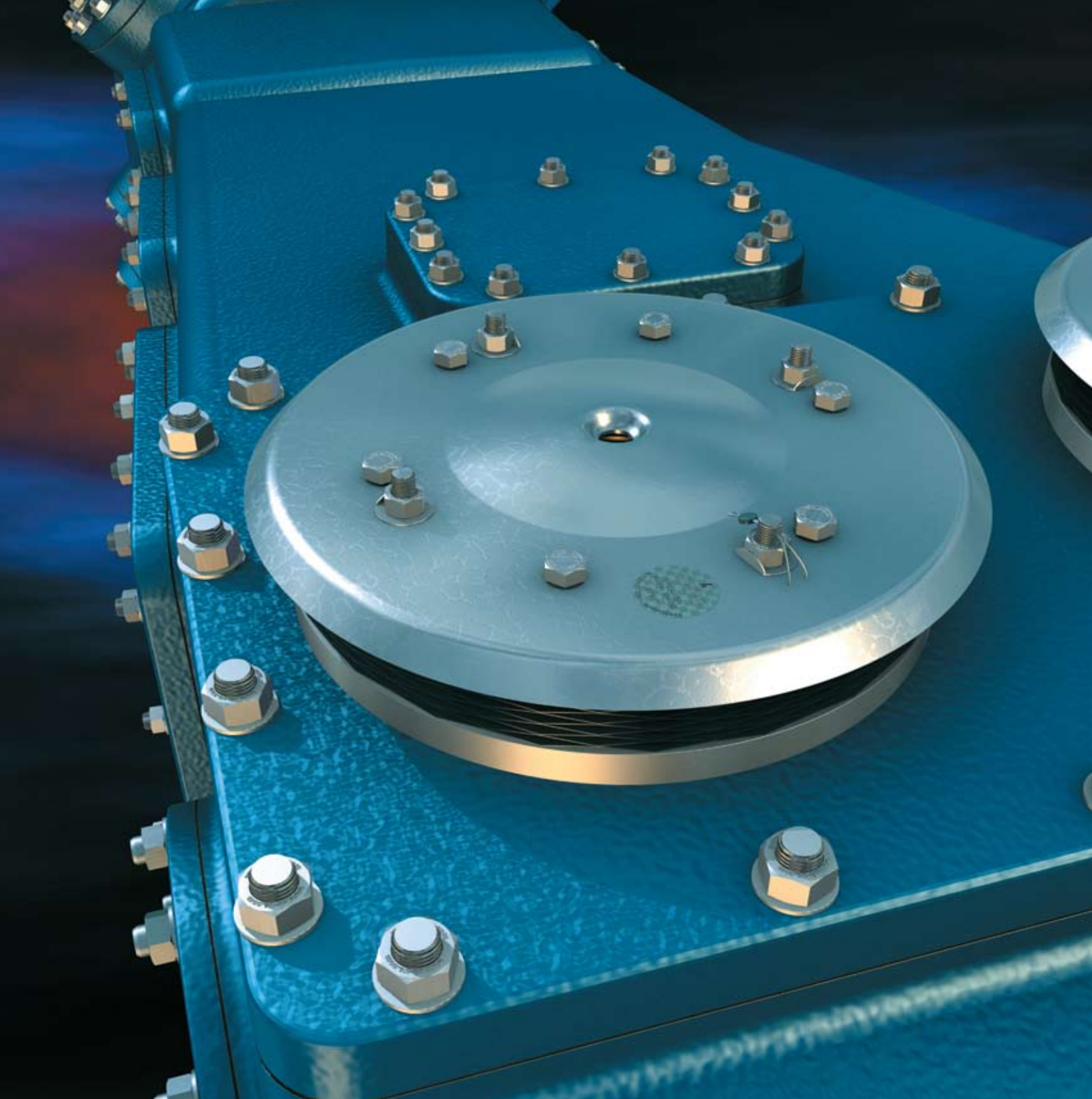
In HOERBIGER's research laboratories, our engineers are developing and testing continuously improved materials and product designs for operation under the widest variety of operating conditions.

In addition to creating quality products for standard applications, they also create customized sealing systems for highly critical applications.

With innovative solutions for old problems in the compression industry, such as 100% tight OT oil wiper packings, pressure balancing BOT packing rings, or heat conducting Thermosleeve pressure packing, HOERBIGER proves its leading role in the design of these key components.

We have the right rings and packings for your compressors:

- Packing rings
 - BOT, the pressure balancing ring pair
 - Packing rings for standard applications
- Cylinder rings
 - Piston rings
 - Rider rings
- Oil wiper rings
 - Oil wiper rings for standard applications
 - OT oil wiper rings
- Pressure packings
 - Water-cooled packing (API 618 compliant)
 - Thermosleeve packing, the heat conducting pressure packing
- Intermediate packing
- Oil wiper packing



HOERBIGER relief valves and check valves – protection for personnel and equipment

HOERBIGER relief valves:

In diesel and gas engines, compressors, drive units and silos, in short wherever oil mist or gas mixtures are generated, or where dusty media are conveyed and stored, pressure buildup can result.

HOERBIGER relief valves offer secure protection for personnel and equipment. Owing to their low mass, the valve responds extremely quickly, opening with very low pressure differences, and then closing tight again for uninterrupted service.

HOERBIGER relief valves are thus approved for pressure relief in enclosed spaces, and have proven successful in balancing excess pressure or low pressure conditions.

HOERBIGER relief valves are designed, manufactured and tested in accordance with the stringent provisions of the relevant classification societies.

HOERBIGER check valves:

Rapid-response insurance against flow reversal

HOERBIGER check valves offer effective protection against gas flow reversal in processing facilities (e.g. after compressors) and in pipelines, for continuous and especially for pulsating flows. The unique reaction speed of HOERBIGER check valves is due to the low-mass, frictionless guided valve plate. The use of special materials plus high-quality manufacturing ensure a high level of operational dependability.

HOERBIGER check valves stand for:

- long service life, even in pulsating flows
- perfect performance, regardless of where they are installed
- minimum pressure loss



Customized services around the compressor



What is the best way to increase system availability? How can equipment reliability be increased? Can operating and maintenance costs be lowered and downtime reduced? Can productivity be improved?

These are all questions and challenges that are faced on a daily basis by plant operators in the widest variety of industries. High productivity and success in the market depend on trouble-free, economic operation in your facilities.

At HOERBIGER, we are ready to take on these challenges. We provide a complete range of reliability-related maintenance services for your reciprocating and screw compressors to give you the best possible support in accomplishing your goals.

Drawing on our many years of experience in the compressor industry and our in-house engineering expertise for all key components and systems in compressors, we work together with you to develop the right service model according to clearly defined procedures and processes.

Regardless of whether it involves component service, reconditioning a compressor for increased performance, periodic snapshot monitoring, continuous online monitoring, spare parts procurement, or complete inventory management: we are flexible in responding to your needs.

Are you considering regular compressor maintenance to increase the availability and efficiency of entire compressor systems? Are you looking for a complete system installation and professional training for your personnel?

At HOERBIGER you will find a reliable partner, throughout the world – always near you!



Our comprehensive services for reliable performance of compressors





Service, repair, and spare parts supply

of compressor components such as valves, sealing systems, and controls

Compressor optimization

through analysis of compressor operation, design of optimum components and control systems, as well as compressor reconditioning

Compressor service

Inspection, maintenance, and repair of reciprocating and screw compressors (Air End Service)

Performance-related maintenance agreements

The complete package for long-term increases in compressor availability and efficiency

Compressor monitoring

either as periodic snapshot monitoring or with CCM, the continuous online monitoring system

Customer training

Training and information exchange for the joint development of customized concepts

Inventory management

from planning the optimum inventory strategy and replacement parts procurement to a complete inventory management system



The HOERBIGER Group: A company with three highly specialized strategic business units

More than 4,500 employees of the HOERBIGER Group worldwide ensure our quality, efficiency and progress. Every day they provide the proof that our growth and success are based upon an unconditional commitment to meeting the needs of our customers, concentrating on our own core competencies, striving for continuous innovation, and guaranteeing entrepreneurial flexibility.



HOERBIGER Compression Technology is one of the leading manufacturers of valves, controls and sealing systems for reciprocating compressors throughout the world. We also offer customized and reliability-related services for reciprocating and screw compressors.

HOERBIGER Compression Technology thus ensures reliable compressor and systems operations in many industries around the world.



In Automation Technology, HOERBIGER's strength lies in the combination of its expertise in pneumatics, hydraulics, and ability to create individualized niche solutions for automotive manufacturing, medical technology, mechatronics, and specialized segments of mechanical and plant engineering.

HOERBIGER is one of the market leaders in hydraulic convertible top controls for passenger vehicles.



In Drive Technology, our core competence lies in the perfect control of wet-running tribological processes.

With its significant international presence, and as Europe's leading manufacturer of components and optimized systems for passenger and commercial vehicle drive trains, HOERBIGER is highly respected in the automotive and gear industries worldwide.

www.hoerbiger.com



HOERBIGER Compression Technology – Always near you, anywhere in the world

Algeria · Argentina · Australia · Austria · Bolivia · Brasil · Brunei · Canada · Chile · China · Colombia · Croatia · Czech Republic · Ecuador · Egypt · Finland · France
Germany · Greece · Hungary · India · Indonesia · Israel · Italy · Japan · Kuwait · Libya · Lithuania · Malaysia · Mexico · Montenegro · Netherlands · New Zealand
Nigeria · Norway · Oman · Pakistan · Peru · Philippines · Poland · Portugal · Romania · Russia · Saudi Arabia · Serbia · Singapore · Slovakia · South Africa · South
Korea · Spain · Sweden · Switzerland · Syria · Taiwan · Thailand · Turkey · United Arab Emirates · United Kingdom · United States of America · Venezuela · Vietnam