



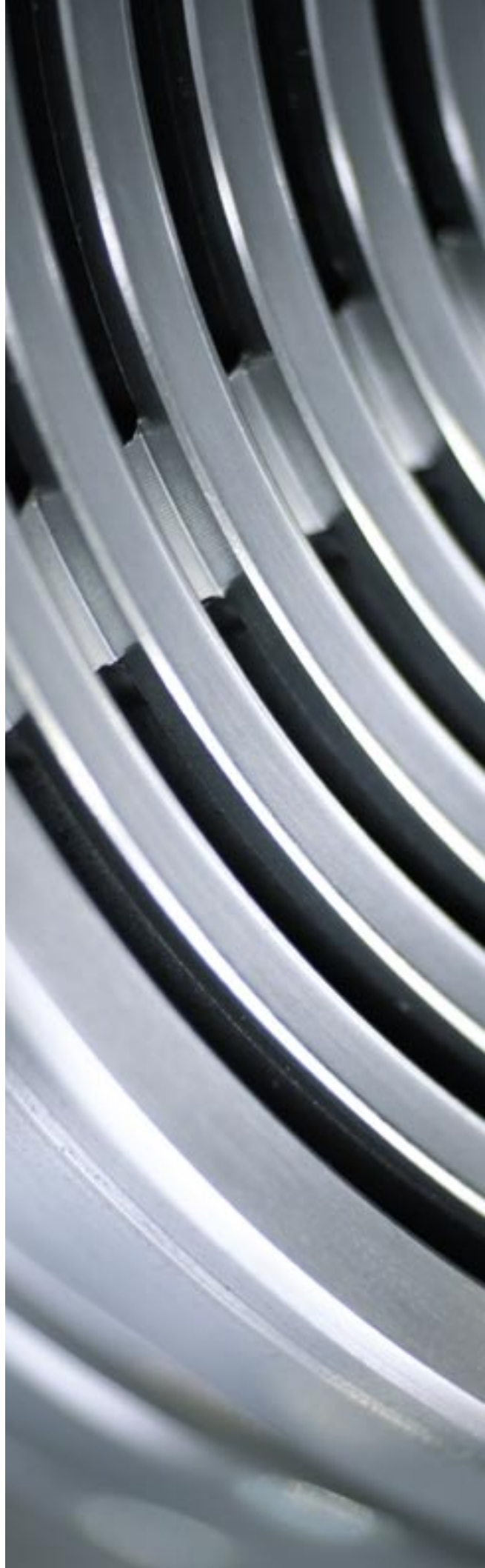
Compressors for a Lifetime



Burckhardt Compression

Burckhardt Compression is one of the world's largest manufacturers of reciprocating compressors. The company is recognized as the only compressor manufacturer of a complete range of Laby®, process gas, and Hyper compressors.

The compressors are engineered and manufactured in the company's own works in Winterthur, Switzerland, and Pune, India. Burckhardt Compression's global sales and service network consists of 10 subsidiaries and over 40 representatives.



It is important to me that Burckhardt Compression is a reliable partner for our customers across the world. With over 160 years of compressor manufacturing experience and the company's current business structure, we have a solid foundation for a long-term future.



Burckhardt Compression will continue to develop and grow in line with the market and the needs of its customers.

I personally share the same values as Burckhardt Compression: honesty and reliability. I am proud of our company's culture and the way in which the employees are committed to our company and its products. Together we want to lay the foundations that will enable Burckhardt Compression to exist independently over the long-term."

Valentin Vogt, CEO, Burckhardt Compression





**“Knowing that ‘my’ compressors
have been installed somewhere
in the world and that I was part of
the development makes me
proud.”**

*Besim Fejzuli, Mechanical Engineer,
Burckhardt Compression AG,
Switzerland*



How Cylinders Became Compressors

The foundations for Burckhardt Compression were laid in 1844 by Franz Burckhardt, who opened a small workshop in Basel. The pioneering era of Swiss mechanical engineering was just beginning to flourish and the young entrepreneur wanted to seize the opportunity. He started by engraving fine cylinders for silk weaving.

But Burckhardt, who called himself “mecanicus”, had higher goals. He soon built the first steam engine and the workshop became a factory. He constructed the first air and vacuum pumps not long after. Forty years later, the company manufactured the first compressor and decided to venture out beyond the Swiss border. The innovative company started selling its products across the world. The first Hyper compressor was sold to the U.S. in 1948.

Burckhardt Compression is Established

The engineering works in Basel were sold to Sulzer in Winterthur at the end of the sixties. Sulzer also had a long compressor manufacturing tradition. The first Laby® was put into operation in 1935. This compressor type with contact-less pistons established itself throughout the fifties and sixties across a large number of industries worldwide. Combining the knowledge and experience of the two companies made a lot of sense. Sulzer-Burckhardt Engineering Works Ltd. was established in 1982.

Continually developing the products remained an important focus of the company. In 1999, the world’s largest Hyper compressor was built. In 2000, all business activities were concentrated in Winterthur. In 2002, the company became independent of Sulzer following a management buyout. Burckhardt Compression AG was born.





“Our great potential is our internationality. No other compressor manufacturer worldwide can draw on a larger pool of know-how than us. This allows us to offer high quality solutions.”

*Jürg Billeter, Purchasing Manager,
Burckhardt Compression AG,
Switzerland*

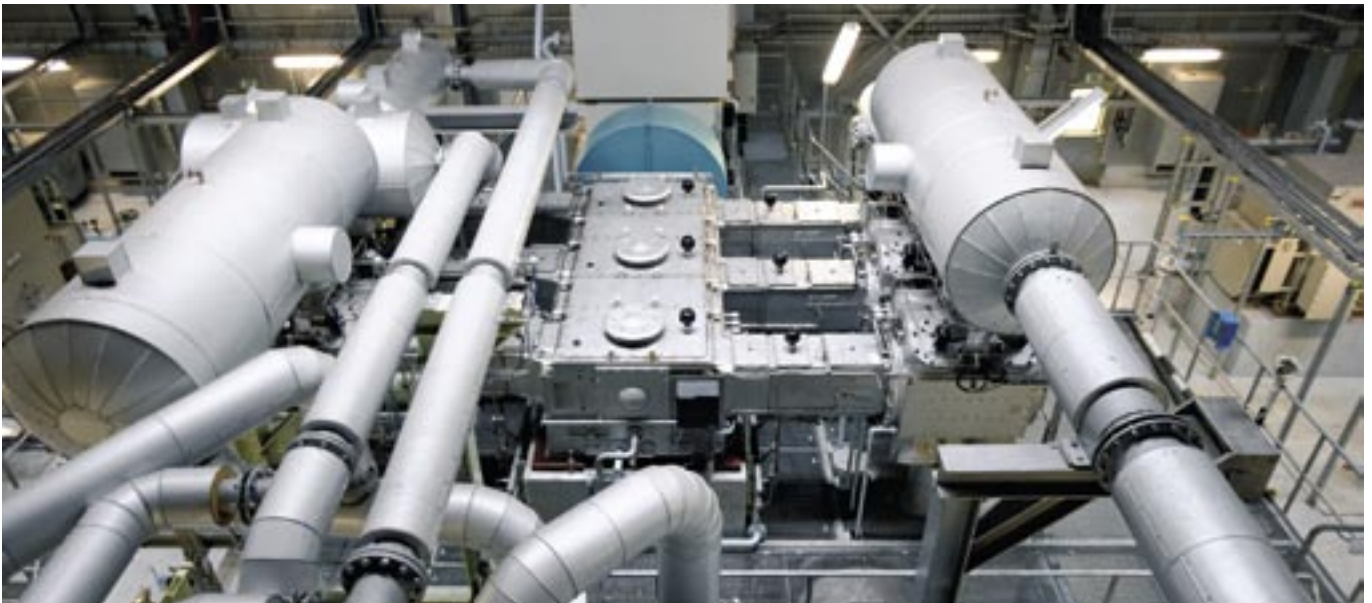


Compressors for Every Customer Requirement

All Burckhardt Compression's compressors are manufactured according to customer specifications. Burckhardt Compression is the only company worldwide to offer a complete range of compressors. This includes contact-less and totally oil-free labyrinth pistons as well as oil-free or lubricated ring-sealed pistons. Burckhardt Compression builds the compressors to be long-lasting and reliable.

Customer orders are dealt with from headquarters, sometimes in cooperation with the subsidiaries. Depending on the specifics of each individual project, the company combines local expertise with the well-founded design and manufacturing experience of the Swiss headquarters.

Extensive know-how is necessary to optimize compressor systems and components and to do the engineering for new applications and processes. The experience of many years as an OEM (Original Equipment Manufacturer) enables Burckhardt Compression to improve the efficiency of customer plants.





“It’s the process of transforming an unmachined part into a completed component that makes all the difference. The fascination lies in the result. And the feeling is even more satisfying when it’s me who has written the program.”

*Abdulla Yildiz, Machine Mechanic,
Burckhardt Compression AG,
Switzerland*

Range of Reciprocating Compressors

Laby® – Labyrinth Piston Compressor

The Laby® compresses industrial, process and boil-off gases. It is well-known for reliability and long service life.

Applications:

- Air-separation plants
- Petrochemical and chemical industries
- Refrigerating plants
- Liquid gas ships
- Land-based liquid gas plants

Many years of operational experience prove that the Laby® is superior to other compressors, e.g. when compressing bone-dry gases and gases containing abrasive impurities.

Process Gas Compressor

The process gas compressor is used to compress hydrogen, hydrocarbon and poisonous gases.

Applications:

- Oil refineries
- Production processes in petrochemical plants
- Chemical industry
- Natural gas transport and storage
- Offshore plants
- Power generation
- Wet oxidation plants

The versatile and reliable process gas compressor is built according to API 618 specifications.

Hyper Compressor

The Hyper compressor is designed for very high pressures required for low density polyethylene plants.

Burckhardt Compression has built more than half of all Hyper compressors ever delivered worldwide.

Absolutely oil-free compression

Power	up to 2200 kW
Suction volume	up to 11'000 m ³ /h
Discharge pressure	up to 300 bar
Suction temperature	down to minus 160 °C

Lubricated or non-lubricated

Horizontal or vertical

Power	up to 9700 kW
Suction volume	up to 100'000 m ³ /h
Discharge pressure	up to 1000 bar

Power	up to 35'000 kW
Suction volume	up to 100'000 m ³ /h
Discharge pressure	up to 3500 bar





“Whether it’s support on how to assemble a compressor, advice on choosing the right model for a particular application or information about valves, we are here to point our customers in the right direction.”

Soni Avinash, Assistant Manager Marketing, Burckhardt Compression (India) Pvt. Ltd., India

Customized Service

Good and long-lasting customer relations are very important to Burckhardt Compression. The worldwide service network of the company guarantees a comprehensive customer support service. The fast and reliable maintenance and servicing is set up to ensure maximum efficiency and durability of the compressor and its components.

Once the compressors have been installed and put into operation, customers can choose between a number of servicing contracts designed to cover the entire life cycle of the plant.

Burckhardt Compression services and replaces components for all compressors, its own and others. Specialists of the company analyse the condition of a compressor and completely refurbish existing plant systems as required.



Burckhardt Compression has been developing and manufacturing compressor valves for more than 120 years. To ensure that its customers' systems work at peak performance, Burckhardt Compression offers three types of valves: the Burckhardt Plate Valve™, the Burckhardt Poppet Valve™ and Manley® Valves, licensed by Burckhardt Compression.

The servicing department is ready 24 hours a day to respond to emergencies.





“I use component assembly drawings to design parts such as cylinders that don’t even exist yet. I make sure that they are really in line with the customer’s specifications and that they can be machined economically.”

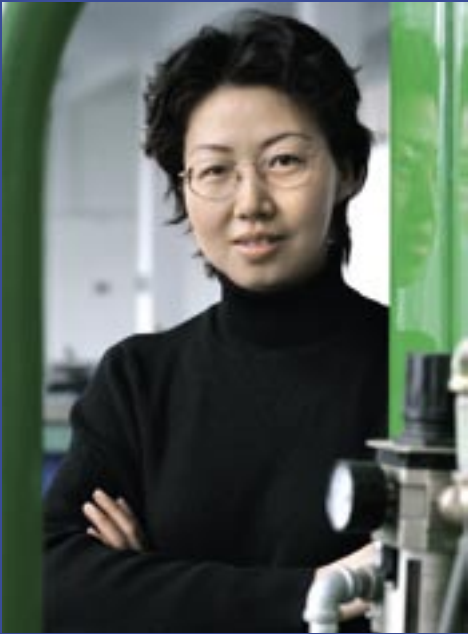
*Fabian von Flüe, Design Engineer,
Burckhardt Compression AG,
Switzerland*

Compressor Applications

Burckhardt Compression's compressors are used where demanding applications require a reliable and high quality machine. High pressures, low temperatures, toxic, dirty or clean gases are typical challenges for the company's compressors.







“I love working together with our customers. They never get tired of telling me how important it is to be able to rely on the engineering expertise of Burckhardt Compression.”

*He Jiang, Head of
Customer Support Service,
Burckhardt Compression
(Shanghai) Co. Ltd., China*

HPI (Hydrocarbon Processing Industry)

Compressors of Burckhardt Compression are used in oil-refining and petrochemical plants for producing fuel, lubricants, plastics or specialties for the chemical industry.



Gas Transport and Storage

Compressors make it possible to transport natural gas and other gases in pipelines and on ships. They are also used for storing low-temperature liquid gases in land-based installations.

Industrial Gases

Compressors are used in plants for compressing industrial gases such as atmospheric gases, noble gases and some process gases.





“I believe that good relationships with customers based on direct contact are very important. Long-term relationships have to be nurtured. It’s not so much the name of a company, but its products that count.”

Sergio Vega, Service Center and Field Services, Burckhardt Compression (España) S.A., Spain



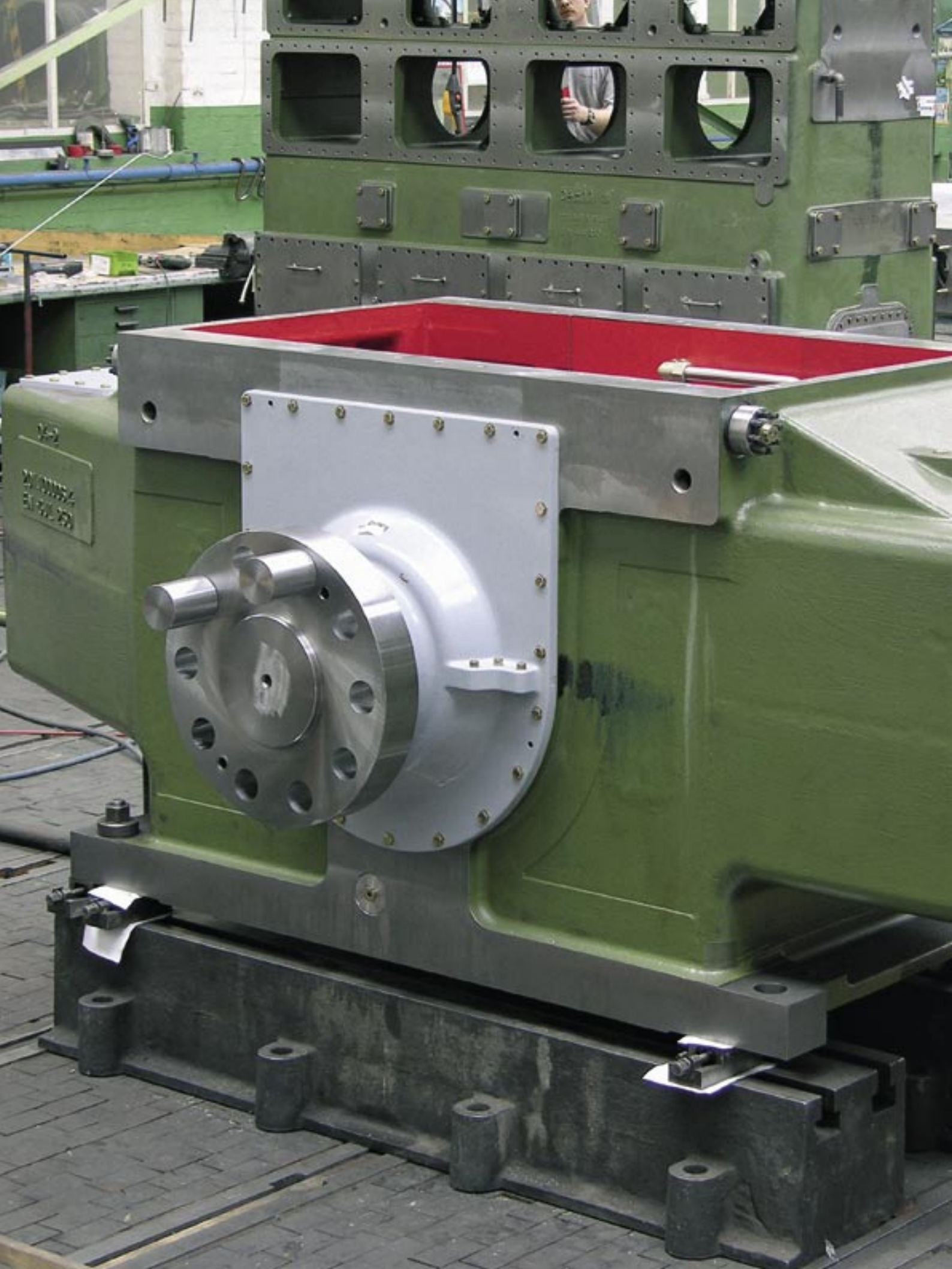
Swiss Quality

Burckhardt Compression guarantees expertise, quality and safety. The company is an OEM with its own quality management system, which is certified according to ISO 9001:2000 standards.

Internationally leading Swiss precision and a determination to innovate continually are the cornerstones of the company's principles. The workforce is made up of well-educated experts and specialists who are ready to advise and help customers whenever needed.

When it comes to quality, Burckhardt Compression is committed to supplying products and services at competitive prices that meet high customer demands.







**“It’s Burckhardt Compression’s
drive that impresses me most.
We are continually looking for
ways to improve and progress.”**

*Sylvia Larcher, Assistant of
Managing Director, Burckhardt
Compression (France) S.A.S.,
France*



Burckhardt Compression Compressors Have the Future Built-in

Through research and development activities and commitment to continually further develop compressors and components, Burckhardt Compression has established an excellent reputation. Lectures and technical reports on investigations, test results and recommendations about how these can be implemented are well-known in the compressor industry. Burckhardt Compression is the market leader in oil-free compression.

A number of renowned experts are part of Burckhardt Compression's research and development team. Each and every one of them is an experienced specialist in his field. The focus lies in thermodynamic design of compressors, valve technology, tribology technology and finite element analyses.

The latest valve technologies are tested carefully, before they are installed in the field. Every valve is chosen and manufactured according to customer requirements. This ensures maximum efficiency and a long operating life.

Finite element analyses encompass static and dynamics, optimization of assembly modules and components, temperature field and flow calculations (Computational Fluid Dynamics).

The company's own hydrogen test facility enables it to carry out long-term tests, especially for dry-running seals. Through the results gathered from these tests, the reliability and efficiency of customer plants can be improved considerably.

The aim of these activities is to lengthen servicing intervals and to reduce the compressor's life cycle costs.





**“I am genuinely struck by
Burckhardt Compression’s net-
work and the way it works on a
global scale. We take a great
deal of pride from working for
this company.”**

*Akira Itoh, Sales Manager,
Burckhardt Compression (Japan)
Ltd., Japan*

Taking Social Responsibility, Caring for the Environment

Burckhardt Compression has been running an integral health, safety and environmental management system for years.

Health and safety at work are important to the company. Product and data security also have high priority. Regular checks are made to ensure that the company is adhering to the relevant guidelines and that action is taken where necessary.

Burckhardt Compression is aware of its social and environmental responsibilities. The company carries out environmental compatibility tests on a regular basis and has its own environmental monitoring system. Environmental protection is also an issue at product level. Burckhardt Compression builds emission-free compressors.





Burckhardt Compression offers unparalleled expertise and reliability for all reciprocating compressors, components and services. The company is recognized as the global technology leader in the compressor world. As an OEM with over 160 years of experience in developing, engineering and manufacturing compressors, Burckhardt Compression is committed to reliability and quality.



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