

Essentials

Company Portrait



**Summary of
fiscal year 2022**

We create leading compression solutions
for a sustainable energy future.

Burckhardt Compression is the worldwide market leader for reciprocating compressor systems and the only manufacturer and service provider that covers a full range of reciprocating compressor technologies and services. Its customized and standard compressor systems are used in the chemical, petrochemical, gas transport and storage, hydrogen mobility and energy, industrial gas, refinery and gas gathering and processing markets. Since 1844, its highly skilled workforce has crafted superior solutions and set the benchmark in the gas compression industry.



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The history of our company began 179 years ago.

Since then, we serve our customers with optimal gas compression solutions. We continually focus on innovation. Today, we create leading compression solutions for a sustainable energy future.

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Focus

Sustainability sits at the core of our strategy.

We integrate sustainability in everything we do. We made significant advances in transforming the company to serve new markets and develop new growth avenues, especially in hydrogen mobility and energy and for emission reduction services.



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Future

Our growth ambition is building on sustainability and digital transformation.

We accelerate the growth of our digital products and services. We aim to reach 40% of our order intake supporting the energy transition in 2027, and to become net-zero in 2035. We focus on building long-term customer partnerships and on reinforcing our position as employer of choice.

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Facts & Figures

Key facts on fiscal year 2022

The fiscal year 2022 was a very successful year for Burckhardt Compression and confirms that we are on the right path with our strategy. Despite the challenges stemming from the macroeconomic and political environment, we achieved record level financial results.

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Cover:

Burckhardt Compression workshop in Winterthur, Switzerland

From left to right: André Schneider, Head of Assembly;
Veronika Schelling, Hydrogen Mobility & Energy Lead;
Tsering Netsang, Manager Design Master Data;
Photography by Severin Jakob

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Editorial

Dear Readers,

Fiscal year 2022 was very successful for Burckhardt Compression and confirms that we are on the right path with our transformation and growth agenda toward a sustainable energy future. Our profitable growth showcases our resilience amid ongoing market challenges and demonstrates the inherent strength in our market positioning.

We made significant advances in transforming the company to serve new markets and continually focus on innovation to develop new growth avenues, especially in the hydrogen mobility and energy market and in the development of digital solutions.

Sustainability sits at the core of our strategy. With our new Mid-Range Plan 2023–2027, we have defined new ambitions and a new purpose, setting the guiding star for our activities: "We create leading compression solutions for a sustainable energy future."

Our success is the result of our employees' commitment worldwide, and of the trust that our customers give us every day. I would like to thank them warmly.



Fabrice Billard
CEO Burckhardt Compression

Firm

The history of our company began 179 years ago. Since then, we have contributed to major industrial developments and continually evolved to serve our customers with optimal gas compression solutions and services.



From engineering workshop to global market leader

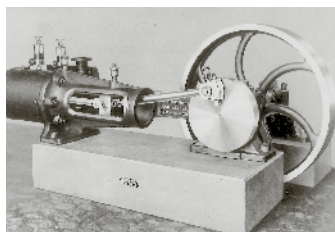
1844

Franz Burckhardt opens an engineering workshop in Basel



1883

Development and sale of the first single-stage, dry-running reciprocating compressor



1890

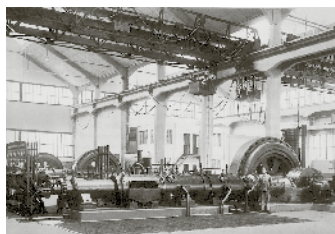
August Burckhardt founds the Burckhardt Maschinenfabrik

1913

Delivery of the first compressor for ammonia synthesis to BASF Ludwigshafen, Germany

1920

Start of fertilizer production using ammonia synthesis compressors

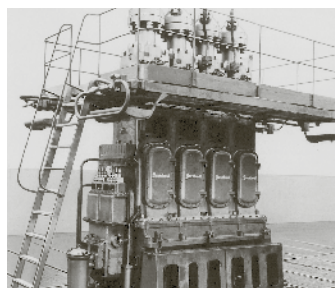


1935

Development and sale of the first Labyrinth Piston Compressor (Laby) for oxygen compression in steel production

1951

Manufacture of low-density polyethylene (LDPE) thermoplastic using Hyper compressors



1969

Acquisition by Sulzer

1971

Transport and storage of natural gas with labyrinth piston compressors

1982

Consolidation of Sulzer's activities in the field of reciprocating compressors to form Maschinenfabrik Sulzer-Burckhardt AG

1999

Consolidation of Basel and Winterthur sites at the Winterthur site

2002

Five members of the management board buy out the business together with a financial investor; name changed to Burckhardt Compression

2006

Stock exchange listing on the SIX Swiss Exchange (IPO), valor BHCN

2013

Laby®-GI compressors are used on LNG tankers

2015/19/22

Acquisition of Arkos Field Services, USA, in two stages; access to a qualified workforce and service centers across the USA; in 2022 merger with Burckhardt Compression US Inc.



2016

New company structure with two divisions, Systems and Services

2016/20

Acquisition of Shenyang Yuanda Compressors, the leading Chinese manufacturer of reciprocating compressor systems, in two stages; proximity to local market, expansion of the product portfolio and direct access to an established local supply chain

2020

Acquisition of the compressor business of The Japan Steel Works JSW to strengthen position in the global market and particularly in Japan

2021

Acquisition of Mark van Schaick in The Netherlands

2021

Market introduction of two compressor ranges for LNG-fueled ships

2021

Launch of high pressure non-lubricated compressor for hydrogen mobility and energy

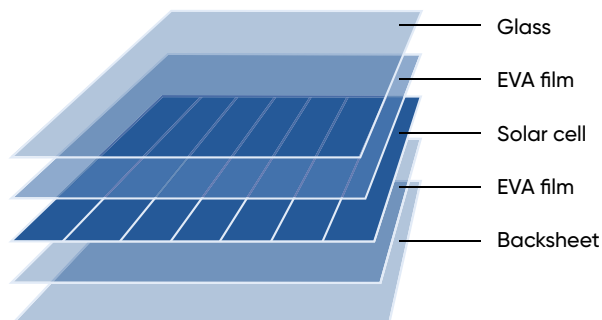
2023

Acquisition and integration of assets and employees of SPAN Maintenance and Service Co. Ltd. in Thailand into the newly founded subsidiary Burckhardt Compression (Thailand) Co. Ltd.

Record orders

for solar-panel-related applications

We received a record number of orders for our Hyper and Booster/Primary Compressors, which are used for low density polyethylene (LDPE)/ethylene-vinyl acetate (EVA) production, mainly due to the growing demand for solar panel production in China and South Korea. Our compressors create the required high pressure for EVA to be produced. EVA is then applied to encapsulate the photovoltaic cells inside the solar panel. In addition, we received a large number of orders for compressors used in the synthesis of polysilicon, which is a core component of the solar cells themselves.



Record order in USA for the hydrogen mobility and energy market

Following a first award of two compressors in March 2022, Joule Processing & Plug Power have again selected Burckhardt Compression to deliver 12 large hydrogen refrigeration compressors for six hydrogen liquefaction plants in the USA. These plants will be able to liquefy a total of 180 tons of hydrogen per day and will enable Plug Power to support its customers and an existing network of 50'000 fuel cells installed mostly in forklift trucks.

Net-zero by 2035

New Mid-Range Plan 2023 to 2027

We communicated our new Mid-Range Plan in November 2022, targeting CHF 1.1 bn in sales and a 12% to 15% operating profit margin in fiscal year 2027. Sustainability now sits at the core of our strategy, with implications on target markets, R&D projects, CAPEX investments, operational KPIs and long-term incentive plans for senior management. This new strategy is a step forward in achieving our new purpose of creating leading compression solutions for a sustainable energy future. We aim, in particular, to achieve 40% of our order intake from applications that support the world's energy transition and to reduce our greenhouse gas emission intensity by 50% (Scope 1 and Scope 2) by fiscal year 2027. Acknowledging the scale and urgency of combating climate change, we have also developed a long-term commitment and roadmap to achieve operational net-zero for our Scope 1 and Scope 2 emissions by 2035.

Going wireless

Cost-effective condition monitoring with PROGNOST®-Wireless

PROGNOST®-Wireless is a new tool in our digital product and services suite that enables customers to expand their fleet of equipment under condition monitoring and predictive maintenance: no more handheld devices, but instead easy-to-handle, cost-effective and reliable measuring of important machine values. The installation of PROGNOST®-Wireless is simple and inexpensive, making it possible for customers to include a larger number of machines in the maintenance strategy, or for installation in hazardous areas.



Celebrating exceptional team performance

To ensure we recognize and celebrate our teams' achievements across the globe that make all our milestones and successes possible, we have launched a global team award program. 36 teams have been nominated, involving over 250 employees from 15 countries. The winning team from China has shown exceptional resilience and performance, delivering services to customers during the height of the Covid-19 pandemic.

250
employees nominated

Record order intake for LNG marine compressors and services

LNG and its transport by ship enable companies and countries to access secure energy sources. Supporting this growing need, Burckhardt Compression received in 2022 a record level of orders for its Laby®-GI compressors and for related services. Thanks to its absence of methane slippages, our compressor solution is unique in the market, and upcoming regulations for CO₂ taxes may further benefit the ME-GI/Laby®-GI solution in the coming years.



"For the first time, our order intake exceeded CHF 1 billion"

Building on the successes of the past, we are continuing our journey to a sustainable energy future.

You took over as CEO of Burckhardt Compression one year ago. Looking back, what were your personal highlights during this time?

I have had the chance to meet with many employees and managers around the globe during the last 12 months. Thanks to their dedication, we successfully delivered the Mid-Range Plan 2022 in terms of financials, we strengthened our position as a global leader of compression solutions and, at the same time, we accelerated our sustainability journey. The next highlight was the definition of a new ambitious Mid-Range plan with more than 150 managers across the globe. We have made clear commitments to profitable sustainable growth, which now guides our daily actions.

Which of the company's achievements in 2022 are you most proud of?

For the first time in the history of Burckhardt Compression, our order intake exceeded CHF 1 billion. I am very grateful for the trust of our customers who gave us these orders and, for me, it means that we are on the right track with our strategy. I am especially pleased to see the exceptional growth we have achieved in our applications related to the transition to renewable and secure energy sources. We achieved in particular record orders in applications connected to the production of

solar panels, as well as for orders related to transportation and storage of liquefied natural gas. On top, hydrogen mobility and energy is our new and fastest growing segment: Order intake in hydrogen-related applications has more than doubled.

In November 2022, you announced a new Mid-Range Plan for 2023–2027. What is its main areas of focus?

Our purpose "We create leading compression solutions for a sustainable energy future" is our guiding star for our Mid-Range Plan 2023–2027 and our "raison d'être". One area of focus of the Mid-Range Plan is our sustainability roadmap: By 2027 we want 40% of our order intake to be related to projects and services supporting the energy transition, which has a significant influence on our market strategy and on our R&D. We also want to reduce our own greenhouse gas emissions intensity by 50% and then reach net-zero by 2035. A second area of focus is our refined company values and behaviors. A third focus area is digitalization, both for our internal organization and processes as well as for our customers. Finally, we have outlined a set of ambitious financial goals for 2027. We are targeting sales of CHF 1.1 billion, an EBIT margin of 12–15% and a return on net operating assets (RONOA) of over 25%.

How does Burckhardt Compression succeed in attracting new talent?

Our culture is the main reason why employees tend to stay at our company for a long time, or come back after experiencing other employers. We receive a lot of positive feedback about our collaborative and inclusive approach. For instance in our Swiss facility in Winterthur, we have more than 40 nationalities represented, which makes it a lively place for cultural exchange and for the generation of new ideas. Globally, we also have 6% of employees in training, which is a great path to build and retain our highly skilled workforce. We are only at the beginning of our recruitment plan, but the feedback we are receiving is encouraging. Potential candidates point out the importance of working for a company with a positive purpose, the warm feeling when interacting with our employees, and our competitive working conditions.

Climate change poses a significant challenge to companies across many sectors. Have you identified any new market opportunities resulting from climate change?

The world needs more clean and more secure energy, at an affordable price. Such energy can be provided by various sources, one of them is solar power. Burckhardt Compression is already a leading global provider of compression solu-



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questions to
Fabrice Billard,
CEO Burckhardt Compression

"Our commitment to sustainability means that we always strive to act in the best interest of all our stakeholders."

tions used for the production of solar panel materials. We are also one of the key players shaping the hydrogen ecosystem. Both of our divisions are active along the entire value chain, from the production of hydrogen to transportation, storage and usage. As the demand for clean energy sources continues to grow, we can contribute by supporting the build-up of the corresponding infrastructure with our technologies, our products and our service network.

What are your plans in terms of digitalization?

With digitalization, we focus on applications and services that provide added value to our customers and make us more efficient. We have, for example, introduced a system that allows our clients to monitor all their compressor equipment in use. This

enables them to see the status of requests, access the latest documentation and order spare parts. The services also include diagnostic tools and remote solutions to get support from our Burckhardt Compression experts, either via tablet or Holo Lens. Burckhardt Compression is already known for the longevity of its compressors. By using proprietary, advanced software based on artificial intelligence, we aim to further optimize compressors to reduce their energy consumption, avoid unscheduled maintenance and extend their operating life.


Has the Ukraine conflict had any impact on the firm? Did Burckhardt Compression have to close down any operations or were supply chains affected?

This war is a tragedy and I would like to express my sympathy with everyone suffering. As a sign of support, and to limit risks for our company, we reacted early and stopped taking new orders from Russia as long ago as in March 2022. This had a negative impact of 3 to 5% on our annual order in-

take. For existing projects, we had to fulfill our contractual obligations within the limitations of sanctions and stopped some projects. This had a one-off negative impact of CHF 7 million on our EBIT. Overall, the operational impact on our business has not been too severe since we do not have a legal entity in Russia and are not dependent on the supply of materials from Russian providers.

Looking ahead, what are your priorities for the next 12 months?

We have won a record volume of orders in the past two years. Our first priority is now to meet our clients' expectations and to complete these orders to the highest standard. Beyond the delivery of our backlog, we will work toward the targets set out in our Mid-Range Plan 2027. On this effect, the two divisions have launched several initiatives supporting growth, increased efficiency, and progress on our sustainability roadmap. All in all, we are excited about the coming years and our journey toward a sustainable energy future.



Firm →

Our purpose sets the guiding star
for our daily actions: "We create
leading compression solutions for
a sustainable energy future."

Creating leading compression solutions for a sustainable energy future

In a dynamic market environment where the transition toward a new energy economy is playing an increasing role, we have defined a new ambitious strategic plan, with sustainability at its core.

**Our key objectives for 2027:
sustainable, profitable growth**

We communicated our new Mid-Range Plan in November 2022, targeting CHF 1.1 bn in sales and a 12 to 15% operating profit margin in fiscal year 2027. Sustainability now sits at the core of our strategy, with implications on target markets, R&D projects, CAPEX investments, operational KPIs and long-term incentive plans for senior management. We aim, in particular, to achieve 40% of our order intake from applications that support the world's energy transition and to reduce our greenhouse gas emission intensity by more than 50% for Scope 1 and 2 by fiscal year 2027 (compared to 2021).

Acknowledging the scale and urgency of combating climate change, we have developed a long-term commitment and roadmap to become operational net-zero for our Scope 1 and Scope 2 emissions by 2035. Achieving these goals will

be supported by the integration of sustainability into our operational excellence activities and by continuous investments in technology and digitalization. On the financial side, in addition to the growth and profitability targets, our ambition is to reach a return on net operating assets (RONOA) of more than 25%, and our intention is to keep an attractive dividend policy, with a 50% to 70% payout ratio.

Commitment to reach operational net-zero for Scope 1 and 2 by 2035.



Growth in a highly dynamic market environment

Our markets are expected to continue to develop with strong dynamics on the back of the world's energy transition and a continuous growth of the world's population. The exact developments are difficult to predict, but in any scenario identified by the International Energy Agency (IEA), the world will need more gases, and therefore more compressors. We have based our projections on a middle scenario, and a potential acceleration of the energy markets toward more secure and sustainable energy sources would tendentially accelerate our growth.

New opportunities through upgrades, marine services and digitalization

Further, new market opportunities arise in supporting existing customers in their efforts to reduce energy consumption and greenhouse gas emissions by upgrading their plants with modern compression solutions. Addressing this opportunity requires strong engineering capabilities, where Burckhardt Compression can stand out from the crowd. In addition, the number of our compressors installed on ships has increased significantly in the past few years and constitutes a special growth area for our Services Division, which has developed a strong global platform to serve this demanding market. Finally, we plan to expand our range of digital customer services under the UP! Solutions products and services suite, which aims to increase the reliability and service life of compressors.

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With more than sixty years of experience, we offer a broad range for hydrogen compression solutions, including oil-free compressors for fuel cells.

Our compressors are used by a broad range of customers...



Petrochemical and chemical industry



Gas transport and storage



Hydrogen mobility and energy



Industrial gas

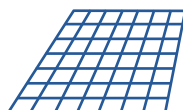


Refinery



Gas gathering and processing

... to produce essential products for the world



Solar panels



Automotive parts



Lubricant oil



Gas bottles for domestic consumption (heat, cooking)



Electrical power



Transportation fuel



Industrial plastic



O₂ bottles (pharma industry)



Pharmaceuticals



Cosmetics

Compressor systems

Burckhardt Compression's reciprocating compressors lie at the heart of our customers' processes.

Laby® – Labyrinth Piston Compressors

The Labyrinth Piston Compressor is unique with its exceptional level of reliability and availability. The special labyrinth seal on pistons and piston rods creates a completely oil-free, contactless seal. This prevents piston ring debris from contaminating the gas as well as friction-induced hot spots. The result is a longer service life, which has a positive impact on overall reliability and operating costs. The Laby® Compressor is designed to compress bone-dry, dirty, abrasive, and other gases. The gas-tight and pressure-resistant casing reduces gas emissions and losses to the environment to virtually zero. The Laby® Compressor easily manages the compression of LNG boil-off gas at suction temperatures down to -160°C (-250°F).



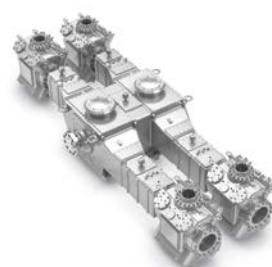
Laby®-GI Compressors

The Laby®-GI Compressor is mainly used for the compression of LNG boil-off gas. It has a fully balanced design that eliminates unbalanced moments and forces, so it can be used on offshore vessels and installations where strict guidelines on maximum allowable vibration levels on deck structures must be observed. The unique combination of labyrinth seal design and tried-and-tested ring seal technology makes Laby®-GI Compressors the solution of choice for both low-temperature and high-pressure applications. The proven technology guarantees maximum efficiency and lowest life cycle costs without any gas slippages.



Process Gas Compressors per API 618

We have many years of experience with hydrogen compression systems for the refining industry and now also offer hydrogen compression solutions for hydrogen mobility and energy applications. Burckhardt Compression offers non-lubricated and lubricated Process Gas Compressors, horizontal and vertical. They are suited in particular to the high-pressure compression of hydrogen, hydrocarbon, and corrosive gases. Process Gas Compressors built by Burckhardt Compression are synonymous with unrivaled availability and long operating lives. Optimal sizing and the use of top-quality compressor components and materials ensure low operating and maintenance costs.



Our compressor
portfolio

The design, the advanced Burckhardt Compression technology and superb quality together with the robust construction translate into excellent reliability and low life cycle costs.

Compression solutions

Hyper Compressors

Burckhardt Compression is the world market leader for Hyper Compressors. The Hyper Compressor is a high-pressure reciprocating compressor for low-density polyethylene (LDPE) and ethylene-vinyl acetate (EVA) plants with a discharge pressure of up to 3'500 bar. Burckhardt Compression has established an outstanding track record with nearly 70 years of experience in building this type of compressor. It is characterized by a long operational life and high safety standards, which can be traced to its unique construction design and Burckhardt Compression's global one-stop maintenance and service capabilities. The most powerful compressor in the world, driven by a 33'000 kW electric motor and compression capacity of 400'000 tons of ethylene a year, was built by Burckhardt Compression in 2016.



Diaphragm Compressors

Diaphragm Compressors compress gas by means of a flexible membrane. These membranes are usually metallic, have a limited stroke and are used for smaller gas flows at high pressure. The advantage of this technology is that the gas is hermetically sealed by the membrane during compression, enabling very high levels of gas purity. Burckhardt Compression's diaphragm compressors are used for hydrogen fueling stations and for the compression of small quantities of pure gas for medical and other purposes.



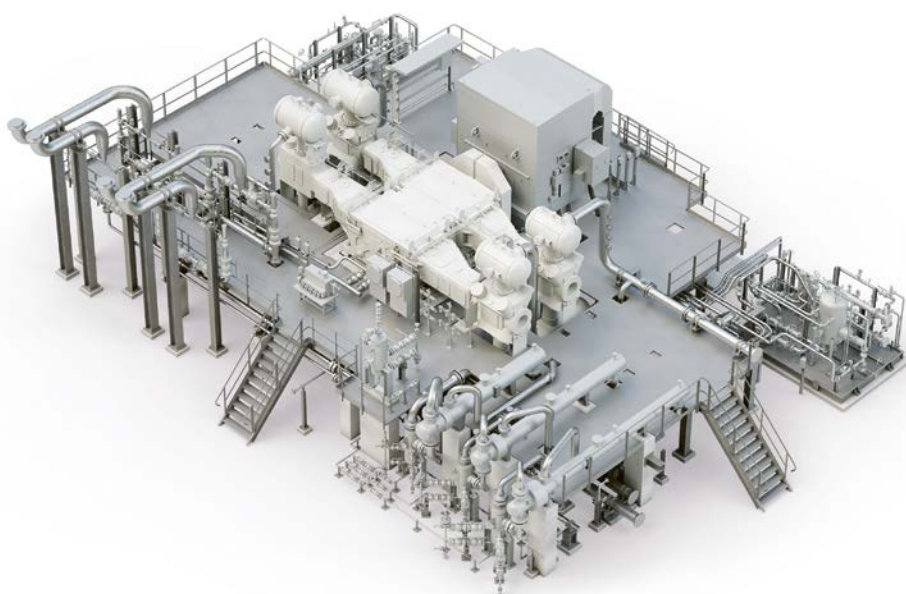
High-Speed Compressors

High-Speed Compressors are essentially Process Gas Compressors with shorter strokes and higher rotational speeds. These compressor systems are used for natural gas processing and transport applications.



Compressor systems and packages

Beyond the compressor itself, we engineer the complete system in-house to customers' specifications and use proven and qualified suppliers. We work together with our customers' teams to make every project a success for their business.



Standard High-Pressure Compressors

Burckhardt Compression's Standard High-Pressure Compressors are reciprocating compressors with a compact design and low weight. They are delivered skid-mounted with structural supports that dampen vibration, so there is no need for a special foundation. The air and water-cooled compressors are used to compress air, hydrogen, nitrogen, helium, argon, natural gas and other non-corrosive gases and gas mixtures at land facilities and on ships.



Company culture

Our success is built on the commitment of each and every one of us. We love what we do and we inspire people to excel and grow.



Our culture, values, and behaviors guide our actions and create a great place to work and thrive in

Our four values "Partnership", "Passion", "Performance" and "Responsibility" determine our daily decisions and actions; our customers are always at the center of our considerations and actions. We focus on teamwork and act as "one" company. We are entrepreneurs with a strategic mindset and act decisively with a focus on operational excellence and innovation. We love what we do and inspire others with the aim of creating a more sustainable energy future for the world. In all situations, safety is our first priority. We foster an inclusive environment where everyone can reach their potential and where integrity and reliability are the basis for the trust we enjoy among our colleagues, customers, partners, and suppliers.

Board of Directors
(Picture above, from left):
David Dean,
Maria Teresa Vacalli,
Stefan Bross,
Ton Buechner,
Monika Krüsi,
Urs Leinhaeuser

Executive Management
(from left):
Andreas Brautsch,
Rolf Brändli,
Fabrice Billard,
Vanessa Valentin,
Rainer Dübi





Performance

"I enjoy the process of assembly and that gives me a sense of achievement."

Yue Wang, Assembly Worker, Shenyang, China



Responsibility

"I like working for this company because of the great team spirit and the intercultural environment. I enjoy working with different cultures on a global level and being successful with an amazing, supporting team."

Marina Winter, Global Category Manager, Winterthur, Switzerland



Passion

"I am a Field Service Representative in Dubai and I like about my job because I visit different customers, whether it's on land or in the middle of the sea, helping them to a reliable operation."

Shravan Surase, Field Service Representative,
Dubai, United Arab Emirates



Partnership

"Collaborating with stakeholders across the globe brings perfect solutions to our clients."

Vijaykumar Jain, Head R&D and Product Management,
Head Global SHP Business, Pune, India

"My success comes through a strong and talented team"

Francine Faucher, Director of Operations at Burckhardt Compression Canada (BCCA), describes a team that operates successfully, and safely, under pressure.

I'm more of a behind-the-scenes person. My job as Director of Operations here at Burckhardt Compression's Edmonton, Alberta, site is to make sure we have the right team, skills, and resources in our Repair Centres and Field Service group to convert all the opportunities brought by our Sales group into happy customers – profitably and with a view to growth.

It's also my responsibility to make sure we do all this safely and to high quality standards. Our fifth year with zero lost time incidents is an achievement to be proud of, especially in such a high-pressure business as ours. While some of our customers are in the downstream market, with a longer project cycle giving us more time to handle their repairs, here in Western Canada we also do a lot of work for companies operating in the gas gathering and processing market, with requested turnarounds of only two days. The people in our team like to say they do their best work under pressure. They do their work with a focus on the customer and delivering a quality service which aligns with Burckhardt Compression's values and behaviors.

The people are what I like most about my job. It's a very talented and strong team, and the reason I'm successful in my role. The fact that it all comes down to people was underscored by the full integration of CSM in April 2022. Thanks to our people, we've managed to successfully integrate the cultures of the BCCA and CSM companies this past fiscal year and still achieve 30 percent year-over-year growth at BCCA as one team.

Having such a great team isn't something to be taken for granted. One of our main challenges is finding a skilled workforce in a challenging labor market. One way we've found of tackling this is hiring people who are looking to start or haven't yet finished their apprenticeship program at

one of Canada's polytechnics. We've had good results with hiring apprentices and putting them through school along with training them in-house, which enables us to mold them to the requirements of the job.

I'm very appreciative of how my career has progressed since joining Burckhardt Compression four years ago as HR Manager and transitioning into an Operations role – and the fact that I've been able to do this as the mother of two daughters. During my BCom degree and the paid internships it involved, I discovered an interest in many aspects of business, including the role of people. That's what originally attracted me to human resources: the realization that you don't achieve anything without people. This is something that I learned early on in my career and that has been applicable to all business groups and in all industries in which I have worked to date.

Why did I decide to join Burckhardt Compression? I was attracted by the opportunity to work in a small group – we're 80 people here at the Canadian subsidiary – that is also part of a global company that has operated for 179 years manufacturing compressors used in many different industries. Thus far, I'm thankful for the diverse opportunities Burckhardt has given me, which have fulfilled my curiosity and desire to learn.

What lies ahead? I look forward to working with the talented team here at BCCA to expand our manufacturing capabilities and further contributing to the global footprint, as well as continuing to improve our efficiencies and offerings in our Repair Centres and Field Service group. I'm also looking forward to the next chapter with Burckhardt and its sustainability initiatives.



"I'm very appreciative of how my career has progressed since joining Burckhardt Compression four years ago as HR Manager and transitioning into an Operations role."

Francine Faucher, Director of Operations at Burckhardt Compression Canada

Always close to our customers

Customer proximity is one of our success factors. Burckhardt Compression is represented on all continents with 36 subsidiaries, 3 manufacturing and 5 assembly sites worldwide.

36

subsidiaries worldwide

2'973

employees (FTE)

over 80

countries worldwide with a Burckhardt
Compression presence

Your local contact



Global presence



Our customers

Our customer base includes some of the largest, most famous, and most innovative companies in the world. We serve

- Energy companies
- Gas transportation and storage companies (onshore and offshore)
- Customers in the marine sector
- Hydrogen processing companies
- Petrochemical/chemical companies
- Industrial gas companies
- General engineering companies that design and construct production lines or entire plants for our end customers

Sales of new machines, mostly via general contractors, are the responsibility of the Systems Division, while the Services Division is responsible for all service and spare parts activities.

Burckhardt Compression attaches great importance to a partnership-based relationship with its customers. In order to understand their needs even better and continuously improve, both divisions conduct regular customer surveys.

Focus

Sustainability is at the core of our new Mid-Range Plan, and a key to fulfilling our purpose: creating leading compression solutions for a sustainable energy future.

Ambitious sustainability targets

Sustainability is deeply rooted in our new purpose and a key pillar for the business strategies of both divisions. To underline our commitment, we have defined eight key sustainability targets for 2027, one for each material topic.

Acknowledging the scale and urgency of combatting climate change, we have also developed a long-term commitment and roadmap to achieve operational net-zero for our Scope 1 and Scope 2 emissions by 2035.



-50%
Greenhouse gas emission intensity*
2021: 2.1 kg CO₂e/h



≥ 80%
Engagement Score in employee survey**
2020: 79%



> 75%
Share of renewable electricity*
2021: 23%



< 0.7
Lost Time Injury Rate below 0.7 each year
2021: 1.1



+100%
Revamp + upgrades activities in Services
2021: 100 (Index)



0
Incidents related to product safety
2021: 0



40%
Order intake supporting the energy transition
2021: 16%



0
Incidents related to corruption or anti-competitive behavior
2021: 0

* Excluding the Shenyang foundry, where we rely on renewable grid electricity or technological developments to achieve our ambitions.
**Based on current survey methodology.

More online:



Hydrogen – the fuel of the future

Green hydrogen has a key role to play in the energy transition. As part of this shift, Burckhardt Compression's leading compression solutions are used throughout the hydrogen value chain.



5

questions to Veronika
Schelling, Hydrogen
Mobility & Energy leader

Veronika Schelling, process engineer and industrial engineer with degrees from ETH in Zurich, has been managing the Hydrogen Mobility & Energy team at the company's head office in Winterthur since April 2023.

"Today, the requirements are emerging in the hydrogen economy and customers require a strong technical partner. Our commitment is to offer our customers reliable end-to-end compression solutions."

Hydrogen has long been called the "fuel of the future". Is it currently having its breakthrough moment?

Yes, it has clearly taken off in the past 18 months. The Biden administration's Inflation Reduction Act (IRA) and the EU's Delegation Act (DA), passed in February, have now set out clear stipulations and definitions, including for significant subsidies. Green hydrogen has a key role to play in the energy transition that reaching our climate goals entails. Green hydrogen refers to hydrogen that is produced by electrolysis using electricity from renewable sources. In other words, hydrogen that's climate-neutral.

Where do you think there is scope for using green hydrogen?

In my view, the public debate is focused too much on mobility, especially on whether hydrogen can replace fossil fuels for cars. What most people forget is that industrial enterprises need huge amounts of clean energy. Environmental legislation means that firms producing steel, glass or fertilizer, in particular, need to substantially reduce their CO₂ emissions. In the future, industrial enterprises will need large quantities of climate-neutral energy and will likely use around half of the green hydrogen that's produced.

How important is hydrogen for Burckhardt Compression?

We focus on the construction and use of compression systems, which are deployed throughout the entire hydrogen value chain. Here's an example: We recently provided a large Swiss energy supplier with a compressor system for a plant to produce hydrogen from hydro power. These systems can also be supplied to gas stations, for instance: Refueling calls for very high levels

of pressure – another field where our compressors can be used. Generally, hydrogen is produced far away from the place where it's needed, meaning that there's no option but to transport it. Hydrogen is a very lightweight gas, so you need a certain level of pressure to do so. As a result, compressors are indispensable due to the very nature of the task at hand. We've ramped up our research and development over the past few years, and thanks to this, our system solutions are unique in the market.

What does the Hydrogen Mobility & Energy (HME) team do?

Our company's goal is for at least 40% of our compressor solutions to be used in systems supporting the energy transition by 2027. Consequently, the core tasks of the HME team include identifying trends and the latest needs. As an interdisciplinary team, we work across departments. This sees us collaborate with the sales and technical teams, including in research & development and project engineering & management. We jointly define the requirements and potential applications, weighing them against the resources needed to put them into practice. Our collaboration with suitable partners represents another key element: We're able to add value to them thanks to our extensive expertise and global service capacities.

What trends are you seeing in the hydrogen sector?

Today, the requirements are emerging in the hydrogen economy and customers require a strong technical partner. Projects are getting more complex – and time frames more condensed. One thing that hasn't changed is our commitment to offering our customers reliable end-to-end solutions over the lifetime of their facility. That's why we're integrating service aspects to a greater extent from the get-go. They include preventative maintenance, based on remote system monitoring and diagnosis. Finally, we see that the hydrogen production facilities and fuel stations are getting larger, which is essential for reaping the benefits of scale and for enabling green hydrogen to become cost competitive with other alternatives.

Compression systems for hydrogen liquefaction

Burckhardt Compression delivers compression systems to leading fuel cell and electrolyzer manufacturer Plug Power – for hydrogen liquefaction plants in the USA.



Hydrogen liquefaction plants

Following a first award of two compressors in March 2022, Joule Processing & Plug Power have again selected Burckhardt Compression to deliver 12 large hydrogen refrigeration compressors for six hydrogen liquefaction plants in the USA. These plants will be able to liquefy a total of 180 tons of hydrogen per day and will enable Plug Power to support its customers and existing network of 50'000 fuel cells installed mostly in forklift trucks.

Growing hydrogen production network

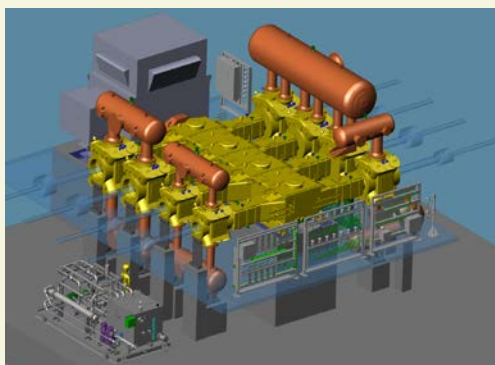
The first plants will begin operation in 2023, with each plant able to liquefy 30 tons of hydrogen per day. These plants will be sold to third parties or become part of Plug Power's growing hydrogen production network in the USA.

Strategy to develop green hydrogen

Plug Power is one of the leading fuel cell and electrolyzer manufacturers and plans on building multiple hydrogen liquefaction (LH2) plants across the USA, as part of its green hydrogen development strategy. Joule Processing was acquired by Plug Power in January 2022 to apply its proven and energy efficient cryogenic process technology to hydrogen liquefaction.

Energy efficiency with compressors

Burckhardt Compression's scope includes 12 hydrogen compressors including large synchronous motors and auxiliary equipment. The eight-cylinder machine designed around our third-largest compressor frame has been selected for its high degree of process flexibility and energy efficiency.



REDURA® oil sealing systems

As hydrogen compression for mobility and liquefaction applications must be totally oil-free, our solution includes the non-lubricated piston and packing sealing systems under developed in house the REDURA® brand, designed for unparalleled uptime and longest Mean Time Between Overhaul (MTBO).



1'000
tons per day of liquid hydrogen production by 2028.

Key success factors

A high level of continuous and rapid support to the client was essential in winning and executing this project. Burckhardt was able to fully support Plug Power, designing an excellent compressor to fit its specific process along with a short lead time and a commitment to ramp up production rates, helping to support the client's goal of up to 1'000 tons per day of liquid hydrogen production by 2028.

This substantial projects with Plug Power could pave the way to further exciting opportunities for hydrogen liquefaction plants on a global scale.

Solar energy: with the power of the sun

The solar panel market is growing fast, driven by the energy transition. Our Hyper Compressors are used in the production of ethylene vinyl acetate (EVA) co-polymer, needed for manufacturing solar panels.

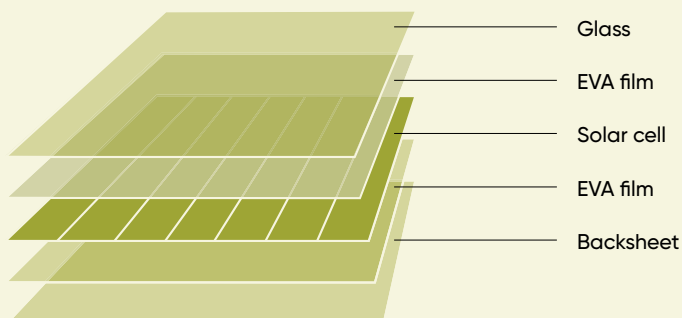
What is ethylene-vinyl acetate?

Ethylene-vinyl acetate (EVA) is used to encapsulate the photovoltaic cells inside solar panels. The encapsulant material must be long-lasting and tolerant to extreme temperatures and humidity, as it plays an important role in the long-term performance by preventing moisture and dirt ingress. The lamination of either side of the cells provides some shock absorption and helps protect the cells and interconnecting wires from vibrations and sudden impact from hail stones and other objects.

A high-quality film with a high degree of what is known as "cross-linking" can be the difference between a long life or a panel failure due to water ingress. During manufacture the cells are first encapsulated with the encapsulant film before being assembled within the glass and back sheet.

EVA/LDPE Producer, China:

"The rapid development of the domestic photovoltaic industry greatly stimulated the demand for EVA, so we decided to build more EVA plants. We selected Hyper Compressors from Burckhardt Compression. We believe that we made the right decision to choose Burckhardt Compression in a previous project, and we really appreciated the good performance of the compressors and the sound service. Therefore, we decided to go with Burckhardt Compression again."



Solar energy

Hyper compressor for EVA and LDPE

The production of EVA requires a high-pressure process with an autoclave or tubular reactor, which is only possible with Hyper Compressors reaching pressures between 2'400 and 3'500 bar. Burckhardt Compression is the clear leader in this application.

In fiscal year 2022 Burckhardt Compression received a record number of orders, mainly due to the growing demand for solar panel production in China and South Korea. In addition, Burckhardt Compression received a large number of orders for piston-ring compressors used in the production of polysilicon, which is a core component of the solar cells themselves.

Polysilicon

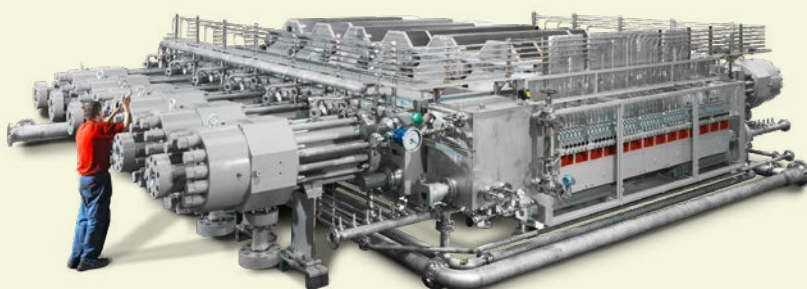
Solar cells made of polysilicon collect the sunlight and convert it into electricity. To produce polysilicon, hydrogen and hydrogen-mix compressors are utilized, mostly in "vent recovery" services where the compressor must handle contaminated gases. Non-lubricated machines are required. In fiscal year 2022, Burckhardt Compression, via its Chinese subsidiary Shenyang Yuanda, received a record number of orders for this application.



A Hyper Compressor on its way to Lianyungang Seaport in China.

K10 Hyper Compressor

Length: 12 meters
Width: 7 meters
Height: 2,5 meters
Weight: 280 tons



Project Director, South Korea:

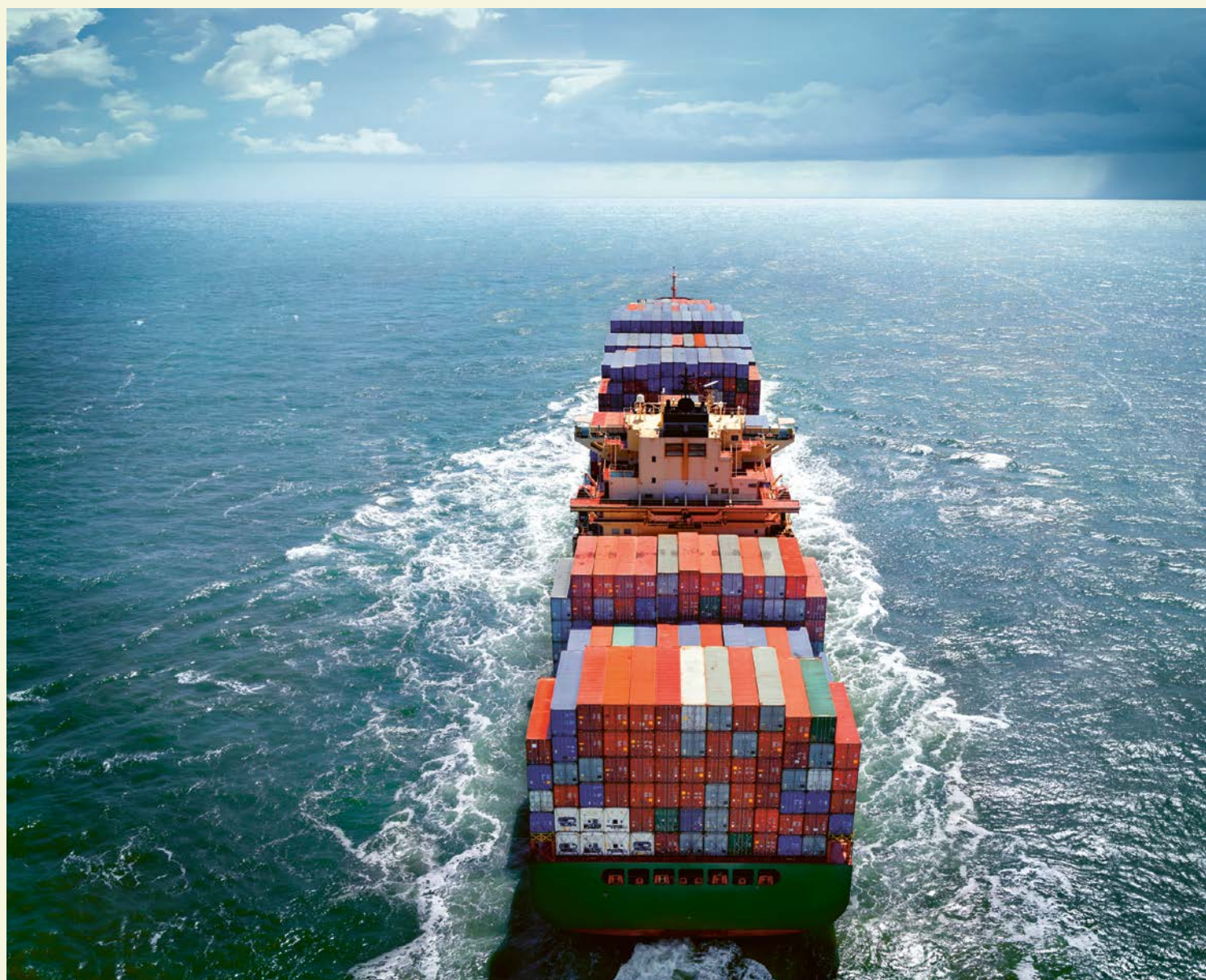
"Thanks to the great cooperation with Burckhardt Compression for more than a decade, our company chose again the reliable Hyper and Booster/Primary compressors from Burckhardt Compression for the most recent project, which will produce EVA for solar cells, contributing to the energy transition."

Polysilicon Producer, China:

"Our company responds to the national goal of 'carbon peak and carbon neutrality' and 'the Belt and Road' initiative, to collaborate in the supply chain, and to take innovation and development with Shenyang Yuanda Compressor Co., Ltd. to a next level. We signed contracts for hydrogen compressors and are willing to discuss long-term cooperation and to promote win-win for both enterprises."

Liquefied natural gas (LNG): energy security in turbulent times

LNG and its transport by ship enable companies and countries to access secure energy sources, especially in turbulent times. Our systems and services play a crucial role in the transport of LNG and in the current energy transition of the shipping industry.



Our Laby®-GI Compressor is the world's only completely oil-free and leakage-free high-pressure reciprocating compressor for LNG carriers.

Bridging technology on the way to sustainable shipping

Liquefied natural gas (LNG) is a bridging technology on the way to sustainable shipping. Greenhouse gas emissions are reduced by up to 25% compared with heavy fuel oil thanks to use of gas as a fuel and modern ship design.

Record order intake for LNG marine compressors and services

Supporting this growing need, Burckhardt Compression received in fiscal year 2022 a record level of orders for its Laby®-GI Compressors and for related services, which are growing at an accelerated pace to support the increasing installed base of compressors.

Unique solution on the market

The Laby®-GI is a third generation High-Pressure Compressor, which was specifically developed for installation on LNG carriers that are equipped with MAN ME-GI engines. It offers additional features such as completely dry-running cylinders on all stages, along with a higher efficiency. Furthermore, the Laby®-GI compressor is the world's only completely leakage-free high-pressure compressor for LNG carriers. Its absence of methane slippages is unique on the market and is an essential part of our value proposition.

Burckhardt Compression is also the only manufacturer capable of compressing gas to 300 bar by means of a large ring-seal compressor system without cylinder lubrication. Oil-free compression of the gas renders oil separation and filtration of the gas superfluous and saves up to 1'200 liters of lubricant per year, therefore contributing to costs savings and to the sustainability agenda of our customers.



Unique ability to service the compressor fleet

Burckhardt Compression offers maximum fleet availability. A worldwide network of field service representatives ensures fast delivery and replacement of spare parts and components. This includes onboard services as well as pitstop stations along vessel routes. With our digital solutions we help prevent breakdowns and costly repairs. Condition monitoring allows us to keep track of our customers' equipment remotely at any time and enables predictive maintenance scheduling. Condition-based maintenance analyzes more than 20'000 sensor samples per second. It recognizes more than 150 failure patterns derived from hundreds of machines with millions of operating hours. With this database, we can reduce off-quality production, increase efficiency, and lengthen equipment life while minimizing unscheduled downtime.

New regulations and future outlook

After a certain moderation due to the currently full order book of shipyards, the market demand for LNG carriers is expected to remain on a high level for the coming five to ten years, and upcoming regulations for methane slippages and CO₂ taxes may further benefit the ME-GI/Laby®-GI solution. The market for services is expected to continue its growth, with an increased importance of digital solutions.

Optimized energy efficiency and fewer emissions

Our customer, a global chemicals company, operates two vertical process gas compressors in their petrochemical plant. High leakages, reduced gas flow, temperature increases and a very short lifetime of wear parts led to frequent compressor shutdowns and wasteful energy consumption. Burckhardt Compression was called in to solve the problems.

Our customer's challenges:

The two compressors were operated in parallel for a challenging dry-running application, without any standby compressors as back-up. Due to inefficiency, leakages and short lifetime of wear parts, unexpected compressor shutdowns were increasing, while the output of the compressors was decreasing. Maintenance costs were high, due to constant replacement of wear parts and capital parts.



Proper surface roughness is critical. Thorough analyses showed that the surface of the cylinder liner was too smooth.

Emission reduction

Revamp of both compressors:

Our experts onsite carried out a profound compressor system integrity analysis. The analysis showed that the cylinder liner was damaged due to inappropriate piston ring material. According to our recommendations the customer upgraded the piston/packing rings to Persisto® 850, a material that has been specially developed for sealing applications in dry-running reciprocating compressors. Furthermore, the piston rod was repaired, applying proper coating material and roughness. Packing and all other components were refurbished at our local Service Center.



Piston and packing rings were upgraded to Persisto® 850, a material specially developed for dry-running applications.

Dry-running ethylene application

Type	Process gas compressor	Gas	Ethylene
Power	700 kW/940 hp	Suction pressure	
		10 bara/145 psia	
		Discharge pressure	
		35 bara/507 psia	
Speed	424 rpm	Lubrication	Dry running

Benefits for our customer after the revamp:

After the revamp, the customer could operate the compressor with no more safety incidents. Bad actors were eliminated. At the same time energy savings were achieved, as internal losses were avoided. With the Persisto® sealing systems, emissions could be reduced, while internal leakage was eliminated completely. Thus, nominal gas flow could be restored.

With this revamp, the wear parts' lifetime was significantly increased, and maintenance costs reduced. In the future, our customer can continue to count on our local expert team for immediate support.

What the customer says:

"We were struggling with the short lifetimes of the piston rod and packing rings. Burckhardt Compression's solution with the right selection of material helped us to increase compressor availability significantly. Thanks to their analysis, we now better understand the component failure modes. Our second compressor, which was plagued by the same issues, is now being revamped by Burckhardt Compression, too."



Future

Burckhardt Compression is transforming for a sustainable energy future and has set itself ambitious financial targets.

Confidence into 2023 and beyond

As we enter fiscal year 2023, we do so in a solid financial position with strong momentum in both divisions and many opportunities ahead of us.

Fiscal year 2023 is an important year, marking the beginning of our new Mid-Range Plan. In addition to delivering the substantial orders received in the last two years, the overarching theme in fiscal years 2023 to 2027 will be “transforming for a sustainable energy future.” Essentially this will involve strengthening our core business, developing new avenues for growth, integrating sustainability in everything we do and accelerating the growth of our digital products and services. In 2023 we will launch concrete initiatives in three areas: People & Culture, Systems, and Services.

People & Culture

Our strong growth provides many opportunities to retain and develop our talents, and requires us to attract new employees who share our values and ambitions.

To achieve these key objectives, we will concentrate on nurturing and evolving our leadership and culture along the dimensions of partnership, passion, performance, and responsibility. We will also ramp up our recruitment and training activities and continue to develop our apprenticeship programs globally.

Systems Division

Our key business objectives in Systems are to be the market leader in all regions; to achieve a balanced presence between traditional and new segments; to make sure our operations are safe, lean, smart, and sized to deliver business volume; and to further develop the resilience and sustainability of our supply chain.

In Systems this will translate, among other things, into a deliberate focus on applications for low-emission fuels (for example marine fuels). We will also be endeavoring to make the first move in fast-growing new market segments where we can position ourselves to enable a sustainable energy future.

Services Division

The key business objectives in Services are to be the leading full-service provider globally, with a strong safety culture; to increase our installed base coverage with enhanced local presence; to grow our long-term service agreement solutions for energy transition and digital services; and to build a global supply network based on a state-of-the-art IT platform.

Essentially these objectives will be geared to providing leading digital solutions and services to support our customers' sustainability journeys, as well as to becoming the leader in attractive and growing end markets with an unmatched footprint and unique technological expertise.

Digitalization: expansion of the range of digital customer services



Digital technologies combined with compressor expertise open new avenues to support our customers. In addition to our well known Prognost™ product line for equipment monitoring and protection, we now offer and develop new solutions based for instance on augmented reality and artificial intelligence

Under the name UP! Solutions, we offer digital services that provide added value to the customer.

Real-time expert knowledge any time, anywhere

One of our new digital solutions is UP! Remote Support, where a Burckhardt Compression expert provides real-time support to customers via HoloLens – augmented reality glasses – or via their tablet, all ATEX-certified for potentially explosive situations. The experts direct local maintenance crews and issue precise instructions for each subsequent stage in the process. Expert knowledge is therefore available at all times and in all places.

Increasing compressor uptime with algorithms based on artificial intelligence

Keeping compressors running and optimizing maintenance costs are two key objectives of our customers. Being able to accurately predict when certain parts need maintenance is a dream of many operation managers. Artificial intelligence has proven in pilot projects that it can do just this when it is combined with compressor expertise. We can gain new insights about the operation of the machines by collecting process and control data and by deriving mathematical algorithms that can identify anomalies early and notify the operators immediately if necessary.

Innovating with world-class partners

Burckhardt Compression works with exceptional partners to ensure that we continue to offer leading solutions, such as Microsoft, which provides Microsoft Dynamics, 365 remote assist for UP! Remote Support, and PTC, which provides Vuforia – the perfect link between the physical and digital world for use in augmented reality solutions.



Burckhardt Compression offers state-of-the-art digital solutions developed in collaboration with innovation leaders such as Microsoft and PTC.

Attracting and empowering people for growth

Burckhardt Compression aims to inspire people to excel and grow. It values passion and encourages its employees to explore their interests. This philosophy will continue to play a key role in attracting and retaining top talent.

A holistic approach to learning and development

To foster talent development, Burckhardt Compression is stepping up investment in training and learning opportunities. Its state-of-the-art training center in Winterthur, Switzerland, offers hundreds of courses a year. Technical training courses are the key to the company's ability to successfully serve customers, but training in soft skills and leadership are also crucial to encourage engagement and help employees develop.

Training career starters in-house is an excellent way of growing people to the requirements and culture of the organization – especially important in a business like Burckhardt Compression, which likes to promote from within its own ranks. The company has been steadily increasing the number of trainees and apprentices in its workforce; the figure currently stands at 6%. By investing in this area, the company supports the development of the next generation of employees and creates a pipeline of skilled talents for the future.

The company also aspires to make the industry more attractive to female students and professionals, investing in talent attraction to ensure that Burckhardt Compression is an employer of choice, regardless of gender, age or origin.

Aligning business needs and employees' development

Performance is crucial: People at Burckhardt Compression are encouraged, expected, and trained to achieve results and deliver on their promises. This is a win-win situation for employees and the organization: The more consistent the results, the more the business benefits and the more opportunities for career growth will materialize. To help employees achieve their goals, managers regularly discuss with them their performance and potential career opportunities. Senior leaders also meet in ad hoc sessions to fast-track the career development of individuals with exceptional learning agility.

Burckhardt Compression firmly believes that its future will depend crucially on having skilled people who are highly motivated and keen to develop. Employees are encouraged and empowered to take ownership of their careers and design a fulfilling professional life for themselves. The company's efforts to foster talent development, increase engagement, and invest in training and learning opportunities will continue to play a key role in attracting and retaining top talent and driving business growth.

Creative

"Creating content is my passion and what I have done throughout my entire career: creating text, photos, and videos. What I like about working for PROGNOST Systems/Burckhardt Compression is the positive attitude, the resulting potential, and the intercultural cooperation."

Alexander Gossweiler, Content Creator, Rheine, Germany



Fulfilling

"Helping provide customers with quality compressor repairs and engineered revamp solutions gives me a great sense of fulfillment and partnership knowing we are working in the best interest of the customer and the environment."

Jared Janotta, Regional Sales Manager, Alberta, Canada



Cooperative

"I work as a Procurement Manager at Burckhardt Compression in Italy. I started working with Burckhardt Compression nine months ago, and I find it great because of the team spirit and the intercultural environment."

Monica Barone, Procurement Manager, Caponago, Italy



"My work is very varied. I accompany the machines from start to finish."

Emanuel Mendes, Apprentice Polymechanic, Switzerland

Emanuel Mendes is involved in every single process from manufacturing the tiniest compressor part to assembling the complete compressor. This is precisely what the 18-year-old, currently completing the third year of his apprenticeship as a polymechanic at Burckhardt Compression in Winterthur, likes most about the job: "My work is very varied. I accompany the machines from start to finish, which is a great feeling," he explains.

Right from the start, he was made to feel part of the team and regarded as an equal by his co-workers. The communications and working atmosphere are, as he says, "what you would wish for in any company." If he makes a mistake, his instructor explains to him again, without any time pressure, how to do the job correctly. Emanuel very much appreciates the fact that he is supported whenever he needs help – and that he can otherwise work independently: "I'm given a lot of trust as an apprentice."

His personal goal during the apprenticeship is to steadily improve his grades compared with the previous year. Thanks to the support of his team, and not least his great motivation, he has been able to achieve this goal so far. And where does Emanuel see himself in the future? "I'd like to stay with Burckhardt Compression after my apprenticeship," he says. He could well imagine working as a technician at a company site abroad some day.

Twenty-four-year-old Yuanen Cheng has been doing an internship as a system design engineer at Burckhardt Compression's subsidiary Shenyang Yuanda Compressor Co., Ltd. (SYCC) in China as part of his master's degree at Shenyang Aerospace University. He found his way to the company via a campus recruitment event. He had heard about the positive working atmosphere at SYCC, so when he was offered the internship he was enthusiastic to join. He is still just as enthusiastic: Although he has applied for jobs at other companies, he hopes to return to SYCC after graduating.

So what makes the working atmosphere so special? First of all, there is the support of his co-workers. Yuanen has been pleasantly surprised by how willing they have been to share their knowledge and experience, even with the "new guy." This is institutionalized: New joiners have a mentor, someone with many years of experience in the relevant work. Yuanen has also been impressed by the support he has received from his supervisor: "Despite having so much work of his own, my boss has always had the time and patience to support and encourage me."

Yuanen has used his internship to grow, build his business skills, and improve his ability to think logically. Has he achieved these goals? Not quite. At this point, he reckons, there is still more to learn – by applying himself to his own tasks, but also by observing the way his colleagues think and approach their work.

"Despite having so much work of his own, my boss has always had the time and patience to support and encourage me."

Yuanen Cheng, Intern in System Design Engineering at Burckhardt Compression's subsidiary Shenyang Yuanda Compressor (SYCC) in China





“The learning opportunities the company offers motivate me a lot.”

**Richa Kubal, Graduate Engineer Trainee,
Project Management Systems Division, India**

The first thing she talks about is the positive company culture: “I find it an extremely pleasant and friendly place to work,” says Richa Kubal, a graduate engineer trainee at Burckhardt Compression in Pune, India. The ambitious 23-year-old has already completed eight months of the one-year training program.


Richa, who has a bachelor’s degree in engineering, has always been fascinated by reciprocating compressors. Given her strong communication skills and desire to gain practical professional experience, the trainee position in project management at the global industry leader immediately appealed to her. “Being part of a company that’s at the cutting edge of techno-

logical progress is exciting and an opportunity for me to grow professionally,” she emphasizes.

The fact that she is making steady progress in her training at Burckhardt Compression is “largely” thanks to her two supervisors, she says. “They’ve given me comprehensive support from the initial training onward.” In fact, she finds everyone in her entire work environment to be extremely helpful. She values the open communication culture in the company and the fact that, despite being the only woman in the team, she was taken seriously from the very beginning.

Richa Kubal is finding her time at Burckhardt Compression a “fulfilling challenge” that also gives her plenty of scope for pursuing her personal goals: “The learning opportunities the company offers motivate me a lot,” she says. She is clear that she wants to stay with Burckhardt Compression after completing her training. With operations across the globe, the company offers her exciting opportunities to broaden her professional and personal horizons.

Facts & Figures

The background image is a blue-tinted photograph of a person wearing a white lab coat and black gloves. They are using a large, open-end wrench to tighten a bolt on a circular metal component that has a radial pattern of holes. The person's arm and hand are visible, holding the wrench. The overall scene suggests a technical or industrial setting.

Fiscal year 2022 was a very successful business year for Burckhardt Compression and confirms that we are on the right path with our strategy.

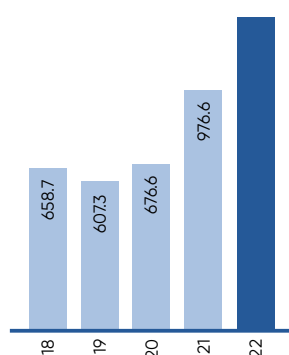
New financial records

Fiscal year 2022 marks new historical records for order intake, sales and operating income. Both divisions have made strong contributions to this success.

Order intake

in CHF mn

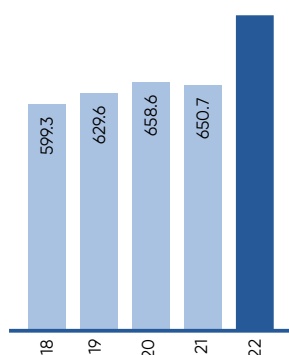
1'268.3



Sales

in CHF mn

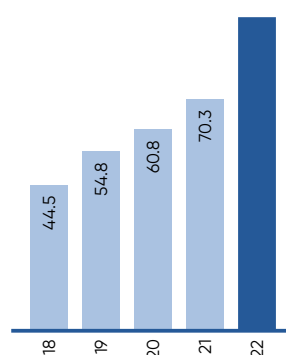
829.7



Operating income (EBIT)

in CHF mn

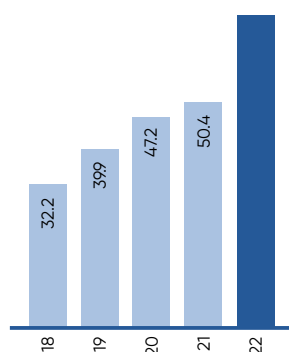
95.0



Net income

in CHF mn

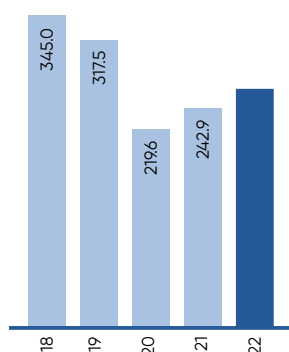
70.0



Shareholders' equity

in CHF mn

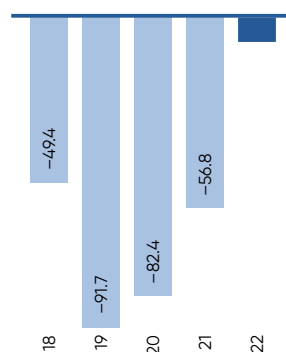
261.6



Net financial position

in CHF mn

-7.1



Key figures

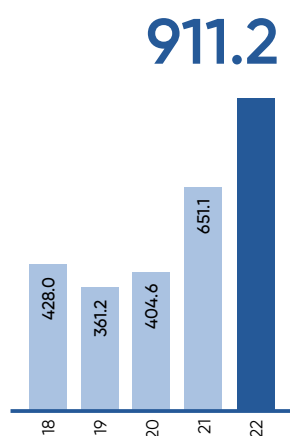
in CHF mn

	2022	2021	Change 2022/2021
Total			
Order intake	1'268.3	976.6	29.9%
Sales	829.7	650.7	27.5%
Operating income (EBIT)	95.0	70.3	35.0%
in % of sales	11.4	10.8	
Net income	70.0	50.4	38.9%
in % of sales	8.4	7.7	
Return on net operating assets (RONOA)	25.7%	19.7%	
Systems Division			
Order intake	911.2	651.1	39.9%
Sales	489.7	372.7	31.4%
Operating income (EBIT)	30.3	21.1	43.5%
in % of sales	6.2	5.7	
Services Division			
Order intake	357.1	325.5	9.7%
Sales	340.0	278.0	22.3%
Operating income (EBIT)	75.0	58.4	28.6%
in % of sales	22.1	21.0	
Balance sheet			
Balance sheet total	940.6	837.8	12.3%
Shareholders' equity in %	27.8	29.0	
Net financial position	-7.1	-56.8	
Share			
Net income per share	20.64	14.82	39.3%
Dividend per share	12.0	7.5	60.0%
Payout ratio	58.1%	50.6%	
Market capitalization (in CHF mn)	1'931.2	1'662.6	16.2%
Employees			
Employees as per end of fiscal year (FTE)	2'973	2'732	8.8%
Apprentice	71	64	10.9%
Turnover rate	10.7%	10.1%	
Average company affiliation (years)	8.0	8.4	-4.7%
Environment			
Energy use (MWh)	59'107	49'928	18.4%
Greenhouse gas emissions Scope 1 (tCO ₂ e)	4'674	4'221	10.7%
Greenhouse gas emissions Scope 2 (tCO ₂ e)	15'396	13'198	16.7%
Water (m ³)	78'687	83'810	-6.1%

Systems Division

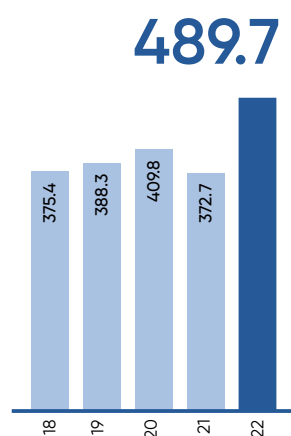
Order intake

in CHF mn



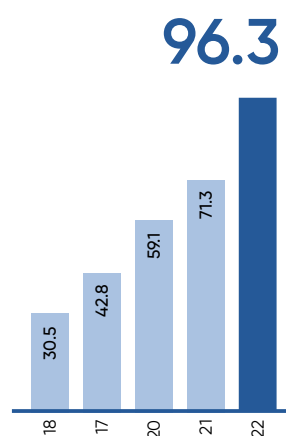
Sales

in CHF mn



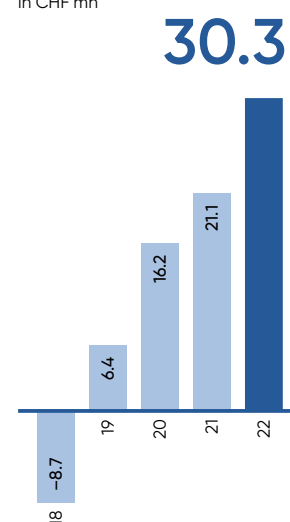
Gross profit

in CHF mn



Operating income (EBIT)

in CHF mn



in CHF mn

Order intake

Sales

Gross profit

in % of sales

EBIT

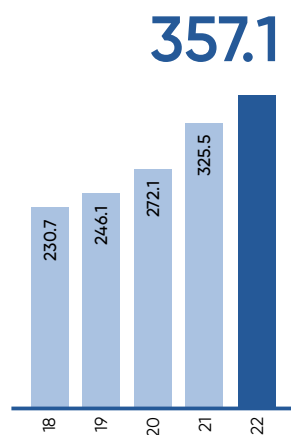
in % of sales

Headcount at end of fiscal year (FTE)

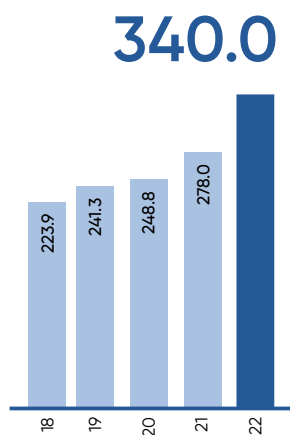
	2022	2021	Change 2022/2021
Order intake	911.2	651.1	39.9%
Sales	489.7	372.7	31.4%
Gross profit	96.3	71.3	35.1%
in % of sales	19.7%	19.1%	
EBIT	30.3	21.1	43.5%
in % of sales	6.2%	5.7%	
Headcount at end of fiscal year (FTE)	1'684	1'518	10.9%

Services Division

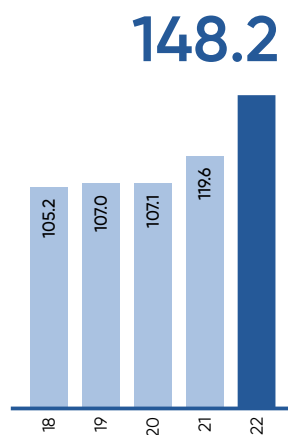
Order intake
in CHF mn



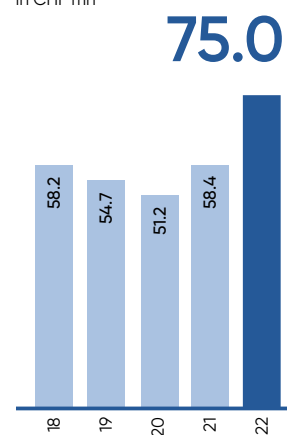
Sales
in CHF mn



Gross profit
in CHF mn



Operating income (EBIT)
in CHF mn



in CHF mn

Order intake

Sales

Gross profit

in % of sales

EBIT

in % of sales

Headcount at end of fiscal year (FTE)

2022

357.1

340.0

148.2

43.6%

75.0

22.1%

1'275

2021

325.5

278.0

119.6

43.0%

58.4

21.0%

1'198

**Change
2022/2021**

9.7%

22.3%

23.9%

28.6%

6.4%

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