FULL RANGE OF SERVICES
FOR ALL RECIPROCATING COMPRESSORS
Burckhardt Compression is one of the market leaders in the field of reciprocating compressors and the only manufacturer that offers a complete range of Laby® (labyrinth piston), Laby®-GI, Process Gas and Hyper Compressors.

Compressors often are crucial for high plant availability. For us as a leading compressor manufacturer, it is essential:
- to maximize your mean time between overhaul (MTBO)
- to minimize your downtimes
- that your compressors provide economic and reliable operation for decades

We support you with all services ranging from spare parts logistics to comprehensive overhauls for all brands of reciprocating compressors.

Our solutions offer guaranteed maximum efficiency and durability.

**BURCKHARDT COMPRESSION'S ENHANCED SERVICE CAPABILITIES:**
- Specialists with extensive OEM know-how
- Expertise in all specific fields of compression technology
- Solid experience with and therefore excellent support for demanding applications handling cryogenic, abrasive, corrosive, toxic or explosive gases and for applications with very high pressures up to 3,500 bara (50,000 psia)
- In-house engineering and manufacturing expertise and state-of-the-art analysis tools
- Since the 1990s, in-house tribology research conducted on our own test compressors in up-to-date laboratories using cutting-edge measurement equipment

**SERVICES**
- Engineering services
- Spare parts logistics
- Revamps
- Field service
- Valve service
- Component repair
- Technical support
- Monitoring and diagnostics
- Training

**COMPRESSOR DESIGN**
- Instationary fluid dynamics
- Pre-sales support
- Engineering analysis
- Feasibility study
- Selection and sizing
- Pulsation and vibration studies
- 3D CAD
- Compressor valves
- Rings and packings

**PLANT ENGINEERING**
- Contracting
- Customer and standard specifications
- Compressor and auxiliaries on modules
- Cooling water system
- Instrument and control, motors
- PLC programming
- Turn-key projects

**MANUFACTURING**
- CAM in-house machining
- Purchasing
- Assembly
- Test beds
- Quality assurance

**RESEARCH & DEVELOPMENT**
- Tribology incl. test beds
- Finite element analysis
- Mechatronics

**MANUFACTURING**

**PLANT ENGINEERING**

**SERVICES**

**COMPRESSOR DESIGN**

**RESEARCH & DEVELOPMENT**
Burckhardt Compression is recognized as the global technology leader in the reciprocating compressor world. As an OEM with over 160 years of in-house experience in developing, engineering, and manufacturing compressors, we are committed to highest reliability and best quality. Our four compressor product lines cover almost all applications for gas transport and storage, oil refining, petrochemical/chemical and industrial gas industries.

**KEY COMPRESSOR COMPONENTS – LATEST TECHNOLOGIES FOR BEST PERFORMANCE AND LONGEST LIFETIME FOR ALL RECIPROCATING COMPRESSORS**

Always having the best MTBO in mind, we provide a wide range of in-house engineered top quality compressor components with OEM guarantee according to your application specific requirements and operating conditions:

- **Valves:** We offer three types of custom-engineered valves for your specific application:
  - Burckhardt Poppet Valve™
  - Burckhardt Plate Valve™
  - Manley® valve, licensed by Burckhardt Compression

- **Piston rings:** various patented designs and materials
- **Guide rings:** pressure relieved
- **Piston rod packings:** application specific systems
- **Packing rings:** tribology research and laboratory tests
- **Oil scrapers:** application-specific material selection
- **Hyper/secondary compressor parts:** continuous development to optimize design
REDUCE OPERATING COSTS
FOR ALL YOUR RECIPROCATING COMPRESSORS

LIFETIME OF A COMPRESSOR

Burckhardt Compression has over 120 years of experience in valve design and manufacturing and offers its own leading in-house valve technology.

- Analysis of valve condition
- Tracking of valve history
- OEM valve engineering
- Valve cleaning and overhauls
- Complete quality inspection
- State-of-the-art leak test
- Root cause analysis
- Corrosion protection

BURCKHARDT VALVE SERVICE

DOES YOUR COMPRESSOR STILL ACHIEVE THE EXCELLENT PERFORMANCE YOU REQUIRE?

FAST VALVE SERVICE WITH EXTENSIVE GUARANTEE
FIELD SERVICE

Our professional field engineers have gained their reciprocating compressor know-how over many years and have extensive expertise in each particular application. Fast servicing and the highest level of commitment are guaranteed.

– On-site assembly and installation
– Erection/commissioning
– High safety standards – SCC and HUET certified
– Turn-key installations
– Start-up support
– Service contracts/preventive maintenance
– Plant overhaul/revision
– 12 month guarantee

TECHNICAL SUPPORT

Our experienced compressor professionals provide technical support on a 24/7 basis. Quick answers and sustainable solutions are guaranteed.

– Performance analysis for optimized and efficient compressor operation
– Start-up support
– Troubleshooting
– Root cause analysis
– Emergency availability 24/7
– On-site failure analysis
– Online diagnostic support
– Consulting

SPARE PARTS LOGISTICS

Highest Swiss quality OEM spare parts guarantee lowest life cycle costs. Our state-of-the-art in-house technology is incorporated in all components.

– Original spare parts with OEM guarantee
– Spare parts frame agreements
– Stock recommendations
– Express service for emergencies
– Over 16,000 parts on stock
– 12 month guarantee
– Save time and money!

Use the Burckhardt e-Shop™ – the easy spare parts identification and ordering system

OEM GUARANTEE AND BEST LIFE CYCLE COSTS

ONSHORE AND OFFSHORE: BENEFIT FROM OUR SKILLED RECIP EXPERTS

PROFESSIONAL SUPPORT FROM OUR WELL TRAINED AND EXPERIENCED SPECIALISTS
Burckhardt Compression has over 40 years of experience in the field of structural analysis. With our latest in-house developed sophisticated sizing and analysis tools, we are able to provide mechanical and structural analysis from components to complete compressor systems, particularly in the event of new operating conditions and plant capacity increase.

- State-of-the-art pulsation and vibration analysis
- Finite element analysis
- Unique analysis models for high pressure application up to 3'500 bara (50'000 psia)
- Reverse engineering and reengineering for own as well as for other brand compressor systems
- Dynamic analysis for any compressor parts

If your existing plant calls for productivity improvement, we are the reliable partner. Compressor revamps are carried out using the latest in-house technologies. We offer comprehensive service solutions: from logistics to commissioning.

- Modernizing
- Upgrades/retrofits
- Relocation of machines
- Deboottlenecking
- Operation mode studies for own as well as for other brand compressor systems
- Lubricated to non-lubricated conversions
- Turn-key installations

Our repair service with OEM background stands for high quality and rapid turnaround.

- Condition analysis
- Recommendations concerning which parts can be repaired or need to be replaced
- Incorporation of the latest technology where possible
- 12 month guarantee
- Repair of components, such as high pressure/low pressure packings, piston rod packings, high pressure lubrication pumps, guide bearings, crossheads, crankshafts, piston rods, cylinders
Reciprocating compressors must operate 365 days per year without interruption and must maintain a high degree of efficiency. Avoid breakdowns and production loss and increase plant safety by using a qualified system for online condition monitoring and diagnostics.

- Support for system evaluation
- Comprehensive customized service from diagnostic service to predictive maintenance
- Full service agreements for maximum availability
- Data analysis from different compressors
- Broad experience due to compressor installations in various processes
- Online diagnostic services
- Burckhardt Compression recommends PROGNOST

Visit our modern and fully equipped training facility in Switzerland. The workshop and assembly hall are located next door. Optimize your compressor operation and ensure plant safety.

- Theoretical and practical training from the compressor experts
- Full-size equipment (Laby®, Process Gas and Hyper Compressor)
- Standard trainings, customer specific programs on request

YOUR BENEFITS FOR CHOOSING US AS YOUR SERVICE PARTNER

- Reduced operating and maintenance costs
- Minimized downtimes and longest MTBO
- In-house state-of-the-art sizing tools and latest technologies backed by our recognized OEM expertise for the best possible support and sustainable solutions
- Experienced support for compressors in demanding applications: cryogenic, abrasive, corrosive, toxic or explosive gases and for applications with very high pressures up to 3'500 bara (50'000 psia).
- Extensive guarantees for spare parts, field service and component repair
- Our extensive service network enables us to offer a worldwide service, no matter where all your plants are located
RECIPROCATING COMPRESSORS
LEADING TECHNOLOGY FOR
LOWEST LIFE CYCLE COSTS

Compressor valves
Redura® rings & packings
Capacity control systems
Capital parts
Labyrinth piston compressor components
Hyper/secondary compressor components

COMPRESSOR COMPONENTS
BEST PERFORMANCE
AND LONGEST LIFETIME

Burckhardt Valve Service
Spare parts logistics
Field service
Technical support
Revamps & upgrades
Component repair
Condition monitoring & diagnostics
Training

SERVICES
THE FULL RANGE

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Compressors for a Lifetime\textsuperscript{®}