PROCESS GAS COMPRESSORS
API 618 – DESIGNED FOR LOWEST LIFE CYCLE COSTS

Compressors for a Lifetime™
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.

WE PROVIDE TAILORED SOLUTIONS FOR:
- Any given process gas application
- Very high pressures up to 3'500 bara (50'000 psia)
- Applications handling cryogenic, abrasive, corrosive, toxic or explosive gases

MOST POWERFUL AND CHALLENGING COMPRESSOR TYPE

Since 1951, Burckhardt Compression is the number one manufacturer of large horizontal opposed reciprocating compressors for highest discharge pressure (Hyper Compressors). In 2007, Burckhardt Compression delivered for the first time the world’s most powerful single frame compressor with 27'500 kW (36'900 hp) to Saudi Arabia.

This type of compressor is used in the LDPE production process (low density polyethylene) as a secondary compressor in combination with a Process Gas Compressor used as a booster/primary compressor. Ethylene needs to be compressed up to 3'500 bara (50'000 psia) with a flow of more than 160 tons per hour without having any stand-by compressors as back-up. These compressors are installed in the main production line. For this reason highest availability and maximum reliability are a must while meeting the highest safety requirements.

TECHNICAL DATA OF BURCKHARDT COMPRESSION’S LARGEST RECIPROCATING COMPRESSOR:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design power</td>
<td>32.5 MW / 44’200 hp</td>
</tr>
<tr>
<td>Pressure</td>
<td>3’500 bara / 50’760 psia</td>
</tr>
<tr>
<td>Rod load</td>
<td>3’500 kN / 787’500 lbs</td>
</tr>
<tr>
<td>Capacity</td>
<td>100’000 Nm³/h / 59’000 scfm</td>
</tr>
<tr>
<td>Weight</td>
<td>&gt; 300 t</td>
</tr>
</tbody>
</table>

LDPE compressor train: Process Gas Compressor and Hyper Compressor at 3’100 bara (45’000 psia) by Burckhardt Compression – the global technology leader in the reciprocating compressor world.
1 Hydrogen, discharge pressure 120 bara (1,740 psia), non lubricated 12,000 h operation without maintenance

2 Carbon dioxide, discharge pressure 235 bara (3,400 psia). Transcritical compression cycle

3 Ethylene, discharge pressure 288 bara (4,177 psia). Main stream Process Gas Compressor without a stand-by compressor due to its high availability

Guan Xinchun, Mechanical Maintenance Manager, CTM LDPE BASF-YPC Company Limited, Luhe District, Nanjing, China

“At our plant in Nanjing, we operate a Process Gas Compressor as booster/primary compressor with a piston diameter close to one meter, and a horizontal opposed reciprocating compressor (Hyper Compressor). Both units are crucial for the operation of our LDPE production plant. Safety, availability and reliability are the most important equipment requirements since the compressors are used within the main production line and we don’t have any stand-by units. We rely on Burckhardt Compression due to their high quality standards and their long-term experience in designing and manufacturing large reciprocating compressors”.

EXTRACT OF OUR WORLDWIDE REFERENCES
MARKETS AND APPLICATIONS
FROM NATURAL GAS TO PROCESSING
APPLICATIONS AND INDUSTRIAL GASES

GASES HANDLED (INCLUDING CORROSIVE, EXPLOSIVE AND TOXIC COMPOSITIONS)

\[
\begin{array}{llll}
\text{C}_4\text{H}_{10} & \text{C}_2\text{H}_4 & \text{CH}_4 & \text{Ar} \\
\text{BUTANE} & \text{ETHYLENE} & \text{METHANE} & \text{ARGON} \\
\text{C}_3\text{H}_8 & \text{C}_3\text{H}_6 & \text{CO}_2 & \\
\text{PROPANE} & \text{PROPYLENE} & \text{CARBON DIOXIDE} & \\
\end{array}
\]

GAS TRANSPORT & STORAGE
Pipeline booster
Underground gas storage

REFINERY
Hydrocracking
Hydrotreatment
Hydrodesulphurisation
Fractionating
Reforming
Catalytic cracking
Dearomatisation
Isomerisation
Denitrogenation
SOURCES OF LIQUID/NON-VAPORIZABLE LIQUIDS AND GASES 

GASES HANDLED (INCLUDING CORROSIVE, EXPLOSIVE AND TOXIC COMPOSITIONS)
- CO (Carbon Monoxide)
- N₂ (Nitrogen)
- NH₃ (Ammonia)
- H₂ (Hydrogen)
- H₂S (Hydrogen Sulphide)
- Cl₂ (Chlorine)
- HCl (Hydrogen Chloride)

Petrochemical/Chemical Industry
- Polyolefins
- Aromatics/BTX
- Alcohols
- Ammonia
- Urea
- Polyethylene
- Ethylene oxide
- Ethylene glycol

Upstream Oil & Gas
- Gas processing
- Carbon capture & storage
- FPSO

Industrial Gases
- Hydrogen generation
- Air separation
- Gas cylinder filling
- Polysilicon production
- Biogas

PETROCHEMICAL/ CHEMICAL INDUSTRY
UPSTREAM OIL & GAS
INDUSTRIAL GASES
SAFETY AND AVAILABILITY
FULL CONFORMITY TO API 618 5TH EDITION GUIDELINES*

KEY COMPRESSOR COMPONENTS – FOR BEST PERFORMANCE AND LONGEST LIFETIME

**GUIDE RINGS**
- According to API 618
- Pressure relieved
- Very long lifetime
- Optimized mounting position

**PISTON RINGS**
- Decades of lubricated and non-lubricated experience
- Various own designs and materials for maximum durability
- Optimized wear compensation

**PISTON ROD PACKINGS**
- Applied technology based on decades of experience
- Heterogeneous systems allowing high pressure non-lubricated services
- Extremely high sealing efficiency and lifetime

**OIL SCRAPERS**
- Highly efficient oil removal
- Material selection according to specific application
- Long lasting design for minimum lube-oil consumption

**MAIN BEARINGS**
- Interchangeable with big-end bearings

**RUGGED DESIGN – FOR DURABILITY**

**LUBRICATION SYSTEM (NOT ILLUSTRATED)**
- According to API 618/614 or to customer requirements

**DISTANCE PIECES**
- Single- or two-compartment
- Vented
- Purged
- Pressurized

**CRANKSHAFT**
- Forged

**FRAME**
- Robust
- FEM optimized
PROCESS GAS COMPRESSORS

IN-HOUSE DESIGNED AND MANUFACTURED MAIN PARTS – FOR RELIABILITY

**BIG-END BEARINGS**
- Interchangeable with main bearings

**INTERMEDIATE PACKINGS**
- Separates two-piece distance piece
- Purging and buffering

**COMPRESSOR VALVES**
- Burckhardt Plate Valve™
- Burckhardt Poppet Valve™
- Manley® Valve, licensed by Burckhardt Compression
- Over 120 years of experience in design, manufacturing and service
  - Selection and custom engineering according to application requirements
  - Maximum durability due to in-house valve technology

**PISTONS**
- Wide range of designs and materials

**PISTON RODS**
- Hardened
- Coated

**INTERMEDIATE PACKINGS**
- Separates two-piece distance piece
- Purging and buffering

**BIG-END BEARINGS**
- Interchangeable with main bearings

**CROSSHEADS**
- One piece or with replaceable shoes

**CYLINDERS**
- Various designs and materials
- Replaceable liners

* We also offer optional customization
TECHNICAL DATA
A WIDE PORTFOLIO FOR ALL YOUR APPLICATIONS

PERFORMANCE RANGE

DIMENSIONS

<table>
<thead>
<tr>
<th>Type</th>
<th>Max. Speed rpm</th>
<th>Rated Power kW / hp</th>
<th>Max. Rod Load kN / lbs</th>
<th>Width mm / in</th>
<th>Height mm / in</th>
<th>Length mm / in</th>
<th>Cranks</th>
</tr>
</thead>
<tbody>
<tr>
<td>BY</td>
<td>850</td>
<td>800 / 1'000</td>
<td>100 / 22'500</td>
<td>4'400 / 173</td>
<td>1'100 / 43</td>
<td>900 / 35</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1'500 / 59</td>
<td>4</td>
</tr>
<tr>
<td>BS</td>
<td>600</td>
<td>2'400 / 3'200</td>
<td>200 / 44'500</td>
<td>5'600 / 220</td>
<td>1'200 / 47</td>
<td>1'000 / 40</td>
<td>2</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>2'150 / 84</td>
<td>4</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3'350 / 131</td>
<td>6</td>
</tr>
<tr>
<td>BX</td>
<td>520</td>
<td>5'400 / 7'200</td>
<td>350 / 79'000</td>
<td>7'750 / 305</td>
<td>1'390 / 54</td>
<td>890 / 35</td>
<td>2</td>
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<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>2'150 / 84</td>
<td>4</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3'390 / 133</td>
<td>6</td>
</tr>
<tr>
<td>BA</td>
<td>500</td>
<td>9'500 / 12'700</td>
<td>550 / 124'000</td>
<td>8'000 / 314</td>
<td>1'390 / 54</td>
<td>1'000 / 40</td>
<td>2</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>2'800 / 110</td>
<td>4</td>
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<td></td>
<td>4'600 / 181</td>
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<td>6'400 / 251</td>
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<td>BC</td>
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<td>16'000 / 21'700</td>
<td>900 / 200'000</td>
<td>9'500 / 374</td>
<td>1'600 / 63</td>
<td>1'500 / 59</td>
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<td></td>
<td></td>
<td>3'500 / 138</td>
<td>4</td>
</tr>
<tr>
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<td></td>
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<td></td>
<td></td>
<td>5'500 / 216</td>
<td>6</td>
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<td></td>
<td></td>
<td></td>
<td>7'500 / 295</td>
<td>8</td>
</tr>
<tr>
<td>BE</td>
<td>429</td>
<td>31'000 / 42'100</td>
<td>1'500 / 335'000</td>
<td>11'500 / 453</td>
<td>1'900 / 75</td>
<td>1'800 / 70</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4'000 / 158</td>
<td>4</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>6'200 / 244</td>
<td>6</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td>8'800 / 347</td>
<td>8</td>
</tr>
</tbody>
</table>

Vertical 1, 2, 3 and 4 crank BY and BS compressors are also available.
**STATE-OF-THE-ART COMPRESSOR DEVELOPMENT AND DESIGN**

**FOR HIGHEST AVAILABILITY AND LONGEST LIFETIME**

**PRODUCT INNOVATION**

Burckhardt Compression’s product innovation and development are based on a stage-gate process ensuring that the customer requirements and market needs are implemented. The innovation process starts with the product idea and screening phase and continues during the initial evaluation of product feasibility and market attractiveness followed by the elaboration of a product development plan including a market analysis and strategy. It ends with the actual development and subsequent launch of the product.

**STATE-OF-THE-ART ANALYSIS AND ENGINEERING TOOLS**

An important part of the company’s certified design process are the in-house analysis tools which guarantee that the compressors fully fulfill customer’s project requirements. Compressor systems, compressor components and entire compressor plants are verified in terms of strength, stiffness and stability.

In order to achieve the most precise results, up-to-date software tools customized by Burckhardt Compression are used by our in-house specialists:

- Finite element analysis
- Pulsation vibration analysis
- Computational fluid dynamics

Optimized durability and performance is only one result. Meeting market demands in regards of cost is another important outcome.

Selection and sizing of compressors are carried out by using in-house developed proprietary software, such as RecipFinder® and RecipCalc™. Pulsation and vibration studies are made according to API 618 guidelines with advanced software tools.

Seismic stress, noise or thermal studies are conducted for complete compressor plants to ensure smooth operation.

**RELIABLE DATA TRANSFER**

Thanks to the use of CAM (Computer Aided Manufacturing) a high degree of precision can be achieved. Process reliability starts in the design department where computer generated design is fed directly into the manufacturing system and ends with the quality inspection.

By using a sophisticated production planning and control system, Burckhardt Compression reaches a maximum delivery performance.
In-house plant engineering is one of Burckhardt Compression’s strength. Customers get the entire compressor package out of one hand according to their specific process requirements and specifications: from auxiliaries to the electrical motor.

Dedicated expert engineers have a broad knowledge and are able to handle large and complex contracts.

YOUR BENEFITS HAVING BURCKHARDT COMPRESSION AS A PARTNER:

- Stringent project management to achieve the agreed goals within time and cost restraints
- Highly skilled project managers and CAD plant design engineers for best expert advices
- Planning of compressor skids in 3D
- Regular status reporting including the submission of the latest drawings
- Comprehensive project management for less coordination time and effort
- Careful selection of electrical instruments for highest safety and reliability within the reciprocating compressor installation
- In-house programming of PLC control systems
- Tailor-made manuals in local language, covering all drawings, the compressor, the auxiliaries, the electrical equipment and if required the engineering reports
- Field support during commissioning
KEY COMPRESSOR COMPONENTS
LATEST TECHNOLOGY FOR BEST PERFORMANCE AND LONGEST LIFETIME

Top quality crossheads, connecting rods, bearings and crankshafts for highest reliability

Always having the best MTBO (meantime between over-haul) and lowest life cycle costs in mind, we develop, design and manufacture a wide range of top quality compressor components. We select the technology and materials and engineer all compressor components according to your application specific requirements and operating conditions.

We supply our compressor components for all your reciprocating compressors.

COMPRESSOR VALVES

We offer all three types of compressor valve technologies:

- Burckhardt Poppet Valve™
- Burckhardt Plate Valve™
- Manley® valve, licensed by Burckhardt Compression

In-house engineered valve technology
REDURA® SEALING SYSTEMS

REDURA® – REliable, DURable and Advanced sealing systems for reciprocating compressors. The product line includes standard rings, packings as well as specifically in-house developed, designed and patented products. The resulting benefits are:

- Longest MTBO at lowest leakage
- Highest availability
- Lowest life cycle costs

RESEARCH & DEVELOPMENT

Since the 1990s our dedicated specialists conduct in-house tribology research on our own test compressors in up-to-date laboratories using cutting-edge equipment. New materials and different design types are in-house long-term tested. By selecting the optimal material and design the lifetime of compressor components and complete compressor systems will be extended.

BURCKHARDT COMPRESSION’S KEY COMPRESSOR COMPONENTS STAND FOR:

- Longest meantime between overhaul and operation time
- Shortest downtimes
- Less operating cost
EASE OF MAINTENANCE
SUBSTANTIAL ADDED VALUE

Burckhardt Compression designs all compressors for cost effective performance of preventive and predictive maintenance. We focus on service-ability by ensuring that all relevant parts can be maintained easily:

- Easy access to wear parts
- Attractive spare parts prices
- Burckhardt e-Shop™ – the easy spare parts identification and ordering system
- Professional spare parts logistics
- 24 hours technical support in case of an emergency

Large openings – for easy access

Ease access to piston and cylinder liner

Ease of maintenance

One assembly of crosshead and connecting rod
Today's market environment demands the highest availability of a plant in order to maximize output and increase profitability. Reciprocating compressors play a key role within a process and therefore require long meantime between overhaul. Tailor-made maintenance contracts to suit specific client needs are available for carefree operation.

Our modern and fully equipped Training Center in Switzerland features the complete range of Process Gas Compressor service parts and components. The workshop and assembly hall are located next door. Compressor operation can be trained and optimized within a professional environment.

Extend MTBO, increase plant safety and avoid unplanned shutdowns by using an online condition monitoring and diagnostics system.
Final assembly of a Process Gas Compressor
LEADING COMPRESSOR TECHNOLOGY
FOR LOWEST LIFE CYCLE COSTS

The Process Gas Compressors are the result of the broad experience gained by Burckhardt Compression over many decades. The second to none design has been accomplished in close collaboration with our customers throughout the world. Based on their needs, Burckhardt Compression provides a robust and reliable compressor of Swiss design and manufacture. Certified Swiss manufacturing, quality management and committed workforce ensure a constant high quality level.

INITIAL COSTS
Due to latest advanced machining technology, highly efficient manufacturing processes and global sourcing, we are able to offer compressors at very competitive prices.

OPERATING COSTS
The high quality of our compressors results in a long MTBO and in low consumption of:
- Energy
- Lubricants
- Cooling fluids

MAINTENANCE COSTS
The combination of ours and our customers’ long-term experience with Process Gas Compressors ensure easy maintenance. Attractive pricing of spare parts and service as required is a matter of course. Key compressor components from your OEM guarantee longest lifetime and lowest maintenance.

LOWEST LIFE CYCLE COSTS
The over-all result of our continuous development are compressors with lowest life cycle costs.

Plant: Industriepark Höchst
Duty: Industrial Gas
Country: Germany

“We of Infraserv Hoechst, formerly part of the biggest chemical and pharmaceutical concern Hoechst AG, have confided in Burckhardt Compression since the fifties. Compressors of Burckhardt Compression set the standard in quality, availability, economy and safety. Thanks to the compressors’ ease of maintenance as well as the reliable and wide customer service of Burckhardt Compression our satisfaction has increased over the years. The company’s broad experience and their technical competence convinced us that we have chosen the right reciprocating compressor manufacturer.”

Dr. Heinrich Lienkamp
Department Head Process Engineering
Business Unit Energies and Utilities
Infraserv GmbH & Co. Höchst KG
MANUFACTURING
WITH STATE-OF-THE-ART MACHINING TECHNOLOGY

Cutting-edge 3D CNC Measurement Machine for quality inspection

Dörries Scharmann, Heavyspeed CNC Milling Machine
Centric table load: 40’000 kg, spindle stroke: 1’000 mm

Okuma MacTurn550, CNC Multitasking Center.
One of the 10 machining centers

Okuma MacTurn350, Multitasking Center. Fully automatic parts feeding

Dörries Scharmann, CNC Boring Mill
4 tables, spindle stroke: 600 mm
BURCKHARDT COMPRESSION
THE RECIPROCATING COMPRESSOR COMPANY
WITH THOROUGH IN-HOUSE EXPERTISE...
...ENSURING COMPREHENSIVE SUPPORT BOTH FOR EPC CONTRACTORS AND PLANT OPERATORS

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

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

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

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
- State-of-the-art machining technology
- CAM in-house machining
- Purchasing
- Assembly
- Test beds
- Quality assurance
## SERVICES
### THE FULL RANGE

<table>
<thead>
<tr>
<th>BURCKHARDT VALVE SERVICE</th>
<th>SERVICES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FAST VALVE SERVICE WITH</strong></td>
<td><strong>EXTENSIVE GUARANTEE</strong></td>
</tr>
<tr>
<td>Analysis of valve condition</td>
<td>Complete quality inspection</td>
</tr>
<tr>
<td>Tracking of valve history</td>
<td>State-of-the-art leak test</td>
</tr>
<tr>
<td>OEM valve engineering</td>
<td>Root cause analysis</td>
</tr>
<tr>
<td>Valve cleaning and overhauls</td>
<td>Corrosion protection</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SPARE PARTS LOGISTICS</th>
<th>OEM GUARANTEE AND BEST LIFE CYCLE COSTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Original spare parts with OEM guarantee</td>
<td>12 month guarantee</td>
</tr>
<tr>
<td>Spare parts frame agreements</td>
<td>Save time and money: use the Burckhardt e-Shop™ – the easy spare parts identification and ordering system</td>
</tr>
<tr>
<td>Stock recommendations</td>
<td></td>
</tr>
<tr>
<td>Express service for emergencies</td>
<td></td>
</tr>
<tr>
<td>Over 16,000 parts on stock</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FIELD SERVICE</th>
<th>ONSHORE AND OFFSHORE: BENEFIT FROM OUR SKILLED RECIP EXPERTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-site assembly and installation</td>
<td>Start-up support</td>
</tr>
<tr>
<td>Erection/commissioning</td>
<td>Service contracts/preventive maintenance</td>
</tr>
<tr>
<td>High safety standards – SCC and HUET certified</td>
<td>Plant overhaul/revision</td>
</tr>
<tr>
<td>Turn-key installations</td>
<td>12 month guarantee</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TECHNICAL SUPPORT</th>
<th>PROFESSIONAL SUPPORT FROM OUR WELL TRAINED AND EXPERIENCED SPECIALISTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Performance analysis for optimized and efficient compressor operation</td>
<td>Emergency availability 24/7</td>
</tr>
<tr>
<td>Start-up support</td>
<td>On-site failure analysis</td>
</tr>
<tr>
<td>Troubleshooting</td>
<td>Online diagnostic support</td>
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<td>Root cause analysis</td>
<td>Consulting</td>
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<table>
<thead>
<tr>
<th>COMPONENT REPAIR</th>
<th>SAVE MONEY AND GET “AS NEW” GUARANTEE</th>
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</thead>
<tbody>
<tr>
<td>Condition analysis</td>
<td>Incorporation of the latest technology where possible</td>
</tr>
<tr>
<td>Recommendations concerning which parts can be repaired or need to be replaced</td>
<td>12 month guarantee</td>
</tr>
<tr>
<td></td>
<td>Repair of crossheads, piston rods, cylinder liners, bearings, pistons</td>
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</table>

<table>
<thead>
<tr>
<th>ENGINEERING SERVICES</th>
<th>SOPHISTICATED IN-HOUSE SIZING AND ANALYSIS TOOLS</th>
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</thead>
<tbody>
<tr>
<td>State-of-the-art pulsation and vibration analysis</td>
<td>Reverse engineering and reengineering for own as well as for other brand compressor systems</td>
</tr>
<tr>
<td>Finite element analysis</td>
<td>Dynamic analysis for any compressor parts</td>
</tr>
<tr>
<td>Unique analysis models for high pressure application</td>
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</tr>
</tbody>
</table>
### REVAMPS
**REJUVENATE OR TUNE YOUR COMPRESSOR**
- Modernizing
- Upgrades/retrofits
- Relocation of machines
- Debottlenecking
- Turn-key installations
- Operation mode studies for own as well as for other brand compressor systems
- Conversion from lubricated to non-lubricated conversions

### MONITORING AND DIAGNOSTICS
**EXTEND MEAN TIME BETWEEN OVERHAUL**
- Support for system evaluation
- Comprehensive customized service from diagnostic service to predictive maintenance
- Full-service agreements for maximum availability
- Online diagnostic services
- Broad experience through compressor installations in various processes
- Burckhardt Compression recommends **PROGNOST**

### COMPRESSOR TECHNOLOGY TRAINING
**HAVE YOUR OWN COMPRESSOR SPECIALISTS**
- Theoretical and practical training from our compressor experts
- Training center with full-size equipment (Laby®, Process Gas and Hyper Compressor)
- Standard trainings, customer specific programs on request

### SERVICE CENTERS WORLDWIDE
- Full range of services and top performing components through global organization and local service centers.
- 24 hours emergency: +41 52 262 53 53
RECIPROCATING COMPRESSORS
LEADING TECHNOLOGY FOR LOWEST LIFE CYCLE COSTS

- Laby® Compressors
  - Contactless and oil-free

- Laby®-GI Compressors
  - Fully balanced

- Process Gas Compressors
  - API 618 – lowest life cycle costs

- Hyper Compressors
  - Safe and reliable up to 3'500 bara / 51'000 psia

- Standard High Pressure Compressors
  - Compact package for demanding applications

COMPRESSOR COMPONENTS
BEST PERFORMANCE AND LONGEST LIFETIME

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

SERVICES
THE FULL RANGE

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

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Compressors for a Lifetime™