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Major On-site Repair of an Other Brand Labyrinth Piston Compressor in Indonesia

Burckhardt Compression received an order to repair a non-Burckhardt Compression compressor on-site in Indonesia.

Burckhardt Compression received an order from Indonesia to repair an other brand labyrinth piston compressor after an emergency incident. The compressor was used to compress oxygen in the bleaching process.

Inflamed oil vapor caused a grave explosion after oxygen entered into the crankgear. The crankgear got heavily damaged and had to be repaired urgently on-site by Burckhardt Compression's field service engineers together with the customers' service personnel. Spare parts, such as crossheads and bearing shells, were dispatched immediately from Switzerland to Indonesia and the existing valves were overhauled on-site. After three weeks of shut-down, the compressor was back in operation.

In 2006, Burckhardt Compression already received an order from the same customer to deliver a new Laby® (labyrinth piston) compressor. Start-up of the Laby® compressor was in December 2008. The Laby® has a unique labyrinth sealing system on piston and piston rod gland that allows oil-free and contact-free compression. Therefore the Laby® compressor is the ideal and safest solution for oxygen applications.

As an OEM (original equipment manufacturer) with over 160 years of experience in the design, manufacture and service of reciprocating compressors, Burckhardt Compression has a dedicated team of specialists and technical competence for revamps, overhauls, engineering services and repairs for other brand compressors (OBC). Productivity and availability improvements of existing reciprocating compressors or changing compression requirements often call for revamps or up-ratings. With Burckhardt Compression's in house state-of-the-art sizing and finite element analysis tools professional specialists can model and calculate any existing reciprocating compressor to improve compressor operation, increase load or re-engineer parts.

Laby® compressors are used for industrial gases, liquid gas transport and storage as well as in the chemical and petrochemical industry. The Laby® is designed to compress bone-dry, dirty, abrasive and other gases with a discharge pressure up to 300 bar (4350 psi) without contamination, flow up to 11'000 Nm³/h (6500 scfm), shaft power up to 2100 kW (2800 HP). Laby® compressors are extremely reliable machines with unexcelled availability, combining high performance with a unique cooling system.



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About Burckhardt Compression

Burckhardt Compression is one of the market leaders in the field of reciprocating compressor technology and the only manufacturer that offers a complete range of Laby® (labyrinth piston), process gas, and hyper compressors. These compressors are used in a wide range of applications in the chemical and petrochemical industry, in refineries, in air separation systems, and for gas transport and storage. Burckhardt Compression products are used to compress, cool or liquefy gas, for example hydrocarbon or industrial gases. Its customers include multinational companies in the oil, gas, petrochemicals and chemicals industries.

In addition to its thriving new installation business, a major driver of the company's success is its global service network, which generates a substantial share of company revenues. This global network enables Burckhardt Compression to offer comprehensive customer support services, such as delivery of top-quality components, servicing of compressor valves, complete system overhauls, engineering services and the fulfillment of comprehensive maintenance contracts.

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