

XperLUBE

Digital Commonrail Lubrication

Mastering cylinder lubrication and compressor reliability

Reliable cylinder lubrication is one of the most sensitive topics in the operation of reciprocating compressors. Incorrect oil metering can cause damage through both under- and over-lubrication. This, in turn, means unplanned downtime, costly production losses, or consequential damage elsewhere in the process.

Your lubrication experts

HOERBIGER developed XperLUBE to boost the performance and cost efficiency of your compressors. XperLUBE supplies your system with exactly the right amount of lubricant.

At all times. Under any conditions.

XperLUBE: modern lubrication management

Whether your lubrication issues stem from temperature, pressure, speed, or the failure of lube ports:

- XperLUBE is faster and more precise than manual control
- XperLUBE automatically supplies exactly the right amount of lubricant to suit your specific requirements and the current operating conditions
- When the process changes, the lube rate changes

Technical data of XperLUBE

Ambient temperature:	-25°C to 60°C (up to 95°C for injectors)
Max cylinder gas pressure:	375 bar
Max speed:	no restriction
Certificates:	ATEX, IECEx
Conforms to API 618:	yes

Easy installation and integration

- “Plug-and-Play” cylinder and packing lubrication system
- Easy diagnostics to find malfunctioning injectors

Efficient and reliable operation

- Precise and reliable lube rate management
- No unplanned shut downs due to compressor damages caused by under- or over-lubrication
- Real-time automated monitoring, control and adjustment of oil flow rates for each lube point

Simple and inexpensive maintenance

- Standardized parts for all compressors and applications
- System components can be individually and quickly replaced
- Inspection intervals of the injectors are individually adjusted to maintenance intervals of the compressor

Simple setup, maximum effect

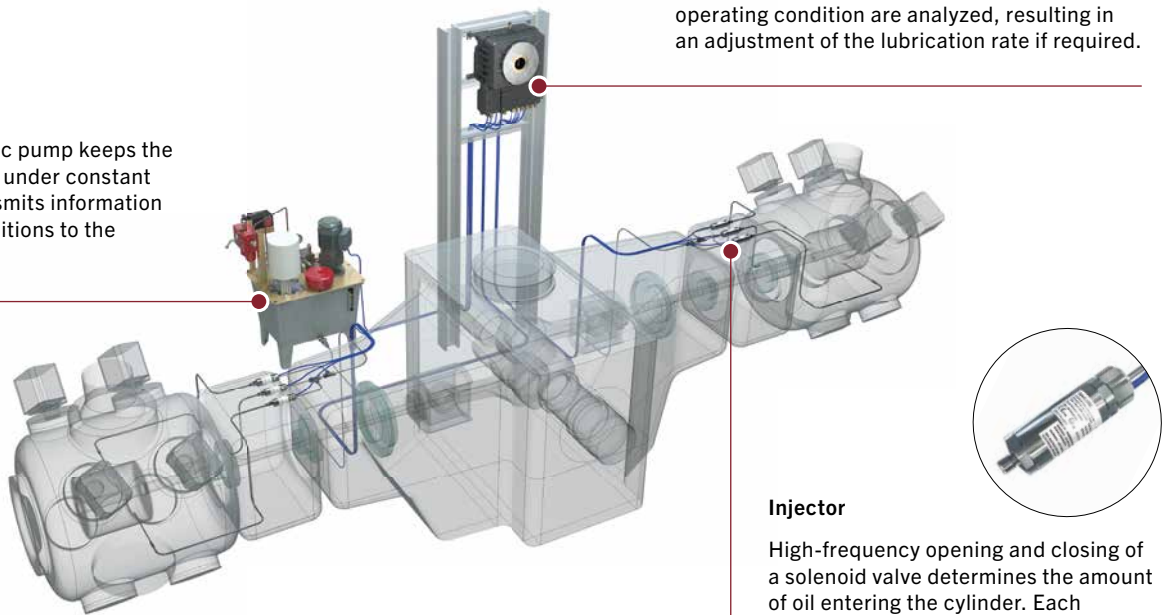
The XperLUBE system unites value-adding functionalities with easy integration and maintenance. The idea behind XperLUBE is simple. By disconnecting the oil pressure generation from the process of injecting oil into the cylinder, lubrication precision is greatly increased. A high-pressure common rail supplies oil to the lubrication points. Metering and injection is achieved with injectors, one at each lube point. At the center of the system, a control unit monitors the performance of all injectors and adjusts lubrication rates according to preset parameters. The same injector and hydraulic unit models are used in all applications.

ExBox-L

In this central control unit, all the data on the lubrication process is monitored in real time. Deviations from preset values for a given operating condition are analyzed, resulting in an adjustment of the lubrication rate if required.

Hydraulic Unit

A centralized hydraulic pump keeps the oil in the common rail under constant high pressure. It transmits information on the oil supply conditions to the ExBox-L.



Injector

High-frequency opening and closing of a solenoid valve determines the amount of oil entering the cylinder. Each injector is connected hydraulically to the common rail and electrically to the ExBox-L for power supply and data transmission. Adjustment of injector performance to operating conditions is software controlled.





Learn more by visiting
www.hoerbiger.com/xperlube
today!



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Locally close to the customers – globally successful: HOERBIGER is active worldwide in 43 countries on all continents. 6,174 employees at 133 locations – including 30 production plants – deliver reliable solutions for better performance, increased safety, and fewer emissions. In 2023, they generated sales of 1.416 billion euros. For renowned customers from the energy sector, the process industry, the automotive industry, the mechanical engineering industry, safety technology, and the electronics industry, performance-determining products and services from HOERBIGER make the difference. With innovations for decarbonization and energy transition, HOERBIGER is already enabling change today for a better tomorrow. As majority shareholder, the HOERBIGER Foundation preserves the 129-year-old entrepreneurial heritage and guarantees stability, independence, and a future-oriented strategy.

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