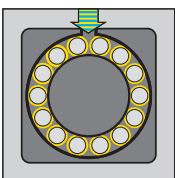


Stahl-Zentrum, Düsseldorf; SMS Siemag



Industry-specific solutions from REBS

TURBOLUB® Oil/Air Lubrication System on rolling mill stands

REBS TURBOLUB® oil/air lubrication system – for maximum process safety on rolling mill stands

The TURBOLUB® oil/air lubrication system with monitoring systems boasting precise settings to maximise the process safety in rolling mills. The service life of the bearings is increased and expensive bearing failures avoided.

The challenges placed on an efficient bearing lubrication system at roll stands are a result of high thermal loads, as well as the risk of the inflow of coolant, emulsion, rust and scale, and dust, etc. An additional temperature increase is produced in many grease and oil lubrication processes through over-lubrication and the associated high churning forces in the bearings.

These factors reduce the service life of the bearings significantly. In addition, they result in considerable repair costs and excessive lubricant consumption, which leads to unnecessarily high environment pollution. The generally insufficient monitoring of conventional lubrication processes at roll stands also lowers the process safety by an alarming amount. Problems with the lubrication system thus often only become apparent after the occurrence of expensive bearing damage. Permanent monitoring of all main lines to the mounting parts is therefore essential for the cost-conscious operator.

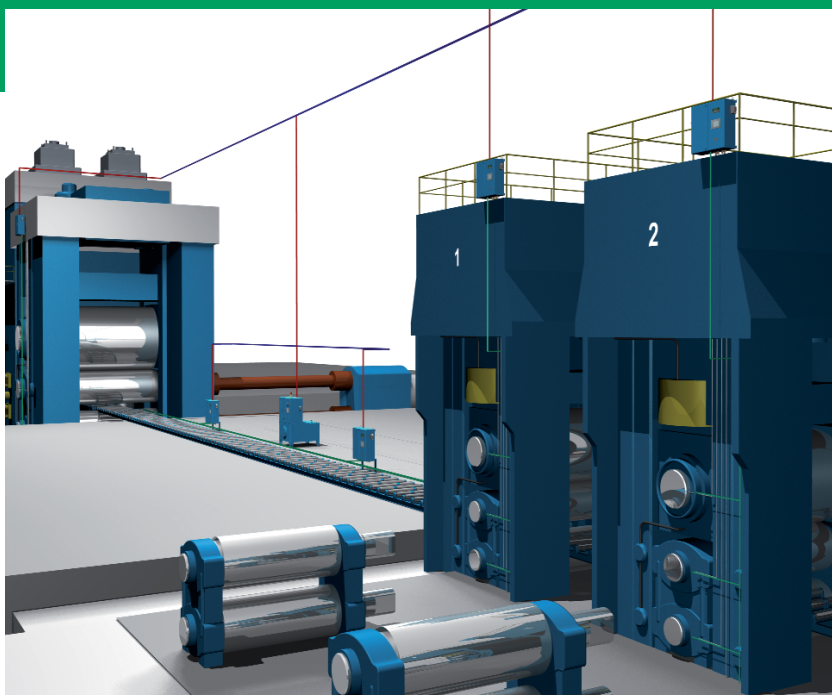
The patented TURBOLUB® oil/air lubrication system from REBS Zentralschmiertechnik GmbH is the optimum solution to notably extend the service life of bearings at roll stands. With the precise metered supply of a minimal amount of lubricant, over-lubrication and increased friction in the bearings are reliably prevented. At the same time, a low amount of overpressure prevents the inflow of foreign particles into the bearing or seal. The distribution of the lubricant on the different wear points is effected without moving parts – it is

thus wear-free. The patented PRX-TEC flow measurement system, as well as the PRXD flow check, ensure the highest possible process safety. Depending on the design of the lubrication system they permit the precise check of the individual outlets and thus prevent expensive bearing damage.



The PRX-TEC flow measurement system

Versions of the TURBOLUB® system with a return system protect the environment and ensure a clean return of the lubricant. Furthermore, REBS Zentralschmiertechnik GmbH offers the TURBOLUB® lubrication system with a return system, which makes possible the reuse of the oil after a thorough quality check. System parts that are located far apart from one another can be supplied with lubricant using **one** lubrication system thanks to the satellite version of the TURBOLUB® system. In the case of an expansion of the lubrication system, retrofitting with further SAT stations is possible at any time.



REBS TURBOLUB® system on rolling mill stands

- ▶ Considerable extension of service life of bearings
- ▶ Avoidance of expensive downtimes and bearing failures
- ▶ Maximum process safety through precise monitoring of the individual outlets
- ▶ Reliable protection against the inflow of foreign particles and water into the bearing and seal
- ▶ Wear-free distribution of the lubricant (no moving parts)
- ▶ Significant reduction of lubricant consumption due to precise supply of minimum amount of lubricant
- ▶ Avoidance of increased churning forces due to minimal amounts of lubricant
- ▶ Optional return system
- ▶ Supply of system parts located far apart from one another using **one** lubrication system (satellite system)
- ▶ Environmentally-friendly (no mist from lubricant)