

TURBOLUB®

Oil/air lubrication

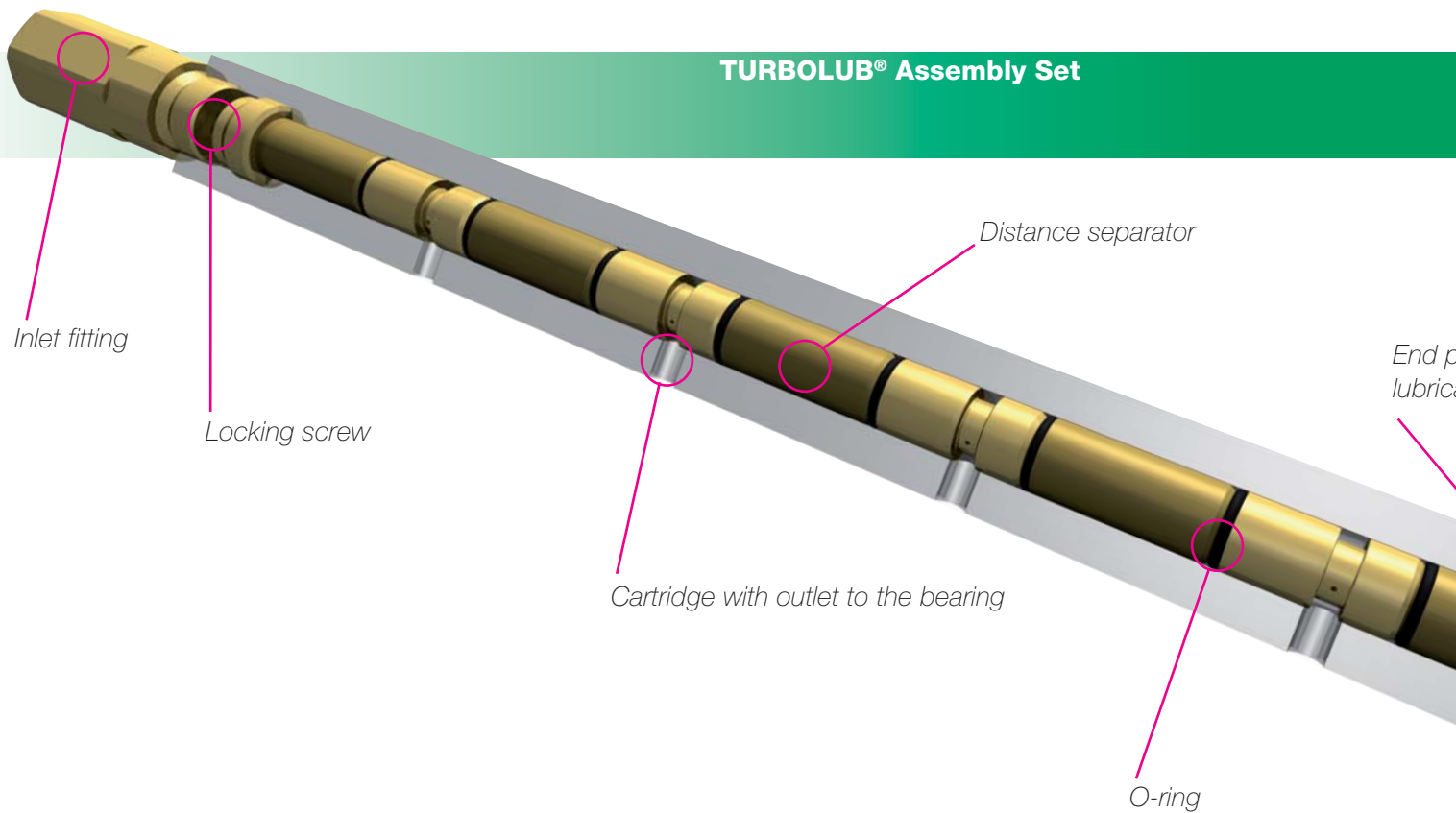
The company

REBS impresses with its decades of experience and uncompromising product quality. We are continuously developing individual solutions for customers from diverse industries.

REBS Zentralschmiertechnik GmbH was founded in 1948 by Alexander Aristides Rebs, the inventor of the progressive distributor (1936). Today the family business is the leading provider of central lubrication systems in many areas. With over 130 employees worldwide we are continuously developing new tailor-made solutions.

With the market and the needs of our customers always at the forefront, the company REBS Zentralschmiertechnik GmbH, together with its subsidiaries REBS TURBOLUB GmbH and REBS Lubrication Technology Ltd., Shanghai, are constantly growing. Our innovative

power is reflected in the constantly new patents. Global companies ranging from small companies to technology leaders from the steel, automotive and chemicals industries, among others, trust our know-how and expertise. Customer proximity, reliability and the high quality of our systems, developed and manufactured in Ratingen (Germany), have been a guarantee for maximum value creation for our customers for over 60 years. The certification of our quality management system in accordance with DIN EN ISO 9001 and the specific requests of our customers are particularly important to us.



TURBOLUB® Oil/air lubrication

TURBOLUB® oil/air lubrication

The TURBOLUB® system is adapted precisely to the customer application. Temperature increase caused by friction, as well as the penetration of foreign particles, are prevented. The service life of parts are increased and the time and costs spend on maintenance minimised.

The patented REBS TURBOLUB® oil/air lubrication is the world's most used oil/air lubrication system in the steel industry with over 1,000 systems. Through customer-oriented planning REBS Zentralschmiertechnik GmbH develops first-class solutions for every application. System parts that are located far apart from one another can be supplied with **one** lubrication system via the satellite system and REBS offers environment-conscious customers innovative solutions with an optional return function for the oil.

With the exact distribution of a minimal quantity of the lubricant the TURBOLUB® prevents increased roll force on the

bearings and a related temperature increase. A small amount of overpressure in the bearing prevents the penetration of foreign particles and water. The distribution of the oil/air flow is effected without moving parts, thus making the system wear-free. With the TURBOLUB® system and our decades of experience you maximise the process safety and reduce your costs considerably.

Problems with incorrect lubrication on roller bearings

- Reduced life as a result of temperature increase in bearings
- Timely and costly maintenance work required

Compact systems

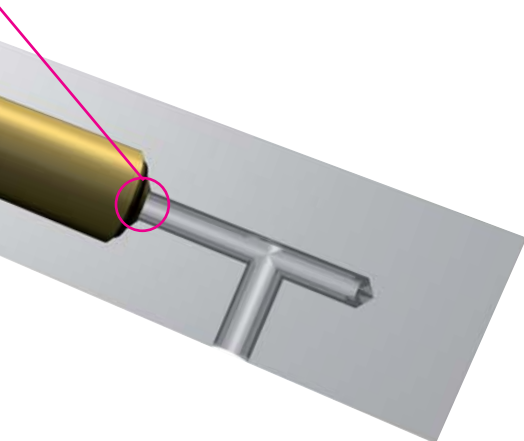
Small systems

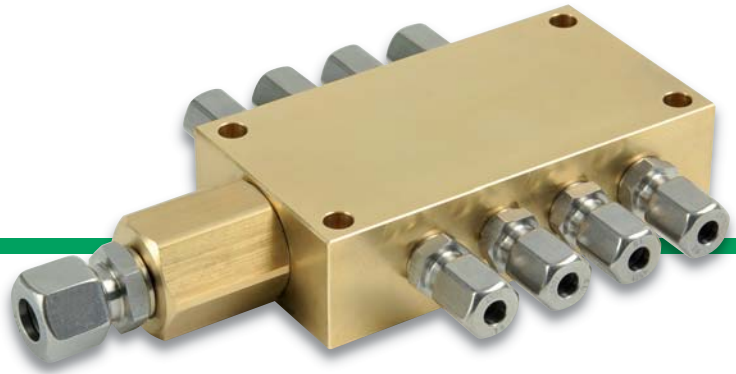
- Tank sizes of 2.5 – 70 L
- for small to medium number of lubrication points
- Individual applications
- preferred for the lubrication of small systems

Standard compact systems

- Tank sizes of 100 – 1,000 L
- for a large number of lubrication points in a restricted space environment
- preferred for the lubrication of mill stands

piece with outlet to the lubricating point (bearing seal)





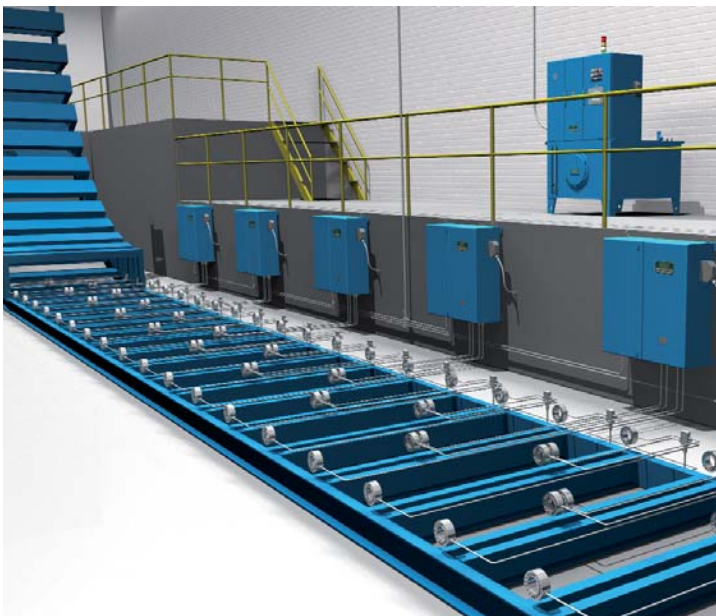
- Permanent penetration of dirt and water
- Temperature increase and wear as a result of the rolling force of the bearing
- Excessive lubricant consumption with resulting environmental pollution

Advantages of the TURBOLUB® system

- ▶ Maximum process safety through function monitoring of the complete system
- ▶ Significantly reduced repair costs
- ▶ Considerable reduction of lubricant consumption
- ▶ Very well suited for high loads and high speeds
- ▶ Simple installation
- ▶ Return function, optional return possible
- ▶ Health and environment-friendly (no mist or fog from lubricant)
- ▶ Significant increase in life of bearings
- ▶ Pressurized bearing cavity ensures minimal ingress of contaminants

TURBOLUB® satellite systems

- Tank sizes of 500 – 10,000 L
- for a large number of lubrication points that are located far apart from one another
- suitable for continuous casting plants, roller tables and rolling mills

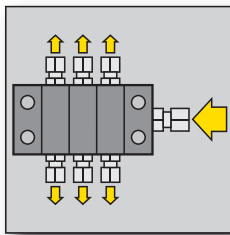


Return systems

- Tank sizes of 250 – 1,000 L
- suitable for all types of lubrication system
- re-use of the lubricant depends on the application (after quality check of the oil)

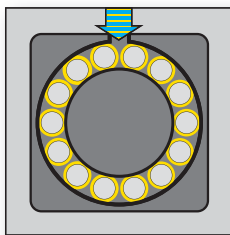


The core business of REBS Zentralschmiertechnik GmbH



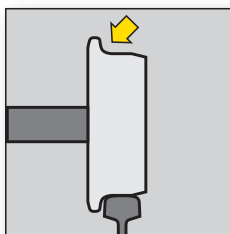
Central lubrication

- Progressive distributor
- Dual-line distributor
- Special distributor



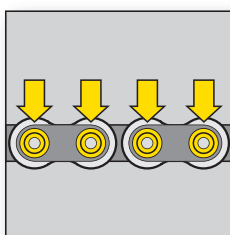
TURBOLUB® oil/air lubrication

- Compact systems
- SAT system with and without return line
- Special systems



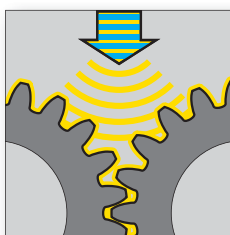
Rail engineering

- Wheel flange lubrication
- Rail head treatment
- Overhead contact wire de-icing



Automatic chain lubrication

- Squirt lubrication
- Spray lubrication
- Contact lubrication



Spray lubrication

- with semi-fluid grease
- with grease up to consistency class 2
- with lubricants containing solid matter

**In addition, we also offer a
variety of customer-specific solutions.**

Further information on the following themes is available upon request:

- Continuous casting plants
- Roller tables
- Rolling mill stands
- Z-mills
- Tandem mills
- Levelling machines