



Rail Head/ Top of Rail Treatment (TOR)

Reduction of noise and wear through precision – economical and efficient

Fine metering for smooth journey

To reduce noise for decades transport companies around the world have been successfully using REBS rail head treatment systems in service and line vehicles.



Trams are a typical application example



(Shunting) locomotives are a typical application example

With these systems the cornering squeal is reduced significantly and generally eliminated completely. In addition, the systems reliably counteract rail wear and corrugation.

With the REBS rail head treatment system thanks to the TURBOLUB® principle it is possible to spray a lubricant containing solid material (high proportion of graphite and aluminium) with extremely precise metering through the curve and onto the rail surface. In comparison to other procedures, lubricants containing a considerably higher amount of solid materials can be used. The wear and thus noise are dramatically reduced. Thanks to the minimum lubricant consumption the REBS rail head treatment systems pay for themselves within a very short time. Treating the rail head with minimum quantities of lubricant means unbeatable efficiency and reliable comfort for residents and passengers.

In cooperation with Deutsche Bahn and the public utilities company Stadtwerke Bonn, REBS Zentralschmiertechnik GmbH is setting many, some patented, milestones in the development of rail head treatment systems. Thanks to these developments the systems can be activated for example using transponder technology or satellite navigation. In cooperation with customers, REBS performs salt spray tests, shock and vibration tests, as well as other recognised quality tests. These tests ensure that the REBS systems constantly satisfy the highest requirements and guarantee maximum process reliability, even in adverse environment conditions. In addition to standard solutions, the portfolio of

Advantages:

- ▶ considerable reduction in noise and wear
- ▶ avoidance of cornering squeal
- ▶ avoidance of rail corrugation thanks to the high solid matter content
- ▶ reduction of the friction coefficient (corresponding to the friction coefficient when rails are wet)
- ▶ reduced lubricant consumption
- ▶ system requiring low maintenance
- ▶ long service life of the REBS system
- ▶ tried-and-tested systems
- ▶ user friendliness of entire system

REBS Zentralschmiertechnik GmbH also includes rail head treatment systems which are coordinated precisely to the individual application and rail type. REBS also offers tried-and-tested solutions for extreme environmental conditions or for restricted installation dimensions.

Your benefits:

- ▶ considerable reduction in noise (e.g. high-frequency cornering squeal)
- ▶ cost-savings thanks to reduction in wear
- ▶ maximum process reliability
- ▶ unbeatable efficiency
- ▶ quickly pays for itself
- ▶ high availability