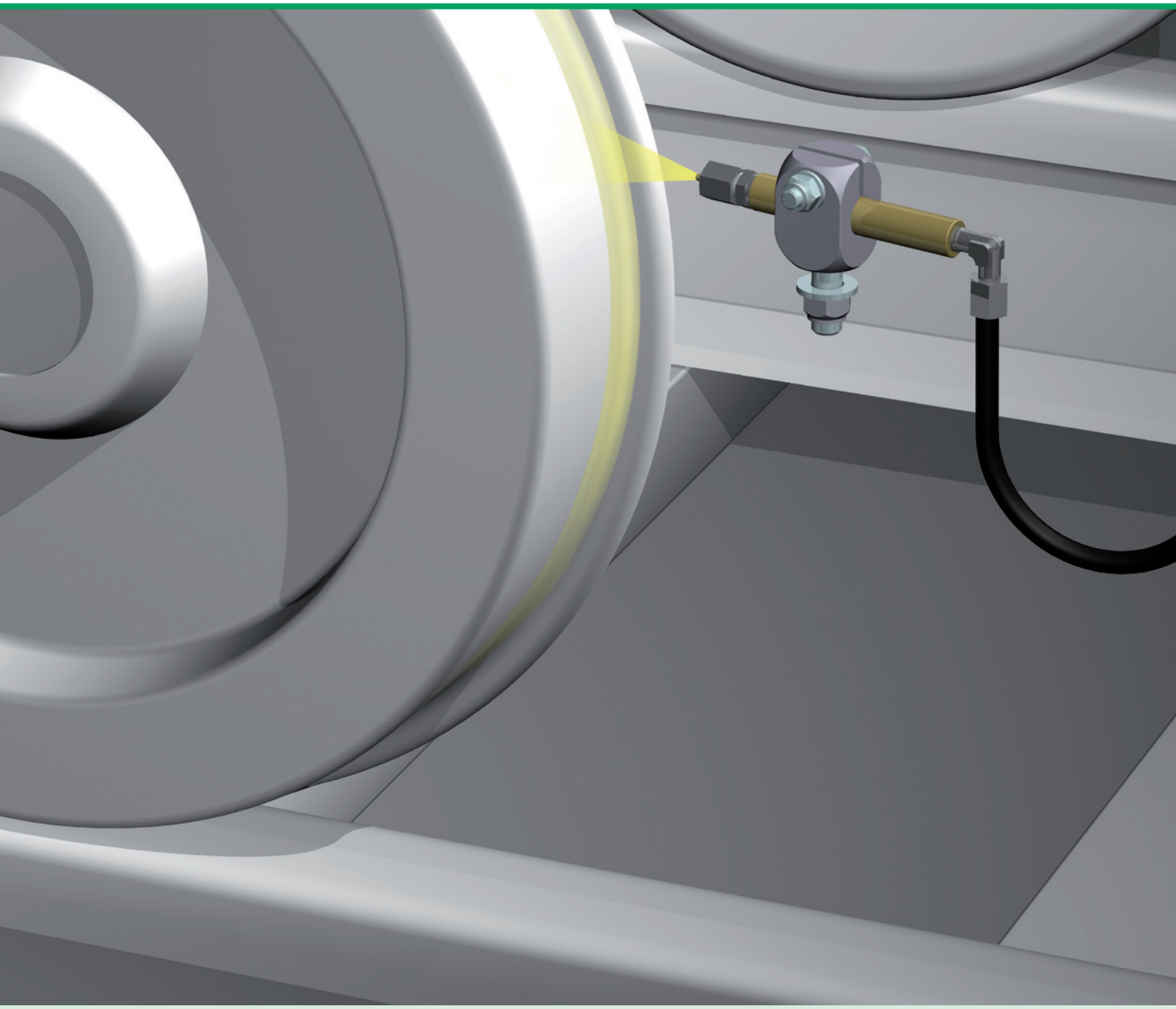
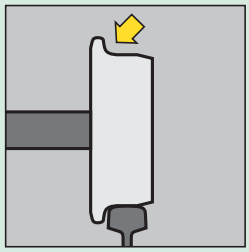
REBS
Zentralschmiertechnik

Our target: No friction.





Wheel flange lubrication (WFL)

Reduction of noise and wear through precision – economical and efficient

REBS
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Our target: No friction.

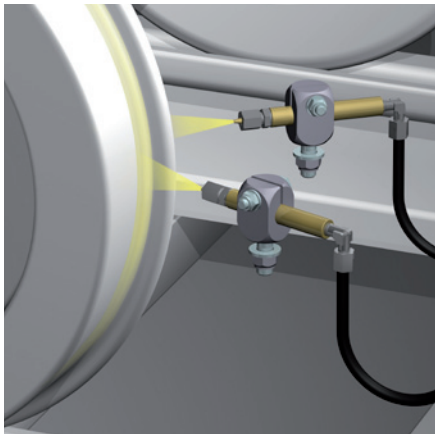
Essential for sharp bends

Reduction in wear and friction for high-speed trains, metros, trams, multiple units, locomotives, etc. represents huge savings potential for rail operators.

With a reliable wheel flange lubrication system rail companies are able to fully exhaust this potential. REBS Zentralschmiertechnik GmbH paves the way for this with the development of the monotube procedure. The lubricant is conveyed on the turbulent air flow along the inner wall of the feeding tube to a nozzle. Here the air flow is accelerated spraying the lubricant in very fine droplets onto the wheel flange and coating it without being spun off – this increases the efficiency and also protects the environment.

Advantages:

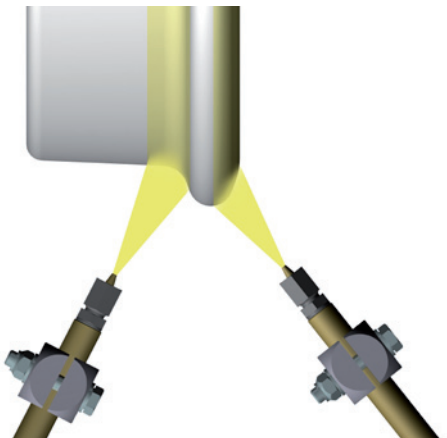
- considerable reduction in wear and noise
- freely programmable, simple control system
- high efficiency thanks to minimal lubricant consumption
- no spin-off of lubricant
- system requiring low maintenance
- maintenance-free distributor
- distributor can be installed in any position
- long service life of the REBS lubrication system
- uncomplicated structure
- user friendliness of entire system



The lubricant is dispensed into very fine droplets and sprayed onto the wheel flange.

The wear of the wheel-rail interface is reduced significantly with the use of REBS wheel flange lubrication systems. Customers of REBS Zentralschmiertechnik GmbH report that the reprofiling intervals of the wheels are extended twenty- to forty-fold depending on the application. According to rail companies, the wear is reduced with the REBS wheel flange lubrication systems to the extent that in some cases it is no longer measurable. A further reduction in the noise level is achieved in particular with use of lubricants with a high solid material content. Thanks to the high efficiency of REBS wheel flange lubrication systems, even the retrofitting on older vehicles is worthwhile - the lubrication systems pay for themselves within a very short time.

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 REBS Zentralschmiertechnik GmbH also includes wheel flange lubrication 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:

- cost-savings thanks to longer reprofiling intervals
- reduction in noise level (e.g. high-frequency cornering squeals)
- maximum process reliability
- quickly pays for itself
- high availability

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