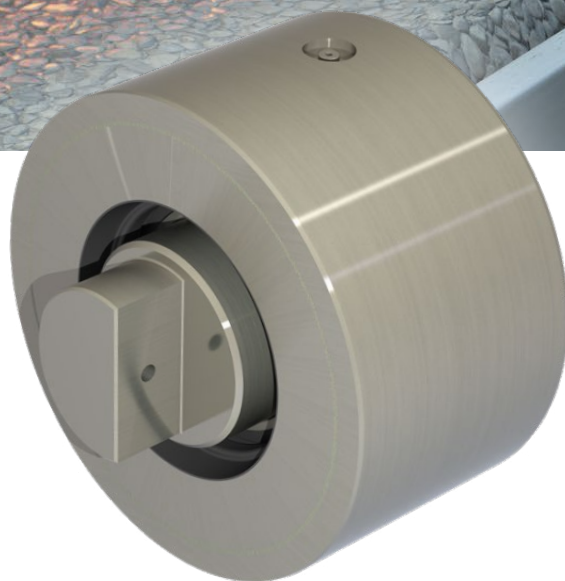




Next Stop: Durability

Hydraulic Wheelset
Guiding Bushes



Greater durability. Less wear and tear.

Hydraulic Wheelset Guiding Bushes

Reducing the wear on wheels and rails is crucial when it comes to minimizing maintenance costs and avoiding track closures. At the same time, the wheel set needs to align optimally with the course of the track while still ensuring high directional stability. Traditional solutions represent a compromise between soft wheelset guidance in curves and hard guidance on straight sections at high speeds.

Continental addresses this challenge with hydraulic wheelset guiding bushes whose longitudinal rigidity adapts in response to the excitation frequency. This provides high longitudinal rigidity for stable straight-line travel, as well as low rigidity for improved alignment with curves. With a so-far unmatched ratio of up to 15 between static and dynamic longitudinal rigidity, our hydraulic wheelset guiding bushes set new benchmarks.

The innovative design ensures that the internal hydraulic system maintains these characteristics throughout the entire service life of the bushes, thereby guaranteeing exceptional performance and durability.

Optimized wheel-rail interaction reduces wear on both components, which means longer intervals for maintenance and replacement of parts. At the same time, adapting the rigidity in line with track conditions helps to ensure safe rail travel.

To facilitate integration, the interfaces to the steering gear and bogie, including the outer diameter, width and bolt geometry, can be adapted to existing conventional wheelset guiding bushes. This makes replacement in existing rolling stock quick and easy.

Benefits and features



A factor of 15 between static and dynamic rigidity



Extended service life for wheels and rails



Lower maintenance costs



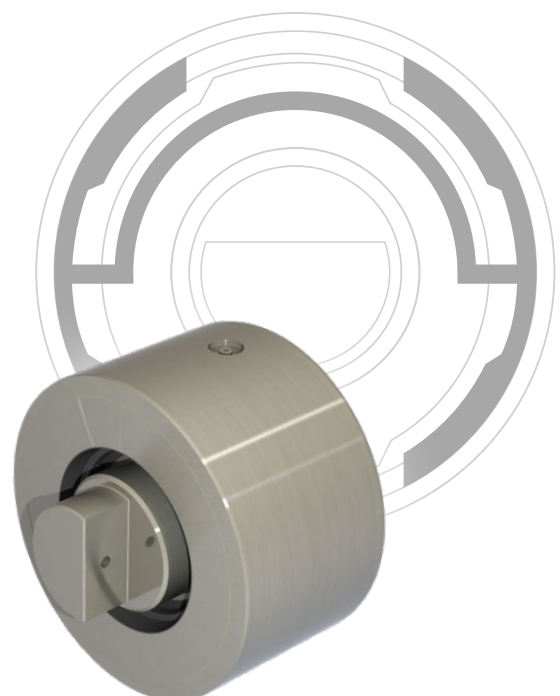
Possible lower track usage charges



Improved maintenance planning



Easy installation without modifying the bogie



Additional information

- › **Reliable air-free filling** using vacuum technology
- › **100% sweep measurement** in series production
- › **Robust design with reliable sealing**
thanks to laser welding technology
- › **In-house fluid production** with optimally adjusted
viscosity
- › Fluorescent additive in the fluid for **easy
leak detection**



ContiTech Deutschland GmbH
Philipsbornstraße 1
30165 Hannover

Please contact us:
www.continental-industry.com



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