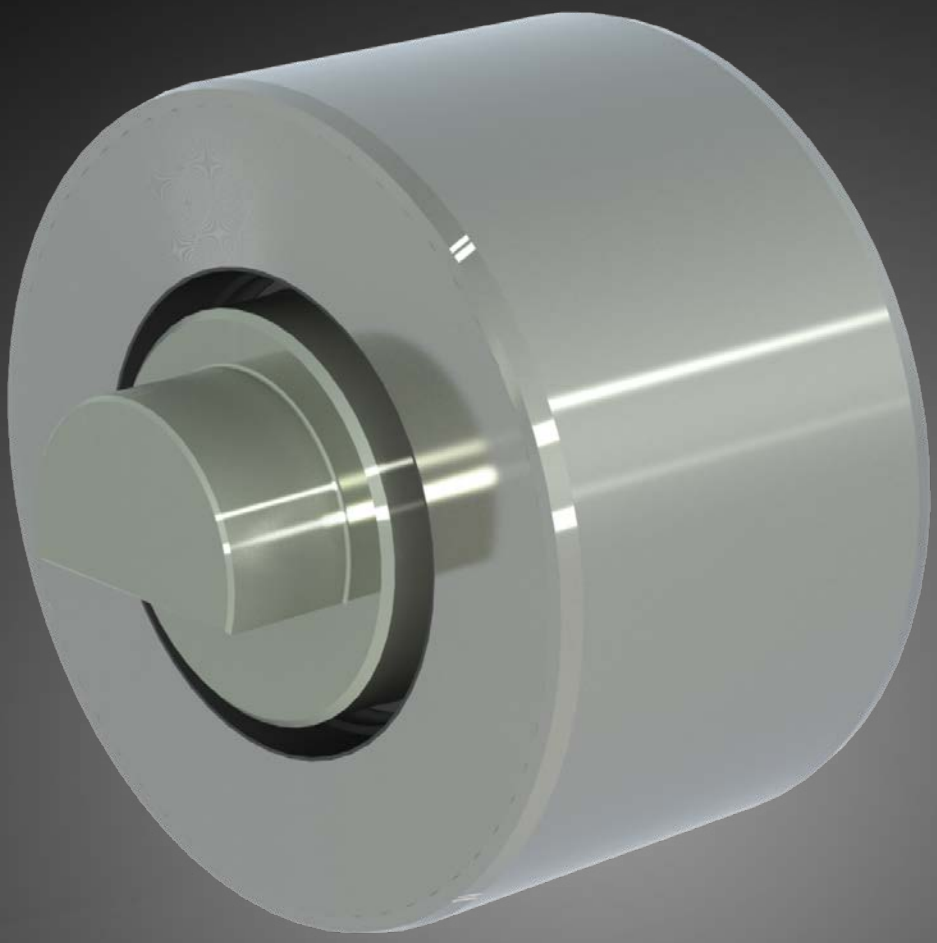
Continental
The Future in Motion



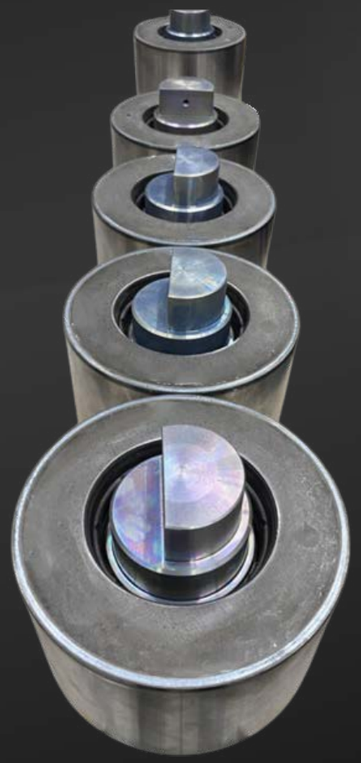
Hydraulic Wheelset Guiding Bushes

Ensuring Smooth and Safe Train Operation

Continental is Improving Wheelset Guidance and Reducing Wheel/Rail Wear

Continental is combining two functions into one solution: designed to keep our customers' trains running smoothly and reliably, the Hydraulic Wheelset Guiding Bushes meet the need for hard wheelset guidance on straight tracks at potentially high speeds and soft wheelset guidance for navigating curves and switches.

Where previous solutions required compromises between comfort and safety, Continental resolves this conflict with a Hydraulic Wheelset Guiding Bush that adjusts its longitudinal stiffness based on the excitation frequency. This allows for high longitudinal stiffness during straight-line movement and low longitudinal stiffness when cornering.

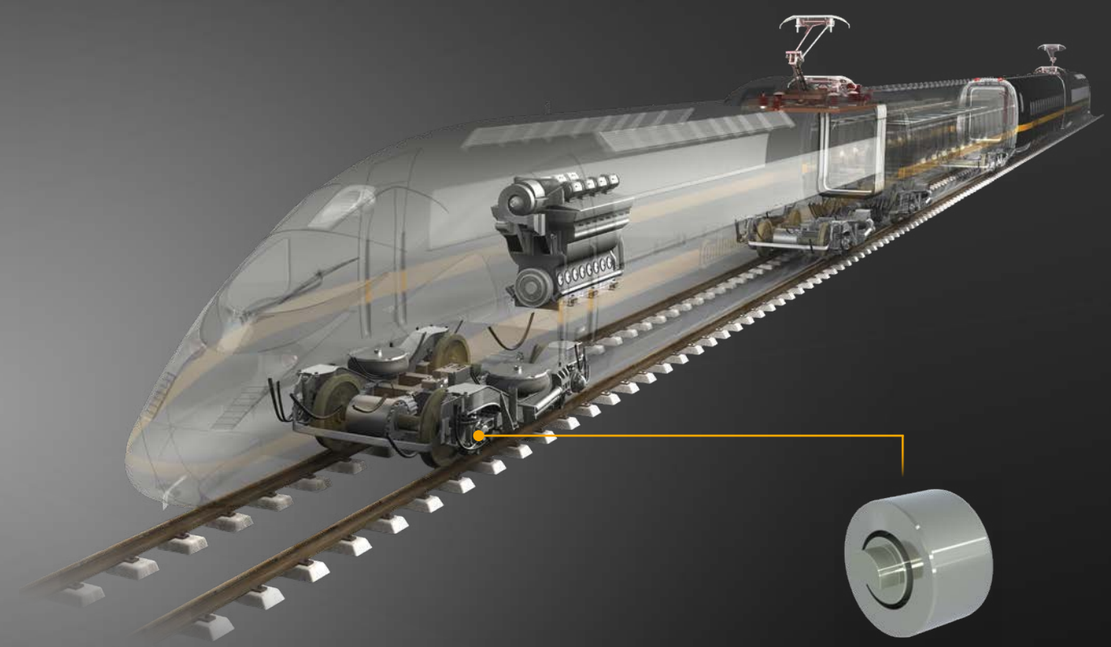


Benefits:

- Possible factor of 15 between static and dynamic longtitudal stiffness
- Increased lifespan of wheels and rails
- Lower maintenance costs
- Possibly lower rail usage fees
- More predictable maintenance
- Easy installation without modification of the bogie

Tailor-Made to our Customers' Needs

Continental sets itself apart with its excellent mounting, filling and measurement process. Each bushing is carefully manufactured to our customers' specifications and extensively tested in-house.



- **In-house fluid production with optimally adjusted viscosity**
- **Further testing possibilities such as fatigue testing**
- **Safe, air-free filling of the bushes using vacuum technology**
- **Fluorescent additive in the fluid for easy leak detection**
- **100 percent inspection through dynamic stiffness measurement in series production**
- **Stable design with reliable sealing performance thanks to laser welding technology**

ContiTech Deutschland GmbH
Continental Plaza 1
30173 Hanover, Germany
(PO Box 169 | 30001 Hanover | Germany)
Phone +49 511 938-71
mailservice@contitech.de

Continental
The Future in Motion