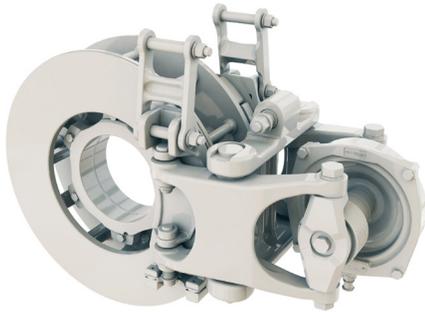


5L next –  
next generation of  
freight wagons.

Wabtec Faiveley FreightFlexx  
Friction Pair

Wabtec Freight Europe

# Wabtec Faiveley FreightFlexx Friction Pair.



Friction Pair.

## 5L next – next generation of freight wagons.

Market changes, such as the fast-paced innovation on the roads or rising customer demands, are posing major challenges for European rail freight companies. But opportunities opened up by new technology offer great potential for developing the efficiency of freight services.

Innovative freight wagons are key to being able to take full advantage of the Internet of Things (IoT) and automation. As part of the 5L initiative, SBB Cargo, Hupac, VTG and the Federal Office for the Environment (FOEN) as well as many suppliers are developing the next generation of freight wagons.

The next generation is being completely redesigned. The chassis, for example, is considerably lighter than that of a conventional standard flat wagon. The middle segment is not welded but riveted and bolted – just like the light-weight production methods from the lorry sector. SBB Cargo's extensive modernisation steps offer major benefits for customers, wagon keepers, railway undertakings and infrastructure. Find out more at [www.sbbcargo.com/innovation](http://www.sbbcargo.com/innovation)

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**The FreightFlexx Friction Pair is a modular steel disc combined with optimized sinter pads. The disc is the lightest on the market and offers a minimum double life time vs. cast iron technology. With the Light Weight Caliper, the complete unit is the market best product in weight and life time.**

The FreightFlexx Axle Mounted Disc is based on the NeoFlexx® technology which consists of assembling semi-finished raw material by electron-beam welding. The FreightFlexx steel disc and its optimized sinter pads were developed as a whole Friction Pair in order to reach the best performances and lowest Life Cycle Costs. In a Two Disc per Axle arrangement (2 DPA), the FreightFlexx disc is less than 86 kg. Weight savings - versus the state-of-the-art cast iron technology - translate into more payload, less unsprung mass and less energy consumption. FreightFlexx disc has a proven minimum double life time compared to cast iron. Disc life time can then be aligned to the wheel life time, and even up to the wagon life time. It is validated and available for new builds, overhaul and conversion projects. The NeoFlexx® concept is a highly adaptable design (material, diameter, width, friction volume, etc.) which can be tailor made to cope with specific requirements (high force, high mileage, light weight, low LCC, etc.). It is the most promising candidate for the One Disc per Axle arrangement (1 DPA) currently under development in Wabtec Faiveley.

## Company.

Wabtec is a diversified, global leader in equipment, components, services, software and systems for the transportation industry. Drawing on nearly four centuries of collective experience across Wabtec, GE Transportation and Faiveley Transport, the company is paving the way in safety, efficiency, reliability and productivity. As an integrated solutions partner, Wabtec provides innovative solutions for the transportation industry by improving interoperability, efficiency and competitiveness for customers.

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