



Innovating
to improve
performance
and safety



FreightFlexx Friction Pair

Modular disc brake solution
for freight application



**Market best weight &
Life Cycle Costs**

Wabtec Faiveley FreightFlexx Axle Mounted Disc is based on the NeoFlexx® technology which consists of assembling semi finished raw material by electron-beam welding. The FreightFlexx design and material are adapted to meet the Freight wagons requirements with the aim to improve the state of the art & historically used Cast Iron disc.

The concept allows a highly adaptable design (diameter, width, friction volume,...) to offer the longest life time and lightest axle mounted disc for freight applications in the market.

The FreightFlexx disc + sinter pads were developed as a whole Friction Pair in order to reach optimum performances and LCC.



CUSTOMER BENEFITS :

- + **Highly adaptable design**
- + **Lightest disc in the market - more payload, less unsprung mass, less energy**
- + **Life Time aligned with wheel life time at least, and up to wagon life time**
- + **Twice less LCC vs. cast iron (base version)**
- + **Easy installation**

Prototype



Ready to quote



Ready to produce



In production



System perimeter:

- Disc & sinter pads
- Pad wear indication in option
- Combined with the lightweight caliper for light brake station

Target application:

- All types of freight wagons
- New builds, overhaul and conversion projects
- 2 discs per axle arrangement

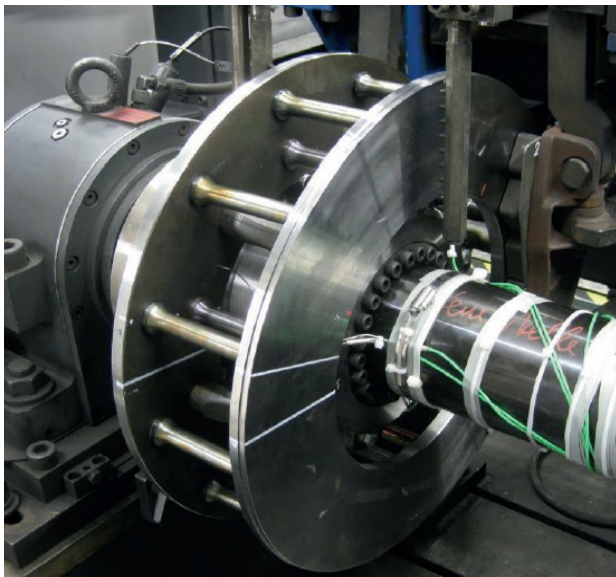
References:

Successfully implemented on VTG/BMVI & VTG/BAFU demonstrator trains

- Disc designed according to EN14535 standard
- Disc design integrity validated according to the latest simulation tools (FCD, FEM, etc.) and REX on the NeoFlexx® disc
- Friction pair validated by dynamometer testing according to UIC 541-3 program A1, TSI stop/drag braking and limite performance tests.
- Successful TSI slip tests on two different types of wagons (tank and container)
- Monitored field tests started January 2018

Specifications

Disc dimensions	Ø 590 x 170 mm (base version)
Disc wear limit	7 mm on each side (base version)
Disc weight	86 kg (base version)
Disc material	Steel
Disc hub diameter	206 mm H6
Pad	Sinter material, UIC shape



To discover the benefits the **FreightFlexx Friction Pair** can bring to your operations, please contact:

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