

5L next –
next generation of
freight wagons.

BONATRANS wheelsets for freight
application Type I and Type II.

BONATRANS

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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 lightweight 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

Contact.

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Optimised freight transport wheelset Type I and Type II with improved wheel steel grade of BONASTAR® family and BONASILENCE® designed damping devices for noise reduction.

The wheelset is based on BONATRANS proven wheelset design with the wheel straight web for the weight reduction in combination with two brake discs on the axle for effective braking. The wheels are provided with optimised BONASTAR® ER8 steel grade with improved mechanical properties within the range of EN 13262 for higher endurance in the service. The wheelset axle is designed with additional safety margins for in service operation in order to minimise the needs for maintenance.

Wheelset Type I includes two damping rings BONASILENCE®R. This solution brings reduction of the wheel rolling noise up to 4 dB(A) and reduction of the squealing noise on a range of 5 – 20 dB(A) in frequency band/bands.

Wheelset Type II includes two damping rings and the plate damper BONASILENCE®PR. The plate damper is designed to be reused after the wheel replacement. The reduction of the wheel rolling noise is up to 7 dB(A) and reduction of the squealing noise is on a range of 5 – 30 dB(A) in frequency band/bands.

Company.

BONATRANS is the Premium Supplier of wheelsets and parts thereof – wheels, axles, tyres, centres, etc. for rail bound transportation worldwide. It has a strong R&D department with decades of experience in development and homologation of tailored made solutions. It cares for all stages of the products' life cycle – from design, optimization and validation, to in-service monitoring and LCC management.

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