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FREIGHT



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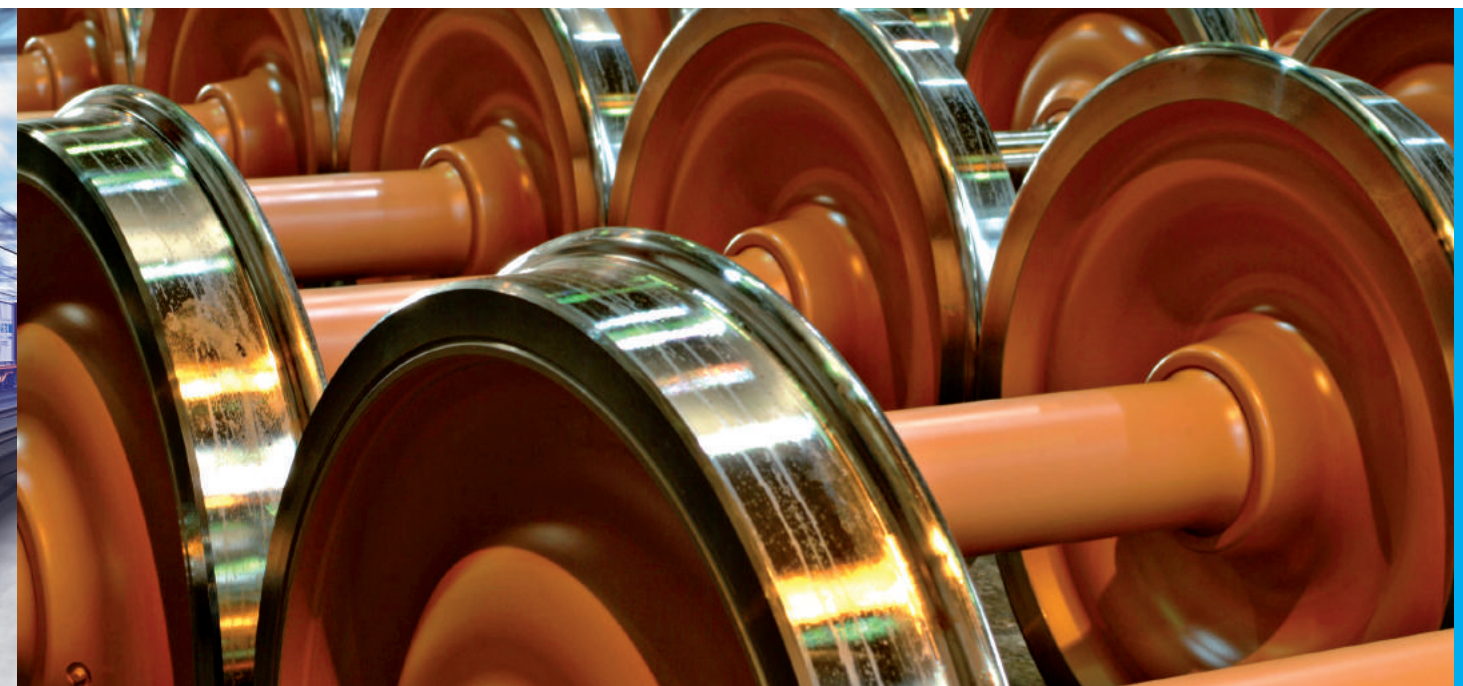
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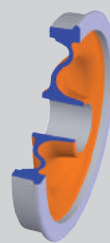
Freight

Safety and long service life

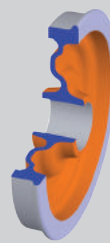
Stress optimised wheels



BONATrans 29
Very high stability
under high thermal
loading



BONATrans BBS
Very high stability
under high thermal
loading



CHARAKTERISTICS OF GHH-BONATRANS OPTIMIZED WHEELS

BONATRANS 29

- Low weight – from 312 kg for a wheel with a diameter of 920 mm
- Axle load up to 25 tonnes and more
- Nominal diameter of the wheel: 813-920 mm, other diameters are possible upon customer request
- Steel grade: mainly ER7 with a hardened rim according to the European standard EN 13262.
- Certificates: UIC (510-5), DB (Ba 314/324), SBB (Db10/77/97), OBB, ČD, ŽS, PKP, VR, Network Rail and more
- Certified to TSI in accordance with the subsystem "Rolling Stock - Freight Wagons"

BONATRANS BBS

- Particularly good resistance to increased thermal stress. Optimal wheel for railway cars equipped with composite brake blocks (materials K, L, LL).
- Axle load up to 25 tonnes and more
- Nominal diameter of the wheel: 730-920 mm, other diameters are possible upon customer request
- Steel grade: mainly ER7 with a hardened rim according to the European standard EN 13262.
- Certificates: UIC (510-5), DB (Ba 318/319), SBB (Db-11sa), SNCB, SNCF, OBB and more
- Certified to TSI in accordance with the subsystem "Rolling Stock - Freight Wagons"

Safety and Long Service Life under Extreme Loads

GHH-BONATRANS GROUP optimised railway wheels are dedicated for railway vehicles, in which wheels are exposed to high thermal and mechanical load, especially for freight wagons equipped with tread brakes. Through careful optimisation of wheel design and material and thorough implementation of the most developed calculation and testing methods, BONATRANS has developed wheels that are considerably more resistant to thermal loading than the existing commonly used wheel designs!

GHH-BONATRANS GROUP IS THE LARGEST EUROPEAN FREIGHT WHEEL PRODUCER

Why to choose our solutions for Freight Transport

- **Low residual stress** - reduces the risk of initiation and spreading of cracks
- **Minor deformations** - increase safety against derailment of the vehicle in operation
- **High loading capacity** - for high axle loads
- **High resistance to thermal load** - suitable for composite brake blocks
- **Standard** - among most commonly used new railway wheels in Europe
- **Traceability** - We comply with the latest product traceability requirements

We continuously improve the performance of our freight wheels and wheelsets

- **ESFA Project** - New international low maintenance standard axle with additional safety margins
- **Freight WS for axle load 30t**
- **Freight WS with noise absorber**

Because of their qualities, GHH-BONATRANS GROUP freight wheelsets have become the most frequently applied freight wheelsets in modern European freight wagons

GHH-BONATRANS GROUP has the largest customer base in the freight wheelset segment

Astra Rail, ČD Cargo, DB, DB Schenker, GATX, Greenbrier Europe (Wagony Swidnica S.A.), OBB, SBB, TATRAVAGÓNKA and many others