



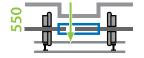


Sophisticated Solutions for Light Rail Vehicles

GHH-BONATRANS is the world leading supplier of wheelset solutions for low-floor applications. From motor wheelset to the independent wheel axles, we design, engineer and manufacture each element of the wheelset system by development and engineering to production, assembly and maintenance/overhaul, the complete wheelset system is the core of our expertise. We have established long-term partnerships with the major manufacturers of Light Rail Vehicles in order to gain excellent knowledge and provide the best possible expertise and consultancy already in the early stages of product development.

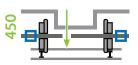


Solutions for all floor levels



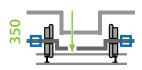
Drive and brake between the wheels, but with limited height

Our solution: motor and trailer wheelsets Result: Floor level of 550 mm



No drive nor brake between the wheels

Our solution: motor and trailer wheelsets Result: Floor level of 450 mm



No drive nor brake between the wheels, independent wheel axle Our solution: independent wheels on the axles Result: Floor level of 350 mm

SIEMENS



Running gears with portal frame

Our solution: swivel-mounted independent wheel units, fixed on portal frame

Result: Floor level of 205 mm

🔍) ŠKODA

Selected customers









Innovated wheel and axle portfolio

GHH-BONATRANS has developed a new Super-Resilient Wheel up to 6 ton wheel load with a nominal diameter down to 600 mm new / 520 mm worn. The design of all components has been enhanced and the rubber elements have been completely reshaped. Excellent strength of the GHH[®]ULTRA-S was verified by applying the German calculation standards (FEM analysis and assessment of stresses by application of FKM-guideline).

Next generation of independent wheel axle

The new 12.5t independent wheel axle is based on the proven and reliable **GHH** $^{\circ}V60$ wheel type. Its modern upgrade for high axle loads is based on a one-piece, die-forged portal axle design and a pair of tapered roller bearings, adjusted optimally during assembly.

Resilient wheel product range

Resilient wheels





BONAE-LOCK®M

GHH[®]V15/V30

GHH[®]V60

Split design: One or two rubber rings or a number of rubber

Super-resilient wheels



Split design: A number of rubber segments are pre-stressed

EN 45545 Compliance

GHH-BONATRANS is the first resilient wheel producer to comply with EN 45545 protection standard on all components of a resilient wheel.

Czech Republic

BONATRANS GROUP a.s.

Revoluční 1234 735 94 Bohumín

Germany

Gutehoffnungshütte Radsatz GmbH Gartenstrasse 40 D-46145 Oberhausen

Hong Kong

Bonatrans Asia Limited

Rooms 2103–4, 21/F., Wing On Centre 111 Connaught Road, Central

