

**WE WILL
NOT STOP TO
ACCELERATE**



HIGH-SPEED



GHH-BONATRANS
Pioneers of wheelset solutions

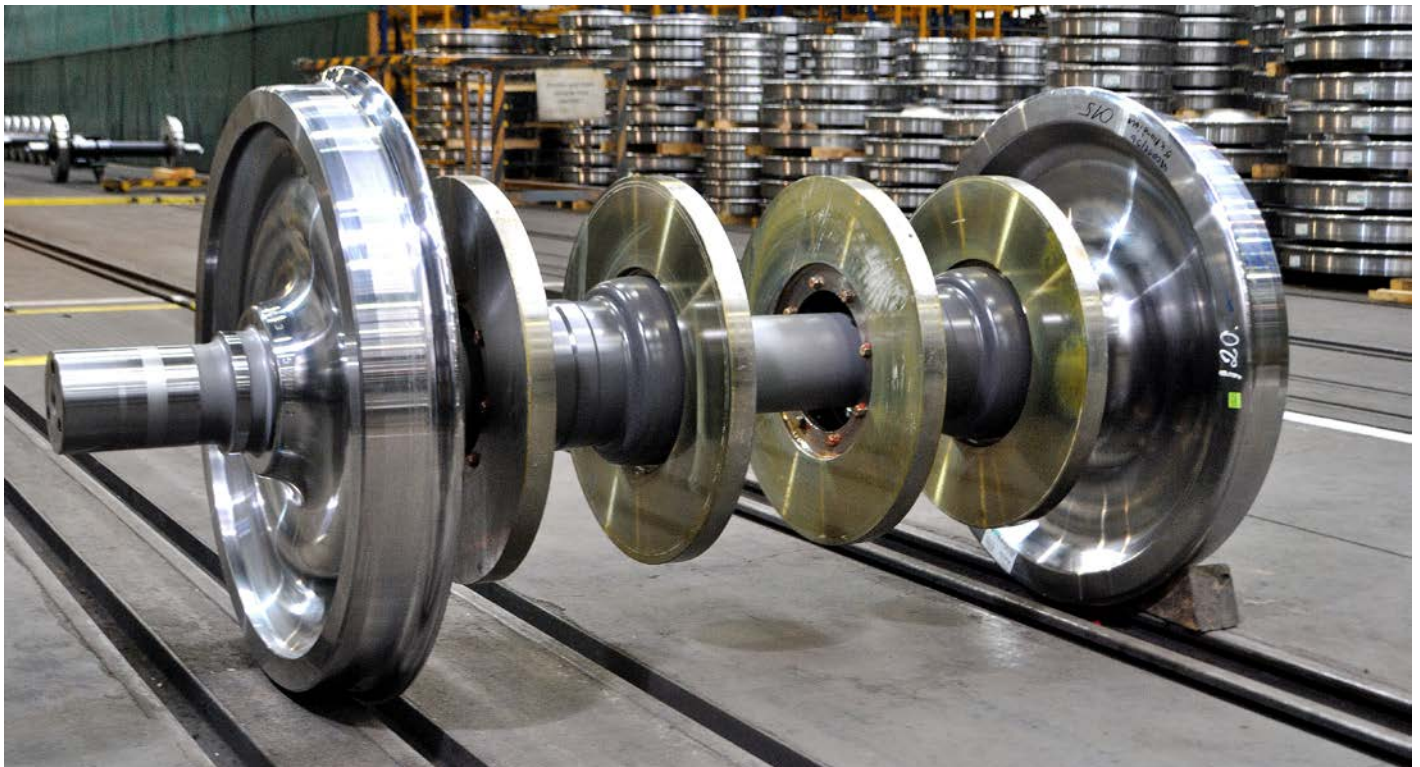
WE WILL NOT STOP TO ACCELERATE

For the future generations of high-speed trains

We are capable of capitalising on the extensive experience we have gathered in various fields of wheelset applications to offer optimized, innovative products and solutions also to high-speed segment.

We always strive for solutions that will provide our customers with the best quality and value as well as the best possible ratio between acquisition/operation costs and the utility value of the products.

We are supplying wheelsets, wheels and axles to the most demanding clients across the world. Our products are applied by the global leading high-speed train manufacturers, such as Alstom (TGV M), Siemens (VELARO MS), Hyundai Rotem (EMU-320), among others.



Selected customers

ALSTOM

中国中车
CRRC

HYUNDAI
Rotem

SIEMENS

DB

renfe

SJ

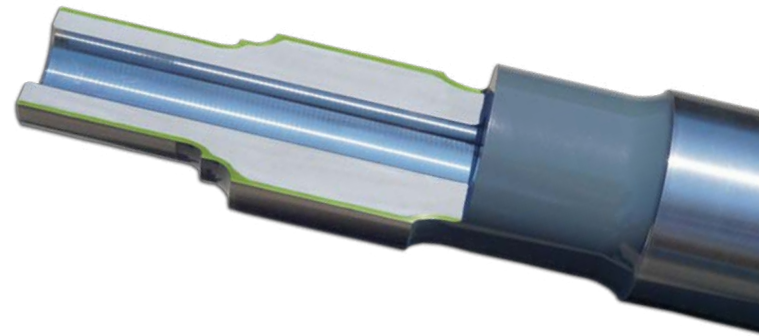
SNCF

Innovative induction-hardened axles

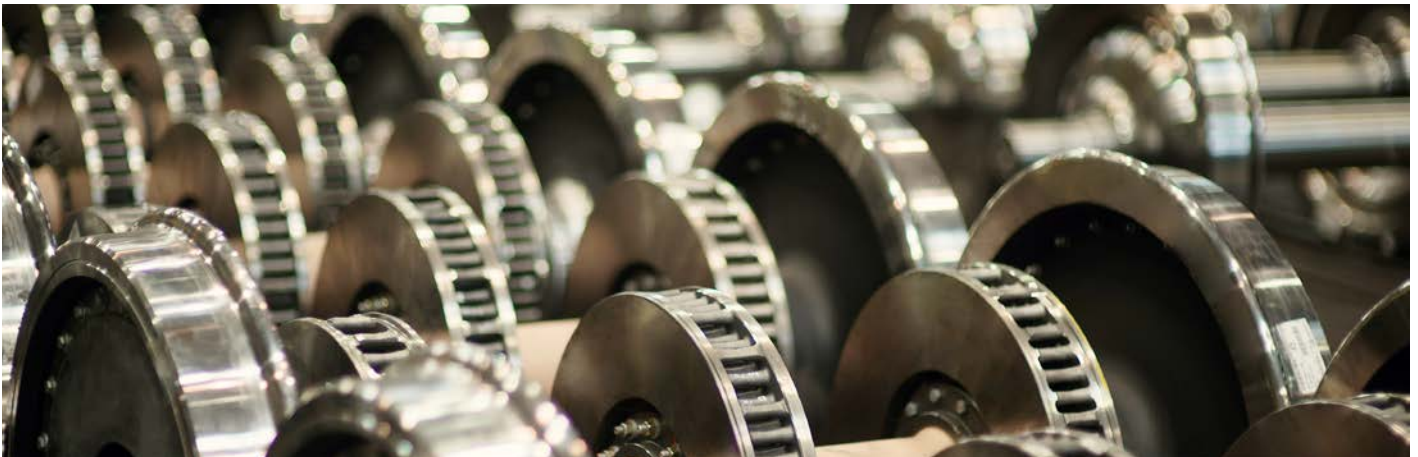
BONAXLE® is an innovative induction-hardened axle - our solution to the requirements of increased safety and reliability of high-speed trains. It also brings significant decrease of total life-cycle costs (TLCC). GHH-BONATRANS improved existing technology and adapted it to the conventional geometry and steel grades of EN 13261 and apply the technology on entire length of axles. **BONAXLE®** is absolutely resistant against crack initiation for all type of axles without modification of its geometry or steel grade. It has been fully proven for EA4T as well as for EA1N, EA1T and it is also applicable for other steel grades.

Key features

- Higher safety and lower LCC
- Increased NDT intervals due to higher resistance against crack initiation
- No axle damage during operation thanks to resistance to impact
- No seizure during maintenance - assembly and disassembly of solid wheels, centers, gearbox, brake discs, bearings
- Allows older platforms to comply with current safety requirements



Extensive experience and unique expertise



- Long-term experience
- Tailor-made solutions for the most challenging projects
- Advanced technical competence with enhanced quality parameters
- Care for the whole product lifecycle
- Thousands of wheels, axles and wheelsets delivered worldwide
- Supplied most advance projects such as TGV (ALSTOM), VELARO/ICE (SIEMENS), EMU-320, HEMU-430X (HYUNDAI ROTEM)
- Unique and efficient coating system **BONACOAT®C1** for long-lasting high-speed solutions

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