

Rolling Stock



Rolling stock is an essential item within the railway and transport system, but it is one of the most complex. From running gear through strength and durability, drives, brakes, regulation and control systems and up to fire protection and occupational health and safety, all safety - relevant functionalities have to be in full working order at all times.

The entire system comprising “rolling stock” must fulfill safety requirements according to both national and international standards. These include, for example, conditions for high-speed trains and the conventional rail system in accordance with the “Technical Specifications” for “Trans-European Interoperability” (TSI) and also requirements of the international approval bodies in accordance with the “International Requirement List” (IRL). Important regulations at the national level include the German Ordinance on the construction and operation of Railways (EBO) and the equivalent ordinance with regard to trams (BOStrab).

Our inspectors and experts in the different areas support rail operators, system integrators and suppliers over the entire lifetime of the project, from the design phase up to approval, including railway vehicle operation, from the initial design through the system architecture up to the technical equipment itself.

Why not make use of the system competence and



many years of experience of the experts at TÜV India in the assessment of subsystems and railway vehicle components - whether for locomotives, trainsets or rail cars, passenger carriages, freight wagons, trams, underground railways or the system as a whole.

TÜV India - Inspired by Knowledge.

Our Services:

Rolling stock as a whole

- Testing and reports on the technical safety of rolling stock
- Evaluation of operators' regulations and residual risks for passengers
- Responding to system-related questions and questions regarding standards and regulations

Subsystems and processes

- Mechanics (strength and durability, running gear, explosion protection, plant subject to mandatory surveillance)
- Brakes (brake calculations, wheel slide protection, recuperative brake systems)
- Drive systems (e.g. hydraulic drives)
- Electrical systems (electrical safety/earthing, suitability of operating materials, FSF conformity, electromagnet availability EMC)
- Control system technology
- Software (application software, operating systems / tools)

- System technology (safety concepts, system architectures)
- Fire protection (preventive fire protection, firefighting measures and equipment)
- Damage analysis (assessments following damage, optimization of maintenance processes for damage prevention)
- Safety and reliability (application of CENELEC standards EN 5012x, risk assessments according to CSM)
- Approval management (advice on and preliminary review of approval documentation, test and acceptance trail runs, assessments/acceptances according to VV-IBG)

Manufacturer and supplier certifications

- International Railway Standards (IRIS)
- Welders for railway vehicles according to EN 15085 (EBA recognized)

Benefit to customers

- One contact for all specialist technical disciplines
- Contribution to reliable planning outcome
- Independent assessments suited to requirements
- Reports acceptable to official bodies
- Conformity confirmed at an early stage
- More compact acceptance process
- Protection of people and the environment

Our Expertise:

- Independence and neutrality
- Specialist independent experts with long-standing experience
- Assessors with ERA-recognition
- Assessors with EBA-recognition
- Accredited inspection body according to DIN EN ISO/IEC 17020 (DAkkS) and NABCB/IAF
- Notified Body (NoBo) (LUX)
- Designated Body (DeBo)
- Interims DeBo (DE)
- Associated partner of the German notified body

We look forward to sharing our expertise with you.

About Us:

TUV India Pvt. Ltd. (TÜV NORD GROUP) is a customer-focused, innovative, and independent, technical, quality & safety services organization, dedicated to providing future-proof solutions through technological excellence for the success of its customers with the highest level of integrity. With a presence at over 40 strategic locations in India; a branch office in Sri Lanka and Bangladesh; state-of-the-art laboratories at Pune, Bengaluru, Noida and Jamnagar; 100 important countries worldwide and through digital means, we are always connected to you, our esteemed customer, anywhere, anytime.

We are proud to provide increasing levels of services to the best known, largest global and national companies as well as medium and small industries in diverse sectors like Oil & Gas, Petrochemical, Nuclear, Renewables, Infrastructure, Food, Power, Manufacturing, Chemicals, Pharma, Paper, Automobiles, Railways, Aerospace, Defence, IT, Health, Hospitality, Retail, etc.

Over 1400 competent and experienced TUV India experts spread across India and over 14000 TÜV NORD experts all over the world, enthusiastically support our clients by providing value-added services in Industry Inspection, European / International Approvals, Management System & IT Certification, Sustainability, Energy Audit, Water Audit, Carbon Services, Building Infrastructure & PMC, Renewable Energy, Food & Packaging Testing, Food Certification & Inspection; Testing of restricted and banned chemicals in Automotive and Electrical & Electronics components and other regulated industries, Product Testing – Electricals, Electronics and Industrial Machinery; Product Certification; Petroleum, Chemicals & Gas Cargo Inspection; Petroleum, Chemicals & Gas Testing; Railway Technology; Engineering, Safety Studies, and knowledge enhancing training programs under TUV India Training Academy.

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