



Testing and approval of vehicles

Continual further development of the legal framework makes the rail vehicle approval process increasingly complex. Whether for approval of new vehicles, variants, or modifications – we offer the entire range of services you need to lay the foundations for authorisations for placing your vehicles in service, both nationally and internationally.

Our services – available individually or as a complete package:

- Approval management (coordination and management of the records and measurements/reports)
- Expert opinions, inspections and conformity assessments
- I-Designated Body (national requirements) in Germany
- Notified Body (European requirements): in conjunction with RAL
- Designated Body in UK and France via RAL
- Independent safety assessment in accordance with CSM-RA
- Vehicle dynamics testing (static and dynamic testing)
- Brake system testing
- Measurements of drive and traction characteristics
- Measurements of pantograph-catenary interaction
- Testing and transition of train control systems
- Acoustic, aerodynamic and climatic measurements
- Measurements of pressure tightness
- Measurements to determine torsional dynamics
- Measurements to determine service strength (load spectrum)
- EMC measurements: disturbance currents, radio compatibility, emission and protection of persons
- Europe-wide network of cooperation partners (rail companies and inspection centres)

Your benefits when you engage a partner that coordinates all services/order an end-to-end service

- Time and cost savings of up to 20% in relation to order volume thanks to time-optimised process
- Risk minimisation thanks to reduction of interfaces: just one central contact (project manager) for the customer (internal coordination and communication are simplified)
- Greater flexibility thanks to availability of high capacities
- Rail company coordination of services directly on site

Customers (selection): Siemens, Stadler, Bombardier Transportation, Hitachi, Alstom, Skoda, Harsco, Knorr-Bremse, SBB, ÖBB