

Vehicles-Track Interaction Testing

Dynamic Track Approval and Infrastructure Inspections

With our accredited test laboratory for vehicle-track interaction testing, we support manufacturers, operators and infrastructure managers in demonstrating the safe operational performance of railway vehicles, infrastructure and their components.

From running dynamics investigations and vehicle response measurements to track approvals, inspections and expert assessments, we analyse the interaction between vehicle and track under real operating conditions.

This enables us to provide reliable measurement results and evidence for authorisation, maintenance and operation.



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Our services

- Running dynamics investigations, including stationary and on-track tests (EN 14363, UIC 518)
- Vehicle response measurements for track approval and infrastructure inspections according to applicable standards
- Track geometry measurements (EN 13848)
- Wheel-rail contact geometry investigations (EN 15302)
- Type tests, first-article inspections and authorisation test
- Accident investigations
- Expert opinions and technical assessments

Reference projects

- Vehicle response measurements for the approval of German high-speed lines, the Westbahn (Austria) and the Lötschberg & Gotthard Base Tunnels (Switzerland)
- Lateral track resistance measurements

Your contact

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Your advantages

- More than 64 years of experience and expertise in vehicle dynamics and track-related investigations
- Reliable evidence for authorisation and safe operation
- Early detection of damage and increased wear
- Higher availability of rolling stock and infrastructure
- Performance of mandatory inspection services
- In-house measurement trains, testing equipment and expert personnel
- Recognised experts, assessors and inspectors
- Precise analysis of overhead contact lines and pantographs

Running Dynamics Investigations:

- All ICE train series (Germany), CRC 3 (China), AVE 103 (Spain) and leading international rolling stock platforms such as EC250, KISS, FLIRT, Desiro, Regiolis and Talent
- Locomotives, passenger coaches and freight wagons
- Railway maintenance vehicles and road-rail vehicles



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