

Track Structure Measurements

Reliable Data for Safe and Available Railway Infrastructure

Whether during the commissioning of new infrastructure, after infrastructure upgrades, or in daily operations, a thorough understanding of track structure behaviour is essential for ensuring safe and efficient railway operations.

DB Systemtechnik conducts specialized measurements and investigations of track structures and individual infrastructure components. Using state-of-the-art measurement technology, we capture and evaluate key parameters, helping you identify optimization opportunities and make well-founded decisions. The result is a reliable basis for safer, more efficient, and higher-performing railway infrastructure.



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Our services

- Coordination of all necessary approvals and project requirements
- Specialized measurements of track structures and infrastructure components, including displacement, strain, force, and other mechanical parameters including evaluations of track geometry stability and infrastructure performance
- Recording and evaluation of environmental influences such as temperature, humidity, and wind conditions
- Accredited short- and long-term measurement campaigns
- Data analysis, condition assessment, and practical recommendations

Reference projects

- Matterhorn Gotthard Railway, Switzerland: Comprehensive instrumentation of a track curve
- DB InfraGO: Baseline investigations of B70 sleeper performance

Your advantages

- Precise and quality-assured data for confident decision-making
- One-stop project support from planning through evaluation
- Holistic analysis and interpretation of measurement results
- In-depth expertise in vehicle-track interaction and system behaviour
- Reduced project risks through greater planning certainty and technical confidence

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