

Wayside Monitoring

Condition-Based Monitoring of Your Rolling Stock

Would you like to always keep track of your fleet condition, take the next step toward predictive maintenance, and reduce workshop downtime? The Wayside Monitoring solutions from DB Systemtechnik enable automated condition monitoring during normal railway operations. Trackside monitoring systems capture relevant vehicle data as trains pass by and provide continuous, objective, and actionable condition information. With **DafuR**, the detection system for out-of-round wheels, we have developed an innovative stationary monitoring solution. Based on force measurements using strain gauge technology, DafuR delivers reliable and objective condition data without affecting regular operations.



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Our services

- **Automated condition monitoring** of vehicle fleets during normal railway operations
- **Site selection, installation, and commissioning** of wayside monitoring systems
- **Maintenance and support** for reliable system operation
- **Data processing** and condition assessment services
- **Optional** dashboards and customized reporting solutions for condition monitoring results

Reference projects

- More than 20 DafuR systems deployed across DB railway system for monitoring the DB long-distance fleet
- Rhaetian Railway (RhB), Switzerland: Complete fleet-wide monitoring of rolling stock condition
- Hamburg S-Bahn: Introduction of DafuR to replace manual wheel roundness measurements

Your contact

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Your advantages

- **Replacement of manual wheel roundness measurement: Reduced workshop downtime and higher fleet availability**
- **Data-driven foundation** for predictive maintenance that supports advanced analytics, forecasting, and proactive maintenance strategies
- **Early detection instead** of reactive maintenance, allowing anomalies and emerging defects to be identified before they lead to failures or service disruptions
- Comprehensive expertise from **a single source** – from data acquisition and analysis to actionable maintenance recommendations



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