



Non-destructive testing in the rail industry sector

Consulting, planning
and support

Technology development

Special test equipment

Workshop approval

Application support

Laboratory examination

Exclusive expertise for non-destructive testing in the overall railway system

Would you like to perform recurring, non-destructive tests (NDT) independently to enhance operational and traffic safety in maintenance?

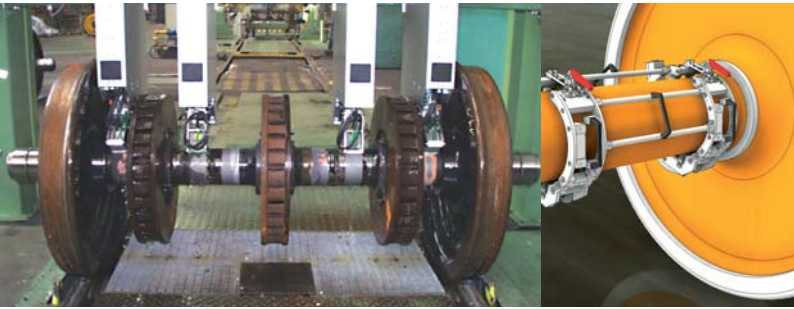
We will assist you in all NDT matters. We offer you NDT expertise from manual testing for individual vehicles to mechanised testing systems for whole vehicle fleets.



Non-destructive testing of safety-related components is our job and your advantage for more safety.

We are your contact in the industrial sector of railway maintenance, from NDT consulting to approval of your NDT inspection centre.

Our service portfolio



We provide you with comprehensive non-destructive testing services together with solutions developed individually for your applications:

- Selecting and validating suitable test procedures and testing techniques
- Drafting and releasing maintenance regulations
 - Process descriptions
 - Test specifications
 - Type-specific test schedules
- Evaluating NDT reports and damage analyses to determine test procedures, techniques, areas and intervals
- Consulting on procurement, tendering and drafting of specifications for your NDT systems
- Test acceptances, support and recurring recognition of your NDT systems
- Production and release of railway-specific reference blocks
- Conformity certification for operation of mechanised test systems in accordance with DGZfP leaflet ISB03
- NDT test centre inspection on the basis of DGZfP leaflet ISB 02 for proof of conformity in accordance with DIN 27201-7
- Supplier qualification (HPQ)
- Independent consultant
- Training testing and inspection personnel
- Continuing training events on NDT and exchanges of experience

Our experts



Our experts are training auditors, inspectors and instructors. Moreover, they are represented in national and international standards committees and in expert committees of DGZfP.

- Our experts are stage 3 testers in the UT, MT, PT, RT, ET and VT processes in accordance with DIN EN ISO 9712

DB Systemtechnik is with the Non-Destructive Testing and Test Systems specialist department:

- an NDT competence centre in accordance with DIN 27201-7
- a test centre for the railway maintenance industry sector in accordance with DIN EN ISO 9712
- an independent accredited inspection centre in accordance with DIN EN ISO/IEC 17020
- an accredited test laboratory in accordance with DIN EN ISO/IEC 17025

Our experts are currently developing new innovative testing techniques such as:

- Crack tip/depth detection with SAFT on axle shafts
- Mobile test system for mechanised solid shaft testing in the installed state
- POD analysis
- NDT concepts for polymer materials

Our expertise, your advantage



Report on testing acceptance



Inspection report

Together, we will analyse the testing and maintenance tasks. Together with you, we will develop the optimum test concept, e.g. for manual testing, and we will implement it on your premises. For example, you will receive:

- The conception of an individual set of maintenance regulations (contains process description, test specification and type-specific test schedules)
- Testing technology for the installed state
- Test heads for manual testing of axle shafts
- Individual vehicle keeper training
- "Ndt for ECM" competence training

Is your fleet so large that an investment in a mechanised test system is worthwhile? We will assist you with technically qualified procurement through specifications, evaluation of invitation to tender results to testing recognition and recurring acceptance.

Make use of

our experts' expertise:
NDT from a single source

References

Excerpt from our list of references

- Bombardier Transportation GmbH
- Siemens AG
- ALSTOM Lokomotiven Service GmbH
- Vossloh RCN GmbH
- GE Sensing & Inspection GmbH
- Verband Deutscher Verkehrsunternehmen e. V. (VDV)
- MAV KfV Kft., Hungary
- HOCHBAHN AG, Hamburg
- GBM Gleisbaumechnik Brandenburg/H. GmbH
- Osthannoversche Eisenbahnen AG
- SBB Industriewerk Olten, Switzerland
- Lucchini Poland Sp. Z o.o., Poland
- SGS Gottfeld NDT GmbH
- Stuttgarter Straßenbahnen AG
- PORR Alpine Austriarail GmbH, Austria
- RUAG Schweiz AG, Schweiz
- Mecklenburgische Bäderbahn Molli GmbH
- NERTUS S.A., Spain
- CAF S.A., Spain
- CFL cargo - Ateliers de Pétange S. A., Luxembourg
- Süd Thüringen Bahn GmbH
- DGZfP Deutsche Gesellschaft für Zerstörungsfreie Prüfung e.V.

**DB Systemtechnik at your service,
with expertise and non-partisan advice.**

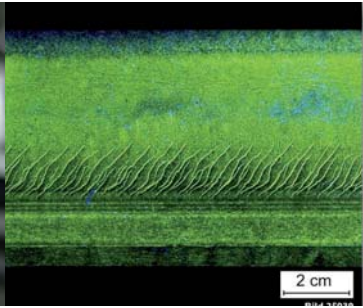
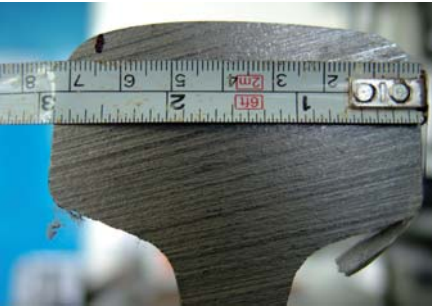
Our test laboratory in Kirchmöser has been accredited for a flexible scope of non-destructive testing in the railway maintenance sector in accordance with DIN EN ISO/IEC 17025 by Deutsche Akkreditierungsstelle GmbH (DAkkS).

Please find our full accreditation certificate in the appendix.



Deutsche
Akkreditierungsstelle
D-PL-11081-01-12

Further service offering



Non-destructive testing on rails

We offer competent consulting and realisation of NDT on rails and switches based on ultrasound, eddy current and NDT visual inspection:

- Further development and optimisation of test equipment and of result evaluation
- Trial testing and testing acceptance of new innovative test procedures for rails and switches
- Recurring conformity assessment of national and international NDT inspection centres, manual rail testers and test systems on rail machine tools for route maintenance
- Analysis and inspection of new rail steel grades within the scope of extensive long-term investigations in the track
- Drafting of national and international regulations and test specifications
- Targeted training of NDT inspection personnel for route maintenance in cooperation with DGZfP



Imprint

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