



Unser
Know-how
ist Ihr Erfolg.



DB Systemtechnik

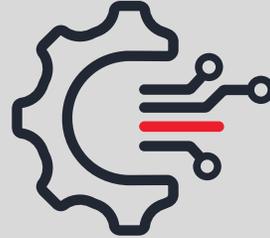
Our services at a glance



Why work with us?



We are Europe's largest centre of expertise for railway technology.



We combine decades of experience with the latest technical and digital knowledge.



We always consider the rail system as a whole and offer all-round solutions.

Our vision:

Our work is driving Strong Rail.



For the climate.

We are getting the rail system ready for the decarbonisation: we drive the development of resource-saving, environmentally friendly technologies and we use these innovations in our own operations.



For rail.

DB Systemtechnik is all about safe technology that works: we improve the availability and reliability of rail and ensure the mobility of the future.



For people.

We offer new solutions that make the rail system efficient and competitive.

We are a rail powerhouse



163 Mio. €
revenues in 2023



More than **50**
competence centres



13
accredited test
laboratories



20 own
measurement vehicles



More than
1.100
employees

We offer our services all around the world



Hannover **Railway Approvals Germany**
[subsidiary]

Stockholm

Bydgoszcz

Kirchmöser

Munich

Minden

Derby **DB ESG**
[subsidiary]

Paris

Washington

Shanghai

Systemtechnik



Our knowledge – your success.



Systemtechnik

Our comprehensive portfolio.

Pure railway technology!



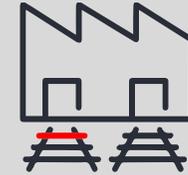
Experts in technology, operations and maintenance



Design



ECM and regulations



Workshop systems, machinery and equipment



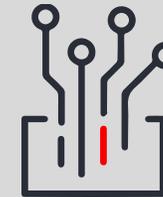
Tests, trials and simulations



Measurement, testing and diagnostic systems



Approval and safety



Digital products



Need railway engineering expertise?

We have experienced experts to help you.

Experts in engineering, operations and maintenance

We analyze your technical problems and design all-round solutions just for you, covering rolling stock, components and infrastructure.

We look at the rail system as a whole and always consider your bottom line.

Systemtechnik



Need independent testing?

We have the measurement vehicles, laboratories and test rigs.

Tests, trials and simulations

We inspect and test every element of the rail system. In our test facilities, we carry out tests, trials and simulations to analyze how your different subsystems interact.

Our findings provide the basis for approvals, series production or commissioning.



In detail: Our large test rigs

- Concrete sleeper test rig
- Strength test rig
- Bogie frame test rig
- Anti-skid test rig
- Instrumented wheelset calibration rig
- Axle box test rig
- Pantograph test rig
- Window test rig
- Screw test rig
- Wheel/rail contact
- Rotational bending fatigue test rig





In detail: Our laboratories

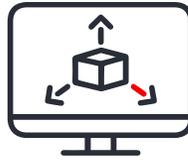
- Combustible materials laboratory
- Braking systems
- Electromagnetic compatibility (EMC)
- Information technology
- Climatic chamber
- Tribology
- Aerodynamics
- Acoustics and vibration
- Traction equipment
- Battery technology
- Electromagnetic fields (EMF)
- Track equipment
- Fuels
- Oils and lubricants
- Non-destructive testing

In detail:

Our rolling stock and measurement vehicles

- ICE-S (high-speed reference vehicle)
- VT 612 (tilting technology)
- Electric locomotives (class 101, 182, 193)
- Power measurement car
- Radio measurement car
- Noise measurement train
- Standard measurement car (e.g. for measurements on permanent way)
- Other measurement vehicles (e.g. for slip brake tests and running equipment)
- Coupler car
- IC driving trailers





Need to convert a vehicle?

We have decades of experience.

Design

Our engineers, technicians and technical draughtsmen are at your side with engineering and production services for rail vehicles.

We offer everything from **minor technical modifications** to **extensive redesigns** of **regional and long-distance trainsets**.

We repair accident and corrosion damage and support maintenance providers with production technologies.

We reduce maintenance costs and maximise the availability of rolling stock by examining its operating behaviour.



Want to collect your own data?

We have the measuring equipment you need.

Measurement, testing and diagnostic systems

We offer measurement, testing and diagnostic systems to monitor your vehicles and infrastructure along with their components.

These high-precision, safe, robust and reliable instruments are available from us individually or as part of projects to **optimise approvals, maintenance or operations.**

Example uses include examining wear characteristics or performing damage analysis.





Need maintenance rules? We offer legal certainty.

Entity in charge of maintenance (ECM) and regulations

We can support you create and improve your maintenance rules. We ensure clear processes and legal certainty for amending **maintenance specifications in line with European regulations and directives.**

This includes the safe introduction of new maintenance methods and technologies, such as condition-based or predictive maintenance.



Need regulatory approval?

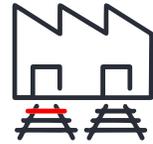
We offer the all-round carefree package.

Regulatory approval and safety

We offer **appraisals, inspections** and expert opinions for vehicles, infrastructure and components.

With our experts and recognised assessors, we provide you with all the required assessments and technical certificates, tailored to your needs (e.g. as an assessment body).





Need infrastructure for your maintenance workshop?

We find the right solution – whether you need a brand-new facility or redesign.

Workshop systems, machinery and equipment

We provide you with **expertise for rail vehicle preparation and maintenance**. Our services range from designing, planning and improving workshop and logistics systems to specifications, acceptances and improvements for plant and equipment.

We take care of new builds, conversions, extensions and improvements.

We ensure optimal integration into your operating processes.



Need fast and innovative solutions?

We combine traditional and digital expertise.

Digital products

We work with **state-of-the-art digital technologies and system solutions**. We advise and manage implementation projects in the areas of IoT and automation, data and analytics, and condition-based rules.

We turn data into tangible added value for you and help you to continuously optimise your business processes. We support you with innovations to reduce costs and increase availability.



We are a railway undertaking, certified and accredited.



The DB Systemtechnik

- Is certified in accordance with DIN EN ISO 9001
- Has ISO/IEC 27001 certification for its central IT platform (ZSI)
- Operates as an autonomous railway undertaking
- Has EBA-recognised expert assessors as well as other technical expert assessors
- Has an inspection body accredited according to DIN EN ISO/IEC 17 020
- Cooperates with the NoBo and DeBo for Germany, Railway Approvals Germany (RAG), which is a member of the DB Systemtechnik Group
- Is an assessment body and has an accredited inspection area for independent safety assessment in accordance with CSM-RA (EU Regulation)
- Has 13 testing laboratories accredited under DIN EN ISO/IEC 17025 and an accredited calibration laboratory (in 27 areas of competence with over 200 test methods)
- Is certified in the area of maintenance systems in accordance with Regulation (EU) 2019/779 – Annex IV with certificate of conformity for maintenance functions (ECM) I and II (EIN AT/33/0321/0065)

Board of Managing Directors



Dr. Hiie-Mai Unger

Chair of the Board of Managing Directors



Stefan Schneider

General Manager Finance/Controlling and Human Resources



Christoph Kirschinger

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Directors Business Lines



Nils Dube

Engineering



Rupert Lange-Brandenburg

Digital Products and Services



Dr. Jochen Kurz

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Testing

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