DEKRA Rail brochure

Product Testing

DEKRA

Testing components to demonstrate reliability and safety

Are you a component supplier?
Are you unsure of how your components will behave, either individually or as part of a system? And how can you find out whether they meet the client's requirements?

Are you a railway undertaking or an infrastructure manager?
When you purchase assets, you want a guarantee that they meet the proper standard. Exactly what products do you need? What requirements should you set for these products? What's the best way to formulate the specifications? Does the delivered product meet the specifications?

Our offer
DEKRA Rail performs product testing: from individual components to a complete system. This independent testing helps demonstrate the quality of a product. The test results provide the supplier or user with the assurance that the product meets all the requirements, and is safe and reliable.

Tests for various purposes

Components or systems can be tested for a number of different purposes:

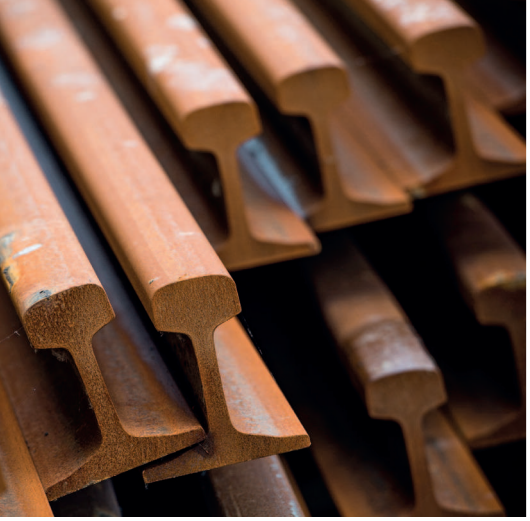
> as support in the standardization and validation process;
> to check whether a component meets the requirements of the standards;
> as input for further investigation (e.g. for system optimization);
> to help explain failures;
> for selecting a supplier or for product comparisons.

A wide diversity of product tests

DEKRA Rail is able to perform a wide variety of product tests, including:

Infrastructure
› Rails (EN 13674, EN 14811, EN 15689)
› Rail fixation systems (EN 13481, EN 13146, EN 16432) and embedded rail systems (EN 13481-5)
› Sleepers, rail pads and undersleeper pads (EN 13146-1, EN 13230, EN 16431)
› Ballast (EN 13450)
› Geotextiles, geogrids and ballast mats (EN 13250, DIN 45673-5)
› Metallic welding in and on rails (EN 13481, EN 13146, EN 16432)
› Insulation welds, compensation welds and other rail constructions
› OHLs and cables (EN 50149, EN 50182, DIN 48201-2) and OHL poles

Rolling stock and Interface
› Wheel tires (UIC 810)
› Steel-rubber components (EN13913)
› Lubricants (various ISO, DIN and ASTM standards) and fuels (DIN EN 590)
› Interior materials
› Corrosion-resistant coatings (e.g. ISO 20340, ISO 11997-1, ISO 6270)
› Electrical and electronic systems and communication systems
› Friction modifiers
› Noise-reduction measures



Simulated real-life test conditions

We believe it is important for components or systems to be tested under simulated real-life conditions. We always look at the context and so take into account the circumstances and the environment in which a component functions. Our knowledge of the rail application of every component and system guarantees a high degree of test relevance.

Expertise of DEKRA Rail

Thanks to the independent expertise of DEKRA Rail, you can completely rely on our test results. The tests are carried out in line with widely accepted (mainly European) standards, or in line with the specifications of infrastructure or fleet managers. If no suitable standards exist, we can draw them up together.

We have extensive experience in testing components and systems, and we have excellent, fully equipped laboratories at our disposal. Our thorough know-how of components / systems (and how they behave) and of standards / specifications is instrumental in achieving successful results. Testing programs might comprise a combination of tests, such as fatigue testing, and, for example, electrical, corrosion or aging testing.

- Independent testing
- European standards mean that test results are widely valid and accepted
- Outstanding knowledge of railway applications
- Unique and flexible testing facilities in our own fully equipped laboratories

Other services provided by DEKRA Rail

- Railway Certification and Assessment Services
- ERTMS services
- Wheel-Rail optimization
- Remaining useful life assessment
- NDT services
- Rotating equipment condition monitoring

Contact
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