

Non-Destructive Testing



Optimum safety and performance with NDT

Non-Destructive Testing (NDT) enables wear or damage to be identified at an early stage. NDT gives you control of the condition and safety of your assets and shows that your components meet the safety regulations. DEKRA Rail can access a vast array of testing methods and has in-depth knowledge of the behavior of components and systems. All this leads to the best possible result.

Early identification of wear or damage

Non-Destructive Testing (NDT) is used to detect minute cracks or material degradation (e.g. thickness reduction through corrosion) in a component. This makes it possible to detect the progress of the component's degradation at an early stage. Given our extensive understanding of the degradation process, we can determine the risks and the possible remaining useful life of a component. In this way, it is always clear whether components are in the right condition, meet the set safety requirements and whether downtime can be minimized. Thanks to NDT and the information about remaining useful life, you will be able to plan re-inspections and part replacements for the moments that suit you best. Our NDT specialists can also help you improve your inspection process and the training of your inspectors.

DEKRA Rail testing methods

- > Magnetic particle testing
- > Eddy-current testing
- > Ultrasonic testing: pulsed echo, TOFD, phased array
- > X-ray testing
- > Penetrant testing
- > Thermography
- > Advanced and mechanized NDT

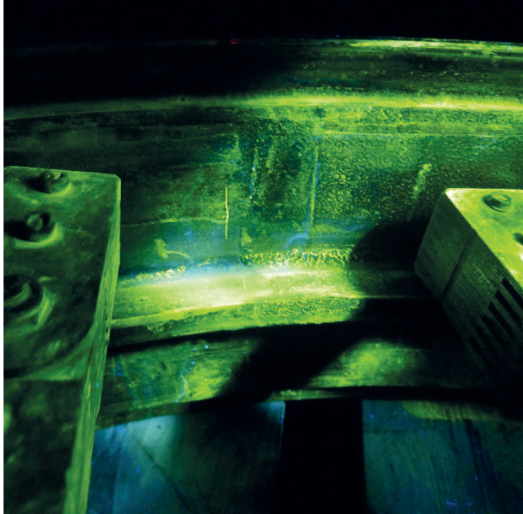
Specialist process supervision

DEKRA Rail has laboratories for and testing experience with almost every kind of rolling stock and infrastructure, using all sorts of inspection methods. Our expertise covers the entire process: from inspection protocol to assessment and from calibration to simulation. DEKRA Rail helps you in selecting the right NDT method and in determining the right frequency of inspections. At all times, the work of our experienced inspectors is based on your planning and requirements. They are responsible for the entire inspection procedure, but can also provide supervision if your own staff carries out the inspections.

Certified personnel

Employees at DEKRA Rail are certified at Levels 1, 2 and 3 in NDT methods in conformity with NEN-EN ISO 9712 and ASNT recommended practice SNT-TC-1A.





DEKRA Rail's areas of expertise

Do you wish to have your business assets scrutinized for their condition or performance and gain insight into the possibilities of effective cost management? If so, we are only too happy to demonstrate how our NDT expertise can help you in this process. For instance:

- > inspection and certification of components for rolling stock: massive and hollow axles, wheels, disks and bogies
- > inspection and certification of rail infrastructure: rails, points and crossings, welds and all metal components
- > NDT inspection of composite and concrete elements
- > NDT training programs and examinations

Other services provided by DEKRA Rail

- > Railway Certification and Assessment Services
- > ERTMS services
- > Wheel-Rail optimization
- > Product Testing
- > Remaining useful life assesment
- > Rotating equipment condition monitoring

Contact

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