

*Contacts with a wealth of experience –
General Managers DEKRA Industrial:
Jörgen Backersgård, Matti Andersson and Werner Bollmann.*



Your Guarantee of Safety and Reliability.

How we put you on the safe side with material testing.

Never before have the requirements for the design and manufacture of components been more exacting. Increasing emphasis is being placed on safety and cost-effectiveness of products and installations – often in conjunction with liability issues. All the more reason to look into material properties and the use of components in diverse ambient conditions.

Play it safe and talk to the experienced DEKRA Industrial specialists. They can offer you extensive services in the fields of non-destructive material testing, destructive material testing, metallography, inspection and quality assurance. From the individual consultation and planning of tests to implementation, including evaluation and documentation. Whatever we do for you: adherence to deadlines, quality, professionalism and a high degree of cost awareness are hallmarks of our work. Whether tests in plant and pipeline engineering or high-quality damage analysis in engineering and automotive manufacturing, you will be talking with specialists with a practical background. We provide valuable services which help to make our technical environment just that bit safer.

DEKRA Industrial is your dependable contact partner in the following business areas:

- ▶ Energy supply (conventional and nuclear power stations)
- ▶ Waste disposal and incineration plants
- ▶ Chemical and petrochemical
- ▶ Pulp and paper
- ▶ Machine, steel and plant construction
- ▶ Pipeline construction
- ▶ Automotive
- ▶ Aerospace
- ▶ Railway
- ▶ Casting and forging industries
- ▶ Insurance

Our key certifications and accreditations

- ▶ Accredited according to EN ISO/IEC 17020
- ▶ Accredited according to EN ISO/IEC 17024
- ▶ Accredited according to EN ISO/IEC 17025
- ▶ Notified under EC Directive 97/23/EEC
- ▶ Notified under EC Directive 99/36/EEC
- ▶ Notified under EC Directive 95/16/EEC
- ▶ Notified under EC Directive 2006/42/EEC
- ▶ Notified under EC Directive 2001/16/EEC
- ▶ Notified under EC Directive 96/48/EEC
- ▶ Certified according to EN ISO 9001
- ▶ Certified according to EN ISO 14001
- ▶ Certified according to KTA 1401
- ▶ Certified according to BV Rule Not NR 320
- ▶ Certified according to Standard SCC**

DEKRA Material Testing and Inspection

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DEKRA SE

Material Testing and Inspection

Industrial







Non-Destructive Material Testing

We take time for your needs – with quality and efficiency.

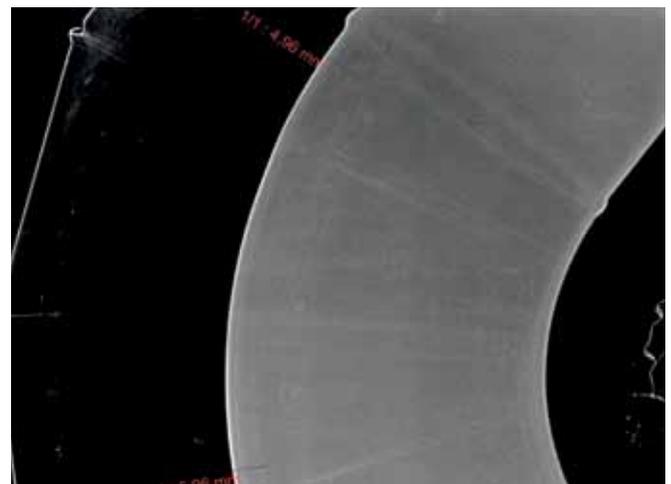
Ever since the Archimedian Principle of displacement was discovered as a method of density measurement, the possibilities of non-destructive material testing have multiplied. Today a wealth of flexible applications is available for reliable detection of imperfections and avoiding costly process delays, either in the form of inspections during production or as an intermediate examination in the development process.

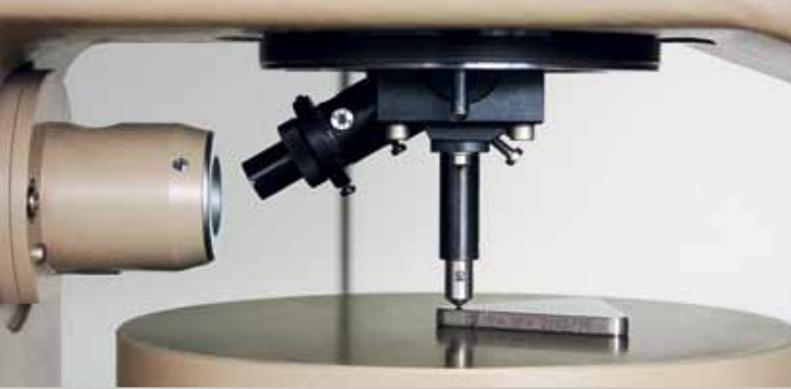
We support you in the selection of non-destructive test procedures and in the preparation of test specifications and test instructions. From the planning to documentation stage, you benefit not only from the high qualification and competence of our specialists, but from maximum flexibility and a high level of availability of our staff, even at short notice.

It goes without saying that our employees are trained and certified to EN 473, EN 4179 and SNT-TC-1A. This enables us to provide hands-on support as a reliable and trustworthy partner in plant, power station and metal construction as well as in the automotive and aviation industries. Incidentally, many of our services can be rendered not only at one of our facilities, but on request also directly at your location.

Our services include:

- ▶ Radiographic/X-ray testing (digital/conventional)
- ▶ Ultrasonic testing (mechanised/manual)
- ▶ Phased Array
- ▶ Manipulator-supported ultrasonic, eddy current and penetrant testing in nuclear power stations
- ▶ Dye penetrant testing (mechanical/manual)
- ▶ Magnetic particle testing
- ▶ Visual inspection/ endoscopy
- ▶ Leakage testing
- ▶ Tightness testing
- ▶ Eddy current testing
- ▶ Thermography
- ▶ Tank floor testing (floor scanning)
- ▶ Wall thickness measurement (manual/crawler)
- ▶ Layer thickness measurement
- ▶ Surface roughness testing
- ▶ Colour fastness determination of components
- ▶ Residual stress analysis by strain gauges





Destructive Material Testing

To ensure that everything remains intact in your production, we can be very destructive.

The more complex the processes in modern industrial plants become, the more important it is to achieve a precise interplay of all components for economic efficiency. This in turn can only be achieved with uncompromising tests of all materials used. Under the bottom line these services save you time and costs.

With this in mind, it is not surprising that destructive material testing in many industries has become an essential element of quality assurance, for instance when it comes to the inspection of heat treatment processes or the determination of chemical and physical material properties.

DEKRA Industrial offers a broad spectrum of test services in the field of destructive material testing. In addition, we can advise you in damage analysis and prevention, material and process optimisation, and provide you with well grounded material recommendations. In the international arena we have several accredited laboratories at our disposal, in which material engineers, metallographers and material testers with many years of experience are committed to achieving your goals.

Our services include:

- ▶ Tensile and compression tests
- ▶ Hot tensile tests
- ▶ Impact tests
- ▶ Hardness and micro-hardness tests
- ▶ Bending tests
- ▶ Vibration fatigue tests
- ▶ Corrosion tests
- ▶ Microstructure tests (replica)
- ▶ Micro and macro tests
- ▶ Ferrite content determination
- ▶ Spectral analysis
- ▶ Light and scanning electron microscopy
- ▶ EDX analysis
- ▶ Material acceptance
- ▶ Simulation of technical heat treatment





Inspection, Quality Assurance

Close testing & inspection rules prevent long-term losses.

In industrial history there are numerous examples which demonstrate the dire consequences of apparently insignificant weak points: consequences for people, the environment and, of course, for the company. Stoppages, technical defects and unforeseen repair work have on more than one occasion threatened the entire existence of a company.

Regardless of the industry: in ever more closely linked markets with ever shorter product life cycles, even the slightest deviations from the specified quality level can often have a devastating effect. It is therefore no wonder that the significance of quality assurance in production increases from year to year. It helps to avoid unnecessary costs and preserve the company's image.

The key role of inspection as a part of the maintenance of production plants, technical systems, components and equipment is also increasing. It creates the prerequisites for preventing errors and variations which can be damaging to the business. When it comes to quality assurance and inspection, you should place your confidence in the expertise of DEKRA Industrial specialists. We provide mandatory inspection according to national legislations as well as a wide range of voluntary inspection services.

Important for you: DEKRA is Notified Body and Approved Body based on international and national codes for pressure equipment, lifts, machinery and rail.

Our services include:

- ▶ Mandatory periodic inspection
- ▶ Voluntary inspection
- ▶ Plant inspection
- ▶ Quality assurance for pressure equipment and modules of EC Directive 97/23/EC
- ▶ Expediting services
- ▶ Welding monitoring
- ▶ Provision of qualified welding engineers
- ▶ Welder qualification and certification (repeat examination)
- ▶ Supervision of welding procedure tests and welding procedure qualification
- ▶ Certification on behalf of the customer
- ▶ Construction and production monitoring
- ▶ Documentation (manual or EDP)
- ▶ Provision of test supervision (EN 473 Level 3)
- ▶ Preparation of test instructions
- ▶ Advice in the choice of test procedures
- ▶ Certificate management
- ▶ Spectral analysis for material identification
- ▶ Steelwork testing and inspection



On the safe side.

DEKRA stands for cross-disciplinary services from one source. We provide comprehensive support spanning a wide range of fields and industries. From A to Z, domestic and international. Benefit from the synergies of a strong network! So what can we do for YOU?

Buildings and Facilities



Machinery and Plant Safety



Health, Safety and Environment (HSE)



Energy and Process Industries



Systems Certification



Product Testing and Certification

