



EXPERTISE IN MATERIALS AND TESTING

For most people, it's just a piece of metal.
For us, it's much more. We get to the very core of the material, using every available testing method, to see exactly what happens deep within the different layers and structures.

With extensive expertise in materials science, and metals in particular, our interdisciplinary technical team of chemists, physicists, and engineers operates an impressive range of equipment. From manual hardness testers to scanning electron microscopes, from traditional mechanical testing to computer-controlled precision.

Benefit from our experience.

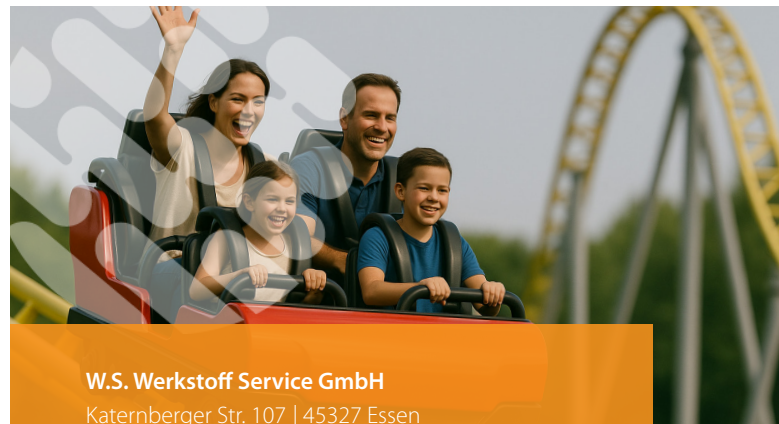
FROM THE RUHR REGION FOR THE INDUSTRY

At the ZukunftsZentrumZollverein on the Zollverein industrial complex in Essen, we provide consulting, testing, and training services.

Our Expertise:

- Accredited **testing laboratory** (DIN EN ISO/IEC 17025)
- Accredited **inspection body** (DIN EN ISO/IEC 17020)
- **Publicly appointed experts** for materials testing
- Qualified and **certified testing personnel** (ISO 9712)

We are experts - with state-of-the-art testing technology and extensive experience. That means safety and reliability for your temporary structures and amusement rides.



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INSPECTION OF RIDES AND TEMPORARY STRUCTURES

YOUR ADVANTAGES THROUGH MATERIAL TESTING:

- RELIABLE RESULTS
- MINIMAL DOWNTIME
- COST-EFFICIENT INSPECTIONS

Note:

Note: The scenes shown in this flyer are AI-generated illustrations and not real photographs.



We deliver safety: For your rides, your equipment, and your guests.

EDDY CURRENT TESTING (ET / ECA)

- » Fast, manual inspections
- » Accessible even in corners, recesses, and complex geometries
- » **No grinding: Coatings and paint remain intact!**
- » Minimal effort: no cleaning, no time-consuming (dis)assembly
- » Flexible testing of welds, surfaces, shafts, and pins
- » Maximum mobility thanks to portable testing equipment
- » Standard-compliant inspections and approvals
- » Execution and documentation by certified testing personnel in accordance with DIN EN ISO 9712

VISUAL TESTING (VT) WITH DRONES

- » Visual Inspection (VT) Using Drones
- » Accessible even at height and in complex or hard-to-reach structures
- » No scaffolding or lifting platforms required
- » Programmable and repeatable inspection routines
- » Full documentation capability (video recording)
- » Minimal downtime or interruption
- » Standard-compliant inspections and approvals
- » Operation and evaluation by certified personnel in accordance with DIN EN ISO 9712

YOUR BENEFIT

- » **Fast inspections**, minimal downtime
- » **Minimal effort**: no paint stripping, sandblasting, grinding, demagnetizing, or time-consuming setup and dismantling required!
- » **Accessible** even for complex geometries, hard-to-reach areas, or confined spaces
- » **Gentle testing**: no post-cleaning required, no use of chemical testing agents
- » **Significantly reduced maintenance costs!**

ET / ECA VS. CONVENTIONAL (E.G. MT)

ET (Eddy Current)

Flexible, manual probe
Inspection in as-is condition
No reworking required
Testing of smallest areas

MT (Magnetic Particle)

Extensive testing equipment required
Surface preparation necessary
Repainting or surface restoration
Large area or workspace required

WOULD YOU LIKE TO LEARN MORE?

GET IN TOUCH WITH US!

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