

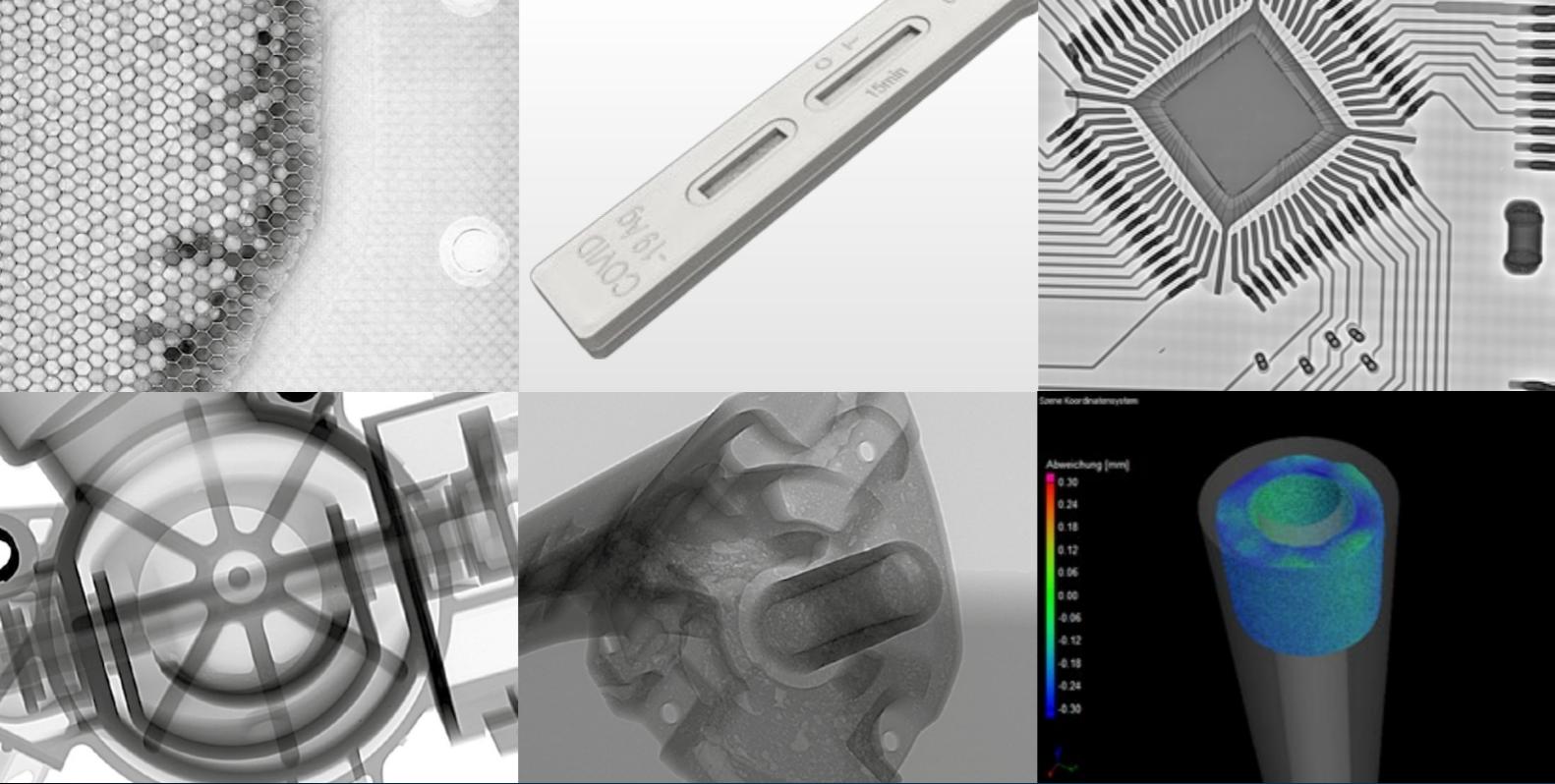


# NDT Inspection Services

Your full-service partner for component evaluations



Inspection Services



The **XaaS model** combines the flexibility of the service with the availability of your own system. You benefit from the advantages of a modern digital X-ray system at your site and you only pay for the number of exposures you actually perform. In addition to the evaluation, we are also happy to take care of the reporting for you via the cloud. Furthermore, depending on the contract model, an hour-based own use of the XaaS system is possible.



VCxray Inspection Services is a division of VisiConsult, a global market leader and innovative specialist in industrial X-ray technology. As a full-service provider, the division offers inspection services and consulting in the field of 2D X-ray and computed tomography (CT), penetrant testing, magnetic particle testing, visual testing and leak testing.

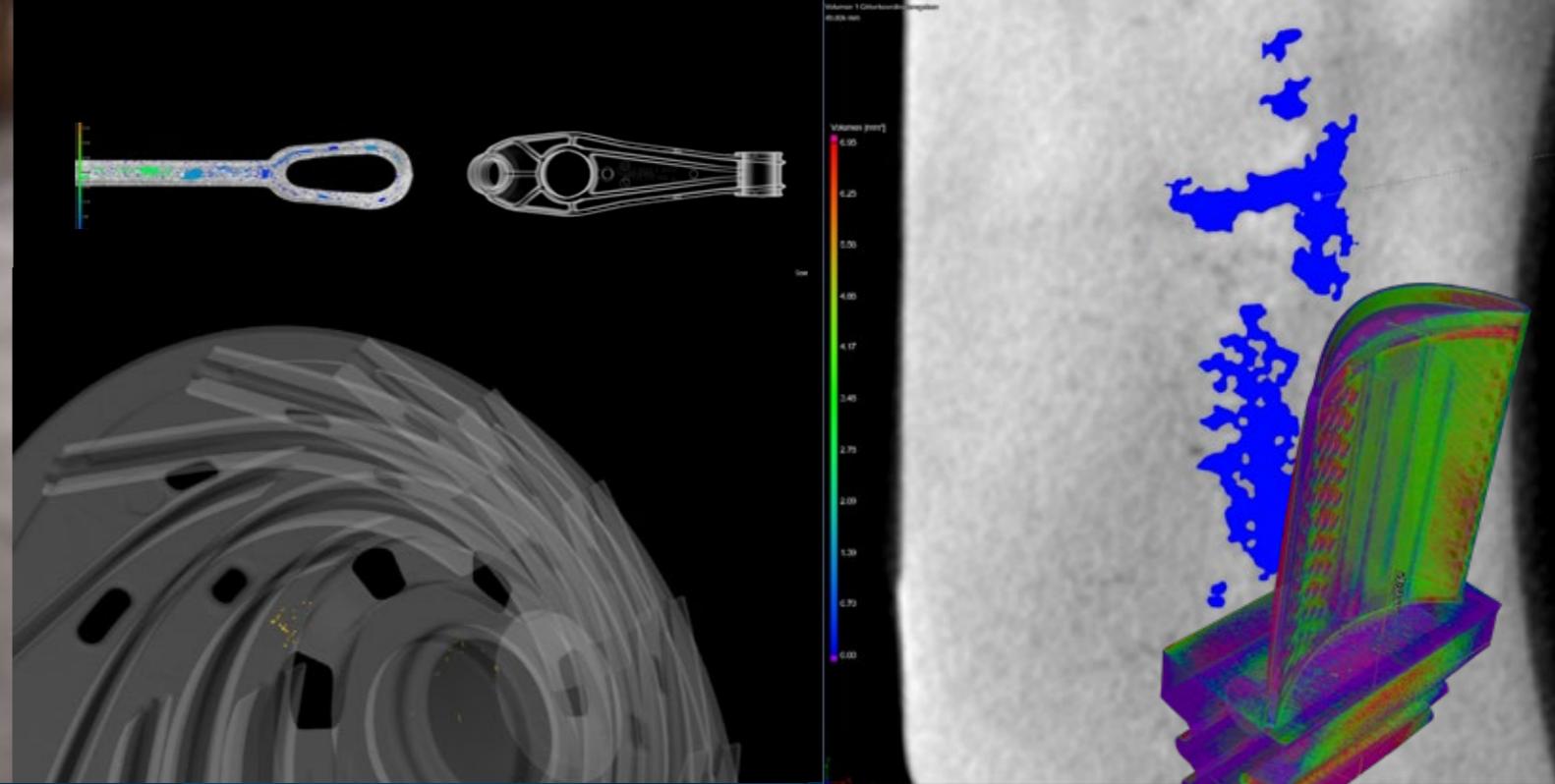
In doing so, customers can access VisiConsult's expertise and resources worldwide. With its own high-quality X-ray systems and experienced experts, VCxray Inspection Services provides its customers' inspection and quality managers with comprehensive and relevant information on the quality of inspected components through non-destructive testing.

**Industries that trust us so far**

- Additive Manufacturing
- Medical technology and products
- Consumer goods industry
- Automotive
- Aerospace industry
- Electrical industry
- Plastics industry
- and many more

**X-ray as a Service (XaaS)**

- ✓ No investment in hardware required and completely off-balance sheet
- ✓ All costs are fully variable and can be easily scaled up or down
- ✓ Included maintenance and support prevent unexpected costs
- ✓ Immediate return on investment and savings are guaranteed
- ✓ No qualified testing personnel required by customer
- ✓ Inspection decision by VCxray
- ✓ Improved efficiency of the inspection process
- ✓ Continuous monitoring of part quality through VC.dashboard



## Feasibility Study

You would like to inspect your parts, but do not yet know whether 2D X-ray inspection is sufficient for this purpose or whether the use of computed tomography would bring additional benefits for you? We will conduct an individual feasibility study and provide you with a recommendation in the form of a report.

## 2D X-ray inspection

If the inspection of your component must be non-destructive, inexpensive and provide relevant information, then our X-ray inspection using 2D is the right answer. Just contact us, we are looking forward to get to know you and your component.

- ✓ Inspection in live image (speed)
- ✓ Cost-effective inspection (price)
- ✓ High volume inspection (duration)

## 3D Computed Tomography (CT)

Our industrial computed tomography (CT) services give you a complete three-dimensional insight into your components without having to invest in equipment, software, or qualified personnel.

Our certified CT specialists scan your components, evaluate the results, and provide you with detailed 3D data and test reports tailored to your needs.

Advantages of industrial CT testing

- ✓ High resolution
- ✓ Precise location of defects
- ✓ Visualization and evaluation options



## Visual Testing (VT)

This is the most basic and cost-effective method of non-destructive testing. Our certified inspectors use direct and indirect visual inspection - supported by tools such as borescopes, magnifying glasses, and the right lighting - to detect visible surface features such as cracks, corrosion, deformations, or assembly defects. VT testing can be applied to almost all materials, provides reliable documentation, and serves as an ideal first step before advanced NDT methods.

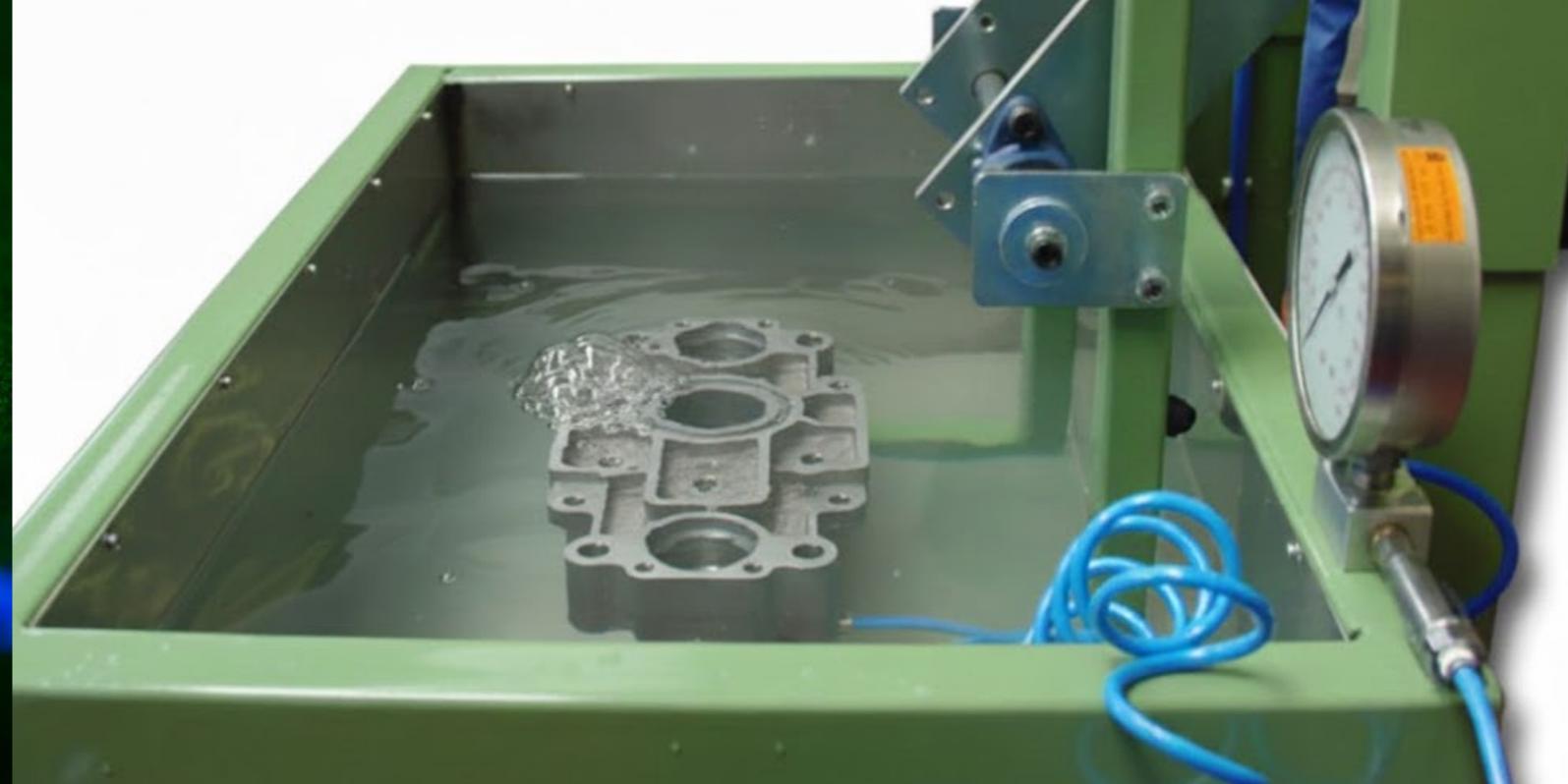
- ✓ Fast, cost-effective detection of visible defects.
- ✓ Suitable for almost all materials and components.
- ✓ Ideal as a preparatory step for advanced NDT (PT, RT, CT).
- ✓ Reliable documentation and traceability.
- ✓ Flexible implementation, manually or with tools.

## Penetrant Testing (PT)

Penetrant testing is a fast and highly sensitive method for detecting even the smallest surface defects such as cracks, pores, or leaks that are not visible to the naked eye. Using fluorescence or color contrast techniques, our certified inspectors perform manual or semi-automatic tests.

All tests are performed in accordance with DIN EN ISO 3452-1 and are carried out by qualified Level 2/3 personnel. PT is suitable for metallic and other non-porous materials such as castings, forgings, welds, and ceramics.

- ✓ Suitable for many materials and industries.
- ✓ High sensitivity to tiny surface defects.
- ✓ Quick and easy to perform with clear results.
- ✓ Cost-effective quality assurance method.



### **Magnetic Particle Testing (MT)**

Magnetic particle testing is a fast and reliable method for detecting surface and near-surface cracks, overlaps, and irregularities in ferromagnetic materials such as steel, iron, and certain nickel or cobalt alloys. During testing, the component is magnetized and sprinkled with fine particles; any defect produces a visible indication. We use fluorescence or color contrast techniques for optimal visibility. All tests are performed in accordance with DIN EN ISO 9712 and DIN EN 4179.

- ✓ Highly sensitive detection of surface and near-surface defects.
- ✓ Fast testing with immediate visual results.
- ✓ Suitable for complex geometries and various sizes.
- ✓ Cost-effective, proven method for ferromagnetic materials.
- ✓ Certified personnel ensure compliance and reliability.

### **Leak Testing (LT)**

Depending on the application, we use proven methods such as pressure drop, vacuum testing, or helium mass spectrometry to detect even the smallest leaks. Our experts select the most appropriate technique based on part geometry, material, and sensitivity requirements for individual components, assemblies, or series production.

All tests are performed by certified personnel in accordance with international standards and customer specifications to ensure maximum flexibility and fast turnaround times.

- ✓ Reliable detection of very small leaks.
- ✓ Suitable for many components and materials.
- ✓ Fast, repeatable, and traceable results.



## X-ray Inspection Systems for Every Situation

Whether as a system investment or as part of XaaS, VCxray offers a broad portfolio of X-ray solutions. These can be planned and integrated atline or inline into your existing process. Your process does not change.

- ✓ Broad portfolio
- ✓ Robust and reliable equipment
- ✓ State of the art software

VCxray Inspection Services is a subsidiary of the equipment manufacturer VisiConsult. Our staff will proactively advise you when an equipment purchase is more advantageous to you than the service. Therefore, you can be sure that we will always offer you the best solution for your needs.

## Consulting and Support

Inspection by X-ray or computed tomography can be highly complex. Take advantage of the knowledge of our experts. We are happy to support you in the creation of inspection programs, inspection instructions or training courses.

- ✓ Process optimization
- ✓ Many years of experience in materials testing and plant engineering
- ✓ Implementation of new processes
- ✓ Personnel training
- ✓ System maintenance (ADR, inline CT, etc.)



Inspection Services

## Service headquarters

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This document is non-contractual. Constant improvement and engineering progress make it necessary that we reserve the right to make specification, equipment, and price changes without notice. Illustrations shown may include optional equipment and accessories and may not include all standard equipment.

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