

ZEISS VoluMax 9 titan

# Powerful One-Stop Solution for Efficient Workflows



## User-friendly CT powerhouse

ZEISS VoluMax 9 titan combines powerful technology with maximum ease of use. Being equipped with a tube voltage of 450 kV and power of 1,500 W, the CT system offers remarkable penetration strength and reliably detects defects in both high-density parts and complex multi-material assemblies.

The fully integrated software ZEISS INSPECT X-Ray enables users to perform tasks ranging from scan calibration to report generation in one single software. Its various features make it easy to identify the correct CT scan parameters, obtain the reconstructed volume, instantly receive 3D views and perform key evaluations.

## Advantages at a Glance



### Compact smart design

The small machine footprint, operator console integrated into the cabinet, and improved mover system all contribute to outstanding flexibility and ensure the smartest use of the available space.



### Robust solution

Even in highly challenging operating environments, this robust performer combines a long service life with minimal downtime.



### Outstanding ZEISS Service

ZEISS offers a whole host of excellent hardware and software services, keeping the maintenance requirement low while also providing swift support whenever needed.



### Fast return on investment

Thanks to its high-power X-ray tube and its detector with a very sensitive scintillator, cycle times are reduced to a minimum. Faster scans, the robust design and high-quality standards enable a swift ROI for users of ZEISS VoluMax 9 titan.



### Easy loading

Wide electronic sliding doors allow for easy handling of large parts, while automatic axis positioning promotes convenient loading and unloading.



### User safety

Designed according to the high safety standards and component quality inherently associated with the ZEISS brand, this machine supports a safe and straightforward user experience.

# One-Stop Software Solution

As a one-stop solution, the ZEISS INSPECT X-Ray software manages the operation of the system, the reconstruction of the CT volume, the evaluation, and the logging of the data.

A seamless interaction between hardware and software guides the user through the entire process, which makes the system easy to use and enables a wide range of operators, from R&D to production, to achieve a new level of flexibility.



Various software options such as AI-driven ZEISS Automated Defect Detection further enhance the part inspection with ZEISS INSPECT X-Ray by automating the defect detection and simplify the inspection workflow

## Applications

ZEISS VoluMax 9 titan handles a wide variety of applications that pose diverse efficiency and quality requirements. It offers reliable means of performing consistent defect inspections on very dense materials like steel, brass or cast iron, as well as Inconel and super alloy parts in numerous industries.

### Automotive

Porosity detection in welding areas;  
Inspection of glued areas and connections (stators, battery modules)

### Aerospace

Defect analysis of internal structures;  
Porosity detection (fan blades, turbine blades)

### Electronics

Gap detection and position check;  
Recognition of copper wires (charging modules, blower motors)



## Peak At-Line and Quality Lab Performance

- Tube voltage: 450 kV
- Tube power: 700 / 1500 W
- Measuring volume:  $\varnothing$  590 x 700 mm
- Pixel pitch: 139  $\mu$ m
- Flat panel detector: 3072 x 3072 pixel
- Dimensions: 2,700 x 2,400 x 1,662 mm
- Weight: 13,000 kg

For further information, check out our website