

# Turbine Receiver Ring Inspection

# XC05-2000-1R-450

Doc.: Product Info Sheet XC05-2000-1R-450 Rev00



THE X-RAY SOLUTION



by Christoph Grohmann

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## Turbine Receiver Ring Inspection

The **XC05-2000-1R-450** is especially designed for the inspection of aircraft engine parts like turbine receiver rings. Therefore, the system is equipped with a 450 kV X-ray source.

The motor driven cart allows easy loading and unloading by crane or forklift outside of the X-ray cabin -

**THIS XC05-2000-1R-450 IS OUR HEAVY VERSION.**

### Parts Parameters

- ✓ Casting part size up to  $\varnothing$  2200 mm
- ✓ Part height max. 1200 mm
- ✓ Part weight max. 2000 kg
- ✓ Max. material thickness depending on type of material

**XC05-2000-1R-450** is designed for automated handling of huge parts of aircraft engines. The system reaches its high level of functionality while being compact without any additional onsite concrete protection walls. The combined features make **XC05-2000-1R-450** a unique inspection system.



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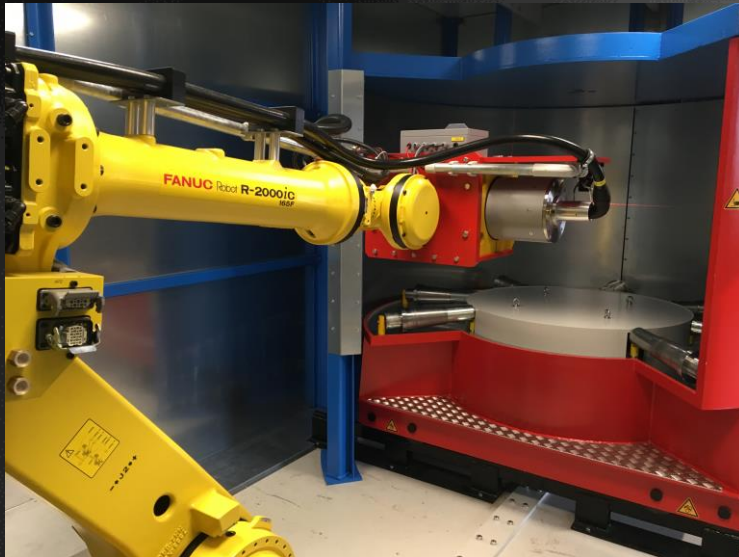


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**XC05-2000-1R-450**

The integrated robot manipulates the X-ray source into any necessary inspection area, while the casting part can rotate automatically on the cart.

The **XC05-2000-1R-450** can be used for X-ray film as well as equipped with a second robot holding a digital flat panel optionally. High performed fully controlled axes makes it one of the fastest casting inspection system for huge sizes.



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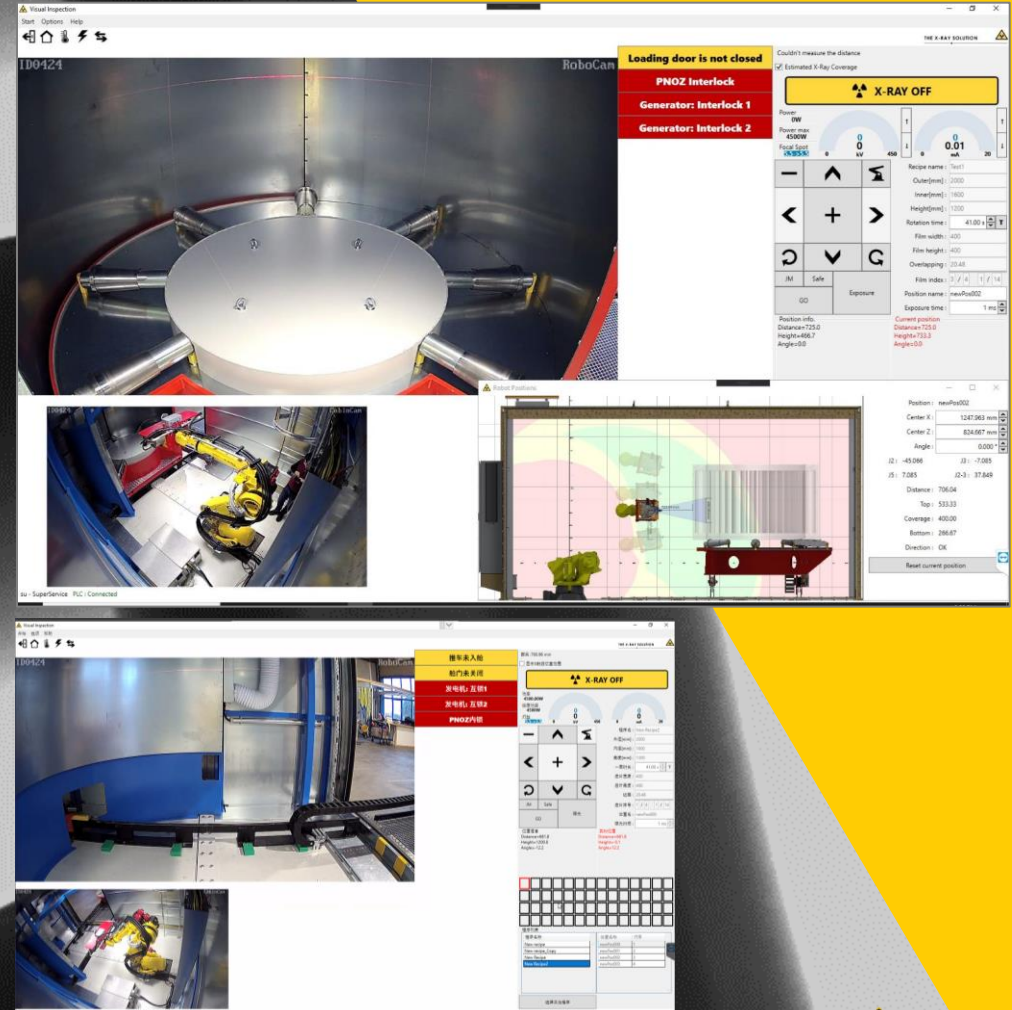
### Software

The user interface of the software is structured very straightforward, and a lot of visual tools support the user setting of a specific inspection program within short time and in an intuitive and easy to learn fashion.

The human machine interface is designed according to the rules of ergonomic workplaces and is be used for regular operation as well as teach-in process. The system is equipped with 4 cabin cams to give excellent views during teach-in process and regular operation.

### Special Features

- ✓ Distance measurement and field of view calculation
- ✓ Laser guidance system
- ✓ Automatic Positioning



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## Turbine Receiver Ring Inspection

### General Features

- ✓ Fully protected X-ray Cabin
- ✓ 450 kV X-ray System
- ✓ Digital Flat Panel, 400x400 mm, 100 $\mu$ , optionally
- ✓ Motor driven Cart
- ✓ Automatic Safety Door
- ✓ Automatic Defect Recognition – ADR, optionally

### Special Features included

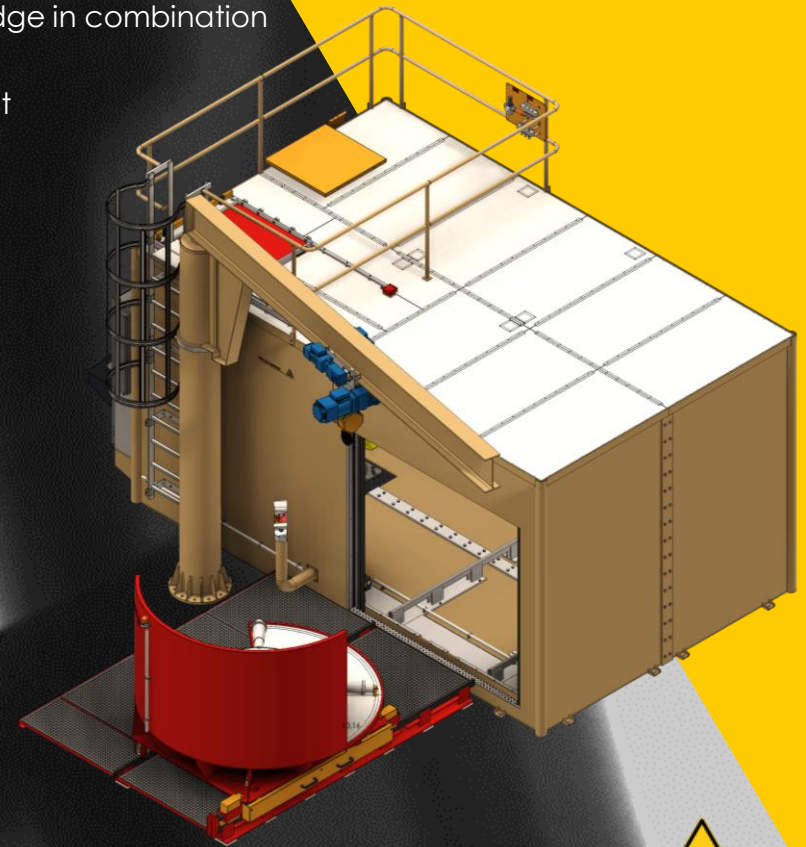
- ✓ Surveillance Cams and Tele-maintenance
- ✓ Auto Image Quality Check for Sensitivity, Resolution and Step-Wedge in combination with Digital Flat Panel
- ✓ Ergonomic Operator Seat
- ✓ Vacuum Cleaner

### Technical Data

- ✓ Dimension of Cabin: 6567 x 3627 x 3100 mm (LWH)
- ✓ Overall Dimension: 6567 x 7249 x 4635 (LWH)
- ✓ Weight: 50 metrical tons
- ✓ 3P~/N/PE, 400V, 50/60Hz, 30A

### Options

- Automatic Defect Recognition – ADR
- Digital Flat Panel, 400x400mm, 100 $\mu$
- Second Robot for Flat Panel



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# Turbine Receiver Ring Inspection

**XC05-2000-1R-450**

## Our Commitment

- ✓ Highest Level of German Machine Design and Quality
- ✓ World-class Components like Siemens PLC and PC, SEW
- ✓ System Concept: immediate ready to use
- ✓ Industry 4.0
- ✓ TUV Approval Certificate
- ✓ 2 Years Guaranty
- ✓ Service Contract with 24/7 Support
- ✓ Sustainability



**ASK FOR DETAILED PERFORMANCE LIST  
XC05-2000-1R-450 AND QUOTE**

FOR MORE INFORMATION, PLEASE CONTACT  
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