

# Automatic Wax Mold Inspection



# XC02-700

Doc: Product Info Sheet XC02-700 wax mold Rev00

THE X-RAY SOLUTION



by Christoph Grohmann

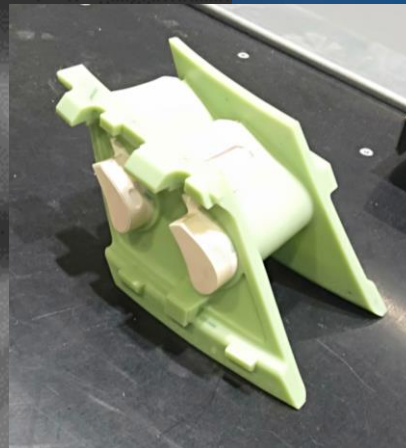
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The **XC02-700** is especially designed for the inspection of wax molds for aircraft engine parts like turbine blades. Therefore, the system is equipped with a 160 kV X-ray source and a digital flat panel with pixel size of 145 micron.

The carrier concept with a diameter of 700 mm allows single part loading as well as multiple loading at the time - **THIS XC02-700 HANDLES ALL.**

## Parts Parameters

- ✓ Wax mold size up to 600 mm
- ✓ Part height max. 280 mm
- ✓ Part weight max. 60 kg



**XC02-700** is designed for offline processed manually or fully automated inspection of wax mold parts. The system reaches its high level of functionality while being compact with a small footprint. The combined features make **XC02-700** a unique inspection system.

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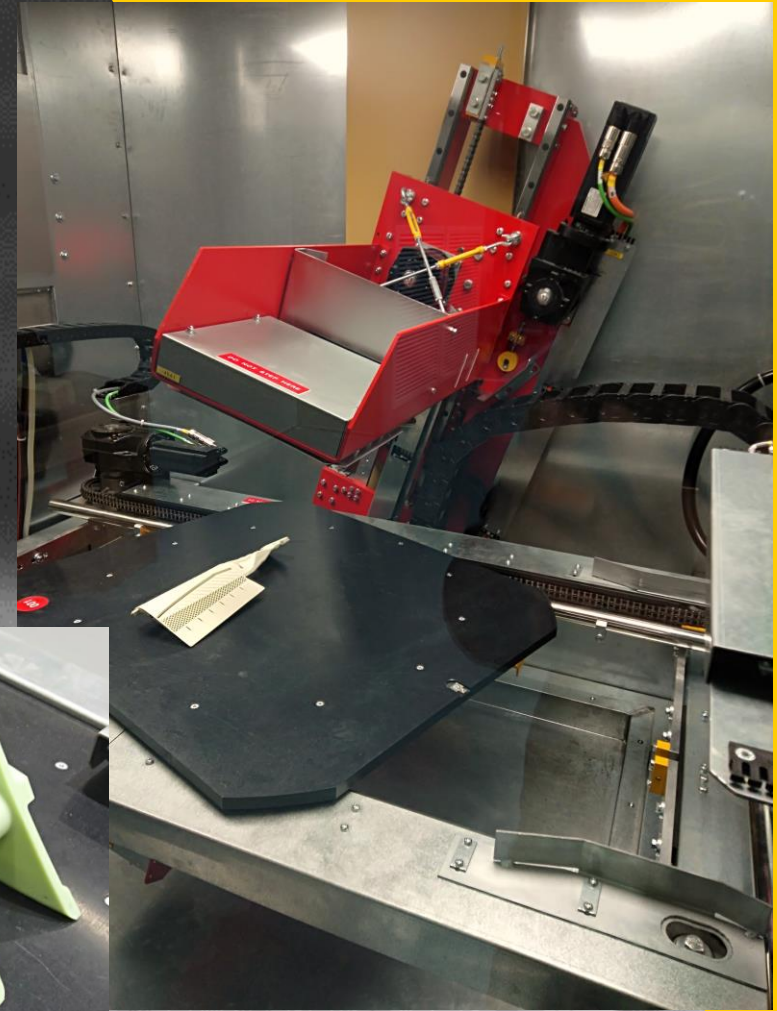
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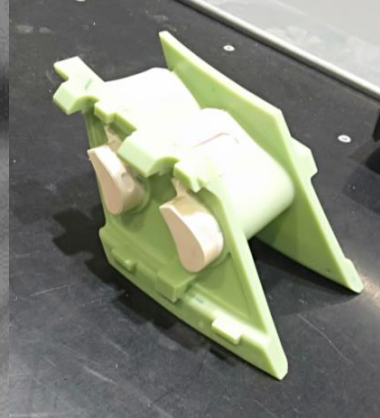
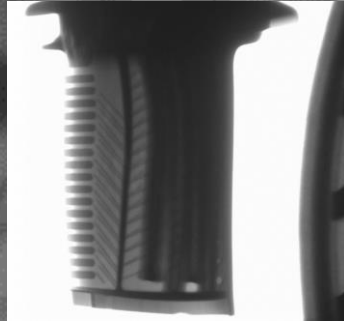
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Thanks to its C-Frame technology, **XC02-700** reaches all necessary inspection areas without any dead-zones. High performed fully controlled servo axes makes it one of the fastest offline wax mold inspection systems. Based on integrated automatic type recognition, **XC02-700** can be used for different wax molds without any delays. When production changes to a different product, the product specific inlet plate can be replaced within extremely short time. Integrated touch-pads allow real-time manipulation of all axis during teach-in and regular operation.



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## ADR Software

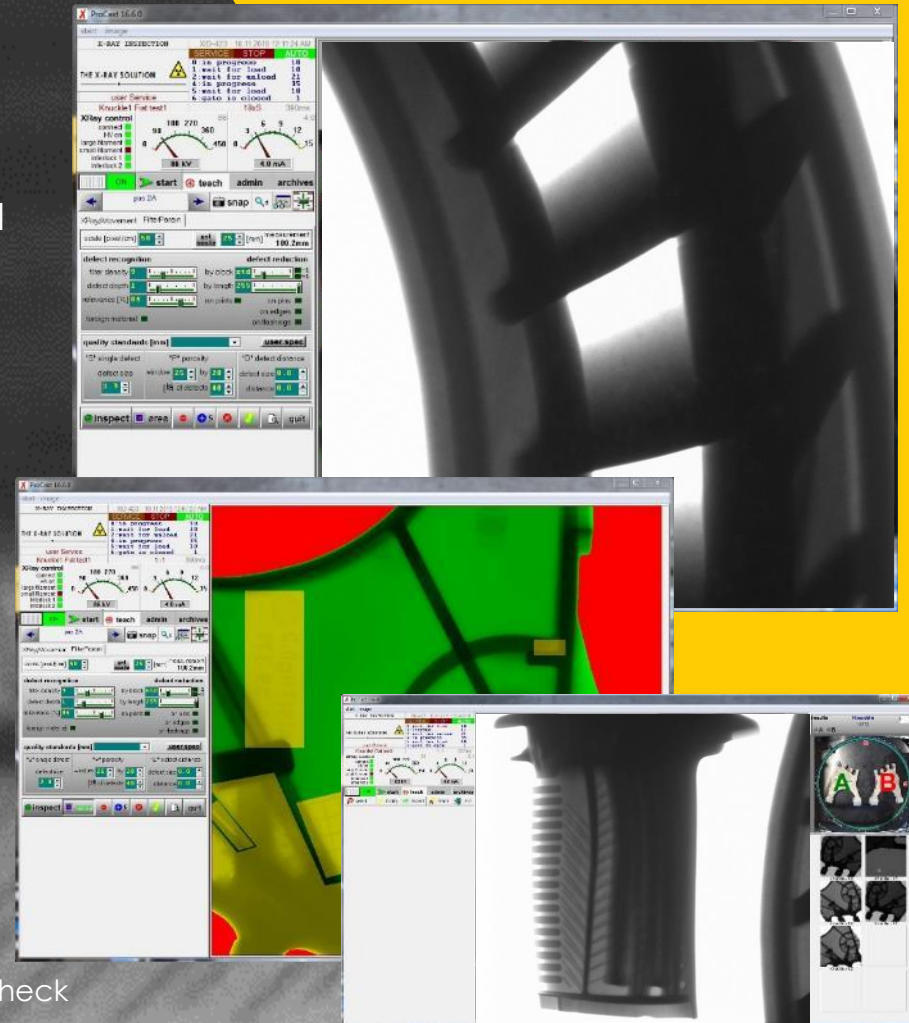
The user interface of the ADR software is structured very straightforward, and a lot of visual tools support the user setting of a specific inspection program within short time and in an intuitive and easy to learn fashion.

The human machine interface is designed according to the rules of ergonomic workplaces and is to be used for regular operation as well as teach-in process.

Especially during teach-in process the operator needs a good view into the machine and onto the wax molds while it is being moved into the specific positions.

## Special Features

- ✓ Manual, Semi-Auto and Automatic Mode
- ✓ Automatic Image Quality Check
- ✓ Automatic Positioning Correction
- ✓ Zooming
- ✓ ASTM Reference



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## General Features

- ✓ Fully automated Offline System
- ✓ Brilliant Image Quality
- ✓ 160 kV X-ray System
- ✓ Digital Flat Panel, 300x300 mm, 145μ
- ✓ C-frame with tilting +/- 45°
- ✓ Automatic Type Recognition
- ✓ Automatic Defect Recognition - ADR
- ✓ Throughput of up to 4000 parts/day

## Special Features included

- ✓ Integrated Touch-Pads
- ✓ Surveillance Cams and Tele-maintenance
- ✓ Re-check and Sampling
- ✓ Auto Image Quality Check for Sensitivity, Resolution and Step-Wedge
- ✓ Automatic Shutter System
- ✓ Statistical Database
- ✓ Ergonomic Operator Seat
- ✓ Vacuum Cleaner

## Options

- NOK Ink Marking
- Robot Handling
- OK / NOK Separation
- Flat Panel 430x430 mm

## Technical Data

- ✓ Dimension: 4097 x 1750 x 2063 mm (LWH)
- ✓ Weight: 3.25 metrical tons
- ✓ 3P~/N/PE, 400V, 50/60Hz, 18A



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# Automatic Wax Mold Inspection

## 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**  
**XC02-700 AND QUOTE**

FOR MORE INFORMATION, PLEASE CONTACT  
[contact@thexraysolution.de](mailto:contact@thexraysolution.de)

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## Contact Addresses



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