

Automatic Casting Inspection

XC02-700

Doc.: Product Info Sheet XC02-700 Rev00



THE X-RAY SOLUTION



by Christoph Grohmann

Automatic Casting Inspection

The **XC02-700** is equipped with a same-side In/Out roller conveyor to run product carriers in and out for inspection.

With its 160 kV X-ray source and a digital flat panel with pixel size of 145 micron it is an excellent offline system for a high diversity of casting parts.

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

- ✓ Casting 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 aluminium 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.



XC02-700

Doc.: Product Info Sheet XC02-700 Rev00

THE X-RAY SOLUTION

by Christoph Grohmann



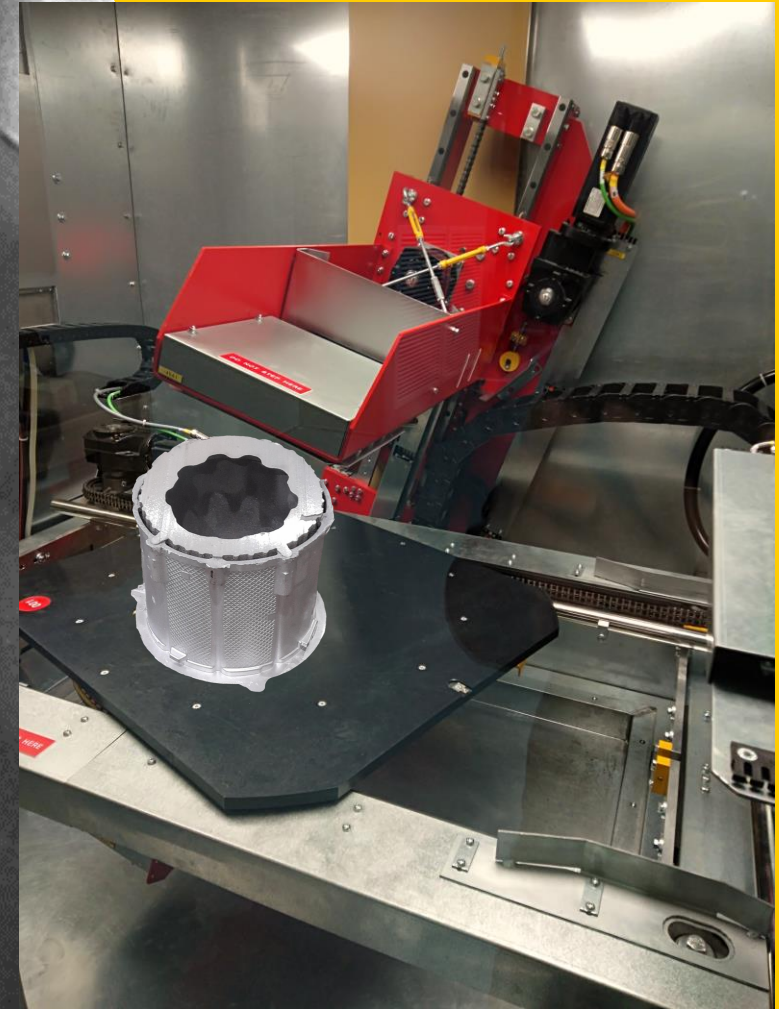
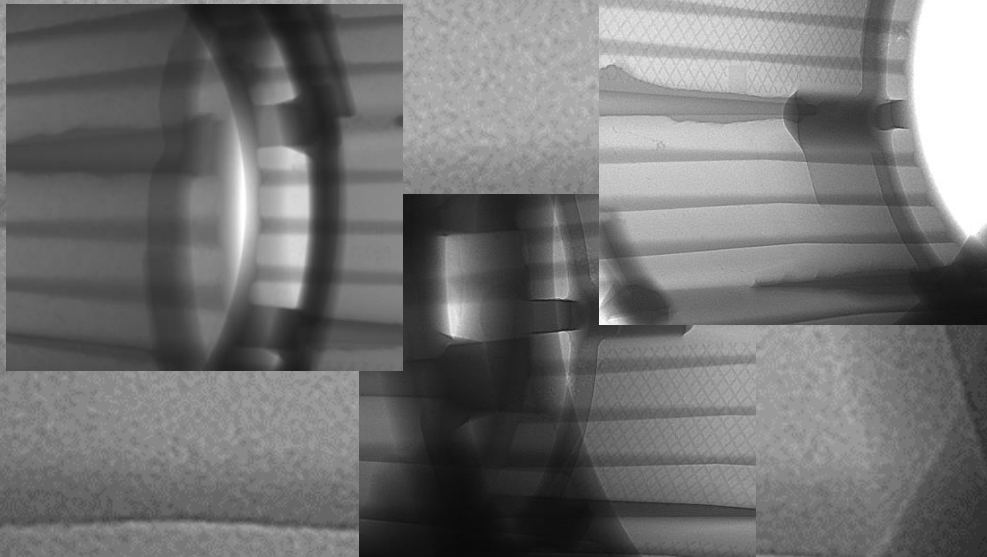
Automatic Casting Inspection

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 inspection system.

Based on integrated automatic type recognition, **XC02-700** can be used for different products 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.

XC02-700

Doc.: Product Info Sheet XC02-700 Rev00



THE X-RAY SOLUTION



by Christoph Grohmann

Automatic Casting Inspection

ADR Software

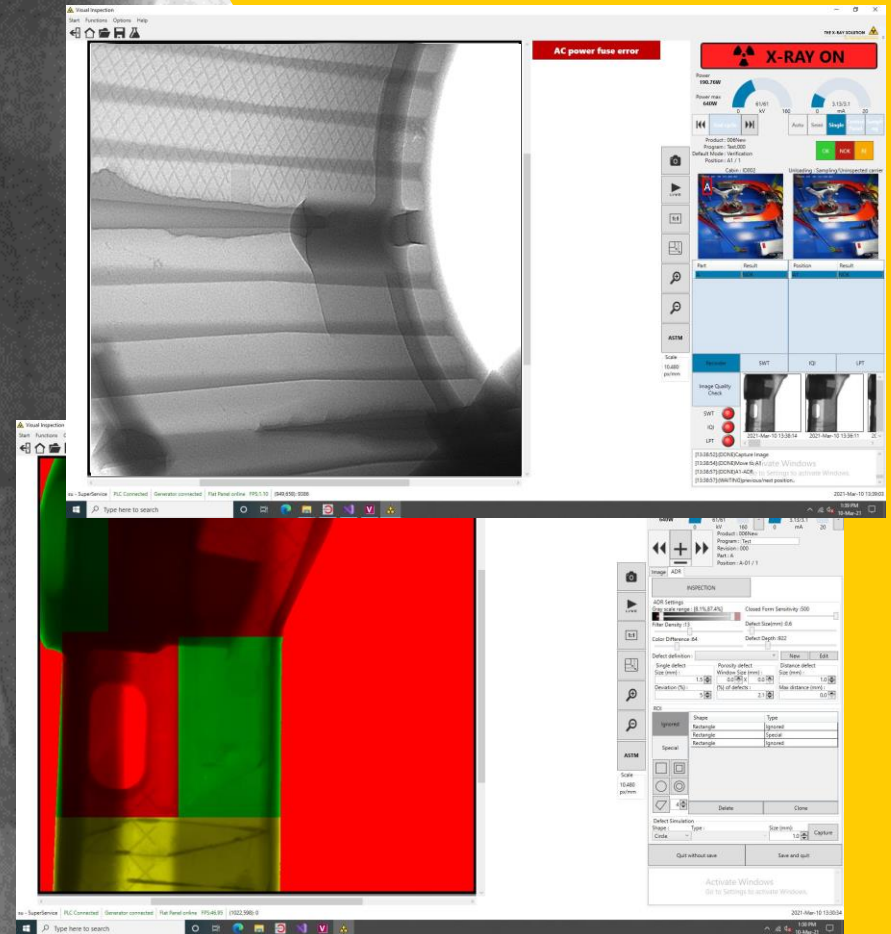
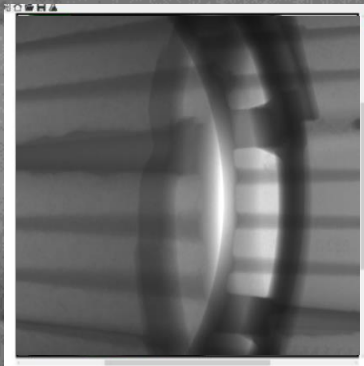
The user interface of the ADR software is structured very straightforward, and a lot of visual tools support the user setting of a specific inspection program within short time and in an intuitive and easy to learn fashion.

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 products 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



XC02-700

Doc.: Product Info Sheet XC02-700 Rev00

THE X-RAY SOLUTION



by Christoph Grohmann

Automatic Casting Inspection

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

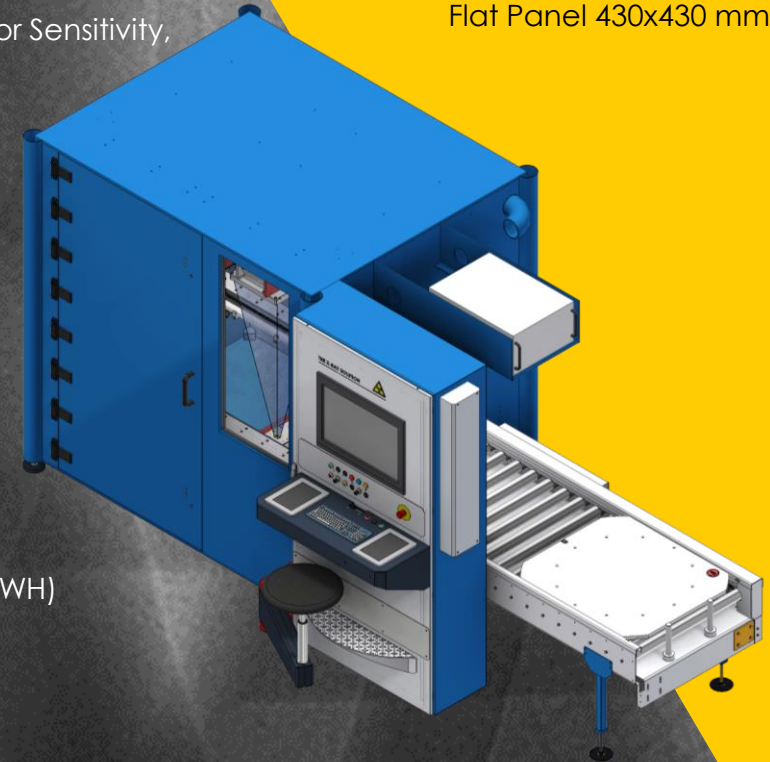
- ✓ Integrated Touch-Pads
- ✓ Re-check and Sampling
- ✓ Surveillance Cams and Tele-maintenance
- ✓ Auto Image Quality Check for Sensitivity, Resolution and Step-Wedge
- ✓ Automatic Shutter System
- ✓ Statistical Database
- ✓ Ergonomic Operator Seat
- ✓ Vacuum Cleaner

Technical Data

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

Options

- NOK Ink Marking
- Robot Handling
- OK / NOK Separation
- DMC Reader
- 225 kV
- Flat Panel 430x430 mm



XC02-700

Doc.: Product Info Sheet XC02-700 Rev00

THE X-RAY SOLUTION

by Christoph Grohmann



Automatic Casting 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

XC02-700

Doc.: Product Info Sheet XC02-700 Rev00

THE X-RAY SOLUTION



by Christoph Grohmann

Contact Addresses



Visit our Website



Disclaimer

All names and logos in this presentation are trademarks of **THE X-RAY SOLUTION GmbH & Co. KG**, Germany.
All rights reserved. © by **THE X-RAY SOLUTION GmbH & Co. KG**, Germany 2023