

YXLON WI26 G

Premium, high-throughput digital X-ray inspection systems for large alloy wheels

Speed up your wheel testing reliably



YXLON
Technology with Passion

Explore the art of detection

As a world leader in non-destructive testing, YXLON has mastered the art of detection. Based on our extensive experience in designing tailor-made X-ray and CT solutions, we help our customers achieve excellent results during their scientific research and development projects as well as production inspection procedures. Making the invisible visible – that's what we call the art of detection.

No matter what industry you're in, you'll get precise images thanks to our smart systems. The YXLON portfolio covers the widest variety of sizes and materials, with the YXLON WI26 G providing high-performance X-ray inspection for alloy wheels. You'll benefit from reliable, cost-effective results with premium image quality.

YXLON solutions are tried and tested premium systems. They blend smoothly into your processes, guaranteeing fast, intuitive workflow and high uptime. Our product range equips you with relevant information regarding the interior and exterior structures of your items, enabling you to do accurate analyses.

Additionally, the worldwide YXLON service network is an important factor to be taken into account when evaluating the YXLON price-performance ratio – one that appeals to quality managers, operations personnel, and purchasers alike.





Benefit from inline inspection innovations

Do you want to inspect your alloy wheels with maximum throughput at the lowest possible cost per wheel? Do you need reliable, objective and reproducible results? Opt for the inline system YXLON WI26 G – the benchmark for automatic and fast digital X-ray alloy wheel testing.

The digital detector array YXLON Panel 460 provides outstanding image quality with a dynamic resolution of 16 bit. It displays exceptional image contrast without blooming for accurate automatic defect recognition (ADR). The false rejection rate is kept to a minimum.

The large 30 x 30 cm Panel 460 also makes a significant contribution to short cycle times. The size and aspect ratio of the detector reduce the number of projections needed to inspect the wheel. Wider wheels can also be inspected with a single rotation around the rim.

Furthermore, the degradation-free detector eliminates the need to manually adapt the programs to compensate for aging. These settings can be transferred to your other WI26 G systems, simplifying the process even more.

In every performance parameter it's a sizeable leap compared to our image intensifier systems. For example, you'll profit from at least 50 % more throughput thanks to the combination of the Panel 460 and our outstanding machine/system design.

YXLON WI26 G key benefits

- High-throughput alloy wheel inline inspection made possible by combining detector, manipulator, and rotation locks
- Exceptional image contrast for accurate automatic defect recognition (ADR)
- Larger area digital detector array enables comfortable, fast inspection of large wheels
- No need for program maintenance due to degradation-free detector
- Equipped for a smart factory with statistical process control capabilities

Detect what matters

Count on the reliability of the inline X-ray inspection solution YXLON WI26 G now and in the future. Thanks to its statistical process control capability, the system comes equipped for smart factories.





- 1 Rotation lock with vision system
- 2 Detector and manipulator
- 3 Operator desk
- 4 Wheel gripper

Blends well into your plant and process chain

YXLON WI26 G fits perfectly into your factory set-up. The entire system, including the conveyer, makes economic use of space. Additionally, you can save space by placing two units back to back – including one with reversed conveyer direction. This arrangement is possible because the YXLON WI26 G can be opened for maintenance entirely from the front.

The rapid inspection process is facilitated by feeding in wheels using the YXLON proprietary rotation locks. X-ray beams can't exit the cabinet and no costly safety switches are needed, keeping maintenance and costs low.

Just one more example of how WI26 G minimizes the total cost of ownership.

The system's software YXLON AI allows for rapid, automatic inspection processes. AI inspection programs are easy to learn,

and the software provides a wide range of features optimized for everyday inspection tasks. For example, you can effortlessly create the initial sample test reports required by automobile manufacturers and archive the X-ray images. Furthermore, the YXLON WI26 G and its AI software add value when you use the inspection results for modifications at your casting station.

Data collected via X-ray inspection is useful in various wheel manufacturing steps. The integrated statistics open up new possibilities to continuously improve your production quality. Statistical process control allows you to initiate changes before costly defects materialize. Discover negative tendencies and stop them, and in the next step, verify the effectiveness of your countermeasures. YXLON WI26 G is future-ready for the paradigm shift to a smart factory.

Compelling details

- Dynamic 16-bit resolution showing defects in outstanding detail
- 300 mm x 300 mm detector reduces inspection time
- System design combines high-speed operation with minimum total cost of ownership



YXLON Life Cycle Service – more than the best image

YXLON Life Cycle Service

- **Y.ServicePass** – the most important services tailored to your system and your needs
- **Y.SmartPass** – for customers who need spare parts immediately for maximum system uptime
- **Y.LifeCyclePass** – the all-inclusive package covering all costs throughout the lifetime of the system
- **Y.WarrantyPass** – predictable costs by extending the warranty for one or two years
- **Y.SmartSpares** – the best compatibility and added functionality using original YXLON spare parts
- **Y.SmartExchange** – direct replacement of defective or worn-out components to minimize system downtime
- **Y.Updates** – up-to-date system technology and prolonged lifetime
- **Y.Academy** – professional training teaches your operators how to get the most out of the system

What are your specific service requirements? We offer a wide range of service modules and packages tailored to your needs.

Our highly qualified global service team is committed to providing excellent service to our customers worldwide. With eight global service centers and specialized staff at over 50 service partners, we can ensure a rapid response time wherever and whenever you need it.

Your benefits include:

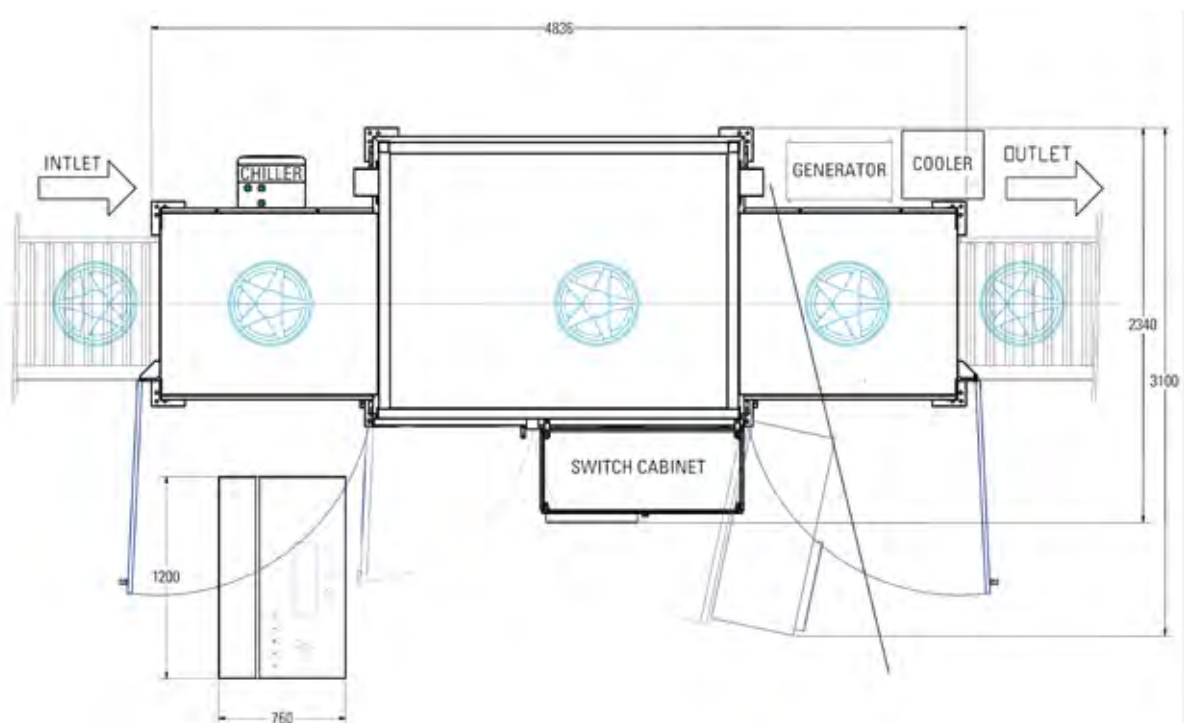
- High system availability
- Low operating costs
- Superior inspection results
- Guaranteed operational safety
- Prolonged system lifetime

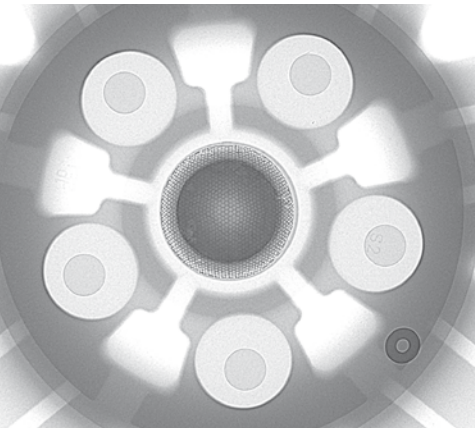
We align our organization and all service activities to comply with your requirements. With our innovative, modular service solutions you can count on true added value throughout the entire life cycle of your system. One module to reduce system downtime is to have consignment stock on-site so that spare parts can be replaced instantly.

We support you in keeping your inspection costs to a minimum. At the same time, your systems operate safely at peak performance while providing optimum inspection results throughout their entire lifetime.

Check out these facts and figures

ATTRIBUTE	Respective Value
Sample dimensions	Diameter: 660 mm max.
Overall width	430 mm max.
Maximum sample weight	50 kg
System dimension	4840 x 2340 x 2150 mm
X-ray tube	160 kV / 1000 W
Detector active area	300 x 300 mm
Pixel pitch	200 μ m
Bit depth	6 bit





Would you like to learn more about our systems?
Interested in a test inspection?
Please contact us by phone or e-mail.
We look forward to hearing from you.

YXLON

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