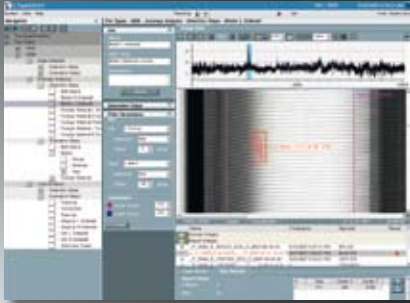


Y.TireAXIS™ 6

Automatic X-ray Inspection System for tires

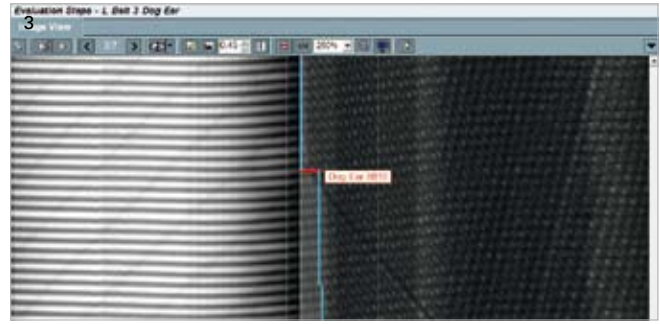
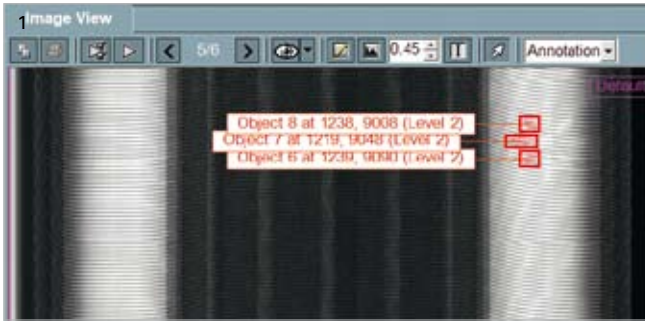


- Fully automatic tire inspection without operators
- Repeatable inspection for controlled testing process
- Selected by our customers worldwide
- Configurable inspection programs

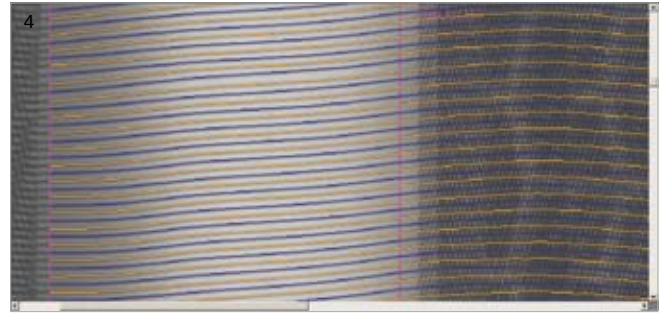
Y.TireAXIS (Automatic X-ray Inspection System) makes fully automatic tire inspection a viable option, because automatic inspection eliminates the problems that arise from visual inspection. No more visual fatigue or anomalies that go unnoticed when an operator is distracted. The inspection results achieved with Y.TireAXIS™ are highly repeatable and enable consistent process quality. The inspections available cover all typical anomalies during an X-ray inspection of TBR and PCR-type tires. Examples for inspected parts include the body cord, sidewall, belt, turnup and bead areas.

Our global customers are choosing Y.TireAXIS™; more and more smaller customers, too. For many, it has helped to reduce the costs of test. Each manufacturer can configure the inspection program extensively. Automatic inspection is very fast and runs on industrial PCs without reducing throughput.

YXLON. X-ray technology at its best.



- 1 Blister
- 2 Configuration
- 3 Dog ear
- 4 Cord tracking



Inspection workflow

Y.TireAXIS™ is fully integrated into Y.MTIS, the tire X-ray inspection system from YXLON. It uses the regular X-ray image acquired by the X-ray system. The image displays one full revolution of the tire. Without automatic software the operator would simply view that image. With Y.TireAXIS™, the powerful software analyzes the image, then the inspection result is made according to the defined test specification. The result and any images created are optionally stored locally or on a file server for later reference.

Inspection modes

- Automatic inspection:
Fully automatic inspection and result via Y.TireAXIS™
- Semi-automatic:
Display of the result along with the tire's X-ray image, final decision to be made by the operator.

Inspection tasks

Y.TireAXIS™ detects anomalies in different areas of the tire. It finds deviations in regular structures. The inspection program constraints can be in either pixels or mm following calibration. The most commonly used tests cover:

Detection of

- foreign material
- air voids/blisters

Alignment and consistency of tire components

- belt centering, consistent belt width and correct belt angle
- correct position or height of turnup and chafer
- offset splices in belts, chafer and turnup
- kinked beads and loose bead wires

Analysis of steel cord body plies

- cord spacing
- crossed cords
- cords that touch each other
- wavy cords

Options

- Y.TireASSIST, manual visual inspection assistant
- Y.TireCAT, automated calibration tool
- Offline PC for inspection specification creation or setup verification

YXLON

Technology with Passion

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