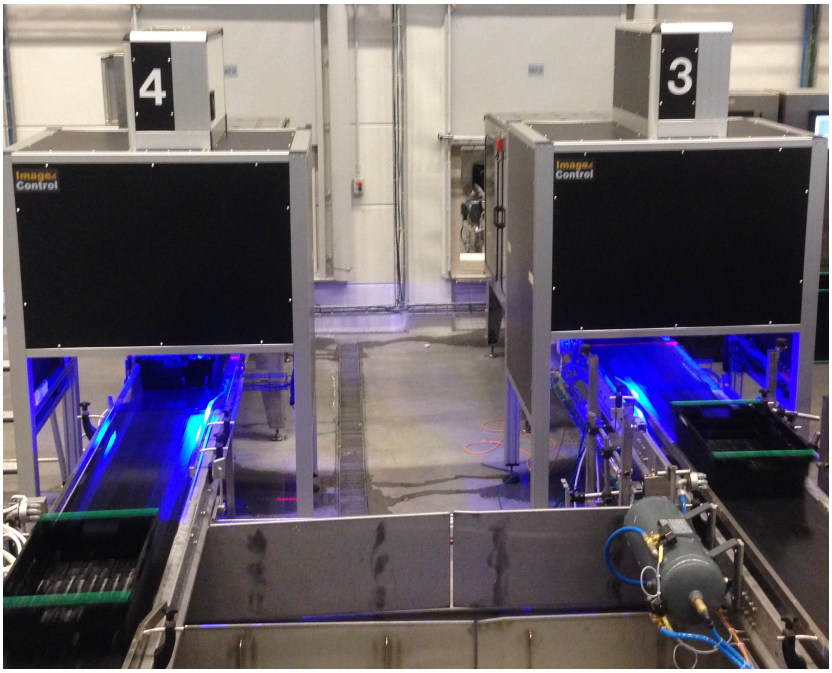
TrayInspector Inspection system for returnable crates



Why risk shipping defective crates / boxes?

TrayInspector verifies that your trays and crates are free of label residue, deformations and defect bail arms.

The system can be fitted into your existing production line and performs the inspection with a conveyor speed of up to 2 meters per second and 4000 crates per hour.

Well proven in tough environments

TrayInspector is built to withstand the demanding environment in the washing facilities that handles returnable crates.

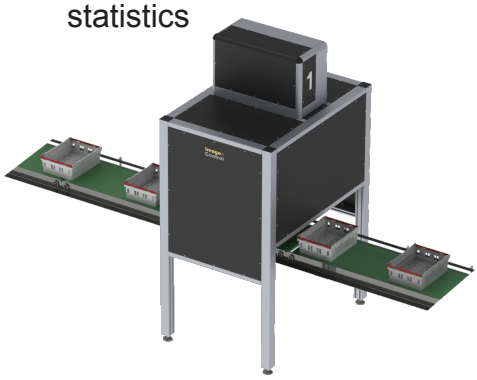
Image Control has developed TrayInspector for more than 10 years together with our customer Svenska Retursystem.
This made a reliable and rapid system that can deliver realtime statistical data to improve your production.

Benefits

- Increased productivity
- Fewer product claims
- Increased quality
- Reducing cost

Features

- High speed inspection: 4000 crates/hour
- Crate defect detections:
  - Label residue
  - Damaged or missing bail arms
  - Cracks, broken, deformed
  - Bail arms in wrong position
- Conveyor speed up to 2 meter/sec
- Adaptable to existing production lines
- Easy maintenance
- Realtime production statistics



Vision Systems and Automation Solutions

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Different types of crates can be inspected

How does it work?

1. After being washed the crates are transported through the TrayInspector system.The crates are separated to enable both front and backside inspection.

2. The crates are inspected during transport through the system. TrayInspector verifies that the crates are free from label residue, deformations and defect bail arms and that bail arms are in correct position.

3. Data from the inspection is compared with the preset tolerances, if a defect is found the system signals to the reject station to remove the crate from the conveyor.

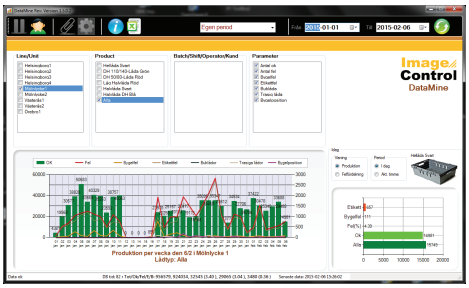
4. The crates and systems condition is logged to a local database.

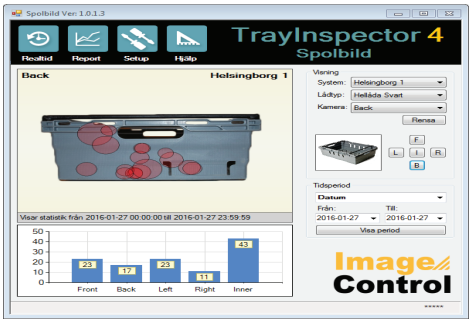
5. Operating data on crates can be presented and reported graphically by our software DataMine.

The following data can be displayed:
- Different defect types within the chosen time span, product and system.
- Label residue position on the different crate sides.

Options

- WatchDog
- DataMine
- Data Transfer
- RinsePattern





Technical Specifications

Maximum throughput	4000 crates/hour
Travel speed	2 meter/sec
Label Pattern analyzer	Yes, RinsePattern
Remote control	Yes
Statistics	Yes, DataMine
Product change	Automatic
Product information	Yes, saved in database

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