

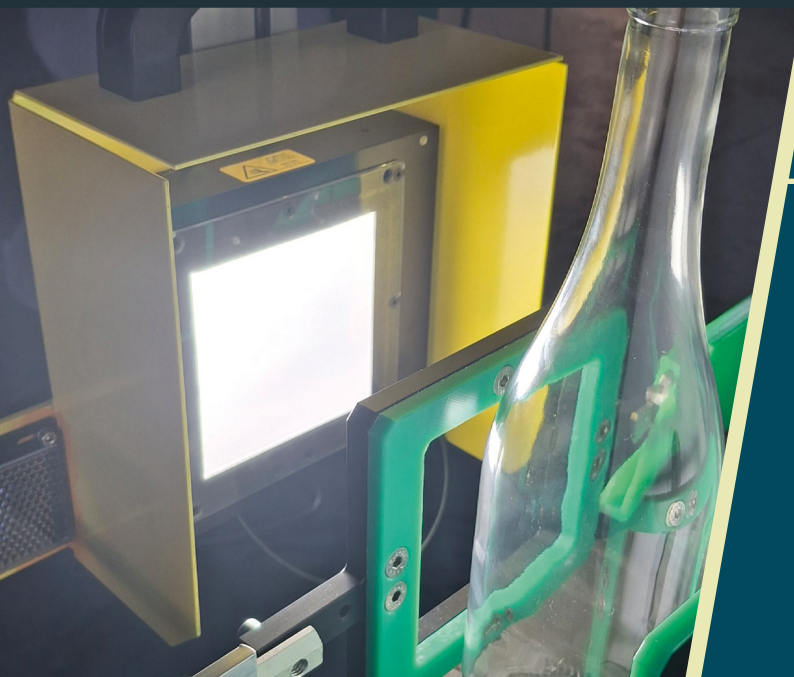
SEEDSCAN



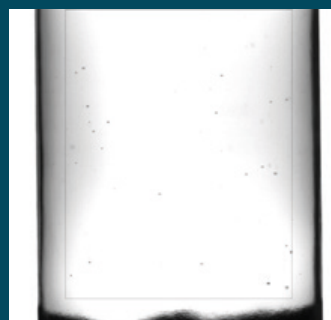
Bubble Detection Machine on the transport line to inspect passing production and convert bubble detection into actionable trend information.

General Features

- ✓ Automatic detection of bubbles in glass containers. Detection capability down to 0.1×0.1 mm within the camera inspection area.
- ✓ Inspection of up to 250 containers per minute.
- ✓ Suitable for conveyor speeds up to approximately 50 m/min.
- ✓ Calculates bubbles/kg and bubbles/ton.
- ✓ Generates correction factors and production indicators.
- ✓ Stores external files for analysis and traceability.
- ✓ Configurable bottle models and inspection parameters.
- ✓ Deep Learning filtering available for advanced detection.



Increased Quality Control

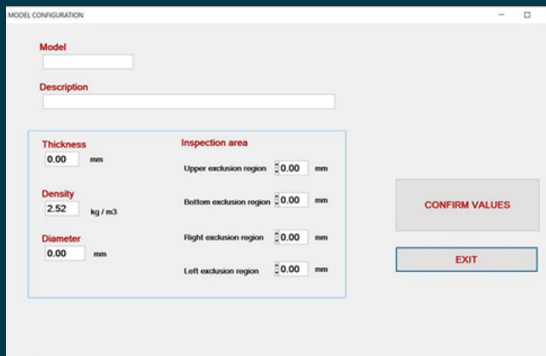


Early detection of manufacturing defects helps maintain stable production quality, supports process optimization and provides measurable quality evidence throughout the manufacturing process.



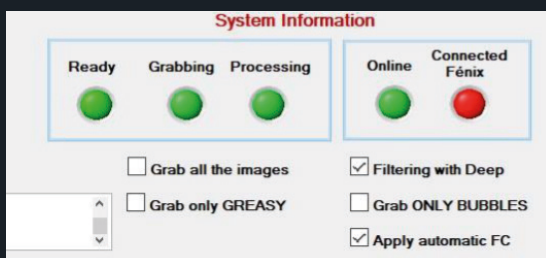
Reliability and Traceability

All inspection results are consolidated into production indicators and historical files that can be accessed externally for quality analysis and process monitoring. Available reports include averages by production batches and hourly production statistics.



Versatility

- + Supports round bottles from Ø52 mm to Ø100 mm.
- + Suitable for flint, green, dark green and oak glass colours.
- + Adaptable to additional bottle shapes and glass colours.
- + Configurable inspection zones and model parameters.
- + Compatible with external data analysis systems.



Advanced Functions

- Deep Learning-assisted filtering.
- Automatic image acquisition.
- Selective capture of defect images.
- Trend analysis using bottle, batch and hourly statistics

Key Benefits

- 100% automated inspection.
- Early defect detection.
- Real-time production monitoring.

- Quality traceability.
- Reduced process variability.
- Improved manufacturing efficiency