







CAISSEL

CASSEL XRAY SHARK® XS26-H2-GIG

Highlights

XRAY SHARK

- Side-view x-ray inspection machine typically used for upright bottles, cans, jars, and vials
- Detects high density materials like metal, ceramic, stone, some plastics and even glass particles in glass containers
- Easy operation with autocalibration and clearly arranged functions on 17" touchscreen
- XIA software provides instant analysis and detection with high accuracy and reliability
- High speed transversal pusher reject device included

Features

- Real time detection with color coded contamination analysis
- Masking functions to prevent false rejects
- Auto-storing of inspection data with time and date stamp
- USB and Ethernet for data transfer to PC or memory stick
- High speed reject system

- Easy maintenance and cleaning
- User-friendly menus for easy operation
- Built-in remote maintenance
- 24 hours non-stop operation
- TÜV-approved: reliable German safety standard (optional TÜV certificate)



XRAY SHARK® XS-GIG-Series

X-ray inspection for vials, bottles and jars

Overview

The XS GIG X-ray inspection system is specially designed for the complex detection of glass particles in vials, bottles and jars. It also detects unwanted foreign objects such as metal, stones, ceramics or plastic with high density in the product.



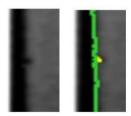
Dual-beams for precise inspection of vials from various angles.

The masking feature excludes certain areas of the image from foreign object detection, e.g. the very dense jar bottom. This improves the detection performance in the remaining product.



The adaptive software learns structures of thousands of jars. In milliseconds the software recognizes which structure fits best to the current image, and subtracts that structure. As a result, glass pieces are detected even in the lid area.





CASSEL Inspection's AutoEdge function finds the edge between jar wall and product, even though the wall thickness varies due to production tolerances. As a result, glass pieces are detected even at the wall edge or bottom bulge.



The SuperContrast function enhances small dense (dark) structures in the image. This improves detection of small foreign bodies, which then become visible.



Application

Inspection of packaged food and non-food products in vials, bottles, and jars.

Industries

- **Pharmaceuticals**
- Food and non-food
- Hygiene and cosmetics

Included

- X-ray scanner with XIA image processing software
- Complete protection from radiation utilizing safety circuits on all openings.
- Certified test cards with soda lime glass, ceramics, steel spheres in various diameters

Accessories & Extras

- Radiation counter
- 21 CFR Part 11 compliance
- BRC (British Retail Consortium) compliance optionally available.





XRAY SHARK® XS-GIG-Series

X-ray inspection for vials, bottles and jars

Specifications

| Model | XS25-L1-GIG | XS25-HI-GIG | XS26-HI-GIG | XS26-H2-GIG |
|--|---|-------------------------------------|--|---|
| X-ray generator | Single beam, max. 60kV (50VV) | Single beam, max. 80kV (480W) | Single beam, max. 80kV (480VV) | Dual beam, max. 80kV (2 x 480VV) |
| | Variable in voltage + current | | | |
| Radiation leakage | I μSv/h or less | I μSv/h or less | I μSv/h or less | I μSv/h or less |
| | at 10 cm outside cabir | | 1 1 | , , |
| Safety | Special product tunnel, magnetic safety switches at cabinet doors and tunnel hatches, emergency stop push button, emergency stop in/out interfaces to safety circuits of production line, X-ray off key switch | | | |
| X-ray detector | 510 mm low noise line | 510 mm low noise line | 510 mm low noise line | 510 mm low noise line scan |
| | scan CCD, diode pitch | scan CCD, diode pitch 0. | .8 scan CCD, diode pitch 0 | .8 CCD, diode pitch 0.8 mm or |
| | 0.8 mm or 0.4 mm (optional) | mm or 0.4 mm (optional) | mm or 0.4 mm (optional | 0.4 mm (optional) |
| X-ray view | 1x sideways (sideup) | 1x sideways (sideup) | 1x sideways (sideup) | 2x sideways (sideup) |
| Cooling | Highly efficient, silent DC filter fans | | | |
| Housing finish | Stainless steel grade AISI 304 / DIN EN 1.4301 (X5CrNi18-10) | | | |
| Degree of protection | IP54 (according to IEC 60529), including touch panel and fans; product tunnel itself IP66 | | | |
| Conveyor type | Metal or plastic chain | | | |
| Belt width | II4 mm | I I4 mm | 152 mm | 152 mm |
| Scanning height | 250 mm | 250 mm | 265 mm | 265 mm |
| Conveyor speed | max. 0,5 m/sec | max. 0,5 m/sec | max. I m/sec | max. I m/sec |
| Max. product dimensions (diameter x height) | 150 x 250 mm | 150 x 250 mm | 150 x 265 mm | 150 x 265 mm |
| Max. product weight | 25 kg | 25 kg | 50 kg | 50 kg |
| Available | High speed transversal pusher for vials | | | |
| reject method | | | | |
| Product memory | 255 different product set-ups | | | |
| Display | 17" Color-TFT capacitive touchscreen | | | |
| Inspection features | Auto-calibration, auto-adaption to density distribution, Density, Hard Contrast, Soft Contrast, Masking Technology, SuperContrast, SizeFilter, AutoEdge masking, Images AutoSave/Load, Multi Segment Inspection, Metal can and Foil inspection, Fill Quantity, Generator Energy by Product, Password protection | | | |
| In-/Outputs | Programmable outputs (contamination, ready, emergency OFF), programmable inputs (emergency OFF, wake up, optional control signals) | | | |
| Data transfer and reporting | Ethernet for remote support via internet, USB for external keyboard/ mouse/ memory stick | | | |
| Max. weight | 0,85 ton | 0,9 ton | 1.5 ton | I.5 ton |
| Power supply | I ph, 230 VAC +/- 109 50/60 Hz, max. I,5 kV | | 3 ph, 400 VAC +/- 10%, 50/60 Hz, max. 3.0 kW | 3 ph, 400 VAC +/- 10%, 50/60 Hz, max. 3.0 kW |
| Compressed air supply | Without reject system 0 MPa (0 bar/ 0 psi), with optional reject system minimum 0.4 MPa (4 bar / 58 psi) | | | |
| Environmental conditions | 10°C to +25°C 50°F to 77°F | 10°C to +30°C 50°F to 86°F | 10°C to +20°C 50°F to 68°F | 10°C to +40°C 50°F to 104°F |
| | with relative humidity max 90%, non-condensing, external cooling device recommended/needed | | | |
| Compliance | CE, compliant to Gerr | nan x-ray regulations, specific | adaptation for other cour | ntries |

Variations in specifications may be experienced with customized system. Your CASSEL representative can provide details.





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Timing screws

To effectively provide a smooth and properly spaced flow of product through the x-ray machine, CASSEL will optionally provide timing screws, also known as feeding screws. Timing screws are custom fabricated to the size of your containers and may be easily exchanged when running different container diameters.



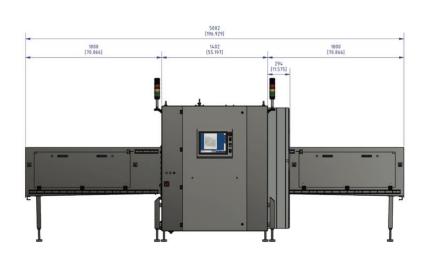
CASSEL XRAY SHARK® XS25-H1-GIG

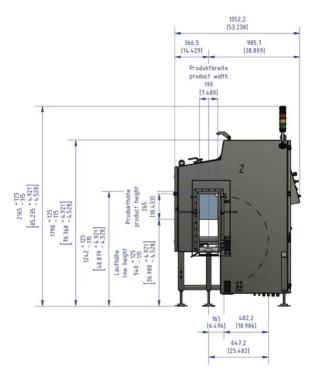




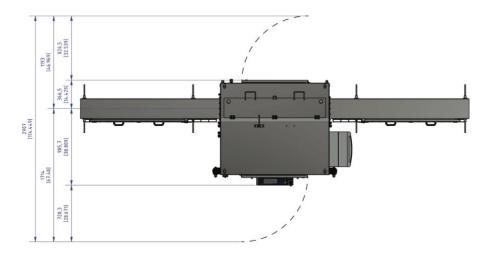


Dimensions XS26-H2-GIG





Sample dimensions including the space required to open the cabinet doors (dots).



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