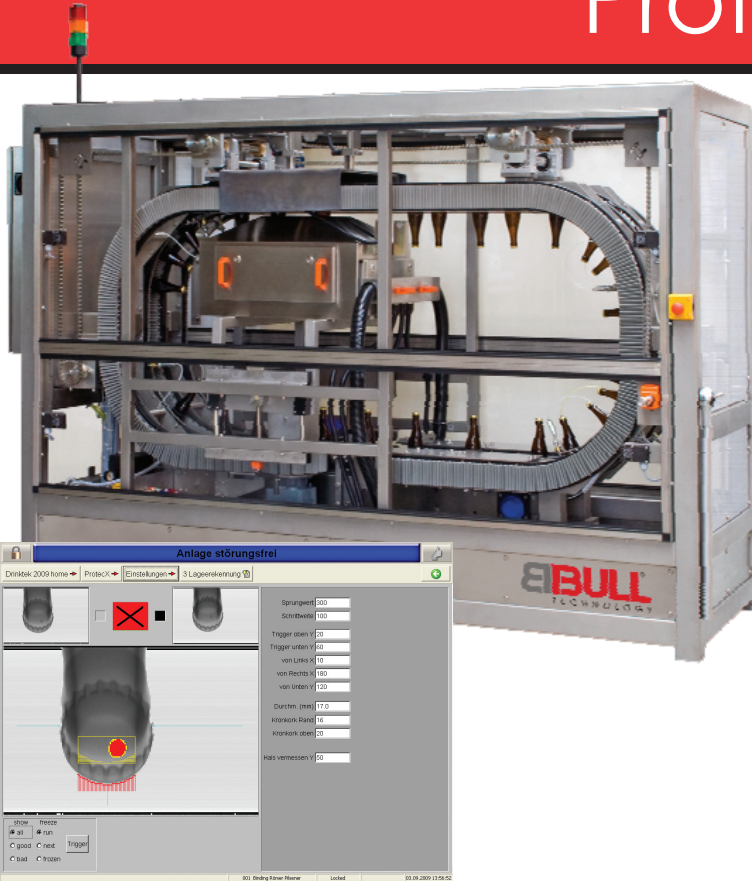


# ProtecX



The **BBULL PROTECX** patent pending handling and inspection technology provides a precise reliable solution for full bottle inspection to ensure product safety and consumer protection.

## Advantages

- Inverted presentation allows high quality inspection in the neck of the container without the limitations typically seen in bottom inspection systems.
- Low-energy dual axis x-ray inspection provides total coverage.
- Intelligent application specific image processing software with self-adjustment and automatic TEACH-IN.
- Compact Linear design for simple integration into new or existing production lines.
- Modular construction and scalability allows application specific customization for different production speeds, and additional inspections.

**BBULL PROTECX** is complete handling and inspection system to detect foreign objects in full bottles. The system inverts the containers, allowing time for contaminants to fall to the neck of the bottle. A dual axis x-ray inspection system assures precise and reliable detection of glass, metal and other solid contaminants in filled containers at high speed.

## Specifications

|                                 |   |
|---------------------------------|---|
| <b>Max Speed:</b>               | 60,000c/h; 1000bpm  |
| <b>Max Line Speed:</b>          | TBD   |
| <b>Accuracy:</b>                | Metal: >1mm; 0.04inch<br>Glass: >2mm; 0.01inch<br>Plastic: on request |
| <b>Container Types:</b>         | round glass   |
| <b>Electrical Requirements:</b> | TBD   |
| <b>Radiation Source:</b>        | ionizing tube; 90kv   |

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## Functionality

*BBULL PROTECX combines proven elevator technology from PAXONA and visual X-ray technology from BBULL STRATEC to allow inspection of foreign objects in the neck of the bottle. By inspecting in the neck area the x-ray is only affected by a single homogeneous container wall and the closure, the system can detect smaller and less dense contaminants. (Bottom inspection is adversely affected by the irregularities seen in the bottom of glass and PET bottles). The dual-axis X-Ray images feed into a standard image processing system to provide a flexible intuitive user-interface to configure and setup the system.*

**BBULL**<sup>®</sup>  
TECHNOLOGY - USA

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