



GLASS BOTTLE INSPECTION - SEALING SURFACE MODULE

Sealing Surface Inspection Module

The FT System Empty Bottle Inspection is a modular system capable of integrating up to six cameras to perform multiple inspections of the entire bottle surface prior to filling. The sealing surface module is a single camera inspection mounted over the production conveyor focused down on the sealing surface of the bottle. The system will detect defects, chips, and cracks in the sealing surface as well as oval or out-of-round bottle openings. The system can be used on clear or colored glass containers and is capable of supporting a wide range of finish diameters.



The EBI Sealing Surface Module will detect:

- Chips in sealing surface
- Cracks in sealing surface
- Ovality inspection
- Choked neck*

Sealing Surface Inspection - Theory of Operation

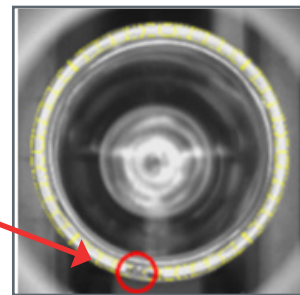
The sealing surface inspection module uses a single camera mounted over the conveyor. The camera uses industrial optics and an infrared LED illumination system to control light, shadows and glare on the inspection surface. As the container passes under the camera an image of the sealing surface is taken. The system detects the center of the container opening, internal radius and external radius. A number of inspection algorithms are applied to the image to detect chips, cracks and ovality. If a defect is detected, the system sends a reject pulse to a down-stream reject device and the defective container is rejected. The consecutive reject alarm will warn the operator of multiple consecutive defects.



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SURFACE INSPECTION SYSTEM FEATURES

- Single high resolution camera
- Industrial optics package
- Dedicated microprocessor
- Infrared LED illumination system
- Automated maintenance schedule
- Ethernet communications port



Chipped sealing surface



Contact our experienced sales teams today for a comprehensive review of your application(s) and to see how the Glass Bottle Inspection - Sealing Surface Module can benefit your company.

powered by:  **FTSYSTEM**
control & inspection