

EMPTY CANS INSPECTION IO700 Vision Inspection System

IO700 Vision System for empty cans Inspection

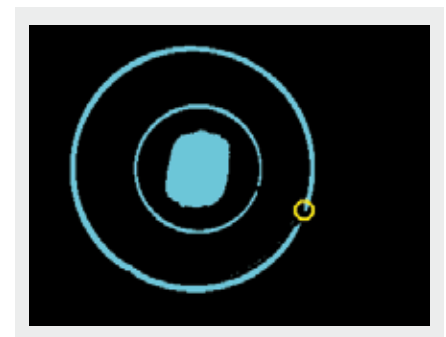
The FT System IO700 Vision system will detect the integrity, the cleanness and the presence of foreign bodies in empty cans. The system uses a camera to inspect each can at full production speeds. The ergonomic design provides easy access to the control panel and supports fast tool-less change overs.

IO700 VISION - TECHNOLOGY

Theory of Operation

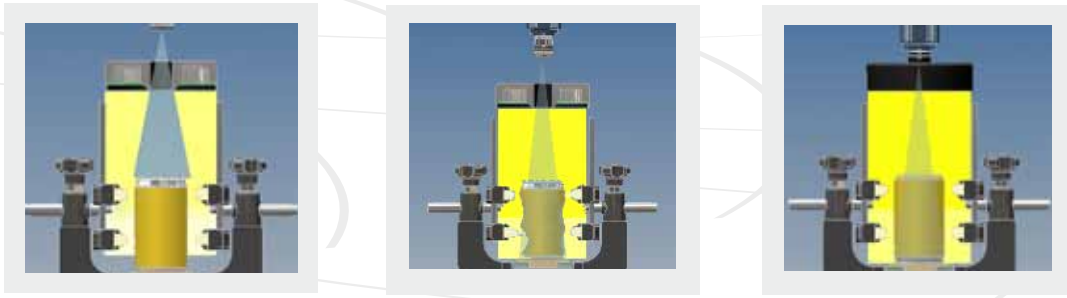
The FT System IO700 Can Inspection system uses an inspection unit to acquire images of each container. The unit includes a camera with microprocessor for image acquisition and processing and industrial optics. The enclosed inspection tunnel utilizes an analog light driver to control lighting intensity. As the can passes through the system the camera capture the image of the can. If a container has moved out of position, FT System special "dynamic position compensation" algorithm compensates for movement of the container and adjusts the image.

Bottom inspection to verify foreign bodies presence.
Superior flange inspection to verify ovalizing, points and various defects.



- Bottom inspection to find opaque and shiny elements
- Inspection of flange deformation
- Inspection of can distortion
- Control of can orientation

EMPTY CANS INSPECTION I0700 Vision Inspection System



CAMERA SYSTEM FEATURES

Stainless steel independent support structure for camera and illumination source.
Industrial camera with dedicated microprocessor
Two special optical groups provide uniform illumination of all surfaces to be inspected.
Lighting intensity can be set for each container type to optimize image quality
Standard 1600x1200 (high resolution) cameras



CONTROL SYSTEM FEATURES

- Independent controller housing
- Microprocessor unit with integrated UPS (uninterrupted power supply)
- Ethernet communications port
- Industrial PC with 15" TFT touch screen monitor
- FT System Control Manager Software
- Simple user interface designed for easy set up and change-over
- Dynamic position compensation algorithm that compensates for containers that have moved laterally on the production conveyor. Software scales the image to improve image analysis
- Segregated data base for storage of historical production data for up to 18 months including storage of past failure alarms with date and time stamp.

