

Bottling Line Inspection



Computer with PLC processes the images captured by the cameras and communicates to the gate on the conveyor belt to divert defective bottles to recycling.

GigE Line Scan Camera



Thousands of bottles move along the conveyor belt at a fast speed.

Bottles with label, liquid, or seal defects are sent to recycling, while the others are sent for packaging.

Gate controlled by computer

Thousands of bottles of soda are produced daily, and each bottle needs to pass inspection before being sold to the consumer. Time and accuracy are a concern to the manufacturer.



Solution:

2 High-speed GigE Line Scan Cameras are connected to a PLC computer to create an automated inspection system.

The cameras are able to capture blob analysis of each bottle's seal, label and liquid content. The computer is then able to interpret this information and control the gate on the conveyor belt.

The bottles which do not meet the standards set by the manufacturer are diverted by the gate to a second conveyor belt for recycling. The bottles that meet the set standards are sent off for packaging.

