

TV Dinner Inspection

TV dinners must have the same contents in each package. Inspection of each dinner can be laborious, time consuming, and costly if it is not automated. The automated inspection system must be accurate while operating at a high pace.



Solution:

A smart camera is utilized along with a computer with PLC and robotic arm.

The TV dinners move quickly down a conveyor belt passing underneath the smart camera. The camera captures an image of each dinner, and transmits the image to the computer.

The computer's PLC then determines if each dinner meets the preset inspection requirements. If the dinner passes inspection, the computer controls the plastic sealing system to seal the dinner and complete packaging. If the dinner fails, the robotic arm pushes the TV dinner to an alternate conveyor belt for recycling.

