EPSILON
Controls & Automation

Application Note…..

Label Alignment Inspection

Customer Requirement:
Ensuring the consistency in alignment of labels

Epsilon Solution:
Combines all P4 vision inspection tools including Blob, Gray Scale, GEO, Edge and Object

Why Epsilon?
Effective Solution:-
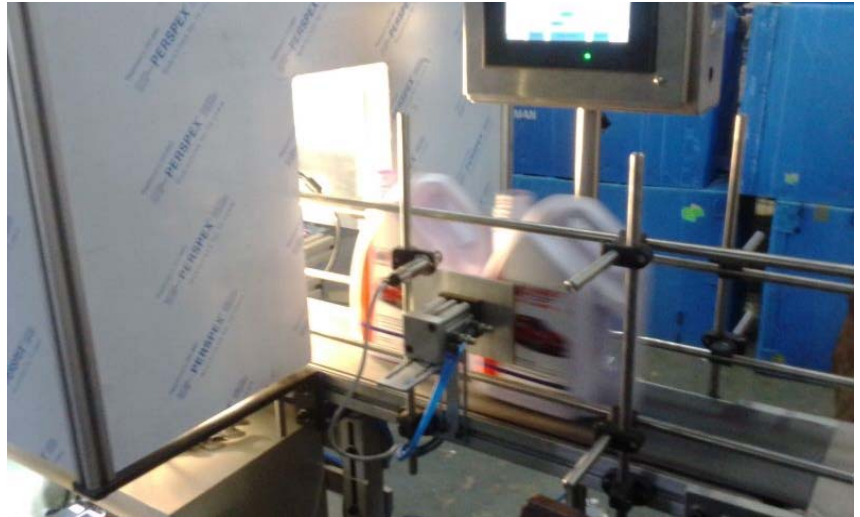Epsilon provides effective and reliable solutions for critical applications

Customer Benefits:

- **Improved Productivity**
- **Easy installation**
- **Improved Speed**

Product image

Background

Customer is a manufacturer of Labeling Machine To ensure quality and protect the brand name, it is important that the label alignment be consistent from one bottle to the next.

Challenge

Customer have various size of cans from 900ml to 5ltr. Challenge is to capture the whole image for all sizes of cans without moving the camera.

Solution

As bottle leaves the label station, P4 Image sensor is configured with a pattern tool to inspect the label and compare it to a preconfigured reference to determine if they match. The P4 verifies that each bottle has a label applied, that the label is correct and matching and matching the product variety and that each individual label is applied straight and not skewed. If the label is missing, or incorrectly placed on the bottle, then the sensor outputs a signal to the labeling machine. We did this inspection for both sides of the cans using two cameras. HMI (DOP BO7E415 65536 Colors) was use to perform product selection.