



Case Study

AIS Ltd
Unit 46-49, Canal Walk,
Park West Industrial Park,
Nangor Road
Dublin 12

Bespoke print, apply and inspection system for global confectionary manufacturer.

Summary:

We designed and installed unique, made-to-order labelling systems for a global confectionary manufacturer based in Dublin to print a label and apply it to a specified product.

The Challenge:

The client needed to significantly reduce the amount of stock of packaging held (and the associated costs), while simultaneously ensuring accuracy in the products being supplied to market.

Before the AIS solution was introduced several cartons with pre-printed information for various markets with various languages were held. This resulted in surplus stock being held with the associated costs of storing that. In addition, the stock had to be closely and constantly managed.

AIS Solution:

There were 3 different product shapes with 3 custom solutions. All 3 solutions incorporated the same hardware but in a different configuration. As is very common with most of our projects, there were 3 aspects PRINT, APPLY and INSPECT.



- **Printing;** Hardware used – Ice Zodiac 300 dpi thermal transfer over-printer.
- **Label Application;** Hardware used – Herma 400 label applicator, position tolerance +/- 1mm. Machines incorporate product gappers, product orientation devices, rejection systems.
- **Vision Inspection;** Hardware used – Datalogic MX-E processor with GigE cameras and ring lighting system. Tools used –
 - Pattern Match (language detection)
 - Blemish check (label quality)
 - Measurement (Text position on label and label position on product).



Case Study

AIS Ltd
Unit 46-49, Canal Walk,
Park West Industrial Park,
Nangor Road
Dublin 12

On each system we have two separate inspection points for the labels - to inspect print quality on label before it's applied and another to inspect the label placement on the product.

The Results:

With the new AIS system in place there is now a reduction of packaging being stored and managed; there is now just one product packaging type for an array of languages. This means a greatly reduced lead time and a faster route to market, as well as a significant reduction in costs for storing/managing surplus packaging. This reduction in packaging along with the assurance of the vision inspection system were key project goals for each of these systems to Print, Apply and Inspect.

About AIS

We supply complete solutions for Automatic Labelling, Machine Vision, Barcode Scanning, Barcode Verification, Label Printing and Ink-jet Coding to a number of industries including life sciences, food and beverage, manufacturing and logistics, throughout Ireland and abroad. Established in 1998, we are a 100% Irish owned company with divisions in Spain and the Netherlands. For more information see www.aisltd.ie.