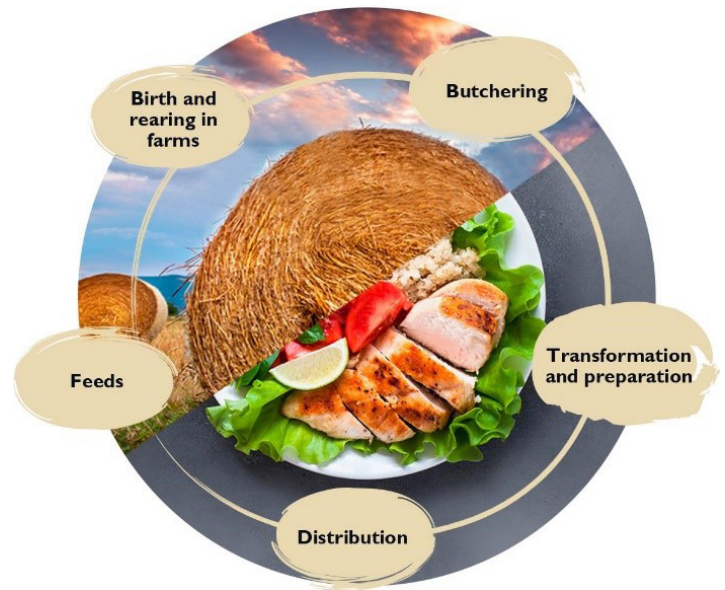


Aldelís bets on the automation of its processes to increase efficiency

A food product company automates its production line



Aves Nobles y Derivados, based in Aragon, Spain, is dedicated to the commercialization of fresh chicken and turkey products marketed under the Aldelís brand.

Since 1997, Aves Nobles y Derivados have belonged to the Padesa Group, which allows them to control the entire production chain, from management of their farms, through distribution of products, to the point of sale. This control of the entire production cycle is a differentiating element to other companies in the food sector.

In recent years, Aldelís experienced sustained growth with its Research & Development and Investigation strategy. As a result, in 2019 Aldelís began the expansion of its facilities through the construction of a new processing plant. This new plant develops a large part of the company's production activity because of the 13 production lines, the facilities to store 1,500 pallets of finished product, and a production capacity of more than 20 million kilos of processed goods each year.

The Challenge: Traceability

In the food sector, it is very important to be able to guarantee the traceability and origin of products. Aldelís has made a clear commitment to the quality and origin of its ingredients. Its 350 farms located throughout the country are certified for animal welfare. One of the key points in the production process is labeling, since it contains all the information related to the product: ingredients, batch, date of manufacture, and expiration date. These are fields that Aldelís verifies (once the label is placed on the package) to ensure that the information is correct. Before the expansion of its facilities, this process was carried out manually. At the new plant, which has been designed to meet the requirements of Industry 4.0, Aldelís has automated the label validation process using a Datalogic solution.

Objective

To ensure the traceability of all their products throughout the tracking process.

Approach

Implement an automated system that would allow Aldelís to ensure the traceability of its intralogistic processes with barcode capture devices, images, and security systems.

The solution

- Matrix 300™
- P-Series Vision Cameras
- PowerScan™ 9300 / 9500

Results

- Accurate data for every food item produced
- Operator safety in the automatic palletizing areas
- ERP system updated in real-time
- Streamlined processes, increasing efficiency and quality

“The innovative technology incorporated in the logistics processes improves efficiency and allows for reductions in internal logistics and supply costs, logistics times with customers, and pollutant emissions.”

Miguel Ángel Añaños
Engineer and Project Manager

Taking advantage of this implementation, intralogistics processes such as the classification of finished products in cold storage or order preparation were also automated. The automation of these processes through Datalogic allowed Aldelís to improve the efficiency of its intralogistics operations by improving the quality and efficiency of its production processes.

Implementation of the MATRIX 300™ in the packaging process

Aldelís decided to implement an automatic system that would allow Aldelís to ensure the traceability of its intralogistics processes with barcode capture devices, images, and security systems.

Matrix 300 verifies the correct information associated with the product through a barcode on the packaging (type of meat, weight, date of packaging, product code, batch, as well as the various ingredients used to prepare each recipe, etc.). This label is then scanned manually using Datalogic's PowerScan 9300 or 9500 Series handheld imagers before the product passes through two Datalogic Matrix 300 scanners, one at the top and the other at the bottom. The advantage of this system is that it can read the label in any position on the tray, sending the data to the Aldelís ERP, keeping the stock data accurate and always up to date. Once the label is verified, the tray is sorted, palletized and stored in cold storage units, ready to be included in their customers' orders.

Implementation of P-Series vision cameras with OCR technology

Another area that has benefited from the use of Datalogic products has been its canned food line. Aldelís canned goods have all of the information regarding the batch, expiration date, etc., marked in ink on the top and bottom of the can. To verify that the cans are well marked and the information is legible, Aldelís has chosen to equip the conveyor belts of its production lines with Datalogic's P-Series vision cameras with OCR technology, capable of reading text. These cameras incorporate an illuminator that ensures that the information is readable, despite the difficulty of reading text on the reflective surface of the cans.

Other implementations

To ensure operator safety in the automatic palletizing processes, the machines are equipped with Datalogic's integrated safety curtains that automatically stop the machine in case an operator enters the danger area.

For sorting and picking customer orders, operators use Datalogic's PowerScan 9500 and 9300 handheld imagers, both corded and wireless models. These industrial barcode scanners offer the robustness and scanning performance needed to operate in a cold and wet environment.

The Result

The implementation of Datalogic solutions in Aldelís' production process has made it possible to streamline processes, increasing their efficiency and quality.



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