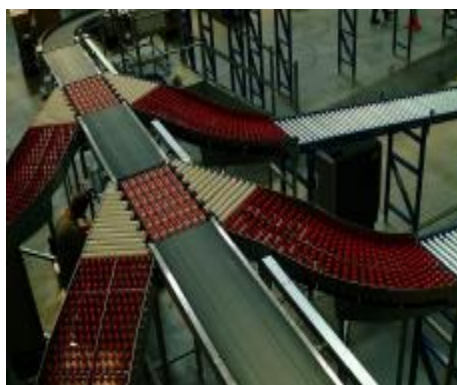


- ü High speed sortation systems
- ü On the fly check weigh
- ü Carton/Order identification via bar-coded cartons
- ü Software interfaces with customers SAP system
- ü Totally managed project
- ü Belt and roller conveyors
- ü Microsoft Windows user interfaces
- ü Web based reporting tools



Deluxe Media had a requirement to significantly improve the efficiency of the packing and dispatch systems in place at their UK distribution centre in Enfield. Axiom worked closely with Deluxe's senior operational staff in the UK and project teams based in the USA to execute the project.

A solution was put forward that would prove to substantially enhance the operation's capability for packing and dispatching cartons. The system collects filled cartons from three distinct areas of the warehouse and the cartons are conveyed at high level giving full vehicle access throughout the plant, to a centralised sortation system.

The sortation system intelligently examines the carton data using the Securicor shipping label as the unique identifier. Then, based on data that has been passed from Deluxe's head office ERP system SAP to the Axiom system where the destination for the carton is decided. Several criteria need to be considered in minute amounts of time the carton weight, any specified QC requirements placed by the client, the carton's current status, i.e. has it already been packed, etc. The carton can be automatically routed to the packing side of the sortation system or the dispatch side of the sortation system, based on the carton data. The system is supplied with two semi-automated packing lines and one manual packing line; two QC lines complete with QC work stations are used for resolving issues with cartons.

A simple set of web based user interfaces using data dynamically gathered from SAP allow users to change system modes on the fly. QC configurations can be adjusted as can dispatch settings.

The system makes use of a single double sided sorter to keep the capital equipment costs lower. Unsealed and sealed cartons travel down the same sortation system and are routed accordingly using Axiom's SW Sorter. (See data sheet for more details)

A dynamic check weighing solution has been provided to capture carton weights as they pass into the sortation system. The unsealed cartons are sealed using semi-automatic tape sealers, then they are queued and automatically re-join other sealed and new cartons on their journey to the dispatch lanes.

The system throughput can be maintained at 70 cartons per minute including merging cartons from the induct to the sortation system and the packing lanes.