

Cartoned Can Conveyor System



Client:
Diageo

Location:
Sydney, NSW
Australia

The Project

Diageo aimed to install a new cartoning machine for their can production line whilst also maintaining their existing cartoning machine for existing carton formats. Australis was engaged to design and manufacture new conveyors and to perform modifications to existing conveyors to facilitate carton infeed into the new production layout. In addition, the system had to allow cartons to be taken away for the new cartoning machine and feed them into the existing conveyor line to feed the existing palletisers. The design included a reject/ divert system for rejected cartons, a spiral elevator and an overhead conveyor.

Australis Engineering provided the following outcomes:

- Designed, locally manufactured and installed infeed conveyors to feed cans at up to 1,500 per minute into either of the cartoners. This system included mass flow conveyors and single filers
- Designed, locally manufactured and installed a 'smart belt' diverter system
- Designed and installed a spiral elevator
- Designed, locally manufactured and installed an overhead modular belt conveyor to feed to the existing line feeding the warehouse
- Provided engineering advice to the client project manager for materials handling solutions

Single Filer Conveyor | Spiral Conveyors | Mass Flow Conveyors



Single Filer Conveyor

Spiral Conveyor

Mass Flow Conveyor

Overhead Conveyor

Reject System

Line Control

The Result

Leveraging our 34 years of conveyor expertise, Australis provided a conveyor solution that minimises OHS concerns and improves throughput. The design of the infeed system also reduced backpressure within the conveyor line which can cause damage or marking to the light weight aluminium cans.

System features include:

- Designed the conveyor system to fit within the very limited floor space available, including the use of a spiral conveyor to maximise floor space utilisation
- Use of new and innovative 'SmartBelt' systems

Australis was able to design the conveyor system to fit into a tight space while still allowing the infeed systems to feed into the two cartoners without prolonged changeover times and while minimising issues of conveyor backpressure on the light weight aluminium cans.

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