

Conveyor System for Large P.E.T Bottles



The Project

Cerebos approached Australis to supply slat chain conveyors for their new catering line to handle large P.E.T bottles. During initial discussions and due to the limited footprint available for the conveyor system, Australis noted that no accumulation had been allowed for in the production line. The lack of product accumulation potentially diluted the benefits of Cerebos' new conveyor system. To solve the problem, Australis proposed two, dual lane spiral elevators and decline conveyors that would provide the necessary product accumulation whilst remaining in the available footprint of the conveyor system.

Australis designed, manufactured and commissioned the following:

- Low friction slat chain conveyors that do not require lubrication
- A lay down conveyor for large PET bottles
- A gripper type conveyor to control product infeed to an X-ray and check weighing system
- Diverter systems to feed onto the dual lane spirals conveyors, and merging conveyors as product leaves the spirals
- Supplied and commissioned two dual lane spiral conveyors

Slat Conveyors | Laydown Conveyor | Spiral Conveyors | Line Control



The Result

Australis provided a turnkey solution that delivered Cerebos outcomes which were greater than expected. Leveraging our extensive conveyor expertise, Australis implemented design improvements to include product accumulation that result in increased production efficiency. The use of low friction chain to eliminate lubrication also helped reduce Cerebos' operating costs. Australis also supplied a smart transfer system that allowed for inline transfer rather than side transfer of product. We also implemented a relatively simple, but very cost effective solution to line control and accumulation solution including the use of dual lane spiral conveyors. Significantly, Australis drew upon its in-house mechanical and automation engineering expertise to advise the client's project manager on best-practice materials handling solutions for this project.

Key to the success of this project was leveraging our 34 years experience and knowledge of conveyors and materials handling issues associated with a high volume production environment to develop an integrated conveyor system that would enhance the project outcomes for Cerebos. The design, manufacture and commissioning of this conveyor system, including the integration of equipment from a number of national and international suppliers has enabled Cerebos to quickly and efficiently execute the project and commence realising efficiencies and cost savings very quickly.

Watch the videos:

<http://www.australiseng.com.au/product/spiral-conveyors/>
<http://www.australiseng.com.au/product/slat-conveyors/>



Client:
Cerebos Foods

Location:
Sydney, NSW
Australia

Slat Conveyor

Laydown Conveyor

Spiral Conveyor

Line Control

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