

Vial accumulation table and discharge conveyor



Client:
Astra Zeneca

Location:
**North Ryde,
NSW Australia**

The Project

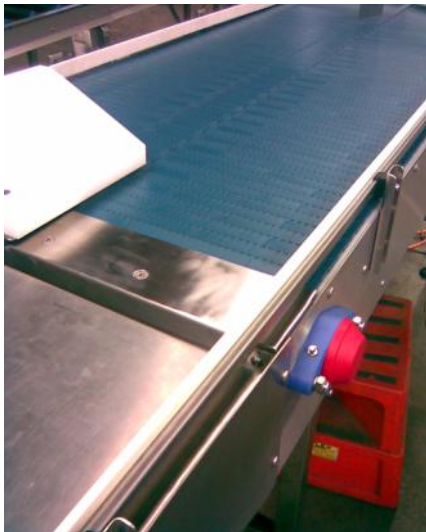
AstraZeneca is one of the world's leading pharmaceutical companies, producing a wide-range of pharmaceutical products. AstraZeneca required a loading accumulation table to handle drug vials. This unit had a through-flow design with low back pressure and non-jamming outfeed guides. The outfeed conveyor was to pass through an existing labeler. The 2 metre long loading accumulation table also required a through flow design with low back pressure and non jamming outfeed guides to ensure only single vials exited the table. The chosen design accumulated and returned excess product to the start of the table.

The outfeed guides also incorporated a fallen vial discharge point which eliminated problems further down the line when labeling and packing.

Single Vial Outfeed Conveyor

Accumulation Table

Outfeed Guide System



**Modular belt
conveyor**

Accumulation table

Custom outfeed

Vial reject

Low back pressure

**Integrated with
labeler**

The Result

Australis Engineering provided the following outcomes:

- Designed an accumulation table 2 metres x 800mm that could be end loaded.
- Designed the 5 metre outfeed conveyor which ran through the centre of the accumulation table and through an existing labeler.
- Designed and manufactured a specialised outfeed guide system to eliminate back pressure and incorporate a fallen vial reject section.
- Completed factory acceptance testing within our premises before delivery to site.

AstraZeneca received a high quality solution that not only met their essential requirements but solved additional problems associated with handling small drug vials. The main features of the Australis designed system include:

- A special purpose loading and accumulation table to suit the customers specific requirements;
- Solving the requirement of a low back pressure system;
- Providing a single vial outfeed with no jam ups and a fallen vial outlet point;
- Designing the system to incorporate a conveyor through an existing labeller.

Key benefit

A key benefit for AstraZeneca was utilising the knowledge gained by Australis from providing similar services to the pharmaceutical industry for vial processing. This shortened development time and meant the design and manufacture process was streamlined resulting in cost-savings to the Client.

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