

# Roller Conveyor System for Warehouse



**Client:**  
The Smiths Snackfood Company

**Location:**  
Rydalmere NSW  
Australia

## The Project

The Smith's Snackfood Company sought to consolidate an existing hand palletising operation, due to changes in available floor space in their warehouse.

By engaging Australis, Smith's obtained a customised, flexible roller conveyor system that integrating with existing equipment to maximise handling and palletising efficiency. The system handled multiple carton sizes, facilitating an integrated operation of product unloading, infeed modulation, accumulation, sorting and hand palletising. To achieve this, Australis designed, manufactured and installed a:

- Chain Driven Roller Conveyor System (SCCR type)
- Customised Infeed Gate to integrate with existing machinery
- Line Gate to allow improved access and better efficiency for the operators
- Controlled Product Merge from the infeed line to the primary picking line. This was automatically controlled to streamline product flow around the system
- Integrated CAT 3 Safety System to ensure operator safety and to comply with site WHS regulations
- Electrical integration with existing machinery to maximise efficiency of product flow from unloading, through accumulation and palletising
- Provide full set of operating and maintenance procedures to ensure long term viability of the system

**Chain Driven Roller Conveyor**

**Infeed Gate**

**Automatic Product Merge**



## The Result

Australis Engineering provided a cost effective, functional conveyor system that satisfied the customer's operational and safety requirements. The system automatically adapts to the variable product infeed and outfeed flow around the conveyor loop, resulting in reduced product circulation times between loading and unloading, which creates productivity gains for warehouse operations.

Importantly, the Chain Driven Roller Conveyor System is adaptable as it was designed to suit real life, practical operating procedures to ensure maximised efficiency. Key to this adaptability is that the roller conveyor system was suitable for all of Smith's multiple carton sizes and could be loaded and unloaded in mixed quantities.

With Workplace Health and Safety an important consideration, Australis was able to design a conveyor system that successfully managed all of the safety and operator related hazards identified by Smith's and documented these by including risk assessments and certifications.

**Driven Roller Conveyor**

**Multiple Box Sizes**

**Infeed Gate**

**Accumulation**

**Integration with Existing Equipment**

**Cat 3 Safety System**

**Custom Design**

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