

# CASE STUDY

## FOOD INDUSTRY – SUGAR NESTLE, SINGAPORE

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Nestle has revolutionized their barley supply chain with their A-Ward Container unloading system, not only reducing cost but also dramatically improving their hygienic working environment.

### Our challenge

Nestle challenged A-Ward to design and build a container unloader to enable Nestle to control the handling and unloading barley from 20ft containers without using specialized trucks, currently contaminating the unload area. The container unloader was required to remove full 20ft containers from standard trailers (at a height of 1.35m), rise and tilt the lower container edge to a height to 1.5m (to align and integrate with Nestle existing ground chute) fully tilt to up to 50 degrees.

### What we did

A-Ward designed and built a highly-customized open universal style container unloader. This hydraulically lifts the container up and back away from the trailer, providing enough room for the operator to walk safely between the container doors and material distribution chute. The container doors are manually unlatched when in the low horizontal position and safely held closed with the hydraulic door openers. The unloader is a self-contained unit, with its own clean electric power pack. This unique design provides an extremely environmentally clean and a safe stable base for tilting the containers.

### Outcomes

Nestle now has:

- Reduced costs through the ability to unload daily container requirements two hours faster.
- Removed truck waiting costs and the risk of contamination from truck diesel fumes and unsanitary tipping trailers by handling the containerized barley directly.
- Full control of their container logistics and supply chain.
- Operator safety is maximization, reduced labor and a faster unloading speed by adjusting the unloading angle has been achieved through using a customized A-Ward container unloader.
- A clean unloading area.

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