

ROTACASTER SOLUTIONS

RS120907

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The Challenge:

An Australian grocery retailer was looking to improve its ergonomic safety and productivity when stocking milk from crates on pallets into the cool room fridge displays.

The Rotacaster Solution:

Rotacaster proposed to use a custom version of its self-supporting Rotatruck to address these concerns.

The Rotatruck was proposed as it allows the operator to easily remove stacks of crates from the pallet, and the self-supporting function carries the load while reducing the height from which the milk is retried to stack into the shelves.

To provide this objective data, the Back Strain Monitor (BSM), a device using world first wireless sensor technology, was utilised.

The BSM was used to quantify movements of the lumbar spine whilst 2 employees (Jackie and Brett) carried out their current work practice involving a 100% manual handling technique of positioning milk crates and loading milk into shelves. A comparative assessment was then undertaken, with the

The data collected show a significant reduction in the amount of lower back bending (forward flexion) episodes greater than 20 degrees when using the hand truck compared to the current manual handling technique.

From a safety perspective, the data presented in this report shows a distinct benefit in relation to reduced lower back bending when performing the milk crate task with the Rotacaster Milk Handtruck, than when using the existing manual technique.

From a productivity perspective, the Rotacaster Milk Handtruck was more time efficient. Indeed, when compared to the traditional way of sticking the shelves, a time reduction of up to 21% was recorded.

[Link here to see the demo video:](#)

Learn more about a broad range of Rotacaster solutions at: www.rotacaster.com.au.

Solution: Milk Crate Transfer
Capacity: 150kg (330lbs)
Country: Australia
Reseller: www.rotacaster.com.au
Analysis by: www.drosavi.com



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