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# ALADDIN TEMP-RITE

## ROBOTIC PALLETIZING CASE STUDY

## THE CLIENT

Aladdin Temp-Rite designs, manufactures and supplies complete meal-delivery systems, equipment and tray top products such as dishware, beverageware and designer tray covers to the healthcare foodservice industry.

Their previous process required an operator to manually palletize and band filled boxes that were coming out of a thermoforming machine and into the pack area.

Aladdin wanted to automate this process and eliminate one worker over three shifts.

## THE PROBLEM

Operators would go up and down the line filling boxes all day long. This repetitive action caused errors.

Three operators lifting boxes all day increased the risk of workers' compensation claims.

Data that was attached to each SKID was entered manually every day adding extra time to each shift as well as errors.

Labor shortages created challenges to find qualified operators.

## THE SOLUTION

### Implemented Multi-Axis Robot

Carter combined taping machines and gravity conveyor to automate Aladdin's packaging process. The robotic cell placed at the end of the conveyor to disperse product to one of six pallet locations faster than manual laborers.

### Implemented Taping Machines And A Conveyor System

Taping machines were added to eliminate human labor and create a segue into automating the fulfillment process after the carton was closed. Gravity conveyor then feeds the closed cartons down to the robotic cell for palletization.

### Integrated SKID Info Into ERP

Aladdin was entering the information attached to each SKID manually. They automated this with software that scans each carton while simultaneously syncing the data to their ERP system.

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