AUTOMATING INVENTORY TASKS & REDUCING LABOR COSTS

FOR ONE OF AMERICA'S LEADING FOOD DISTRIBUTORS **WITH THE DANE AIR DC**

PROJECT SNAPSHOTS

Industry: Food Wholesaler

Primary Challenge: Manual inventory validation consumed hundreds of labor hours while misplaced pallets led to spoilage and unnecessary write-offs.

Dane Solution(s) Deployed: Dane AiR DC robot and AirViewer software powered by BrainOS® operating in all three temperature zones: ambient, cooler, and freezer.



CLIENT OVERVIEW

One of America's leading food distributors that partners with hundreds of thousands of restaurants, healthcare facilities, and hospitality businesses. Generating billions in annual sales, the company supplies fresh, frozen, and dry food products as well as kitchen equipment through a national network of distribution centers and cash-and-carry stores.

THE CHALLENGE

To maintain baseline inventory accuracy associates at one of America's leading food distributors distribution centers spend hundreds of hours per month manually validating pallet locations. In addition, due to the infrequency of these manual validations, pallets that have been misplaced can often remain lost for weeks at a time leading to spoilage and write-offs. 100s of additional hours can be spent by associates walking the facility looking for these pallets.

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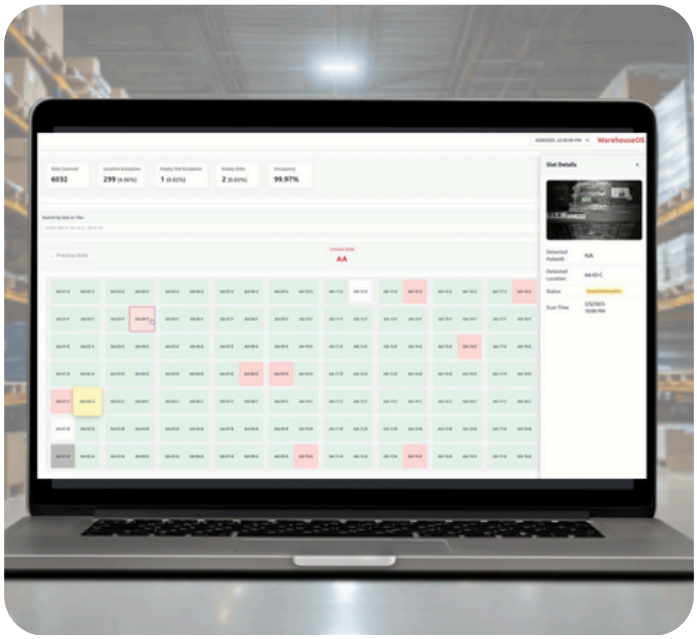
THE DANE TECHNOLOGIES SOLUTION

By automating the inventory process and significantly increasing its frequency, the Dane AiR DC powered by BrainOS® was able to dramatically reduce the amount of labor required for cycle counting and inventory validation while also minimizing inventory write-offs and spoilage.

Aisle Audit Labor Reduction

By automating the process of validating pallet locations, this task went from taking an associate 60 to 70 hours to validate the entire warehouse—costing $1,500 to $2,000+ per manual sweep based on loaded wages—to allowing the AiR DC to complete the same task in just 4 to 4.5 hours. This conservatively saves the equivalent of 1.5 full-time employees (FTE) annually per site, redirecting that labor away from manual scanning and into highvalue discrepancy resolution.





Inventory Recovery Labor Reduction

Before the AiR DC, associates could spend 2 to 10 hours walking aisles and digging through old purchase logs to locate a single lost pallet, resulting in significant labor costs of $50 to $250 per search event. With the AiR DC, daily early-morning autonomous scans capture exceptions, allowing associates to identify and reconcile misplaced pallets in a quick 30- to 90-minute daily routine using the AirViewer UI.

Spoilage Write-off Mitigation

Previously, the facility logged an average of 50 misplaced pallets per week, with each lost pallet representing roughly $800 in inventory value. By finding lost pallets much more quickly using the AiR DC, the distributor preserves product freshness and prevents inventory from aging out, saving an estimated $3,000 to $5,000 per week ($150,000 to $260,000 annually per site) in direct spoilage write-offs.

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THE IMPACT

In summary, partnering with Dane Technologies to implement the Dane AiR DC powered by BrainOS® generated labor savings of 1.5+ FTE and spoilage write-off reductions of up to $260,000 annually. This delivered total gross cost savings of over $325,000 – an amount in excess of 4X the annual cost of the solution, resulting in an ROI in less than one year.

$260,000

Annual Spoilage Write-Off Reduction

1.5 FTE

Labor Reallocated

$325k

Total Gross Cost Savings per Site

< 1 Year

ROI Payback Period

DANE TECHNOLOGIES

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