

Case Study **Multinational Consumer Foods Manufacturer**

AutoScheduler.AI Introduces Enhanced AutoPilot - Automated Warehouse Optimization Solution Into Customer Service Facilities (CSF) **Over \$100K in Cross-Dock Savings Alone**

Site Details

- 850,000 square foot building
- 40-50 outbound shipments per day
- 30-50 receipts per day
- 80 doors spread across three usable sides of the building
- Food products all with a limited shelf life
- Loose case pick and claw layer pick operations

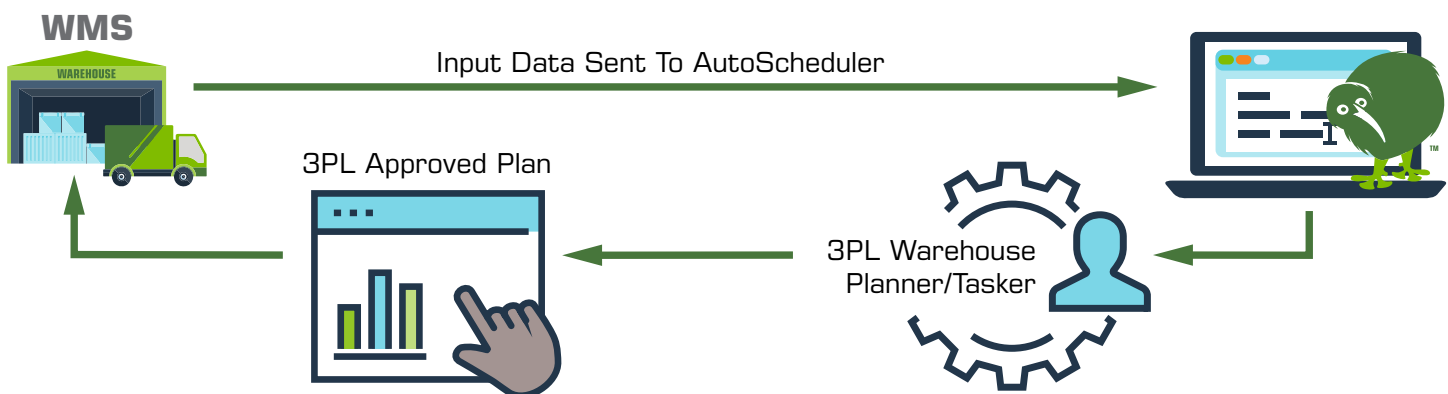
Challenges

Increasing demand at a Consumer Foods Manufacturer's main customer-facing distribution centers has created a need for increased efficiency in material handling inventory management at every site. To address this, the manufacturer has introduced a multi-stage cross-docking initiative for all of their 3PLs, requiring that significant portions over 5% of inbound inventory be cross-docked to outbound loads.

AutoScheduler.AI Implemented Solution

To enable 3PLs to cross-dock more shipments, this Consumer Foods Manufacturer introduced Enhanced AutoPilot to allow planners to proactively and dynamically find cross-dock opportunities and prioritize yard movements accordingly. Enhanced AutoPilot moves loading and unloading times, where possible, to maximize the number of pallets to avoid going into storage.

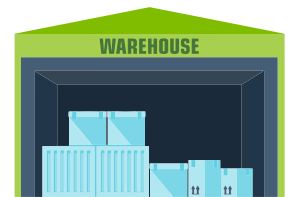
To perform this function seamlessly, a semi-automated process was introduced that allows planners at the site to review proposed opportunities and enable them with a few clicks inside of the AutoScheduler solution. These changes approved by planners are automatically injected into the WMS to allocate inventory and modify the tasking and trailer movement work queues. As conditions change, AutoScheduler automatically updates the work queue and inventory allocations to ensure that all customer shipments are delivered on time in full.



Key Point: Avoiding duplication of data in multiple screens.

Key Point: Planner buy in is key for adoption. AutoScheduler gives them the 'power' and ability to troubleshoot.

Case Study Multinational Consumer Foods Manufacturer



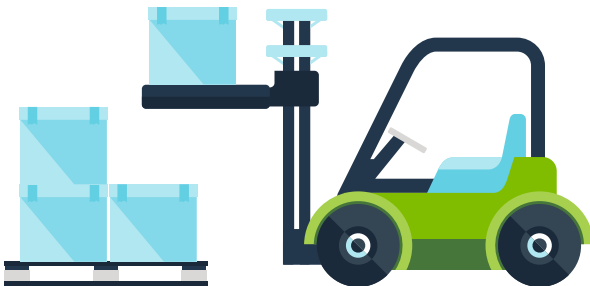
Success Metrics

- As planners approve work in AutoScheduler, it is automatically enabled in the WMS, and the receiving work queues are dynamically updated to prioritize the appropriate work. **Result: Each cross-dock plan was reduced from five minutes to three seconds.**
- The solution is now deployed at multiple sites. At the initial site, AutoScheduler has proven capable of meeting and exceeding targets of over 10% of inbound inventory is cross-dockable while respecting all space, labor, and inventory- age constraints and site requirements. This increase represents hundreds of thousands of dollars in savings for each site.
- The cross-docking availability significantly reduces the stress on labor while maximizing customer fill rate.

Next Steps

This Consumer Foods Manufacturer is working on expanding the impact of AutoScheduler on its customer service facilities and adding additional functionality back into the WMS:

- Cuts Management
- Inventory Allocation
- Work Queue Optimization
 - Picking (CP & LP)
 - Staging
 - Loading
 - Replenishment
 - Unloading
- Dock & Trailer Move Scheduling
 - Receipt Prioritization
 - Door Assignment
 - Yardwork Queue Optimization
- Transfer Shipment Management
- Line Loading (Production Sites)



Contact us to request an initial assessment: info@autoscheduler.ai
4650 Everal Lane, Franklin, TN 37064 512-277-5048 autoscheduler.ai

