

## FULFILLMENT CENTER – MEDICAL SUPPLIES & PHARMACEUTICALS

Faced with outdated systems, tight space, and rising energy demands, a leading medical and pharmaceutical distributor turned to Trew to modernize a 250,000 sq ft fulfillment center. With a \$10–\$30 million investment, the solution delivered a custom layout, UL-certified equipment, and over 3.5 miles of smart conveyance powered by CHAMP™ WCS. The result? Streamlined flow, energy savings, and a scalable system that's already inspiring four new greenfield sites—driven by Trew's creative engineering and commitment to lifetime value.

### Project Overview

- Type: Fulfillment Center
- Size: 250,000 sq ft.
- Cost: \$10 million - \$30 million
- Success Factor: ROI of solution and schedule

### Contents:

- Large integrated system
- CHAMP™ WCS
- 3.5+ Miles Conveyance
- Print and Apply
- Inline Weigh Stations
- Tray/Carton Formers and Lidders
- Carton Banding
- Document Inserters



### Challenges

*System Modernization:* Updates were needed from the client's previous two systems to improve picking efficiency and overall operational flow.

*Space Constraints:* The facility's small layout caused space constraints. Previously, the customer had used a standard design, but a custom layout was needed for the product to flow throughout the warehouse efficiently.

*Equipment Certifications:* UL certifications were needed for euro-built equipment due to different regulatory standards.

*Energy Savings:* The client wanted to enhance and maintain high levels of operational performance while reducing energy consumption.

### Solutions

*System Upgrades:* Enhanced picking efficiency and streamlined operations.

*Customized Layout:* The solution was designed to address space constraints by including MDR spirals to enhance and optimize product flow.

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*Regulatory Compliance:* Equipment was checked and certified to meet the UL certification standards.

*Operational Efficiency:* Post-launch, energy efficiency was improved by installing photo eyes to detect product presence, shutting the system down after 15 minutes of inactivity to conserve energy.

### Results

*Solution Effectiveness:* Trew's solution effectively managed rates, volumes, and accumulation amounts to prevent significant backups.

*Energy Efficiency:* The system delivered both cost and energy savings with the MDR system operating only when products were present.

*Client Feedback:* The client provided positive feedback post-launch regarding the testing process and the overall success of the system.

*Future Expansion:* The project's success has prompted plans for additional capacity at this site and four new greenfield projects.

### Why Trew

*Competitive Experience:* Awarded the project based on previous brownfield success and competitive pricing.

*Efficient Picking System:* The facility implemented a structured three-level pick module and an optimized picking process.

*Sustainability Integration:* Client favored MDR conveyor usage for its eco-friendly advantages.

*Rapid Implementation:* The project had a nine-month turnaround from PO to go-live.

### About TREW

TREW provides automated material handling solutions for integrators and end users, including Warehouse Execution Systems (WES), Warehouse Control Systems (WCS), PLC- and server-based machine controls, motorized driven roller (MDR) conveyor and services such as concepting, engineering, technical support, parts, field service and training. Serving the North American retail, warehouse, distribution, manufacturing and ecommerce industries, TREW's experienced staff and broad network of integrator partners enable uncommonly smart solutions scalable to any material handling needs.

### For more information, contact TREW

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