

CASE STUDY



Enhancing Efficiency for Chico's E-Commerce Distribution

Chico's required an efficient system for high-density storage and fast order fulfillment to support growing online demand. LD Systems developed a custom solution to improve order accuracy and productivity, meeting the fast-paced needs of e-commerce.

The Client

Chico's FAS, Inc., founded in 1983, is a leading women's clothing retailer, operating under the Chico's, White House Black Market, and Soma brands. With a strong presence across the U.S. and a growing online platform, Chico's is known for its customer-centric approach and stylish, quality products.

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Results Snapshot



Tripled picking productivity



70%

Reduced order errors



Reduced order cycle time from 3 hours to 30 minutes

THE CHALLENGE

Chico's expanding e-commerce operations required a system to handle high-volume picking and packing with reduced cycle times and enhanced accuracy. Managing a diverse and rapidly changing inventory of fashion products, the retailer needed a flexible solution to optimize space and streamline fulfillment.

RESULTS

LD Systems implemented a high-density storage and shipping solution that tripled picking productivity and quadrupled pick facings. The system reduced order errors by 70% and cut the order cycle time by 83%, ensuring a fast and accurate e-commerce process.

THE SOLUTION

01



Operations Review

LD Systems analyzed Chico's picking and packing workflows, pinpointing areas for improved speed and accuracy.

02



Layout and Design

The facility layout was optimized using AutoCAD to incorporate high-density storage and VNA configurations, maximizing the 125,000-square-foot space.

03



Equipment Selection and Installation

LD Systems selected motor-driven roller conveyors, barcode scanning, PLC controls, and weight verification systems. Custom wire shelving and VNA storage were installed for quick access to high-demand items.

04



Project Management

LD Systems coordinated each phase, ensuring timely completion and a smooth transition with minimal disruption.

DETAILS AND EQUIPMENT

LD Systems developed a custom high-density storage and shipping solution with a focus on speed and accuracy. The system included automated conveyors, barcode scanning, and a host interface to optimize workflow.

Storage Solutions and Strategy

LD Systems implemented advanced storage solutions for Chico's e-commerce needs:

High-Density Storage: Efficient, space-saving storage for rapid order fulfillment.

Custom Wire Shelves: Organized storage for easy access to fast-moving items.

VNA Storage: Narrow aisle storage for maximum space utilization and accessibility.



Material Handling and Conveyor Systems

LD Systems implemented a high-performance conveyor and control system tailored to Chico's needs, including:

Motor-Driven Roller Conveyors: Enables efficient transport of items across picking and packing stations.

Accumulation Conveyors: Temporarily holds items to streamline order flow and prevent bottlenecks.

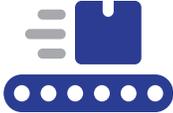
Sortation Conveyors: Directs items to specific packing stations, enhancing sorting efficiency.

Bar Code Scanning: Ensures precise item identification, improving order accuracy.

Host Interface: Integrates seamlessly with Chico's order management system.

PLC Controls: Provides automated control, ensuring consistent operation across the system.

Weight Verification: Confirms accuracy by verifying the weight of items in each order.





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CONCLUSION

With LD Systems' custom storage and conveyor system, Chico's e-commerce facility now operates with enhanced speed, accuracy, and efficiency, supporting growing demand while maintaining high standards for order fulfillment.

The Results

- Tripled picking productivity
- Quadrupled pick facings
- 70% reduction in order errors
- Order cycle time reduced from 3 hours to 30 minutes