



DESIGN SYSTEMS, INC.

Manufacturing Engineering & Consulting

Distribution Center Expansion and Reconfiguration Parts Distribution Center

Project Description

A service parts operation located on the East Coast of the United States contacted Design Systems, Inc. to develop and manage the consolidation of a multi-site parts distribution operation into a single site operation. The current facility required a warehouse expansion, reconfiguration, and automation to improve efficiency while reducing waste, cost and redundant functions.



Client Objectives

- Prepare future state warehouse concepts based on material handling equipment, reduction of operation expenses and Warehouse Management System (WMS) opportunities.
- Design layout to improve material flow and reduce process complexity.
- Optimize storage concepts based on order profiles.
- Improve current utilization of carousels and supporting conveyors.
- Evaluate process and functional drivers within current WMS / inventory control system.

PROJECT OUTCOMES

- \$4.3 Million reduction in manpower
- 37% decrease in average cost per order by improving efficiency
- 572 LPH improvement in picking productivity with addition of "ultra batch" and "goods to person" automation
- New layout improving material flow and reducing complexity in warehouse processes
- 100% client implementation of recommendations on layout, material flow, material handling equipment and storage mediums

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