

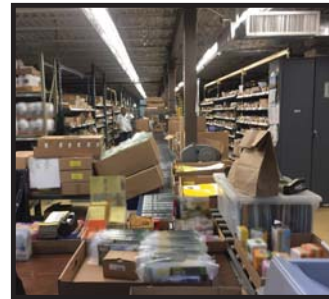
# DESIGN SYSTEMS, INC.

## Manufacturing Engineering & Consulting

### Space Optimization and Automation Solutions Vitamin and Supplement Manufacturer

#### Project Description

A vitamin and supplement manufacturer located on the East Coast contacted Design Systems, Inc. with the intent of constructing a new building due to space constraints. Following a no-risk assessment conducted by our cross-functional team, Design Systems, Inc. was able to identify opportunities in order to resolve perceived space constraints and improve core processes.



#### Client Objectives

- Conduct assessment to understand overall supply chain flow within facilities.
- Evaluate picking / shipping area, developing Best in Class approaches to process and storage.
- Increase productivity, throughput and accuracy through process improvement and implementation of automation solutions.
- Assist in the creation of a scheduling department and procedures that allow for more robust planning and input into a disciplined Material Requirements Planning process.
- Provide detailed list of excess material for disposition.
- Make high level organizational structure recommendations.

#### PROJECT OUTCOMES

- Resolved space constraints without requiring purchase of a new building
- Space, productivity, safety and labor savings of \$700,000
- 75% improvement in replenishment productivity
- 190% improvement in throughput while reducing 3 operating lines (from 8 lines to 5 lines)
- Installation of 2 VLM's to store 70% of pick volume with 60% space savings
- Identified and eliminated organizational concerns to improve overall morale and productivity

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