



Success Story

Global Materials Science Company Resolves Warehouse Storage Challenges with Alpine Supply Chain Solutions



A leading global materials science company specializing in fluoropolymer products faced a critical challenge with warehouse space constraints in two different storage facilities. As they struggled to deliver on their commitments due to limited storage capacity, they sought the expertise of Alpine Supply Chain Solutions.



The Challenge ▶

The materials science company operated two warehouse facilities, each with multiple locations. Both warehouses were 3PL-controlled facilities. The company's pressing challenge was running out of storage space in both warehouses, threatening their ability to meet customer demands and maintain smooth operations.

The Solution ▶

To address the warehouse storage challenges, Alpine Supply Chain Solutions initiated a comprehensive Storage Type Analysis (STA) to gain a deep understanding of the warehouse environment. The STA facilitated the right-sizing of picking and reserve storage areas, leading to the identification of ideal picking and storage alternatives. Alpine presented the manufacturer with four different storage options to maximize their current storage footprint:

Single Select Only:

With this option, the total capacity would increase from 6,715 to 9,808, postponing space exhaustion until 2028 (Warehouse #1) and 2029 (Warehouse #2).

Single Select Double Deep (70/30):

This option would increase total capacity to 11,440, delaying space exhaustion until 2030 (Warehouse #1) and 2031 (Warehouse #2).

Single Select Double Deep (20/80):

Total capacity would increase to 12,704, extending space availability until 2031 (Warehouse #1) and 2032 (Warehouse #2).

Single Select & Double Deep (20/80) & Floor Storage:

This option also increased total capacity to 12,704, targeting Warehouse #2 and ensuring space availability until 2032.

Each alternative was thoroughly analyzed, calculating capacity improvements and projecting space availability based on growth rates until 2032. Alpine communicated the investment required for each solution, enabling the manufacturer to make informed decisions.

Furthermore, the manufacturer sought advice on organizing storage by raw materials versus finished goods or by product types (Core Tech vs. PSD) to reduce travel time. Alpine suggested storing raw materials in Warehouse #2 and all other materials in Warehouse #1. This strategic move significantly reduced travel time for associates by eliminating the need to shuttle between locations for raw materials.



The Results

Alpine Supply Chain Solutions provided the global materials science company with a comprehensive analysis, offering four distinct storage options with detailed capacity improvements, costs, and projected space availability for each solution. Based on the ROI and cumulative cash flow projections until 2032, Alpine recommended alternative 3 for Warehouse #1 and alternative 4 for Warehouse #2.

As a result of Alpine's analysis, the manufacturer, who had been grappling with space constraints since 2022, now has the potential to sustain their operations until at least 2027, and possibly until 2032. Alpine's meticulous approach, which provided multiple solutions instead of a single one, contributed to the customer's satisfaction with the outcome. The materials science company can now confidently meet their commitments and deliver exceptional products while optimizing their warehouse space and reducing travel time for associates.