



Warehouse Consulting Services

Alpine Supply Chain Solutions offers Warehouse Consulting Services to maximize your facility's space, equipment, labor and control. We always start with data and end with a justifiable solution.

Our services include:

- ▶ Best Practice Assessment
- ▶ Storage Type Analysis
- ▶ Facility Design and Layout
- ▶ Slotting Optimization
- ▶ Engineered Labor Standards
- ▶ Lean Warehousing and Training

1 Best Practice Assessment

Alpine leverages the Warehousing Education Research Council's (WERC) Best Practice Assessment to review your entire process and identify non-capital improvements that can be made to immediately have an impact. The assessment includes a data analysis of inbound and outbound orders, along with a review of the item master file and on-hand inventory to uncover additional opportunities to improve your facility's processes.



2 Storage Type Analysis

A Storage Type Analysis (STA) will identify the ideal size and quantity of both your forward pick and reserve storage locations. Perfecting the forward pick location will minimize the number of replenishments. Analyzing the reserve storage location will enable you to maximize storage options by evaluating both the average and peak inventory quantities on-hand per item. In the end, you'll successfully calculate the ideal type of storage equipment required to maximize the overall space of your facility.

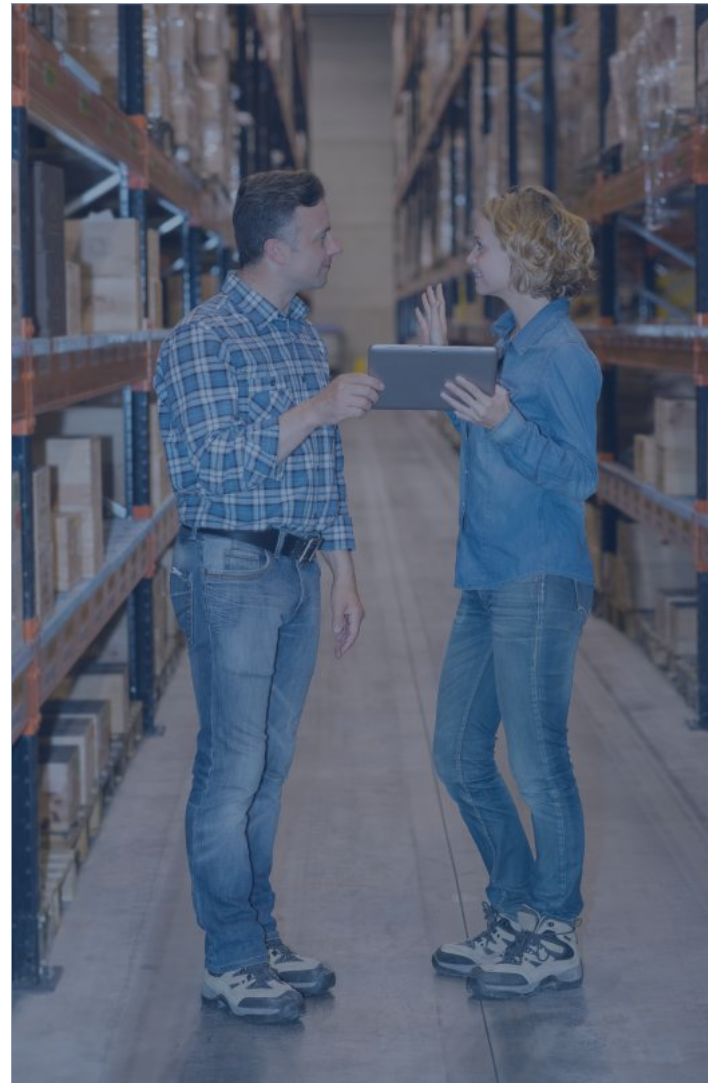
In addition, we can leverage the STA results to develop a Return on Investment (ROI) for "Goods to Person" Technology. Alpine has been certified by Opex, Grey Orange, and Slate River System Integrators, on each of their solutions.

3 Facility Design and Layout

Alpine will leverage the results of the Storage Type Analysis to develop three layout alternatives. Each will take into account the facility restrictions as compared to the ideal storage profiles to maximize your facility's space.

4 Slotting Optimization

In an effort to minimize a picker's travel distance, Alpine performs slotting optimization. By leveraging historical order profiles and future SKU and order growth, Alpine develops an overall slotting strategy that meets your picking needs, which may include order commonality and stack ability, like item separation, congestion considerations, and more.



5 Labor Standards

As the saying goes, “You can’t manage what you can’t measure.” Today, more than ever, it is vital to have metrics in place that enable you to identify and retain top talent. It’s also imperative to have metrics that enable you to provide training and coaching to those employees that need it.

Alpine understands metrics and will work with your team to develop the right approach for your operations. We’ll execute Time & Motion Studies to determine whether Engineered Labor Standards, Predetermined Standards (MSD/MOST), or a hybrid approach is right for you. Once the standards are identified and in place, we’ll deliver the Professional Training and Management Development your leadership needs to ensure the metrics are maintained. As part of this process, we can also develop a Change Management Framework for both the Workforce and Frontline Management.

6 Lean Warehousing & Training

Alpine offers customized training in the application of Lean concepts and principles for warehousing and labor-intensive packaging and assembly operations. Our classes include:

- ▶ 7 Wastes
- ▶ One Piece Flow
- ▶ Jidoka – “Quality at the Source” (5S, Andon, Poka-Yoke, Visual Management)
- ▶ Intro to Theory of Constraints (5 Focusing Steps)
- ▶ Labor Synchronization and Flow
- ▶ Standard Work
- ▶ 7 QC Tools
- ▶ Operator “Micro” Best Practices

