

Supply Chain Services



What Is The “Supply Chain”?

The supply chain is the set of organizations and activities involved in processing and transferring all materials necessary for a final product from suppliers and the transportation of the final product to the end customer. It encompasses everything from raw materials to the completed product and the package system and the end of life disposal of both product and package systems.

Why Is The Supply Chain Important?

In today’s globalized world, efficient product distribution is the single most important factor in controlling costs. Thus, a company that optimizes their supply chain stands to reap a much higher return on investment than their competitor who might focus on optimizing materials or manufacturing costs alone. More specifically, transportation is the most cost consuming factor in the supply chain making up an average of more than 40% of the costs factored into the supply chain.

How Is The Supply Chain Optimized?

One of the quickest and easiest ways to reduce supply chain costs is to utilize product transportation and storage systems to capacity. A thorough analysis starts with evaluating product packaging for cost saving and quality improvement opportunities. It would also involve ensuring unitized loads such as crates, pallets, containers and product transportation by air, truck or rail are optimized to their fullest extent.

How Can Westpak Help In This Area?

Westpak assists clients in all areas of supply chain optimization regardless of the type of product and/or package system being used or proposed. Westpak engineers will recommend and can execute industry recognized tests which simulate the unique distribution environment a product encounters on its way to the end customer. Westpak ensures the product’s package is optimal while providing the necessary protection.

Supply Chain Services Available

- Product Fragility
- Shock Testing
- Product Package Design Review
- Cube Utilization
- Distribution



Westpak’s ISO 17025 accreditation assures you of the highest quality testing and data provided by any testing laboratory.

Supply Chain Services Available at Westpak

Product Fragility Shock Testing

Product fragility shock testing is the only means to determine if a product is over-packed or under-packed which can be a starting point for supply chain optimization. Westpak's tests provide clients with valuable data enabling product packaging and supply chain optimization.

Note from Edmund Tang, Laboratory Manager



"It's a given that all unitized systems are based off of the package. Therefore, the package system becomes the fundamental building block for the supply chain. Optimizing the supply chain starts with the package design."

Product Package Design Review

Most products are over-packaged by design! An optimized package system balances the ruggedness of the product with just enough packaging to provide optimum protection. Westpak utilizes distribution testing inputs such as impact, compression, vibration, and altitude to evaluate a package system.

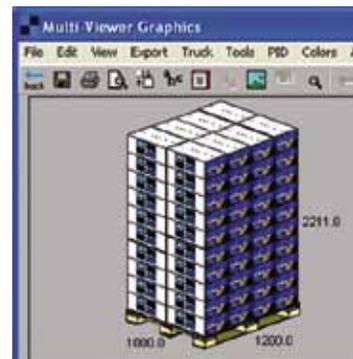
Typical Test Procedures

ASTM D3332, ASTM D3580, ASTM D4169, ISTA Series, ETS 300 019, IEC-60068, MIL STD 810G, Telcordia GR-63 CORE

Cube Utilization

Oftentimes products are not as initially robust as originally intended, resulting in excessive and wasteful packaging. In these cases, the cube efficiency of the unitized systems (pallets, slip sheets, ocean containers) is a byproduct of a sub-optimal package design.

Westpak utilizes specialized software to evaluate packaging design efficiency and pallet cube optimization for truck or container loading.



Note from Aaron Suarez, Director of Engineering

"The opportunities available for each company to optimize their supply chain are like money on the table. Westpak can help identify the opportunities in your product package system and supply chain."



For more information or a quote, please contact one of our offices below or go to: www.westpak.com/contactus.aspx

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