



# Cube Optimization

Package Engineering

## Keep your shipment packaging to the right-size.

**Properly manage your packaging.**

**Maximise efficiencies of your packaging and shipping.**

**Add an element of sustainability to your packaging.**

We know that you are constantly facing new challenges and that you may have greatly increased the amount of products that you export or import overseas. This trend presents a new set of issues that you may not have dealt with in the past, like storing products in warehouses overseas and using more ocean freight in your logistical supply chain. With valuable space and every amount of weight increasingly important, Package Engineering can assist in reducing the overall costs.

UPS's certified packaging engineers can determine the best configuration of both the primary (product package) and secondary (outside package) packaging. Our engineers can also help you plan the best pallet load configuration for both warehousing and shipping.

### Benefits

Empty spaces in- and between packages can be the black holes of efficiency. The effect can be particularly acute in shipping pallets and containers.

#### *Properly manage your packaging*

An engineer will consult with you on how to properly manage variables like carton size and compression strength, stacking and stability. Our testing facilities can help you safely ship more product in a smaller carton. Likewise, we'll work with you to fit more cartons on a pallet or in a container, so you can realize greater efficiencies and control.

#### *Maximize efficiency*

By maximizing the efficiency of the packaging system throughout the supply chain, shipping costs can be greatly reduced.

#### *Reduce your damages and introduce sustainability to your packaging*

We can tell you from decades of experience that sustainability is the natural outcome of working more efficiently. Eliminating damages with proper packaging helps you accomplish more. By using less, we conserve resources and lighten everyone's footprint on the planet.

## Case In Point

### *High-quality, golf equipment manufacturer*

When most people think about packaging, they typically think about damages, claim problems or dimensional weight charges. Instead, our packaging engineers think about solutions – ones that go beyond solving the immediate problem and actually improve business processes.

For example, a recent customer was looking for help in reducing the cube (size) of its boxes. This customer was encountering oversize charges for one of their products, so they enlisted our package engineering services to help them find a solution. UPS's package engineers re-designed the product's transportation packaging to a design that optimized the cube of the package and space utilization of trailers and containers.

After redesigning their packaging, this customer's oversize charges were a thing of the past. But we did not stop there, the transportation packaging gave some additional benefits, including:

- The optimally sized packaging solution allowed them to get more packages into their inbound containers, reducing overall annual shipping expenses.
- The redesigned packaging required less warehouse space, saving additional warehousing expenses.
- Improved inventory carrying costs added to the company's annual savings.
- Material handling and processing improvements that resulted from the new packaging achieved even more savings.

Combined, the total savings amount to almost \$100,000 annually.

And, it's not just money that was saved. The changes also improved the sustainability of the customer's shipping processes. Using less packaging material means a smaller carbon footprint, and the optimal dimensions means more packages can fit onto one vehicle. With fewer vehicles required to move these packages, emissions can be reduced.

## Getting Started

Speak to your UPS Account Executive for an in-depth review of your business needs and what solutions fit best for your supply chain.

### Customer Solutions

To learn more visit

[ups.com/customersolutions](https://www.ups.com/customersolutions)