

# Truckload Optimization

Save transportation costs by building fuller loads with our truckload optimization solution—which works in concert with ToolsGroup **Service Optimizer 99+ (SO99+)**.

## // Solution at a Glance

ToolsGroup's truckload optimization solution links the planning and execution of truckload orders by creating orders that utilize 98% of a truck's real capacity and guiding the pickers and loaders to ensure all the products get on the truck—axle-legal and damage free.

Maximize shipments for your end-to-end supply chain in a way that cannot be achieved manually, with a transportation management system (TMS), or with non-optimizing systems.

## // Key Features and Benefits

- Reduces transportation costs by 4-8% by shipping the same volume on fewer trucks
- Coordinates the total package to optimize customer order fulfillment
- Builds optimal pallets that will fit into a truck
- Utilizes over 400 rules and parameters to sequence the picking and loading of shipments
- Optimizes palletized, floor-loaded and multi-stop shipments
- Instructions can be given to users via paper, voice, RF, and 3D diagrams

## Truckload Optimization: Fuller Truckloads for Lower Transportation Costs

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Most purchasing systems are effective at capturing price breaks—for full truckload shipments, for example—but unsophisticated rules-of-thumb are often used to define a truckload: "A truckload is 42,000 lbs" or "A full load is 21 pallets." Worse, the information on the shipment is far from complete. Nearly all purchasing systems fail to take into consideration such important things as the weight of the pallets in the load or what states the shipments are traversing.

ToolsGroup's truckload optimization solution uses a variety of information including time-phased demand, product dimensions and weight, how the load is palletized, and its "stackability" to determine how to best use the valuable lane-specific truck capacity. We use requirements from subsequent days to ensure that the load is truly full. This means your loads are 4-8% fuller.

## ToolsGroup Truckload Optimization Extends Your Transportation Management System by:

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**/ Maximizing truckload capacity:** A TMS typically utilizes 90–95% of a truck’s capacity. ToolsGroup’s truckload optimization solution creates a shipment upfront that will utilize 98% or greater of a truck’s capacity. We take requirements, for example what is shipping from a plant to a warehouse, and automatically turn this demand into efficient, low-cost truckloads that use almost every last pound or cube of capacity.

**/ Automating load building:** With SO99’s replenishments, you can achieve up to 33% of your truckload orders automatically created without human intervention. You can build larger loads by relying on our truckload optimization solution to build loads that are legal, damage free, and fully utilized.

## ToolsGroup Truckload Optimization Capabilities

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**/ Reduce trucks received at the warehouse:** Since there is reduction of 4–8% of all shipments, there are fewer trailers coming into the dock and purchase orders to be reconciled. When you have multiple analysts that order the same product from the same vendor, our solution can enable purchase orders to be consolidated so that the product can be received and put away just once rather than having it encountered on multiple orders.

**/ 3D pallet and loading diagrams:** Our 3D pallet building and truck loading diagrams are unique for every load. They reduce the learning curve for inexperienced staff and create a consistent and repeatable loading process.

**/ Build damage-free executable loads:** Not only do we create a truckload order that will utilize 98% of a truck’s real capacity, we also guide the pickers and loaders to ensure all the products get on the truck—axle-legal and damage free.

### **/ Other features:**

- Considers DOT axle and state laws to create legal loads
- Respects HAZMAT compatibility requirements as well as stackability considerations
- Incorporates loading/unloading sequences, orientation of items and pallets in a container
- Optimizes physical processes for the loading of export containers, truck, and railcar
- Prioritizes replenishments based on specific rules
- Best fit/best mix utilization of asset constraints
- Convenient web based and SAP Fiori based solution

## Service Optimizer 99+ Platform for Service-Driven Planning

Download our brochure to see our entire Service Optimizer 99+ service-driven planning suite.

+	<b>Demand Forecasting &amp; Planning</b>	<b>Demand Sensing</b>	<b>Promotions Planning</b>	<b>Inventory Optimization</b>
	<b>Supply Planning &amp; Optimization</b>	<b>Production &amp; Capacity Planning</b>	<b>Allocation &amp; Replenishment</b>	<b>S&amp;OP</b>

