

CARTONIZATION

Cartonization reduces shipping costs and eliminates material waste by optimizing packing for order shipment



Cartonization is the process of determining the size and number of shipping cartons needed to fulfill an order based on the dimensions and weight of the contents. Matthews Automation Solutions NEXUS warehouse execution system (WES) utilizes data from scales and dimensioners or WMS downloads to automatically determine the amount of space and materials an order requires, saving time and money.

Matthews NEXUS WES Cartonization engine not only determines how many items will fit into a container, it also calculates precise product placement in cartons with included instructions and diagrams. Additionally, Matthews NEXUS gives users the ability to configure a certain percentage of a carton fill to allow for dunnage, fliers, and other fill items.

Matthews NEXUS Cartonization engine algorithms utilize largest item dimension check in addition to the liquid cube calculation, in order to accurately calculate the correct carton size and eliminate the risk of wasted material or unexpected fees.

 **NEXUS**
WAREHOUSE EXECUTION SYSTEM

Cartonization

Benefits of Cartonization

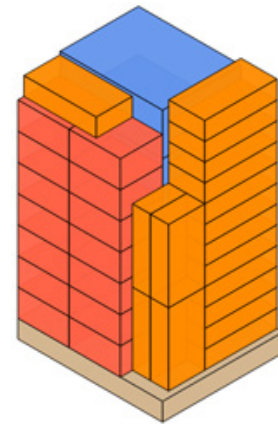
- ▶ Increased throughput
- ▶ Maximum packing density ensures minimum shipping costs
- ▶ Splitting orders into separate parcels as necessary reduces risk of damage during shipping
- ▶ Potential 60X ROI in one year through reduced carton damage and shipping costs
- ▶ Case studies show up to \$3 million on reduction of damage in shipment, and cost of shipment in the first year for a \$50K installation cost
- ▶ Detailed diagrams show operators how to pack the carton for maximum fit



Optional Features

Matthews NEXUS WES Cartonization engine is flexible to support diverse material handling use cases. Special instructions can be added for liquids and hazmat items. Additionally, NEXUS can integrate with rate shopping applications to find the best shipping price.

Businesses ship a wide array of products, and their cartonization system should be able to respond to unique shipping needs. Matthews NEXUS WES enables users to configure packing orders for hard vs. soft goods, based on packing density and/or item fragility. Additionally, cartons can be limited to a certain fullness level by either percentage of available volume, or within a specific cubic volume of the total. Dunnage used to wrap items (such as glasses, plates, or candles) can be included in the SKU profile for each item as a percentage of the product size, or in the SKU family group for the entire category of items.



Let's talk about your application.

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