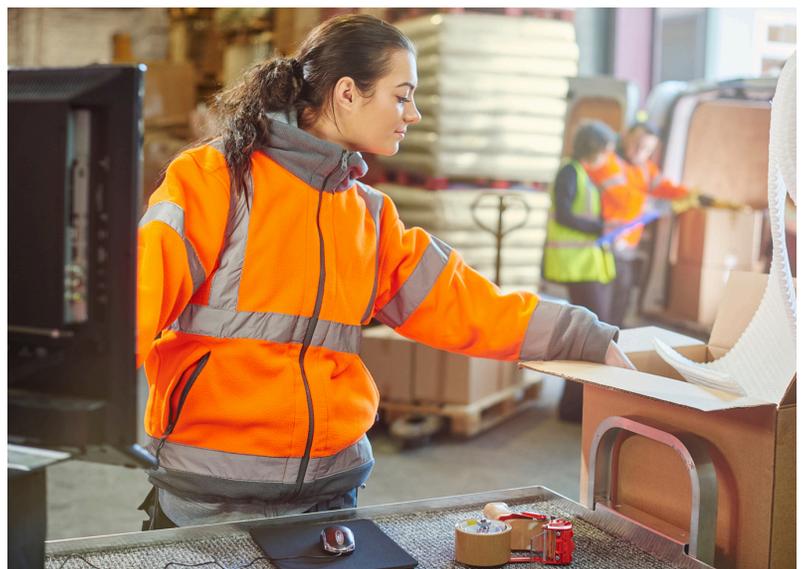# Datex Footprint® WMS: Cartonization Module

Today, businesses need solutions that help them reduce shipping and packaging costs, process orders faster and more accurately and package items for efficient, damage free shipping. Datex Footprint® WMS can provide an optional Cartonization module with sophisticated business logic and decision making, designed to take the inaccuracy, waste and damages out of packaging.

Here is how it works. Cartonization logic executes during shipment processing, determines if the shipment will be split into one or more containers then determines the applicable cartonization strategy. The system uses the volumetric attributes of each item as well as additional factors such as fragility, position requirements and other factors when evaluating the proper container, placement and packaging materials. Built into the Cartonization module is elegant business logic that uses a series of applicable rules to determine how each item in the shipment must be properly packaged for optimal space efficiency, safety and parcel compliance. The system can be used either manually or system directed. Companies using the Datex Footprint® WMS Cartonization module report reduced shipping, packaging, material and labor costs; reduced damages and order returns, and increased customer satisfaction.

Who Needs the Datex Cartonization Module?

- ✅ **Warehouses**
- ✅ **Third party logistics (3PLs)**
- ✅ **Distribution centers**
- ✅ **Fulfillment centers**
- ✅ **Manufacturers**
- ✅ **E-commerce**

Features and Functionality:

- Uses business rules, SKU and order data to make enhanced, automated packaging decisions

- System automatically selects optimized packaging based upon dimensions, weight, position, fragility and other factors

- Assimilates packaging requirements as part of an order's data

- Considers special needs factors for each item as well as interaction of items in the order to determine order packaging requirements

- Packaging requirements including the volume of protective packaging are automatically taken into consideration by the system when making packaging decisions

- The system directs that the heaviest items are placed at the bottom of containers; lighter items are stacked and packaged based upon factors such as fragility, weight, etc. to minimize damages

- The system includes the ability to handle efficient packaging of special handling items, such as items which must be placed in specific positions and organizes other items within the same container so as to maximize space efficiency while minimizing damages

- The system can be used manually or system directed and supports re-cartonization of shipments multiple times, as needed

- This cartonization module includes the ability to plan cartonization of a shipment without first processing the shipment or creating shipment lines, ideal for customers that want to plan future loads without processing the shipment or when there are insufficient on hand quantities to process the shipment

Benefits:

- ✓ Reduces shipping & packaging costs
- ✓ Helps businesses be better prepared for peak and non-peak operation periods
- ✓ Reduces labor
- ✓ Saves on material costs
- ✓ Increases throughput & results in faster, more efficient inventory handling
- ✓ Improves customer & parcel compliance
- ✓ Supports "green" initiatives
- ✓ Increased accuracy in coordinating multiple carrier orders
- ✓ Improves consistency
- ✓ Improve customer satisfaction rates
- ✓ Decreases order returns and damages

About Datex

Datex, a supply chain technology firm with 45 years of expertise in delivering software solutions, serves third-party logistics providers, pharmaceutical, food and beverage, regulated goods, precious metals, consumer goods, cold storage, and temperature-controlled commodities.

Recent innovations include a unified SaaS platform tailored for logistics providers known as Wavelength and a new generation of Datex Footprint WMS, a premier SaaS application hosted on Microsoft Azure, fully integrated, composed, published, and managed within our Wavelength platform.

Datex serves over 200 global clients through a team of over 140 resources spanning North America, Spain, Chile, India, Bulgaria, Egypt, and the Philippines.

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