



Automate



**FastTrak WM+**  
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File	Version	Full Path
Inventory	3.0.0.0	C:\WINDOWS\system32
System (Database, Name)	3.0.0.0	C:\WINDOWS\system32
System	3.0.0.0	C:\WINDOWS\system32
System Drawing	3.0.0.0	C:\WINDOWS\system32
FastTraker	3.0.0.0	D:\GRS\FastTraker\
gSystem	3.0.0.3	D:\GRS\FastTraker\
WorkList (Inventory, Print, Desk...)	3.0.2003.18	D:\GRS\FastTraker\
gControl	3.0.0.2	D:\GRS\FastTraker\
gCollection	3.0.0.1	D:\GRS\FastTraker\
gSystem	3.0.0.0	D:\GRS\FastTraker\



Integrate

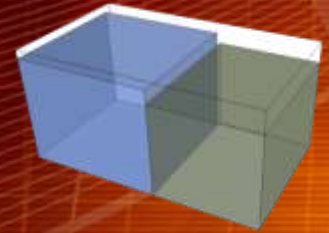
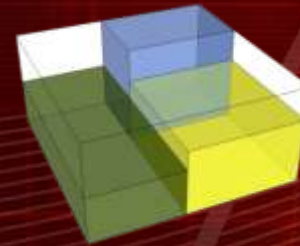
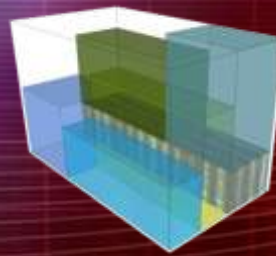


Coordinate



Control

# FastTrak® OMS Cartonization



**FastTrak® WM+ software suite**  
*Integration made easy™*



# What is *FastTrak* Cartonization?

- Method of using SKU and order data with business rules to make improved packaging decisions
- ***FastTrak* Cartonization features**
  - Pick-to-tote vs. pick-to-carton analysis
  - Batch and route by packaging
  - Packaging consultation
  - Optimal carton set
  - Packaging guidance
  - Package forecasting
  - Packaging visualization
  - DimScan



# Choosing the optimal package type and size



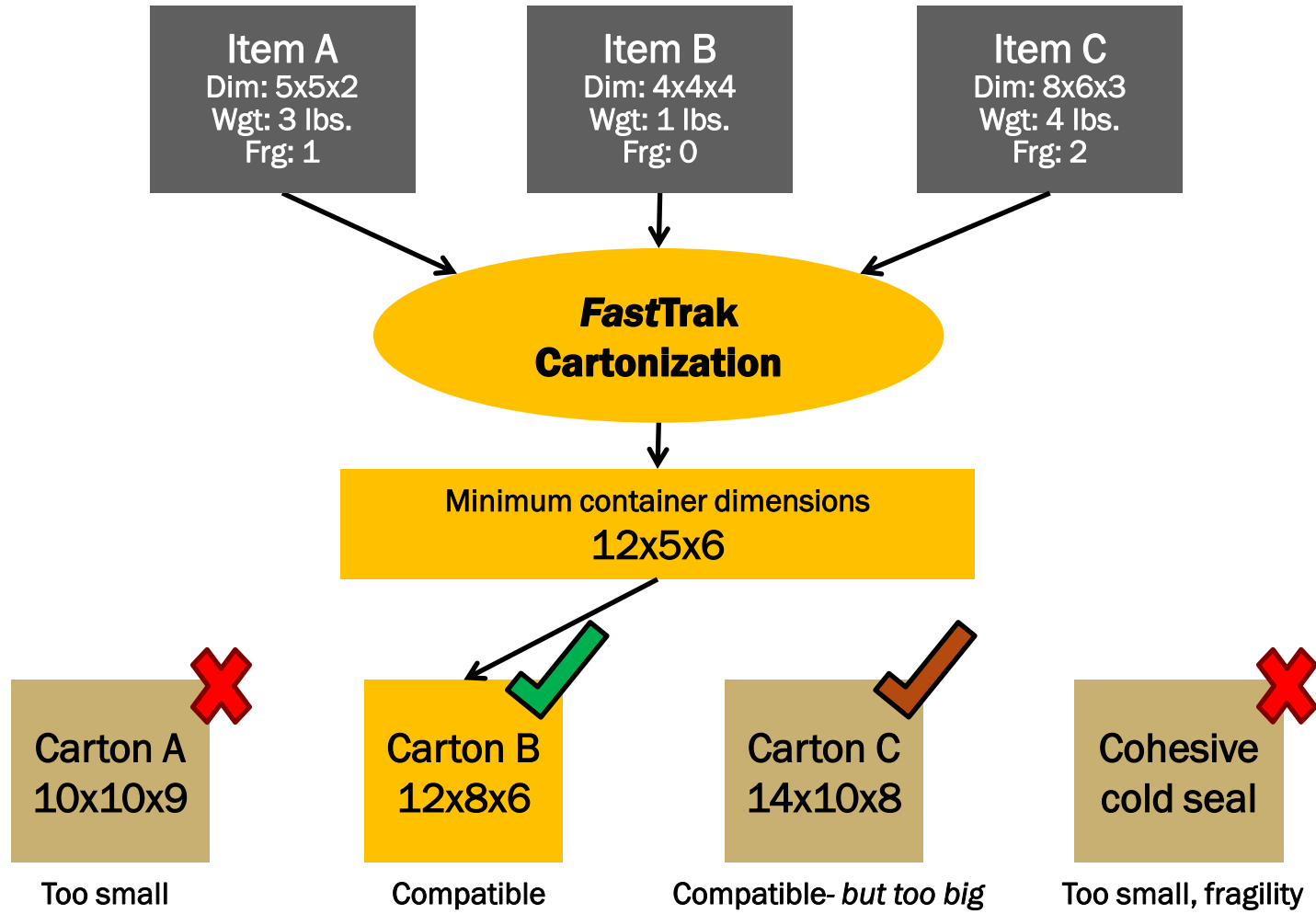
Stop shipping air

# How it works

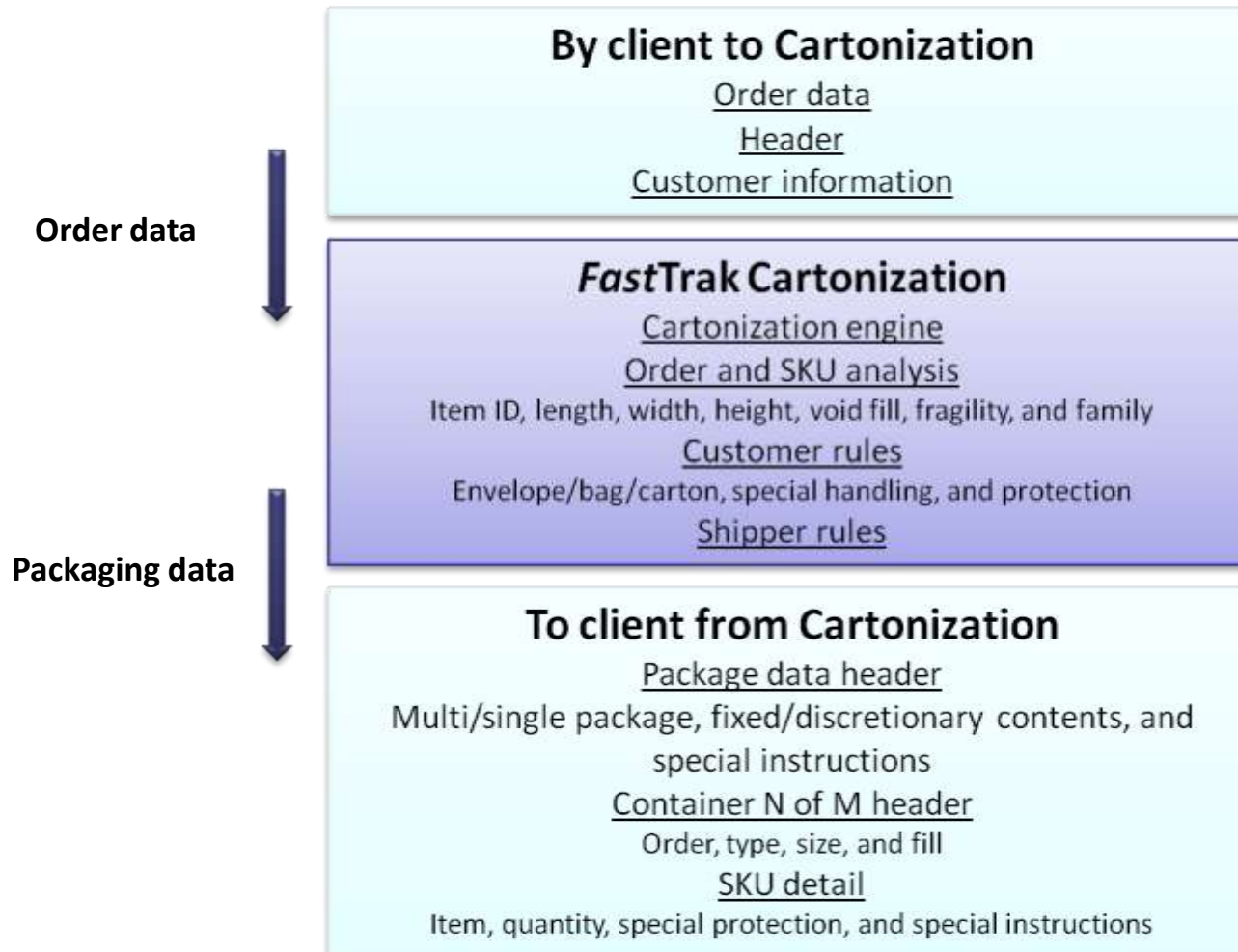
- **Cartonization analyzes various SKU and order data to automate packaging decisions**
  - Dimensions
  - Fragility
  - Weight
  - Positioning
  - Family types (Ex. glassware, liquid, hazardous)
  - Business rules
  - Special handling



# Sample order analysis



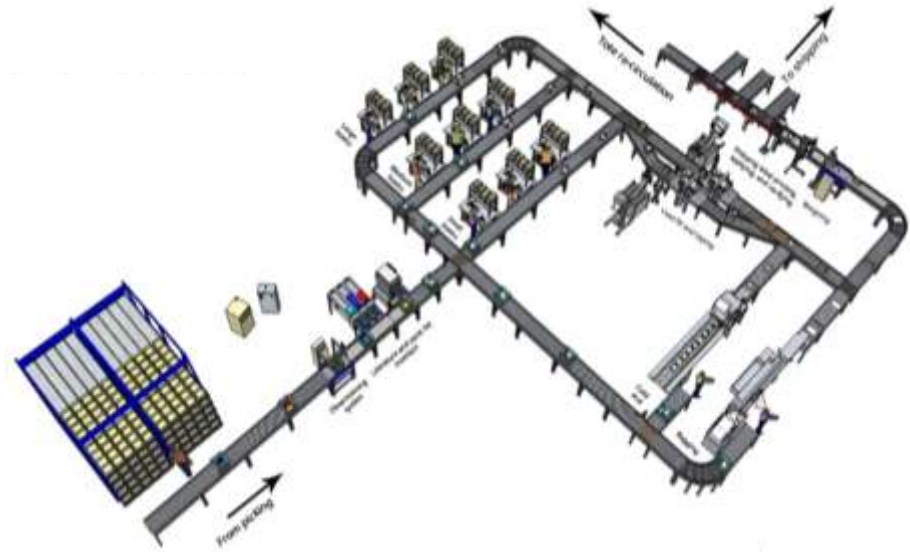
# Data flow



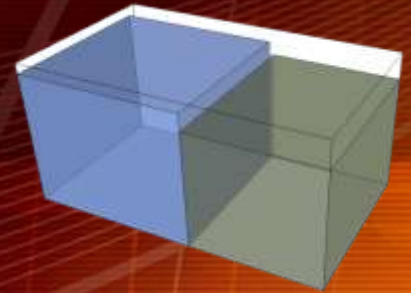
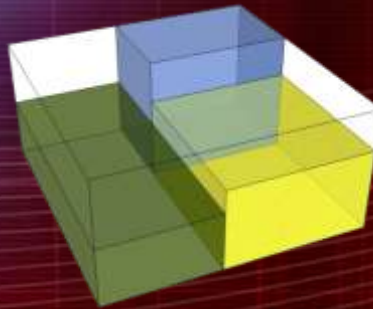
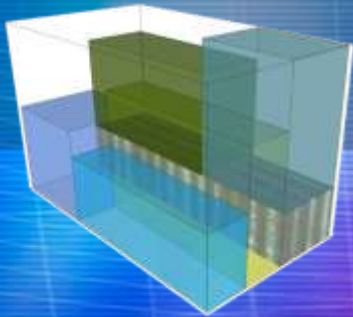
# Complete integration

- **FastTrak integrates Cartonization with any ERP/WMS/homegrown host, subsystems, shipping systems, and warehouse equipment**

- Carton erectors
- Conveyors
- Cubing equipment
- Document inserters
- Printer applicators
- Scales
- Scanners and RF terminals
- Sorters, transfers, and diverts



# *FastTrak* Cartonization features



# Pick-to-tote vs. pick-to-carton analysis

## Carton

- Selects appropriate size carton for each order
- Coordinates multiple carton orders for combining per carrier rules
- Manages DIM rules
  - Avoiding charges

## Tote

- Used for large and small items that are not conveyable
- Ability to batch single-line single-item orders for automated packaging solutions
- Ability to batch multi-line orders

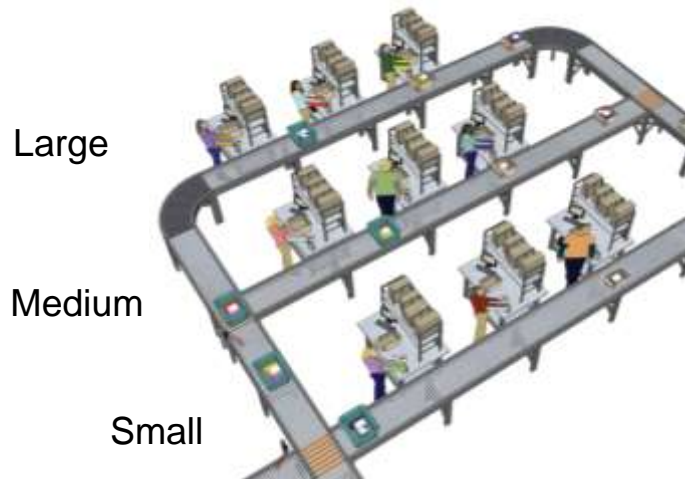
# Batch and route by packaging

## Description

- Generates batches based on packaging needs
- Routes orders to the appropriate pack stations

## Benefits

- Allows pack lines to streamline the handling of similar size orders
- Each specialized line can package orders more effectively



# Packaging consultation

## Description

- Reviews current void-fill and packaging types/materials with client
- Determines client's wants and needs
- Reviews customer satisfaction of packaging material
- Discusses improvements

## Benefits

- Higher customer satisfaction
- Increase return customers
- Cross promotion
- Enhance brand awareness
- Attractive packaging



# Cartonization features

## Optimal carton set

### Description

- Analyzes current carton sizes and order population to make carton size recommendations
- Automates the most popular carton size line

### Benefits

- Dramatically reduce void fill costs
- Reduce damage claims
- Less labor and freight costs



# Cartonization features

## Packaging guidance

### Description

- Shows the operator the correct package size (carton or bag) to use, and the type of void fill

### Benefits

- Lower freight and material costs
- Reduce damage claims



# Package forecasting

## Description

- Balances workload based on packaging needs
- Determines proper number of pack stations needed
- Records material usage and replenishment needs
- Forecasts the number of pack stations for peak and nonpeak demand

## Benefits

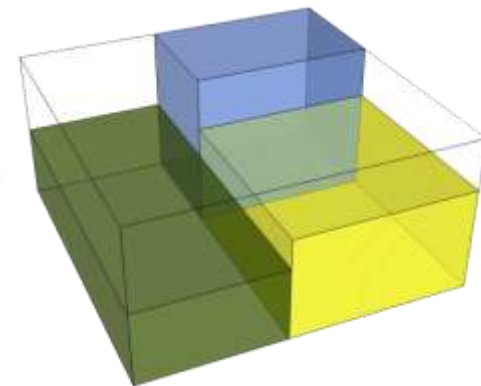
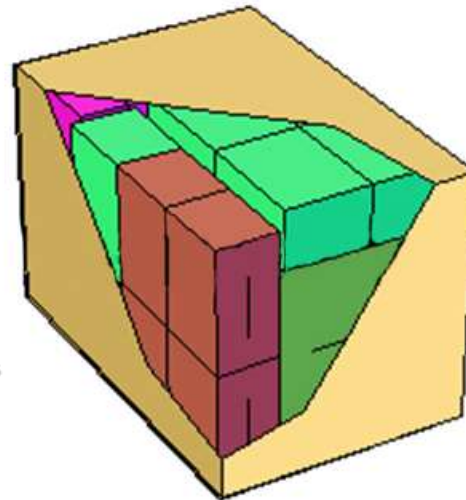
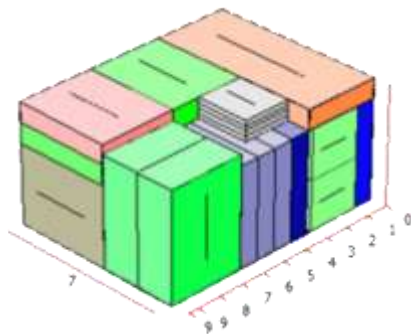
- Accurately order packaging materials
- Save space by using the correct number of pack stations
- Better prepared for peak and nonpeak seasonal demands

# Packaging visualization

## Description

- Recommends how to place items into a carton step-by-step
- Determines the carton size needed
- Separates or combines SKUs in a carton by family type
- Shows % void in cartons

Product	Color
Item #1	Light Green
Item #2	Red
Item #3	Teal
Item #4	Dark Blue
Item #5	Blue
Item #6	Light Green
Item #7	Light Green
Item #8	Light Green
Item #9	Light Blue



## Benefits

- Optimize carton space
- Save on void fill usage
- Reduce damage claims
- Lower freight costs

# Cartonization features

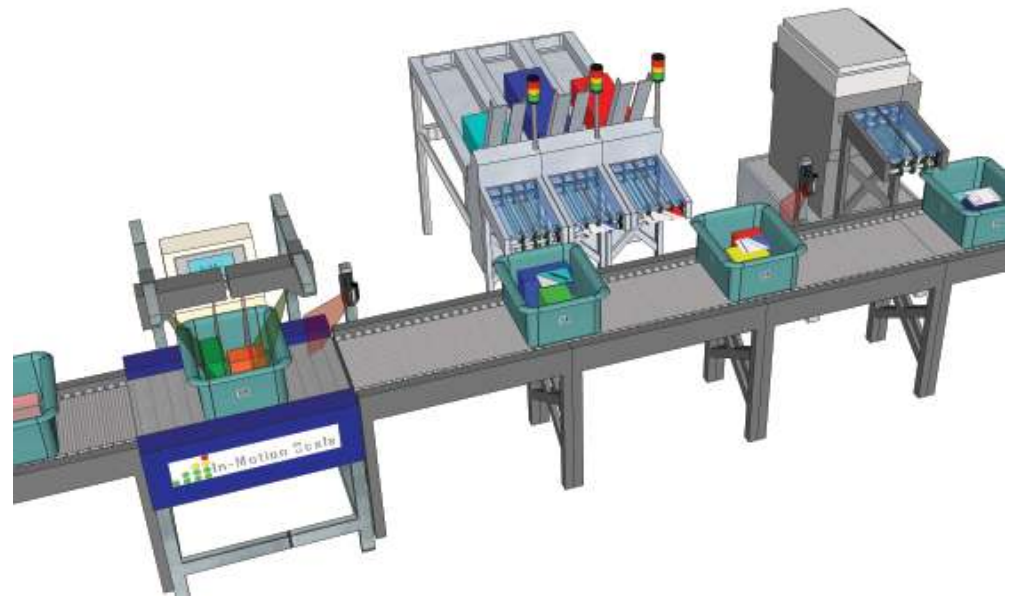
## DIMSCAN™

### Description

- Analyzes space within a carton or tote using a camera and calculates the correct amount of void fill
- Automatically dispenses the proper amount of void fill

### Benefits

- Uses correct amount of void
  - Less void costs and damages
  - Less time to package orders



# Benefits overview

- Less labor, freight, and material costs
- Higher customer satisfaction
- Less damage claims
- Attractive packaging
- Increase return customers
- Better prepared for peak and nonpeak
- Faster packaging turnaround
- **Green solution**



# Results

## Industry

- Apparel and accessory
- Electronics
- CDs and DVDs
- Jewelry and gifts
- Checks and financial
- Military
- Gift card

## Packing operators

30 to 3  
55 to 10  
23 to 1  
18 to 2  
26 to 3  
12 to 3  
50 to 12



# In-motion packaging system example

- 1,000 padded envelopes per hour
- 2,500 cartons per hour





FastTrak® WM+

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File	Version	Full Path
mscorlib	3.0.0.0	C:\WINDOWS\Microsoft.NET\Framework64\mscorlib.dll
System.Windows.Forms	3.0.0.0	C:\WINDOWS\Microsoft.NET\Framework64\System.Windows.Forms.dll
System.Drawing	3.0.0.0	C:\WINDOWS\Microsoft.NET\Framework64\System.Drawing.dll
FastTrak	3.0.0.0	D:\GRSI\FastTrak\bin\Debug\FastTrak.exe
FastTrak.Common	3.0.0.0	D:\GRSI\FastTrak\bin\Debug\FastTrak.Common.dll
FastTrak.Data	3.0.0.0	D:\GRSI\FastTrak\bin\Debug\FastTrak.Data.dll
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FastTrak.Interface	3.0.0.0	D:\GRSI\FastTrak\bin\Debug\FastTrak.Interface.dll

GRSI

# Thank you

Automate, integrate, coordinate, and control your warehouse with **FastTrak®** WM+ software suite



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