

**i-collector.**  
■ The missing link

**WORLDS FIRST AUTOMATED  
ITEM PICKING SYSTEM**



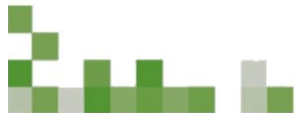
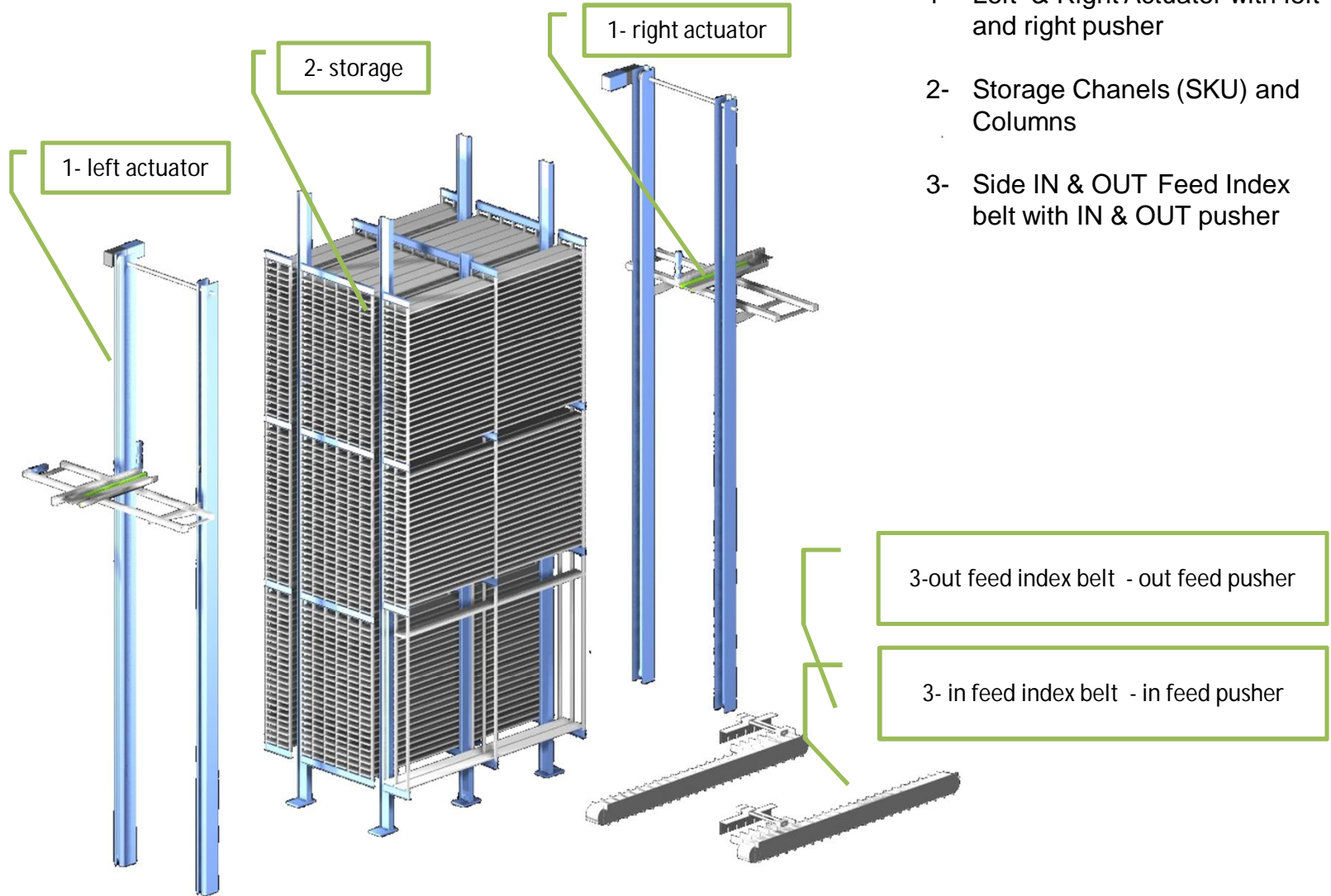
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# TECHNICAL PRINCIPLE



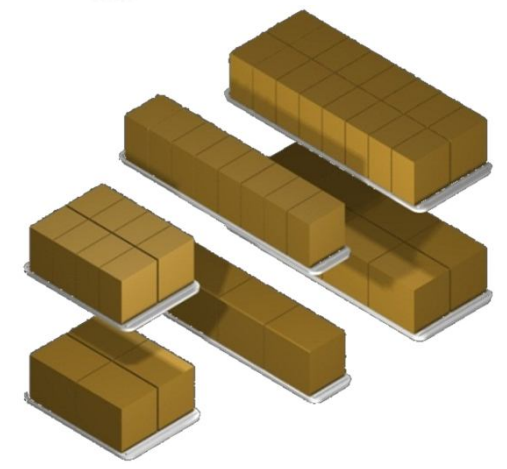
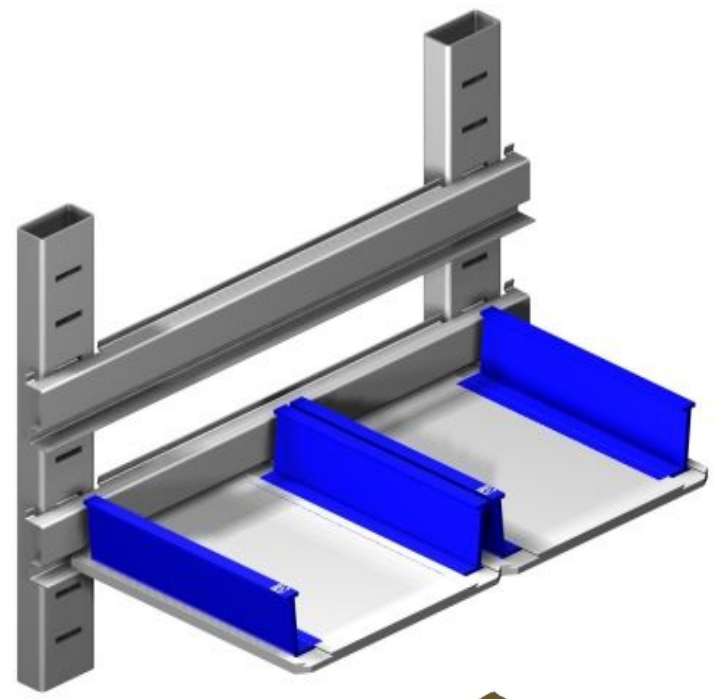
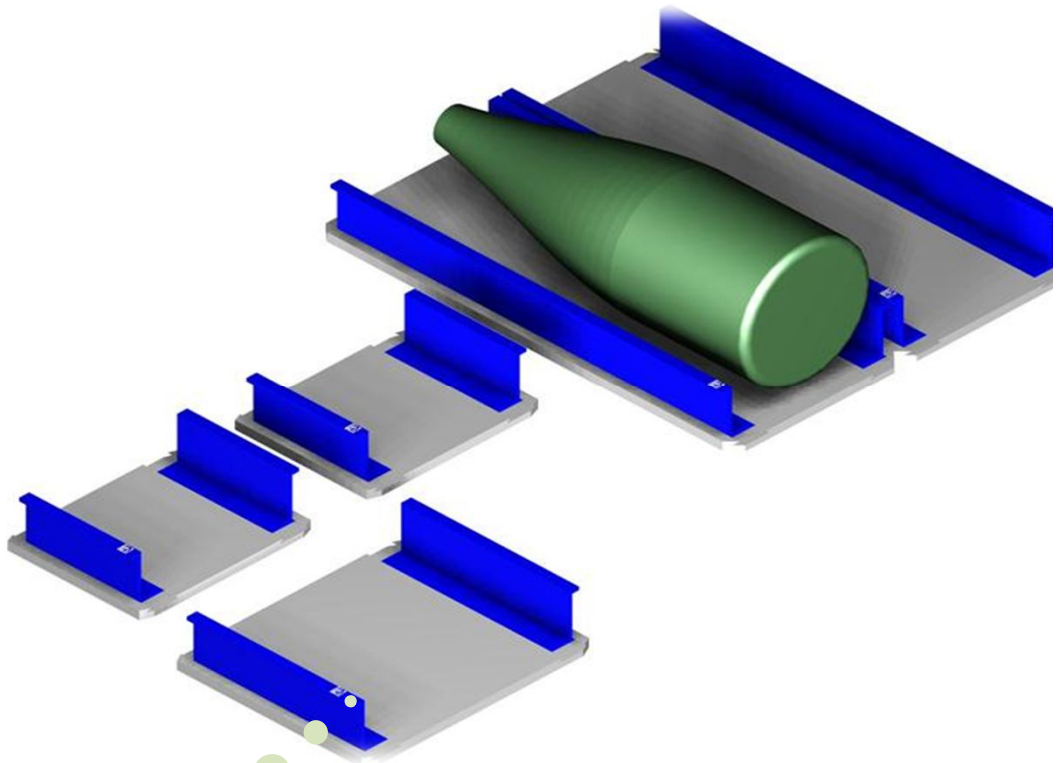
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4 basic components (proven technology)



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tray & rack



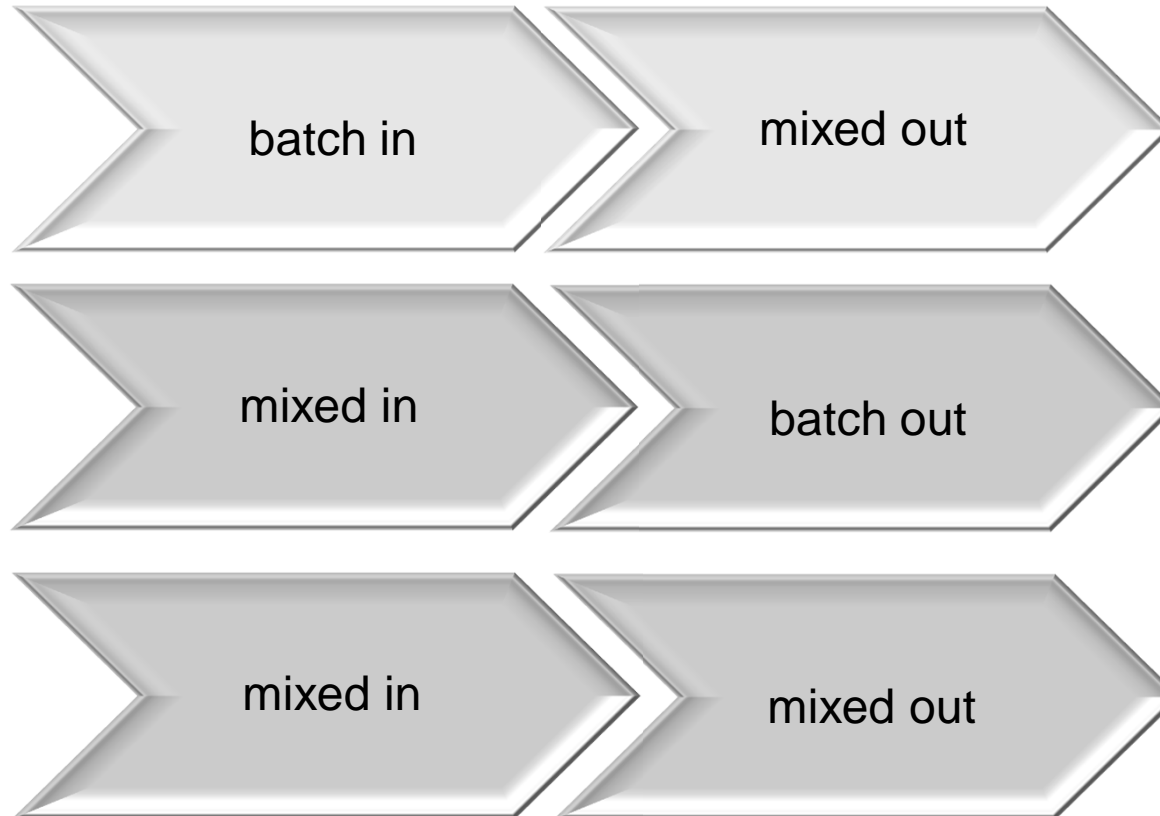
RFID  
or  
DotMatrix



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batch In & mixed Out or the other way around



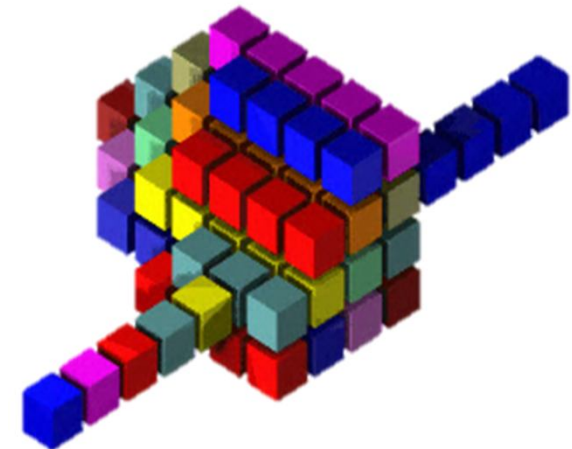
The i-Collector is a dynamic intelligent retriever buffer system

Products are in the buffer mostly for a short period

The i-Collector is the solution for High to Medium moving Items, to a wide Range of products

It lend itself to robotic automation on the Input and the Output side

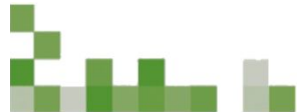
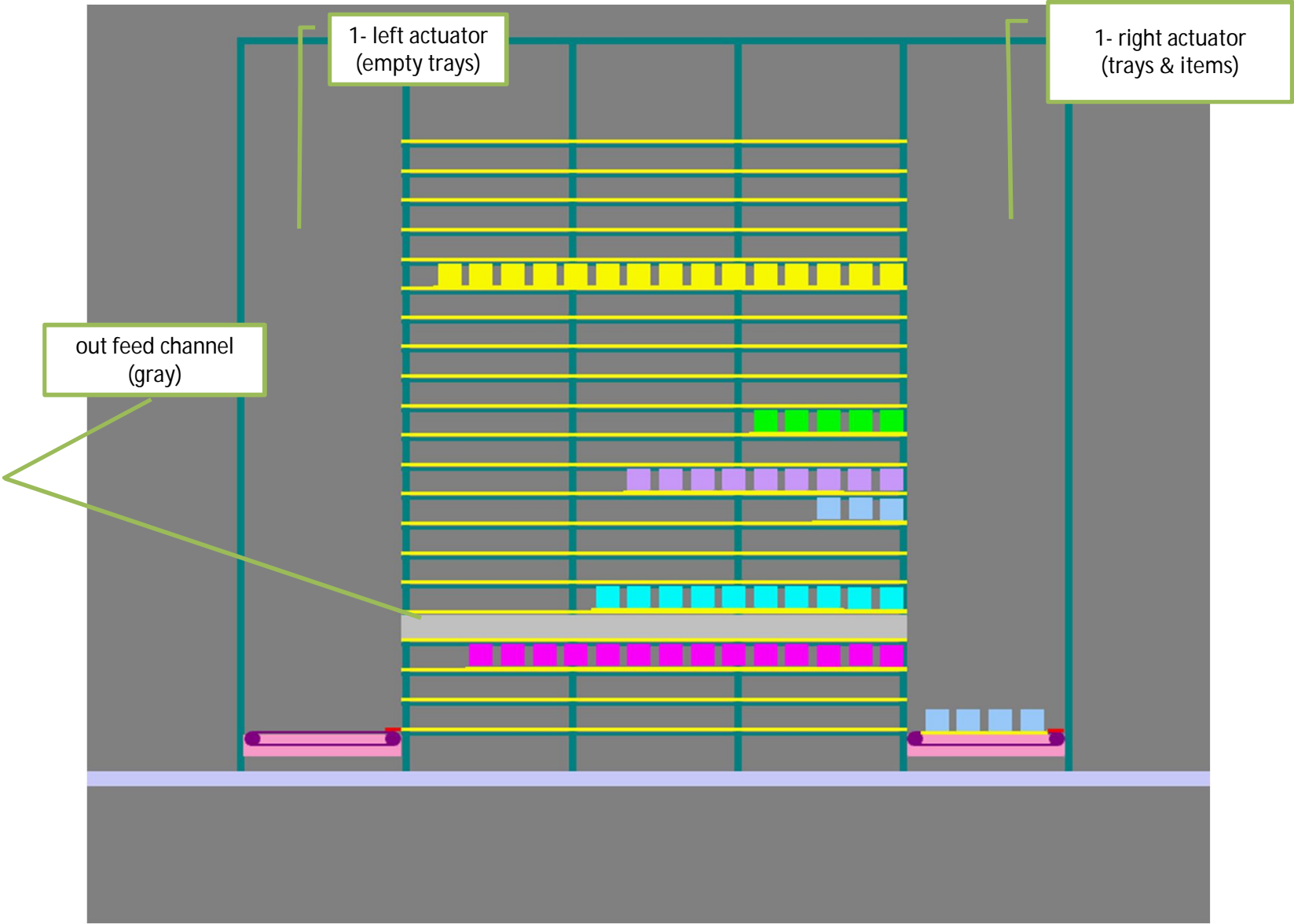
Remarkable is that it would still be Very productive with manual labour Input !



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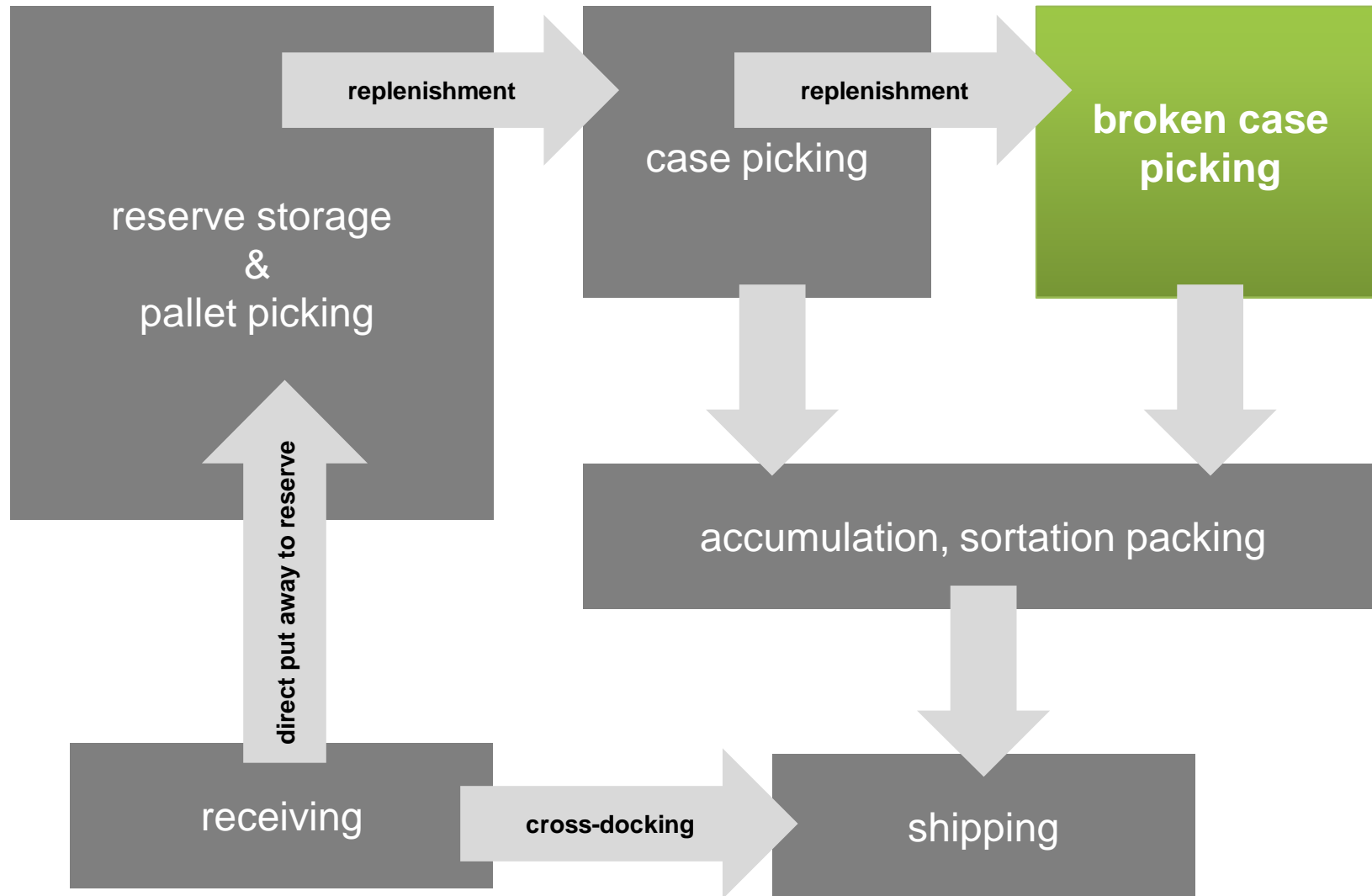
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# GROCERIES



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i-Collector broken case picking



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from pick to light to automated item picking

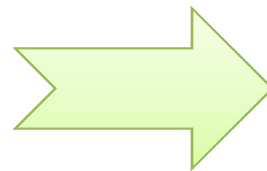


This case showing Batch In & Mixed Out

Groceries (Food) Item Picking

We did this study to replace an existing Pick To Light system

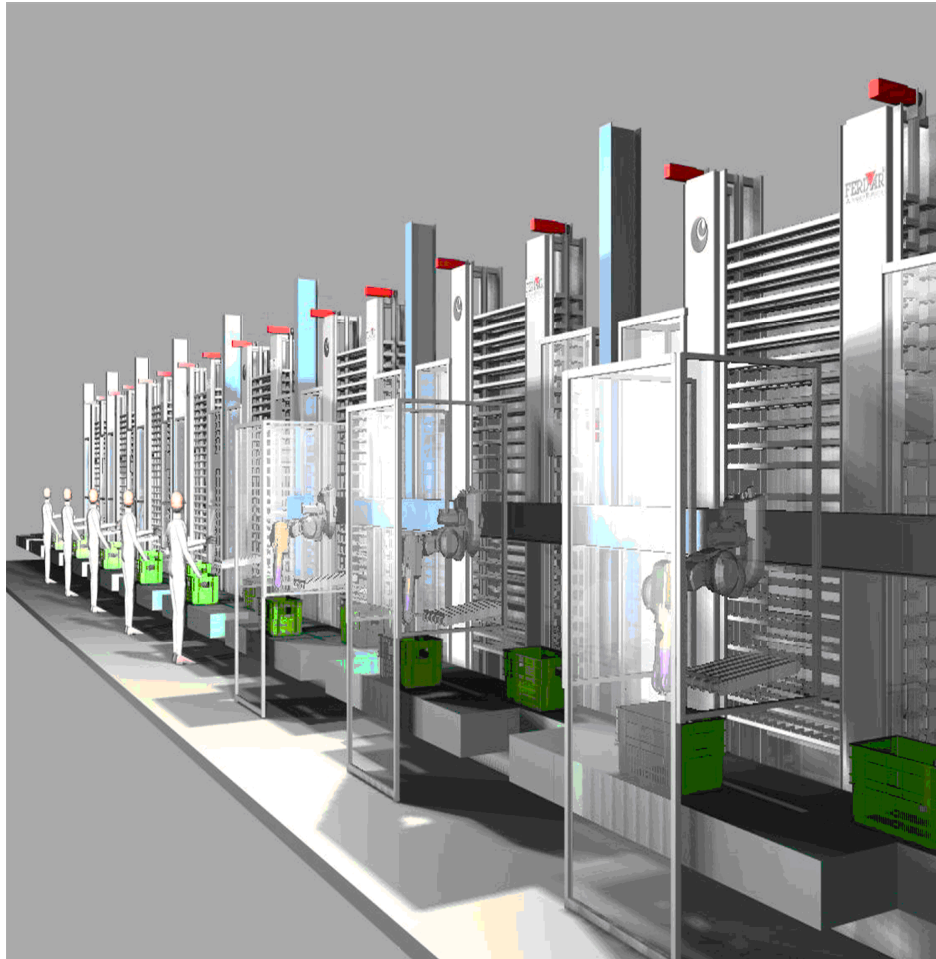
Actually this case brought us the Idea by thinking out of the box of a complete new age of Item picking we show you in the next slides



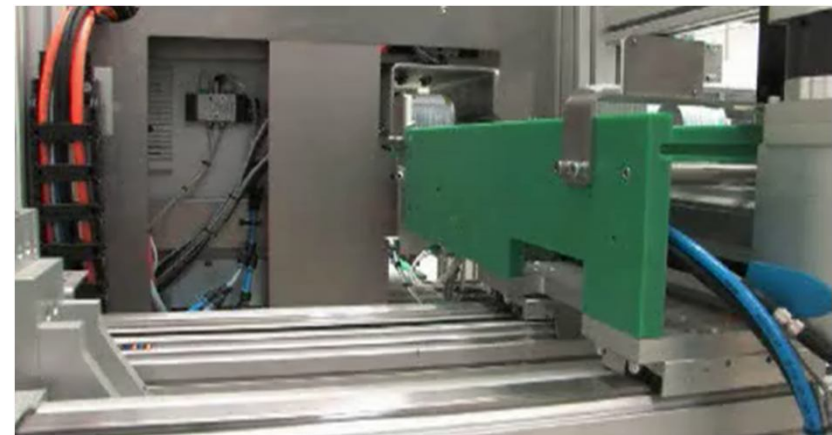
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impression & movie



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automated item picking

Dimensions (mtr) (total floorspace)

width : 20  
length : 62  
height : 9

Item Dimensions (mm)

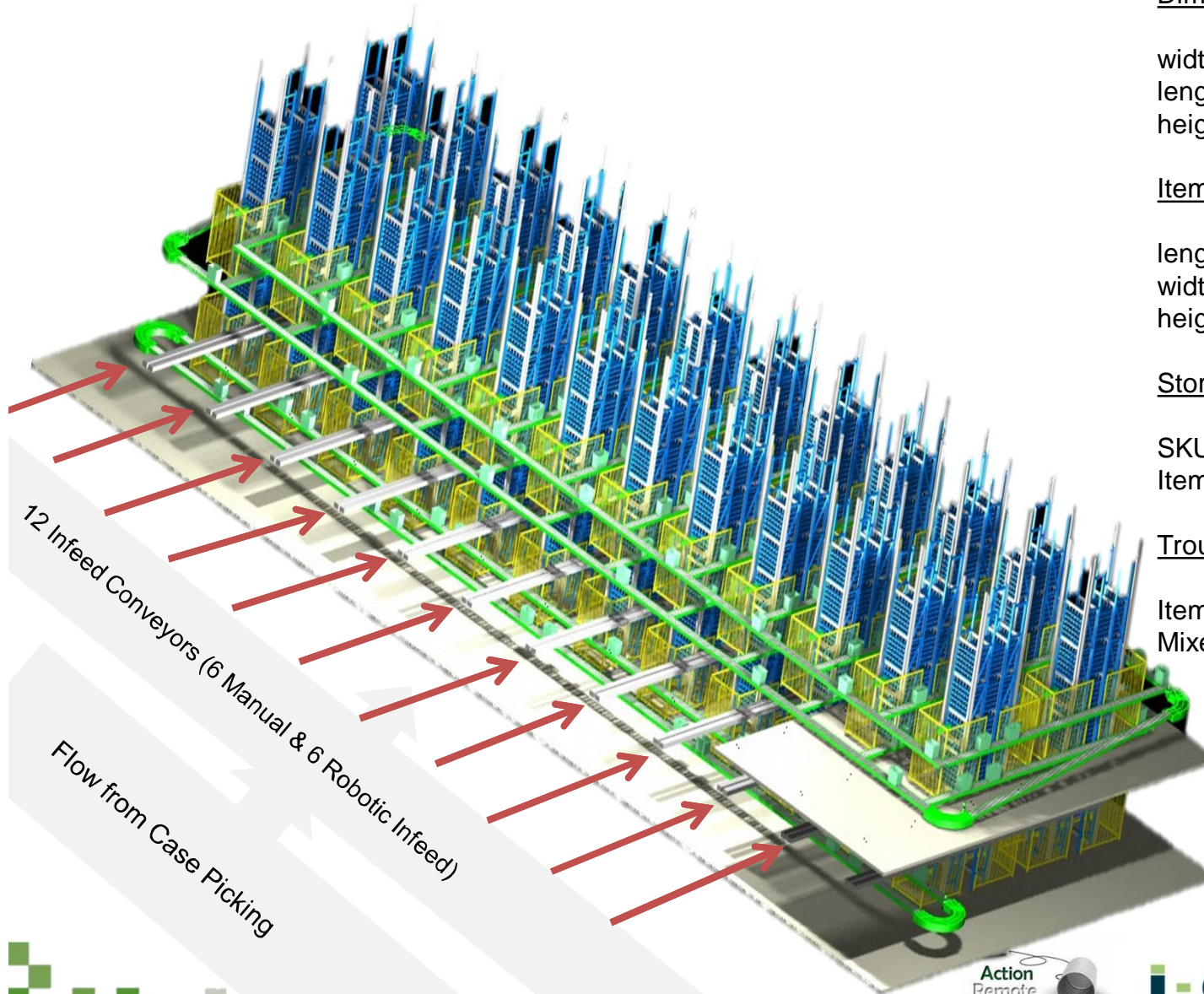
length : 150 ~ 350  
width : 130 ~ 230  
height : 80 ~ 120

Storage Capacity

SKU's : 5000  
Items : ~ 100000

Troughput Capacity

Items batch in /  
Mixed out per hour : 18000 \*



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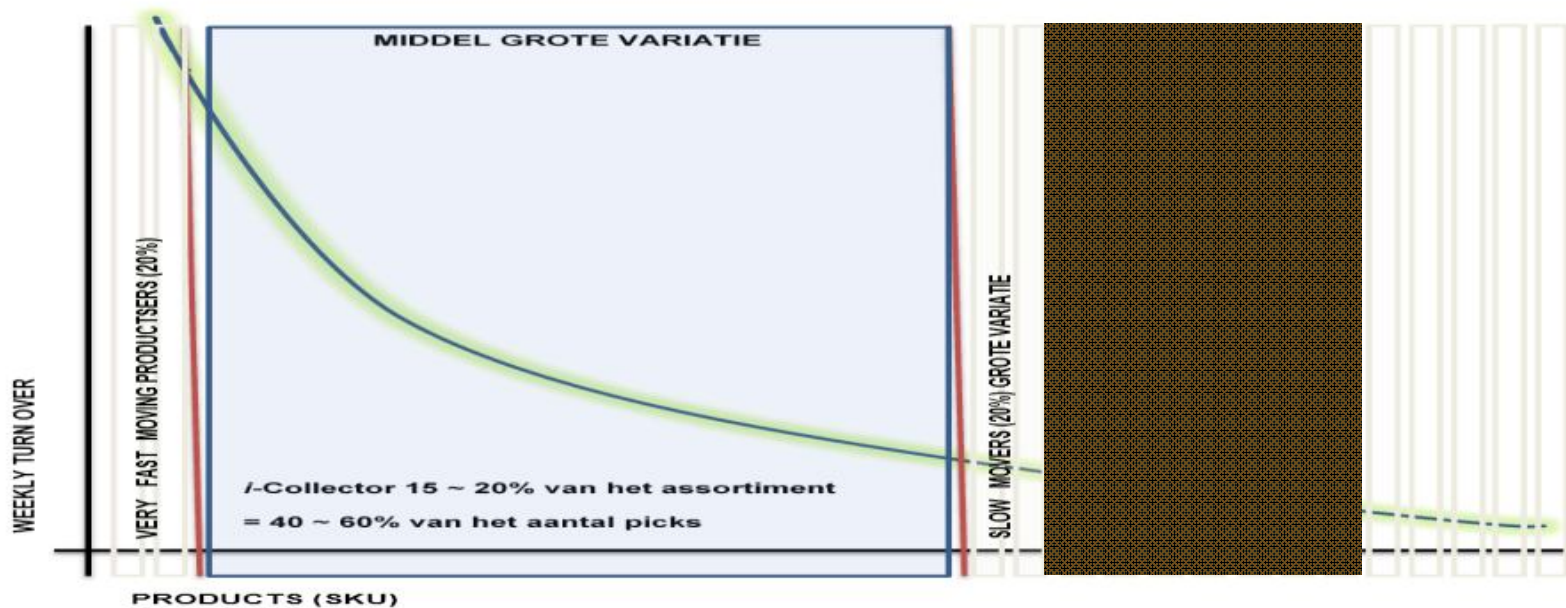


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## fundamental ratios

Compared to other Goods-to-Man, Dispensing or Sequencing solutions the i-Collector provides very good fundamental ratios such as:

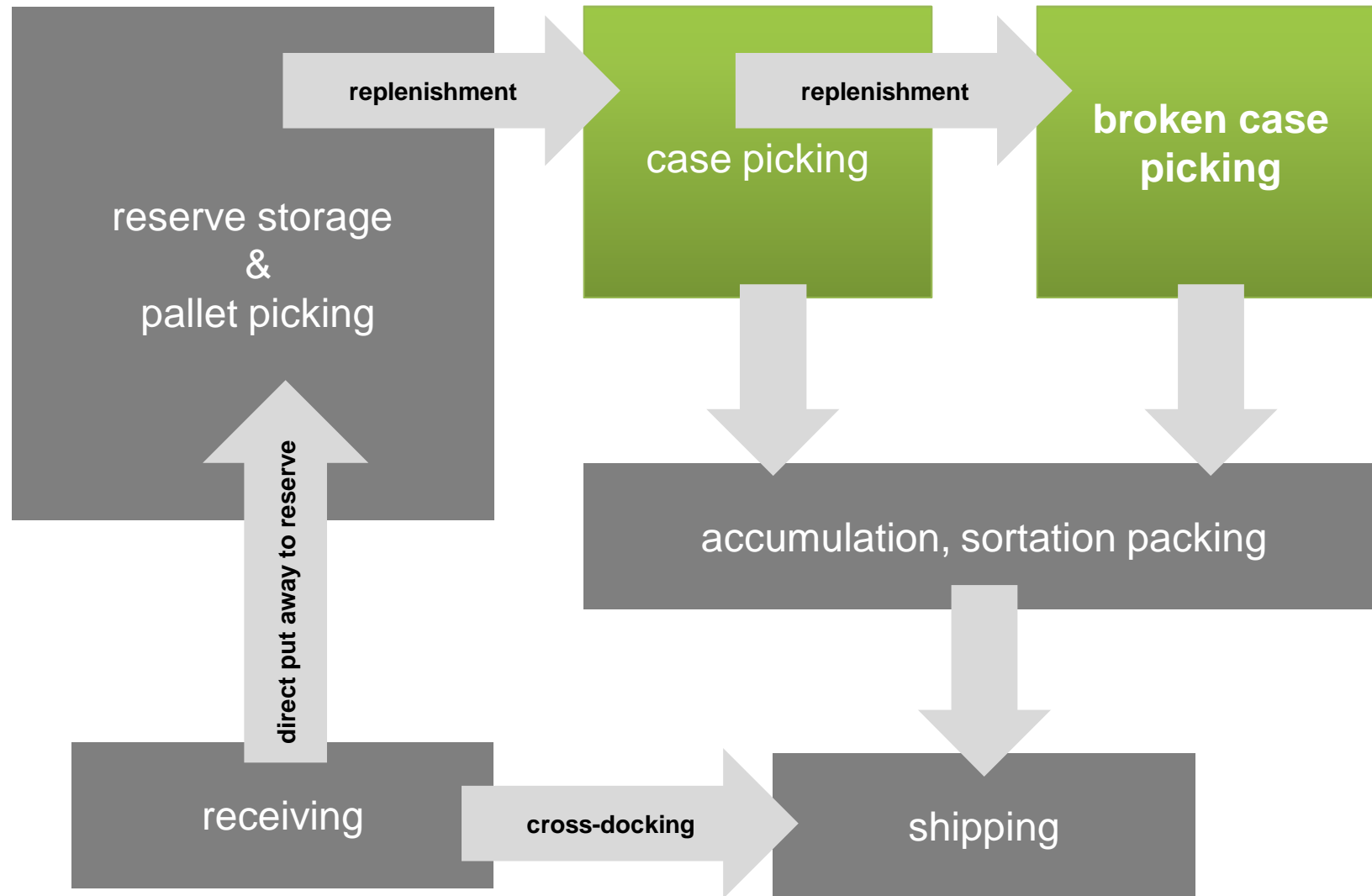
- ✓ Transactions per hour per drive unit
- ✓ Energy use per transaction
- ✓ Investment per transaction capacity
- ✓ Usable product from factors and weight ranges
- ✓ Effectively be used for 40 ~ 60% of the pick



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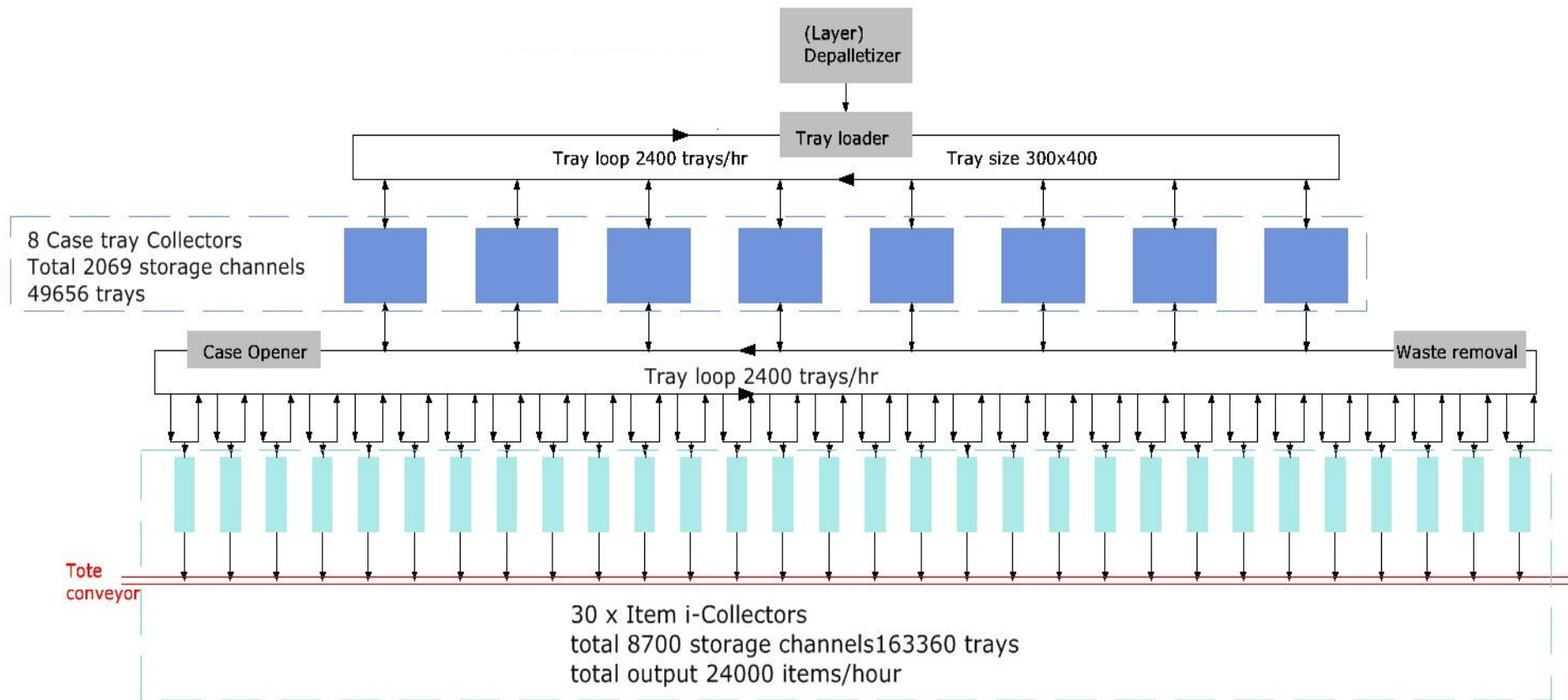
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i-Collector case & broken case picking



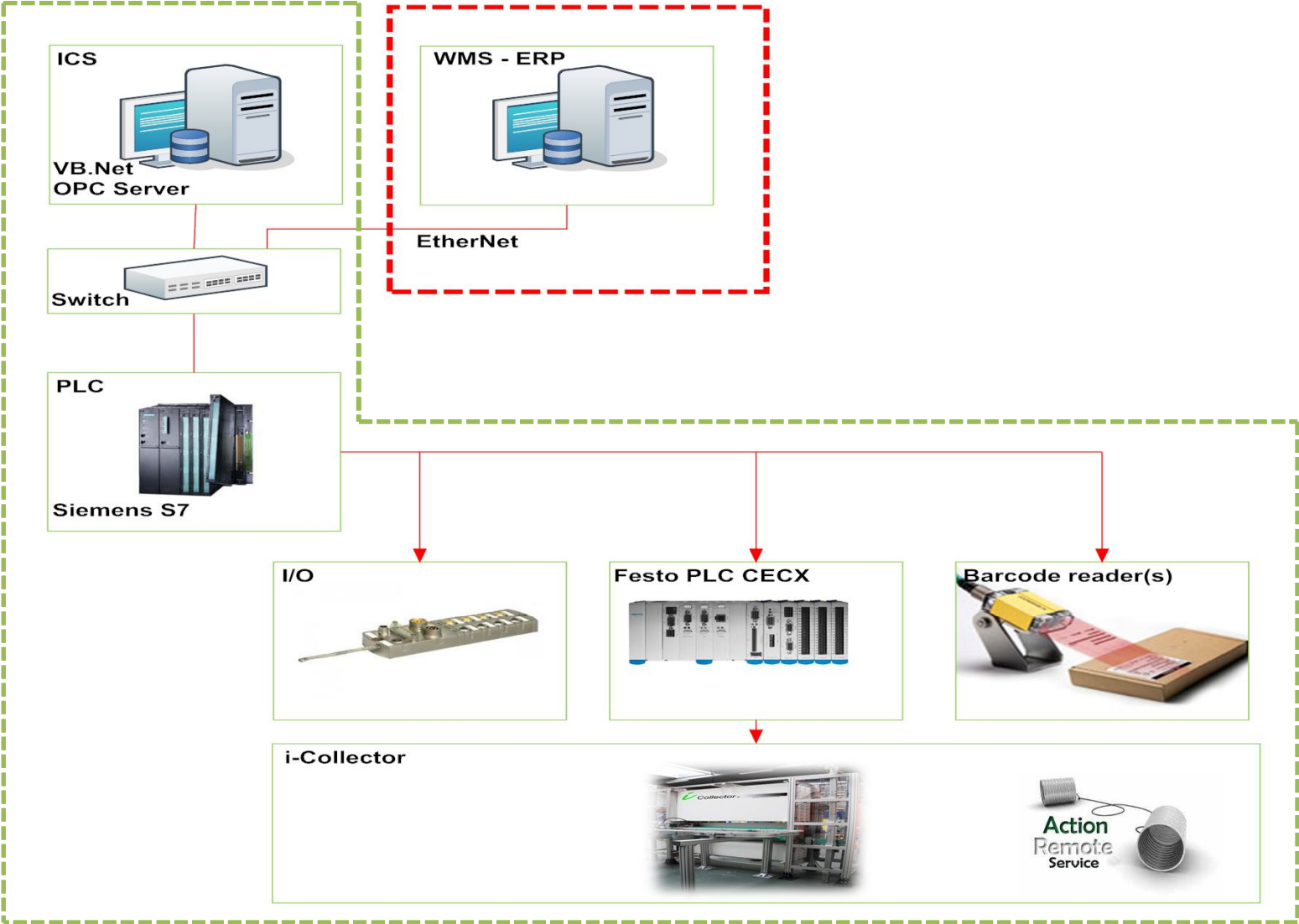
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from pallet storage to delayer to case tray (random access) to automated item picking



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i-Collector control system - ICS -



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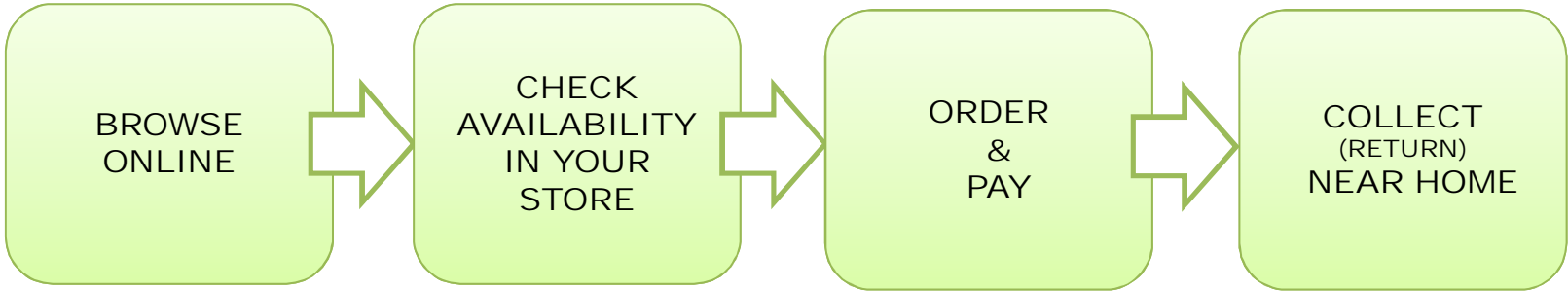
# CLICK & COLLECT (dynamic depot)



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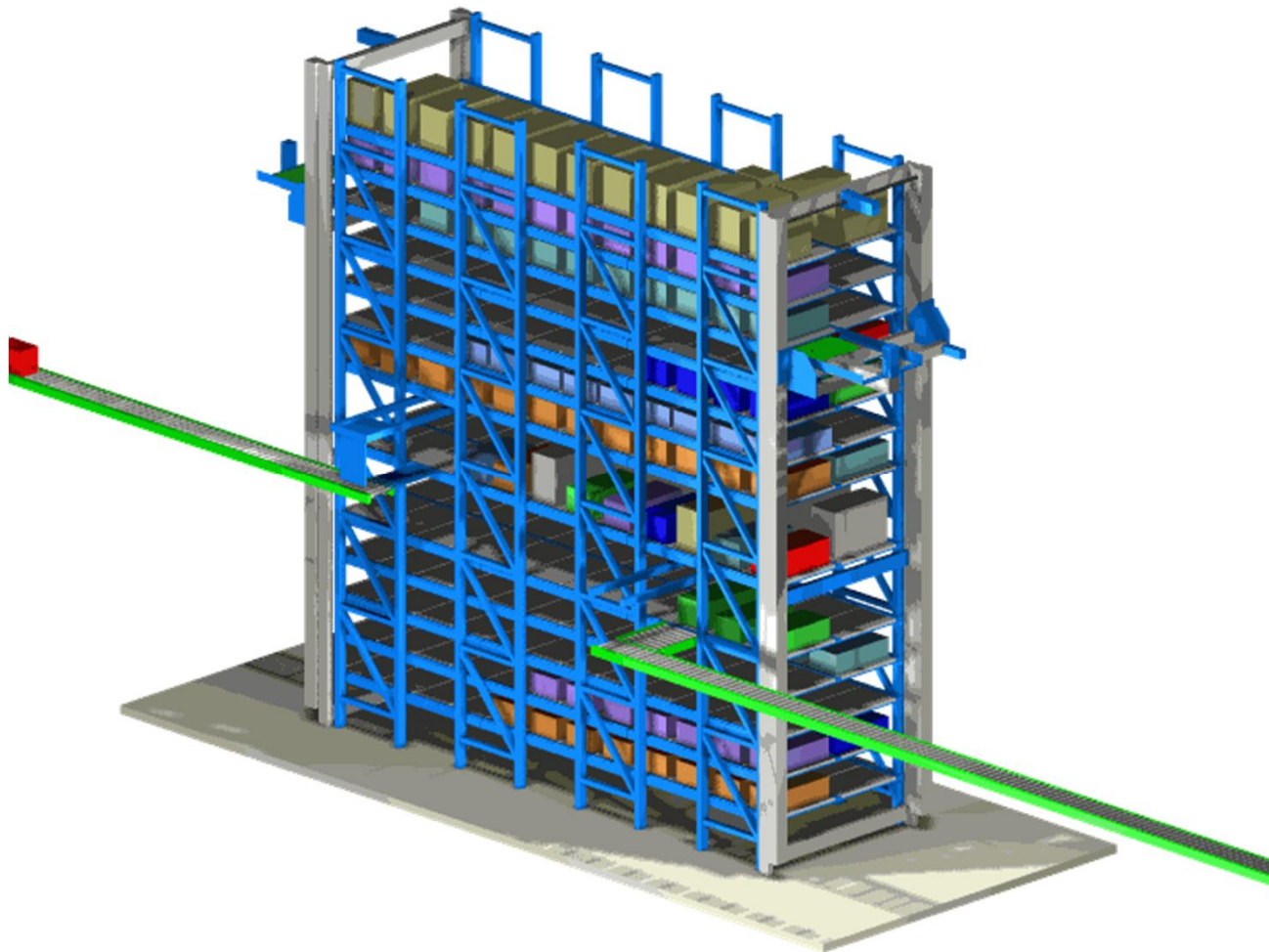


click & collect



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mixed In & batch Out buffer from packaging lines to palletizing



In this case imaging Multiple Packaging Lines feeding the i-Collector with Carton boxes

The Carton boxes coming from the Lines randomly in groups of three

Each group is a brand

The boxes are collected in the i-Collector until there is a complete pallet load

The i-Collector is receiving and bringing out complete pallet load of the same brand

In this case the i-Collector is an Intermediate Buffer

(Heavy Type)



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usp

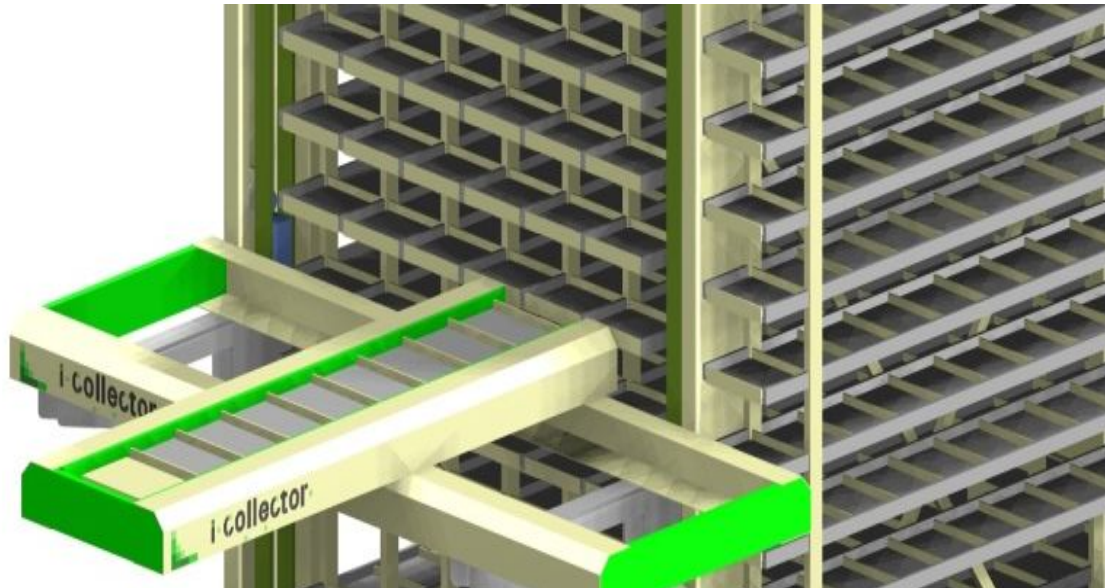
- ✓ No Counting Errors
- ✓ No Picking Errors
- ✓ No Back-Orders
- ✓ High ROI & Quick Recovery
- ✓ Green Line automation & Low cost of ownership
- ✓ Ready to Ship
- ✓ Optimal Order Fulfilment
- ✓ Higher Margin & Increase overall Customer Satisfaction
- ✓ Reduce operational cost with 80% in the picking area
- ✓ Floor space reduction with 40 ~ 60%
- ✓ The i-Collector brings out the complete order in one operation
- ✓ It lends itself to robotic automation on both the input and the output side

Still very productive with manual labour replenishment



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