

3D DYNAMIC BUFFER

CASE STUDY ITEM PICKING

CONCEPT FASHION ITEM PICKING

Automatic storage of cartons with items on trays stored in i-Collectors. Trays will be sorted by model in the i-Collector lanes. Picking is done at decentral located stations. AGV's bring special picking racks in which SKU of models are stored to these picking - packing stations.

At the picking station orders will be picked batchwise. The picking racks with Trays will automatic be loaded and unloaded at the I/O loop of each i-Collector.

For efficient picking out of the racks the i-Collector is capable to organise the trays needed for a pick station in seperate lanes, so racks can be filled with only Trays of one pickstation in a fast way. Especially the products of models with a low turn over can be handled in this way.

FACTS

- 4.500 SKU
- 600 to 800 Models
- 300 - 400 Store Deliveries a day
- 5.000 Ecom Orders a day, 1.500 return orders a day
- 75.000 to 85.000 lines a day
- Average 1.90 Piece per Line

SYSTEM

- 5 i-Collectors total 2.000 lanes and 30.000 Tray locations, type Organized Buffer System [OBS]
- Tray dimension 640x425mm, SKU cartons on top of tray
- 32 AGV's to move mobile picking racks to pick- pack and replenishment stations
- 40 Mobile picking racks
- 12 - 16 Pick/ Packstations for Pick to Light batchpicking
- Floorspace about 2.000 m2
- Height 12 mtr.



i-collector

i-Collector is a PATENTED system

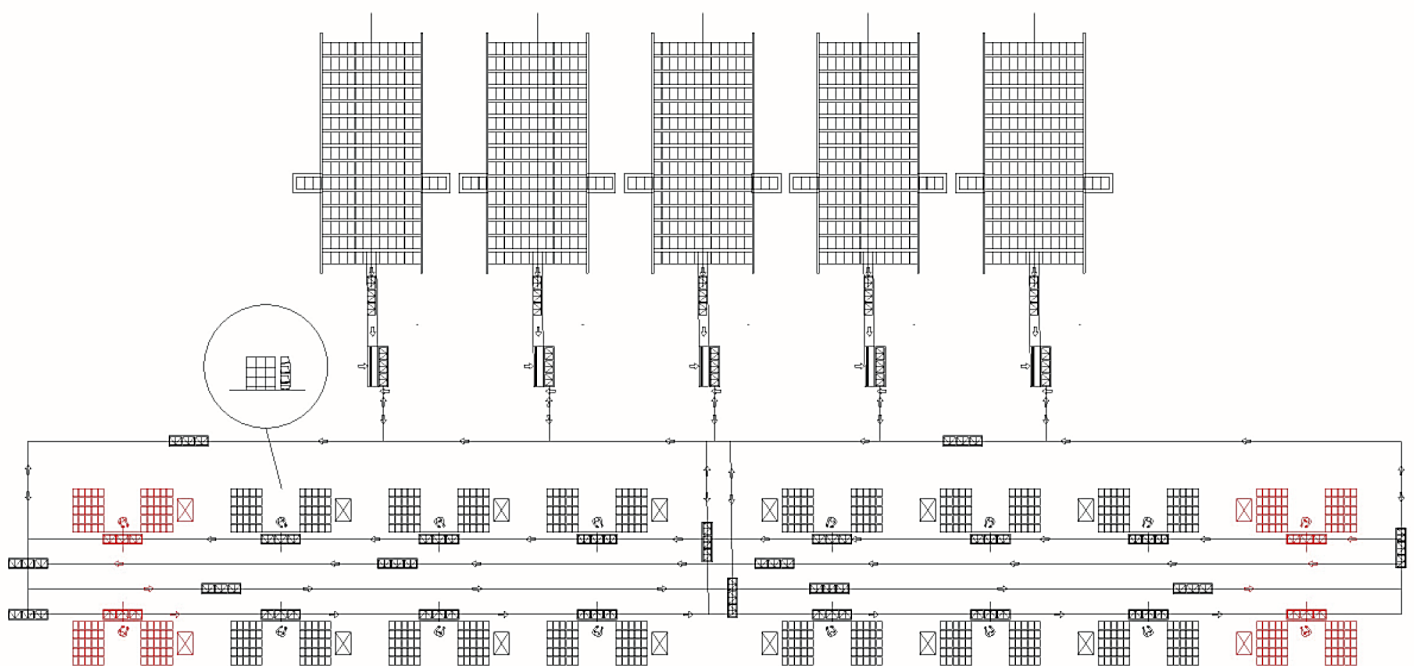
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BENEFITS

- Optimal usage of floorspace
- Efficient zone picking
- Easily Integration Ecom flow
- Modular and scalable storage and simple AGV use
- Simplicity of the system
- High productivity order pickers
- Pay Back less than 3 years
- Low cost of ownership



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