Exotec Skypod AMR High-Density AS/RS Goods-to-Person System

Rack ①

② **Three Axis Skypod (climbing in rack)**

③ **Three Axis Skypod (floor moving)**

④ **Automatic Tote Induction & Extraction Workstation**

Picker at Workstation ⑤

The Exotec AMR high-density AS/RS system provides next generation goods-to-person technology today.

Skypod AMRs provide three axis movement. The Skypod travels vertically on the storage rack and positions in front of the correct SKU. Its inserter extractor mechanism retrieves the tote onto the Skypod body and moves back to the floor. When on the floor, the AMR delivers the tote to the required workstation and the process is repeated.

The system automatically dispatches the AMRs to the correct locations. Since the Skypods are autonomous, they always move via the shortest path to complete their task.

The AS/RS system provides the best qualities of high density, reliability, scalability and cost effectiveness.

High Density – Additional rack can be added and modified at any time to reflect current business requirements.

Reliability – No single point of failure due to multiple and redundant features. If any part of the system needs attention, other components fill the need without missing a beat.

Scalability – Additional Skypods, workstations, rack and support equipment can be added, modified and changed quickly and easily. Unlike other technologies, flexibility and scalability are not CAPEX prohibitive.

Cost-Effectiveness – Dollar for dollar, the Exotec Skypod system provides the best cost of ownership than other automated technologies. Features such as its attractive initial acquisition cost, minimum maintenance requirements, high performance, storage density and flexibility to grow and change make the Skypod system a wise decision.

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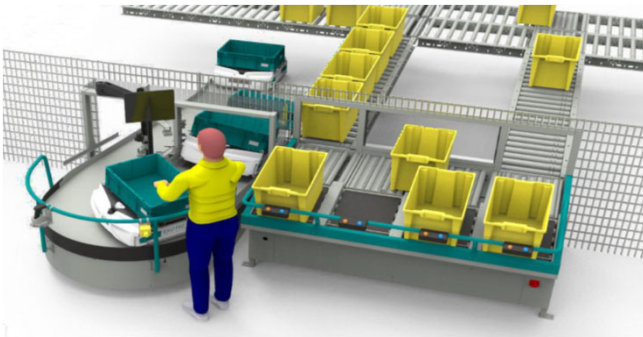
Manual Station

The station can batch pick or put up to four orders simultaneously. Order totes are placed and removed by the operator.
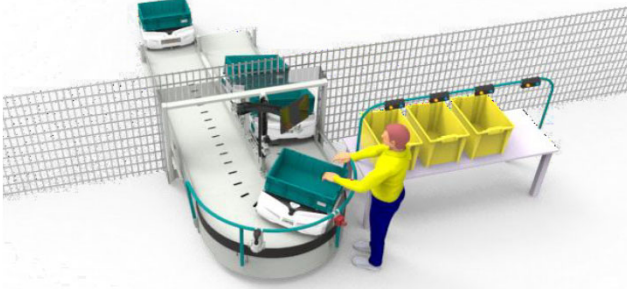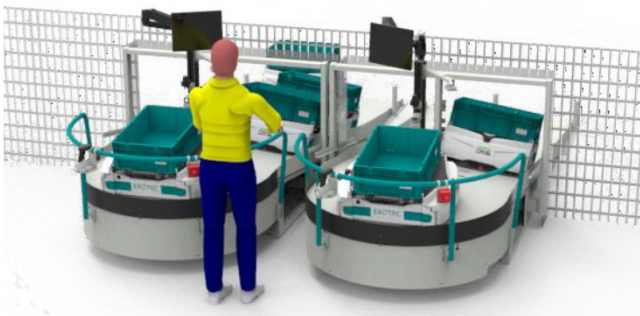

Automatic Tote Induction & Extractor

Totes and orders are automatically inducted and extracted to be routed to another zone, packing or shipping.

Consolidation Stations

When only a few items remain in a tote, the system allows for consolidating items into smaller cells or existing totes to increase system density.

Picking Speed
Up to 400 totes/hour

Density
x 5x compared to standard picking on shelving

Delivery Speed
Complete orders in 5 minutes

Ergonomics
Picking at 800mm height

Rapid Deployment
Set up of the System in 6 months
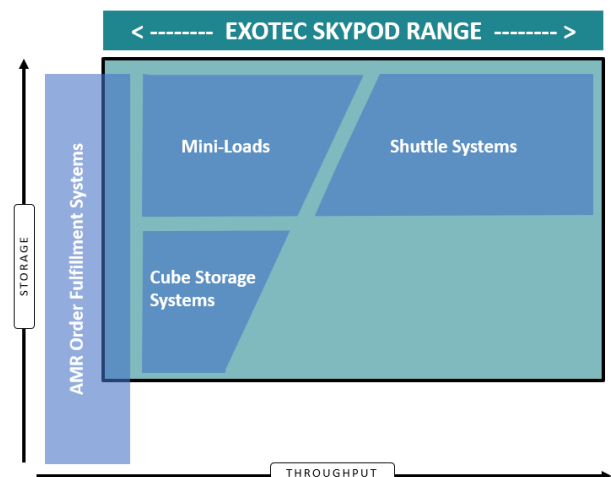
Scalability & Flexibility
Add robots and rack to meet growth and change

No Single Point of Failure
Multiple and redundant back up features to keep running for maximum uptime

Exceeds Other Technologies:

< -------- EXOTEC SKYPOD RANGE -------- >

STORAGE

AMR Order Fulfillment Systems

Mini-Loads

Shuttle Systems

Cube Storage Systems

THROUGHPUT

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800-229-8215 | www.conveyco.com | info@conveyco.com