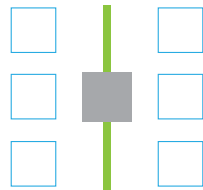


Types of ASRS



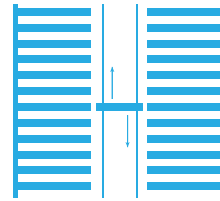
Unit Load

Machines that store large loads (usually 1,000+ pounds), typically on pallets with storage rack structure, reaching 100 feet or more tall.



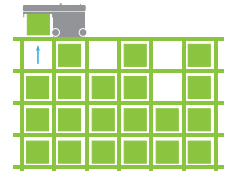
Mini Load

Operating the same way as a unit-load AS/RS, a mini-load AS/RS handle lighter loads, usually weighing less than 1,000 pounds.



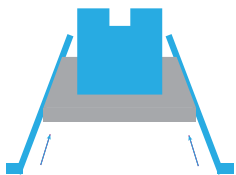
Vertical Lift Modules

VLMs consist of a column of trays in the front and back of the module with an automatic inserter/extractor in the center that stores and retrieves the required trays.



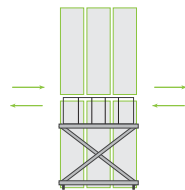
Cube Based Storage

Ultra-high density goods-to-person piece picking system which utilizes robots to store and retrieve inventory bins from a cubical storage grid.



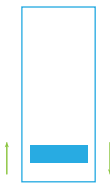
Shuttles

Shuttles are used for the automated handling of totes, trays, cartons or all three in the same system – for either warehousing or manufacturing.



Horizontal Carousels

Ideal for storing small parts and pieces, horizontal carousels are comprised of a series of bins that rotate horizontally around a track.



Vertical Carousels

Rotating vertically, like a Ferris wheel, vertical carousels house a series of shelves or carriers to provide high-density storage.

COMBINED EXPERIENCE

1,000s

Access to the combined knowledge / experience from thousands of installed systems.



Benefits



Improves throughput



Increases accuracy levels to 99.99%+



Increases ergonomics and worker safety



Provides highest possible storage density



Saves up to 85%+ of otherwise wasted floor space



Increases labor productivity up to 85%



Provides real-time inventory control



Enhances product security

RESOURCES

100s

Hundreds of resources for education and help. Access online website, www.MHI.org, have direct contact* with other members and network at MHI events**.

* Meetings are conducted in a safe harbor environment.

**MHI events include MODEX, ProMat and Spring/Annual meetings and conferences.

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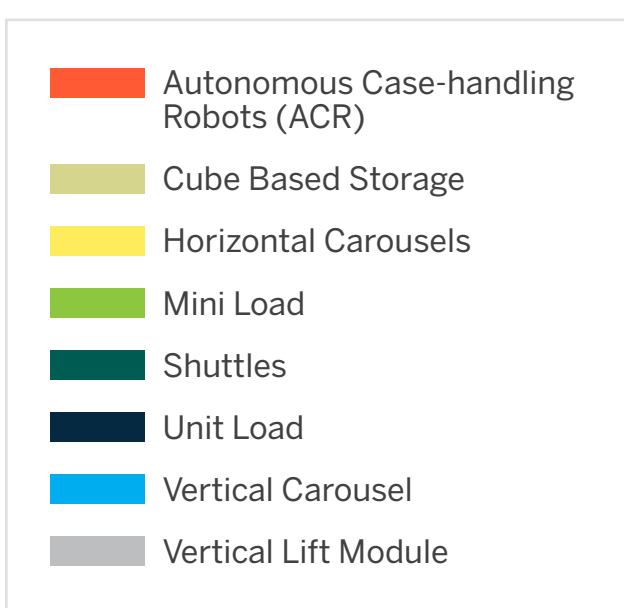
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- Autonomous Case-handling Robots (ACR)
- Cube Based Storage
- Horizontal Carousels
- Mini Load
- Shuttles
- Unit Load
- Vertical Carousel
- Vertical Lift Module



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