

Mini-Load ASRS System

Mini-Load AS/RS store small products and parts in totes, containers, cases, trays, and cardboard box units. Using stacker cranes, the system can use a single load handling device to store and retrieve one case at a time, or a dual load handling device that allows multiple cases to be processed simultaneously, with other diverse specifications available. Its high-speed operation ensures a ready inventory supply for both order-picking and manufacturing processes. The mini-load is a high-speed, high-density buffer that can replace conventional static rack to maximize vertical storage space within a compact footprint.

Mini-load ASRS can be used for sequencing orders that make up trailer loads, providing substantial downstream distribution network savings. Mini-loads are also used to feed “Goods-to-Person” work stations and can be a great way to automate medium to slow moving SKUs in a warehouse or fulfillment center.



Fast and Accurate

The mini-load crane moves quickly and accurately to handle throughput for high-volume order picking or manufacturing.

High-rise, high-density storage

Mini-load ASRS utilizes more vertical space than traditional selective rack systems. Loads are placed on shelves with high precision to optimize storage density.

Smooth, quiet performance

The mini-load uses aluminum masts and urethane wheels to achieve stable and quiet movement, even at high speeds. Our low-noise mini-load systems can be installed virtually anywhere, including next to offices or on upper floors in buildings.

Improved operating efficiency

The high-speed S/R machine automatically stores and retrieves loads quickly and precisely, delivering them directly to operators for picking. This eliminates time spent looking for and retrieving items. Mini-load systems are also perfect for sequencing items prior to sorting, improving the efficiency of later handling processes.

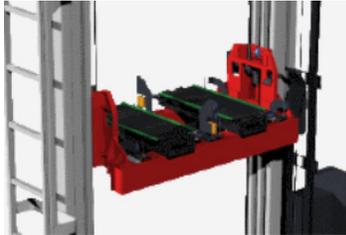
Reduced energy consumption

The latest mini-load ASRS model is 15% more lightweight than the previous model. The motor was also made smaller, reducing electricity consumption.

Variations

Fork extractor

Plate extends under load. Available in both single-deep and double-deep configurations.



Side-hook extractor

Extendable side clamps with roller conveyor. Perfect for dynamic storage of varying load sizes.



Roll handling extractor

Direct handling application of roll products.



Dual cranes

Two cranes operate simultaneously in the same aisle to maximize throughput capacity and resiliency.



Specifications

H-MS Series

Max load: 110 lbs.
Max height: 40 ft.
~150 DC/Hour
Two lengths available:
20 ft or 30 ft

R-F Series

Max load: 330 lbs.
Max height: 66 ft.
~100 DC/Hour
(One or two shuttles)

R-P Series

Max load: 110 lbs.
Max height: 20 ft.

