

Unit-Load ASRS System

Unit load ASRS store products and parts in pallet units in shelf racks that can be easily installed in existing buildings or rack-supported building systems. Our systems can be applied to not only ambient temperature items, but also refrigerated, frozen, hazardous materials, long materials, metal dies, and other diverse items for storage. High-density pallet storage, high-speed operation, and versatility make Daifuku's Pallet ASRS the best-selling automated storage system in the world.

Our unit load ASRS is a high-density buffer designed to maximize vertical storage space, maintaining a compact footprint while handling pallet loads from 1,100 to 6,600 lbs and rack heights up to 130 feet.

With its flexible design up to 130 feet, the pallet ASRS is customized to fit your specific environment and operating conditions. We offer a wide range of product variations to meet your logistics needs.



Fast and Accurate

Daifuku offers a variety of stacker cranes to fit your specific load profile and weight, building dimensions, and operating environment. All systems feature high-quality drives for fast, smooth, and reliable performance.

Advanced control system

Daifuku's local intelligent network control system offers a comprehensive solution: from front-end controls to full-scale inventory management computer systems. Our software provides full control of shuttle-rack machines and load-handling systems. The software monitors the system in real time to assist with trouble and control auxiliary equipment (such as quantity indicator displays for order picking).

Simple operation & maintenance

End-of-aisle controllers allow operators to easily manage loads without entering machine aisles. The power supply and other major components are readily accessible for quick and easy maintenance.

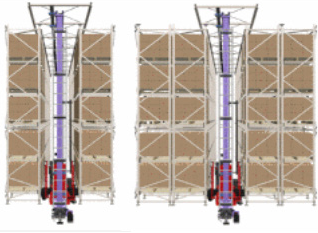
Improved operating efficiency

The high-speed S/R machine automatically stores and retrieves loads quickly and efficiently. Not only does this dramatically reduce cycle time, but it also reduces the number of forklifts and forklift traffic. Daifuku S/R machines reduce energy costs by using low electricity and regenerating power.

Variations

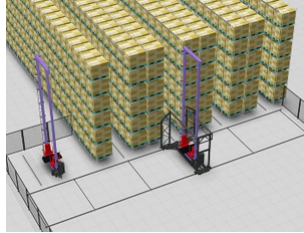
Single-deep and Double-deep

One crane with access to two rack rows (single-deep) or four rack rows (double-deep).



Aisle change

A single crane traverses to change aisles and access multiple rack rows.



Dual Crane

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



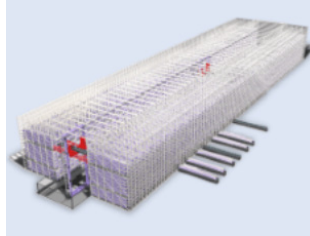
Pallet-less handling

Direct handling solutions for rolls and other odd-shaped items are available.



Long pipe and plate handling

High density storage of long pipes, bars, and plates up to 6.2m long.



Cold or freezer applications

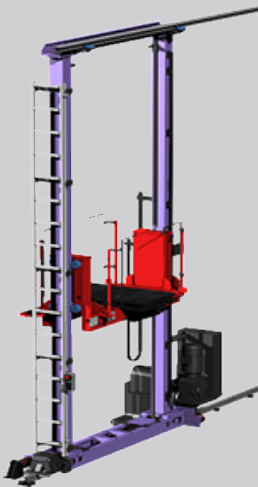
A cold resistant stacker crane is suitable for frozen food handling under -13~-22° F



Specifications

RL Series

Max load: 2200 lbs.
Max height: 100 ft.
~20 to 30 DC/Hour



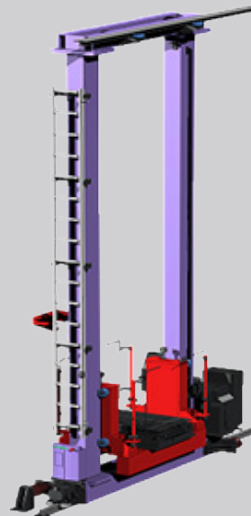
RG Series

Max load: 3000 lbs.
Max height: 100 ft.
~20 to 30 DC/Hour



RM Series

Max load: 4400 lbs.
Max height: 70 ft.
~20 to 30 DC/Hour



RH Series

Max load: 6600 lbs.
Max height: 70 ft.
~20 to 30 DC/Hour

