

Installation Summary

Ikea adds viastore systems AS/RS to automate its material handling operation at its new Distribution Center in Savannah, Georgia



Customer Profile

IKEA --- Since its 1943 founding in Sweden, IKEA has offered home furnishings and accessories of good design and function, at low prices so the majority of the people can afford them. There are currently more than 225 IKEA stores in 33 countries, including 26 in the U.S., where IKEA plans to open three to five stores a year. For three consecutive years, IKEA has been named to Working Mother magazine's annual list of the "100 Best Companies for Working Mothers" and Training magazine's annual "Top 100" ranking of companies that excel at human capital development – as well as to this year's FORTUNE's "100 Best Companies to Work For" list. To visit the IKEA Web site, please go to <http://www.ikea-usa.com>.

System Solution

viastore systems provided the AS/RS for the new distribution center. The entire system has been designed to provide a very efficient, highly reliable process to efficiently fill orders for Ikea's customers.

Some of the features and benefits provided by **viastore systems** are:

- Operational cost savings
- Increased efficiency
- High density double-deep storage
- Higher operational throughput than conventional storage
- Exceeded the 98% system availability

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The MFC controls the in bound transportation system including high speed transfer cars feeding the P & D stations. It also optimizes the material flow and crane movement. Statistical history is maintained to provide information for further system optimization. There is a graphical user visibility display providing the operator with visibility to the system for system status and diagnostics.

The Result

The system provides IKEA with a highly reliable automated Distribution Center that has provide much higher throughput then previous designs.



viastore
systems

Scope of Supply

Storage/Retrieval Machines

- Mechanical/Electrical aisle hardware
- Inbound/Outbound Conveyor System
- High Speed Transfer Cars
- Material Flow Control (MFC) Software with visualization
- Interface to host WMS

Functional Description

- AS/RS approximate size:
Length: 440 ft. (135.3 m)
Width: 328 ft. (100 m)
Height: 100 ft. (35.4 m)
- (13) **viapal** S/R machines, each equipped with either a single or double deep shuttle
- System Configuration
Euro Pallet Aisles – 8 Aisles double deep with (62,560) Storage Locations
Ikea Pallet Aisles - 5 Aisles single deep with (20,700 for a total of 83,260) Storage Locations
Product stored: Ikea household goods for retail stores.
- Storage is on Euro Pallets 800 mm X 1200 mm with 2 Pallet heights from 47.2 inches to 90.5 inches and storage on customized pallets that are 800 x 2000 mm
- Maximum capacity per pallet: 1654 - 1874 lbs