

We Optimize Your Supply Chain

DEMATIC



Automated Library System

AN ALTERNATIVE TO CONVENTIONAL SHELVING

Automated Library System

THE ALS REQUIRES 1/7TH THE SPACE NEEDED FOR CONVENTIONAL SHELVING.

The Dematic Automated Library System (ALS) uses an automated storage and retrieval machine and a special integrated software control system to provide fully-automated high-density collection management. To preserve library collections, the ALS can operate in an environment that has controlled temperature and humidity, and is free of dust and other contaminants.

HOW IT WORKS

Returned items are collected at a check-in location. The library's Integrated Library System (ILS) determines whether items are stored on open shelves or returned to the ALS. For an item to be returned to the ALS, an operator at an ALS workstation scans its barcode, and the automated storage and retrieval machine brings the correct bin. The operator places the item into the bin, and the automated storage and retrieval machine returns the bin to its storage location.

To request an item in the ALS, a patron simply uses the library's ordering system. The library's ILS automatically requests items stored by the ALS. In most instances, the item will be waiting for the patron at the designated circulation desk in the time it takes the patron to walk to the desk.

The ALS has the ability to assign items to random storage locations, maximizing space use. The ALS software records all item locations for rapid retrieval.

Additional collections, valuable items, items requiring restoration, restricted holdings, and other special items can be assigned by the ALS to dedicated locations. The ALS has extensive management and reporting capabilities. User IDs and passwords allow the library's administration to restrict access to specific items, certain ALS commands, and specific reports.

In a typical installation, the ALS can efficiently store collections ranging from 250,000 to 10,000,000+ items in an area that would require 1/7th the space of conventional shelving and at substantial cost savings. On a 25-year lifecycle cost basis, the ALS solution is conservatively one-half the cost of a conventional solution.



An operator at an ALS workstation scans an item barcode, and the automated storage and retrieval machine brings the correct bin.

FEATURES

- 1/7th of space needed for conventional shelving
- Compact modular design
- State-of-the-art computer design
- Retrieval in minutes versus days for off-site storage
- Automated operation
- 99+% inventory and tracking accuracy
- Secure control of archived and popular items
- Heavy duty bins
- Environmentally controlled
- Ergonomically designed workstations
- Completely compatible with Integrated Library Systems (ILSs)

BENEFITS

- Reduced construction costs
- Most efficient cube use of space available
- Redundant computers assure high availability
- Improved patron service
- Reduced work force requirements
- Reduced lost items
- Access to all holdings controlled and tracked
- Reduced product damage
- Elimination of dust, moisture, and temperature damage
- Reduced operator lifting and stress
- Transparent to the patrons
- Communicates with existing ILS
- Allows more library space to be used for patrons, including collaboration rooms, study spaces, and labs



An operator places the item into the bin, and the automated storage and retrieval machine returns the bin to its storage location.



An automated storage and retrieval machine moves back and forth within the vault, and pulls bins with items from either side.

EXPERIENCE

Dematic has been successfully implementing systems and improving technology in libraries around the world for over 25 years.

EXAMPLE ALS INSTALLATIONS

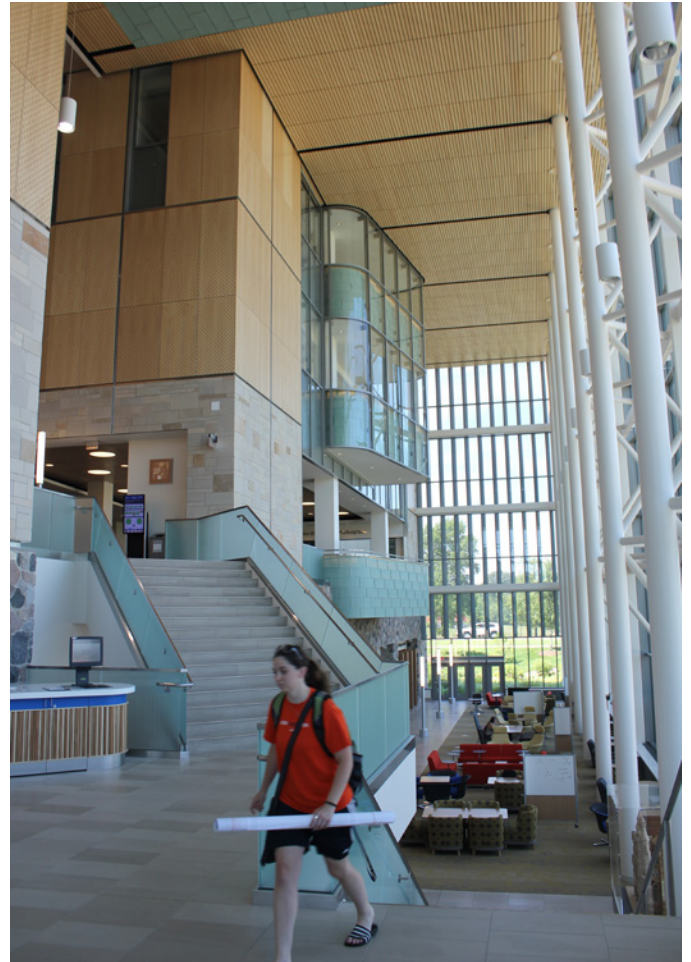
- California State University, Long Beach
- California State University, Northridge
- Chicago State University
- Colgate University
- Eastern Michigan University
- Georgia Southern University
- Grand Valley State University
- Macquarie University
- North Carolina State University – Hunt Library
- Santa Clara University
- Sonoma State University
- U.S. Department of Defense
- U.S. National Archives
- University of British Columbia
- University of Chicago
- University of Louisville
- University of Missouri – Kansas City
- University of Nevada, Las Vegas (UNLV)
- University of Nevada, Reno
- University of Technology Sydney
- University of Utah
- Utah State Archives
- Valparaiso University



A new ALS is installed in the Pew Library at Grand Valley State University, but patrons can easily request ALS-stored items from any library in the Grand Valley system.



Each item is given a barcode and scanned into the system. The Dematic software keeps track of the item location, which enhances flexibility in storage.



Dematic Automated Library Systems require much less square footage than open shelving, so more library space can be used by patrons for collaboration rooms, study spaces, and labs