

CASE STUDY



Maximizing Efficiency in USAF's Logistics Network

To keep up with expanding logistical needs and optimize its storage capabilities, Pensacola NAS required a more efficient storage and workspace solution. Managing varied inventory types in a streamlined manner demanded innovative solutions to maximize available space, boost efficiency, and reduce costs.

The Client

Pensacola Naval Air Station (NAS) is one of the largest naval bases in the U.S., serving as a critical hub for aviation training and logistics. The base required a modernized storage and office infrastructure to handle an extensive range of materials, improve organization, and meet expanding operational demands.

Results Snapshot



**Double the storage capacity
on existing floor space**



**Space reduction using
mobile aisle storage**



50%
**Savings in office
construction costs with
modular office design**

THE CHALLENGE

As logistical demands grew, Pensacola NAS faced the challenge of maximizing the capacity and efficiency of its 150,000-square-foot facility. With diverse storage needs, the base required advanced storage solutions that would streamline operations without expanding the building footprint. Needing an expert in warehouse design and scalable solutions, Pensacola NAS partnered with LD Systems for a high-impact transformation.

RESULTS

LD Systems implemented a comprehensive, integrated system that dramatically optimized space and efficiency in Pensacola NAS's 150,000-square-foot logistics center. By designing a flexible layout with mezzanines, mobile storage, and modular workspaces, LD Systems helped double the storage capacity, reduce space usage by 70%, and save 50% on office construction costs. The upgraded facility now meets the base's high standards for cost-effective, streamlined logistics.

THE SOLUTION

01



Operations Review

LD Systems conducted a detailed analysis of Pensacola NAS's logistics operations, identifying areas of improvement and designing solutions to boost storage capacity and efficiency.

02



Layout and Design

The layout was crafted in AutoCAD to maximize space, incorporating a two-tier mezzanine and mobile aisle storage. This strategic design enabled efficient movement of goods, enhanced storage, and reduced handling time.

03



Equipment Selection and Installation

LD Systems chose high-performance storage systems tailored to Pensacola NAS's needs, overseeing the installation to ensure efficiency and adherence to timelines.

04



Project Management

From planning to execution, LD Systems managed every project phase, maintaining budget and timeline control to minimize disruptions during the facility upgrade.

DETAILS AND EQUIPMENT

LD Systems customized a system for Pensacola NAS's 150,000-square-foot center, enhancing productivity and storage capacity. The design included a two-tier mezzanine and modular office spaces to maximize floor efficiency. This innovative approach transformed the facility, optimizing operations to handle diverse logistical needs.

Storage Solutions and Strategy

LD Systems implemented multiple storage solutions:

Modular Cabinets: Created secure, organized storage for frequently accessed items.

Mobile Aisle Storage: Reduced storage footprint by 70%, increasing capacity without expanding the facility.

Mezzanine: Doubled storage on the same floor area, enhancing space utilization.

Carton Flow Racks and Bin Shelving: Improved organization and retrieval speed.



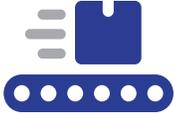
Material Handling and Conveyor Systems

To streamline workflow and ensure efficient storage:

Mezzanine: Created a second level of storage, effectively doubling usable space.

Mobile Storage System: Organized high-density shelving units that optimized storage capacity.

Modular Office: Offered a 50% cost savings and 75% faster setup time than traditional offices, creating flexible, adaptable workspaces.





CONCLUSION

With LD Systems' integrated approach, Pensacola NAS now operates with maximum efficiency, supporting high-capacity storage within a limited space. This advanced system meets the demands of the base's expanding operations while reducing costs and optimizing floor space.

The Results

- Double the storage capacity on existing floor space
- 70% reduction in space usage with mobile storage
- 50% cost savings in office construction