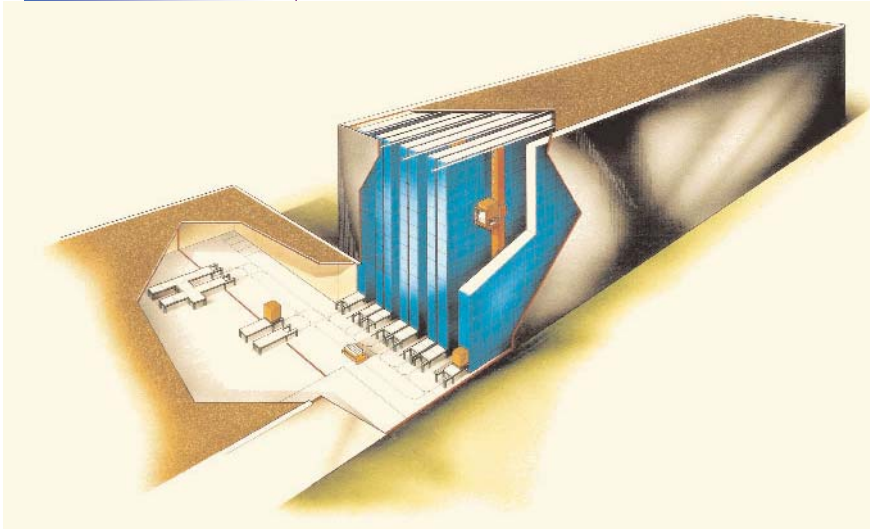


2-MINUTE OVERVIEW

Pharmaceutical Manufacturer Builds Warehouse for Secure, Efficient Storage



Features/Benefits include:

- **Allows for optimum productivity and flexibility in order fulfillment with sophisticated logic**
- **Provides high level of physical and logical security**
- **Ensures extremely high product integrity/tracking with validated software**

A Pharmaceutical Manufacturer needed to build a new storage facility. They wanted to ensure that their limited land space was used to its maximum potential. Additional important project goals were raw material tracking and security and minimizing product damage and human touchpoints.

The supplier's scope of work included General Construction to complete this 22,000 sq ft facility. Providing systems integration, the supplier was also responsible for installations of the Automated Storage and Retrieval System (AS/RS), Automated Guided Vehicles (AGVs), pallet conveyor, and an equipment management system (EMS).

Four inbound docks receive pallets of finished goods from other pharmaceutical manufacturing facilities that are then sized, weighed, and stored in the AS/RS by the AGV system. Finished product from the AS/RS is conveyed by AGVs to staging conveyors for shipment through 4 outbound docks. The 4 lift-top AGVs travel over 280 ft of path and are in constant contact with the AGV software system that manages vehicle movement, traffic, and status.

The AS/RS consists of a 4 aisle rack supported structure creating a total of 8,064 locations at a 2,500 lb capacity per location. Each storage location can hold loads measuring 52" L, 44" W, and 52" H. Fire protection runs above every third rack level. The 4 SRMs are 80' tall pallet/unit load types designed to handle 80 loads/hr.

The EMS was designed, programmed and installed by the supplier. EMS manages inventory storage and retrieval, assigns rack locations, manages the AGVs and conveyor operational functions, and communicates to the Pharmaceutical Manufacturer's SAP host system.

The system ensured validation of product consistency and separate controlled and non-controlled substance handling to meet strict FDA mandates.

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**P.O. Box 1512
Milwaukee, WI 53201-1512
1.800.HKSystems
hkinfo@hksystems.com
www.hksystems.com**