

Reference Information

Lockheed Martin adds a state-of-the-art AS/RS to provide high-volume kitting system in its Orlando, Florida Missiles and Fire Control factory.

Scope of Supply

- Automated Storage/Retrieval System
- S/R machines
- Mechanical/Electrical aisle hardware
- AS/RS rack structure
- Conveyor system
- viad@t MFC (Material Flow Control) software

Functional Description

- AS/RS approximate size:
Length: 95 ft. (28.9 m)
Width: 45 ft. (13.6 m)
Height: 26 ft. (7.9 m)
- (3) **viaspeed** S/R machines, with custom pin extractor load-handling devices servicing (5,900) storage locations for metal trays
- Product stored: mechanical and electronic components to support manufacturing and assembly of missile and fire control products
- Product weight: 250 lb. (114 kg)
- Input/Output conveyor system with six (6) workstations and padded chain conveyor for quiet operation.

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Customer Profile

Headquartered in Bethesda, Maryland, Lockheed Martin employs about 135,000 people worldwide and is principally engaged in the research, design, development, manufacture and integration of advanced technology systems, products and services.

The new 30,000 square foot Materials Center in Orlando, Florida is located adjacent to the assembly factory at the Lockheed Martin Missiles and Fire Control facility.

System Solution

The three (3) viaspeed S/R machine system stores approximately 5,900 trays of product to support manufacturing and assembly. The front-end conveyor system transports the trays from any of the three (3) aisles of storage to the six (6) workstations where the trays are tilted toward the operator to enable ergonomic picking and replenishment.

Quiet system operation was extremely important to Lockheed Martin. The system was designed so that at full operation, noise levels are less than 70db.

The controls for the system include PLC controls for the conveyor system, the IPC control for the S/R machines, and the viad@t Material Flow Control (MFC) software packages, including an interface to Lockheed Martin's existing warehouse management system (WMS).



The system is designed to handle more than 270 dual cycles per hour and 2,500 order lines per day.

The Result

Overall system transaction time reduced by 24%, resulting in a ten (10) month pay back.

