AUTOMATED STORAGE & RETRIEVAL SYSTEMS (AS/RS) FOR PALLETS

Reliable, fast & cost effective.

The ‘Jay’ AS/RS pallet load technology are designed to handle unitized loads into & out of very high density storage. While sometimes used to replenish picking locations with palletized commodities, the most common application of this equipment is for the buffering of supply chain deliveries, storing and controlling the inventory until it has released from QC. An AS/RS consists of a variety of computer-controlled systems for automatically placing and retrieval loads from defined storage locations. ‘Jay’ AS/RS typically finds applications where; there is a very volume of loads being moved into & out of storage; storage density is important because of space constraints; no value adding content is present in this process. AS/RS can be used with standard loads as well as nonstandard loads. A fixed-aisle stacker crane is one of two-main designs: single mast or double mast. They are supported on a track by ceiling & floor guided. Another AS/RS technology is known as Radio Shuttle technology, where the horizontal movement is made by independent shuttles each operating on one level of the rack, while a stacker crane lifts & shifts the pallet shuttle & pallets to a P&D station.

Basic System Components of AS/RS for pallets:
AS/RS can be designed to suit specific customer requirements. Depending upon individual requirements system components can vary is type & use. Below are a basic list of components which sometimes form a part of the AS/RS:

| 'Jay' Pallet Racking: High Bay Pallet racking systems/Pallet shuttle systems(radio Shuttles) |
| Top & Bottom Rails for Stacker Crane movement. |
| ‘Jay’ Stacker Cranes (Storage & Retrieval machines-SRM) With Load Handling Devices: Telescopic Forks/Radio Shuttles |
| Aisle Equipments like; Buffers, Power supply rails, Wireless communication system, Aisle equipment, safety switches etc. |
| Aisle Transfer car for Stacker cranes |
| Pickup & Delivery (P&D) stations |
| Conveyors for Pallet transfers |
| 'Jay' Warehouse Management software |
PALLET RACKING SYSTEMS

A modular concept system with unlimited applications

Pallet Racking Systems (JPRS) from JAY find the widest applications in warehouses & storage areas. Using the appropriate system components, many different types of racking can be developed. With use of 'Warehouse Management Software' with a combination of Bar Codes or RFID's a semi-Automatic type of storage/retrieval can be planned for specific use.

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‘Jay’ Automated Storage & Retrieval Systems for Pallets

Applications

- Automotive
- Beverage
- Pharmaceuticals
- Manufacturing
- Electronics
- Paper
- Spare parts handling
- Warehousing & distribution
- Food
- Cold storage
- Life sciences
- Plastics

Advantages

- Organized Facility.
- Inventory Control
- Consistent product Handling
- Space optimization
- Comfortable working environment

Principal Characteristics

- Optimal use of space with its high storage density.
- High level of accessibility to loads
- Permanent inventory with our state-of-the-art computer system.
- Increase in productivity with respect to conventional management.
- Total safety during the load handling processes, as the presence of operators within the storage area is not required.
- Protection of the load and absence of unknown losses.
- Reliability & simplicity of use.
- Reduced maintenance cost.
- Particularly effective for companies with demanding order preparation processes.

Applications

‘Jay’ Automated Storage & Retrieval Systems for Pallets

It finds applications in a variety of industry including:

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