



# Automated Storage & Retrieval Systems (AS/RS) for Pallets

**Reliable, fast & cost effective.**

## General Introduction:

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 in 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





## 'Jay' Automated Storage & Retrieval Systems for Pallets

<b>Applications</b>	<p>It finds applications in a variety of industry including:</p> <ul style="list-style-type: none"> <li>• Automotive</li> <li>• Beverage</li> <li>• Electronics</li> <li>• Food</li> <li>• Life sciences</li> <li>• Pharmaceuticals</li> <li>• Manufacturing</li> <li>• Paper</li> <li>• Cold storage</li> <li>• Plastics</li> <li>• Spare parts handling</li> <li>• Warehousing &amp; distribution</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>➔ Organized Facility.</li> <li>➔ Inventory Control</li> <li>➔ Consistent product Handling</li> <li>➔ Space optimization</li> <li>➔ Comfortable working environment</li> </ul>
<b>Principal Characteristics</b>	<ul style="list-style-type: none"> <li>➔ Optimal use of space with its high storage density.</li> <li>➔ High level of accessibility to loads</li> <li>➔ Permanent inventory with our state-of-the art computer system.</li> <li>➔ Increase in productivity with respect to conventional management.</li> <li>➔ Total safety during the load handling processes, as the presence of operators within the storage area is not required.</li> <li>➔ Protection of the load and absence of unknown losses.</li> <li>➔ Reliability &amp; simplicity of use.</li> <li>➔ Reduced maintenance cost.</li> <li>➔ Particularly effective for companies with demanding order preparation processes.</li> </ul>

