Nutech Pallet Shuttle

How it works
The remote controlled pallet shuttle works and transport pallets within Nutech Shuttle Rack. The shuttle runs underneath the pallet loads on a pair of double layer rails. Its core functions are depositing and retrieving pallets within the high density shuttle racking system.

Unique Functions of Nutech Pallet Shuttle
A. Automatic Deposit Process
   Every time a pallet is placed at the entrance of the rails, the pallet shuttle automatically moves it into the first available space within the rail.

B. Automatic Retrieval Process
   The shuttle is deployed by placing it on the rail at the exit. Upon pressing retrieve button, the shuttle moves into the rack, retrieve first available pallet to the exit automatically.

C. Automatic Re-arrangement of pallets
   For FIFO process, the shuttle rearranges deposited pallets to reduce travel time from pallets to the exit, thereby shortening retrieval time.

D. Automatic pallet count
   The shuttle is able to count qty of pallets stored on a particular track automatically, eliminating the need to count pallet by manual method. The scanned pallet quantity will be displayed on the remote handheld device.

The pallet shuttle is powered by rechargeable industrial batteries, and can be controlled remotely by a handheld device, both in automatic or manual mode.

Advantages
Combination of shuttle rack and Nutech automatic pallet shuttle, it is possible to achieve the following objectives:
1. Optimize Storage Density Higher storage capacity compared the SPR, Double-Deep, Drive-in, push-back system. (Show comparison)
2. It is ideal for achieving First-in-First-out operation.
3. Ideal to overcome Drive-in Rack short coming – Pallets in each rail can be retrieved independently.
4. Reduce material handling process.
5. Saving in man power.
6. Saving in lighting energy consumption.
7. Can store more SKU in a row compared to Drive-in rack.
8. Lower cost compared to push-back system.
9. Reduce damages to goods due to reduce material handling process.
10. Superior security – No remote control, no pallet movement.
11. Lower Storage and operational cost per pallet per square meter.
Application

The high density storage rack can be 50 pallets in depth, and up to 6 pallets high.

The shuttle rack and pallet shuttle is superb for following applications:

1. Industry where First-In-First-Out Practice is necessary.
2. Fresh Fruit Importer and distributor.
5. Animal Feed.
7. Lubricant industry.

Standard Shuttle Sizes

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Pallet Width (mm)</th>
<th>Pallet Depth (mm)</th>
<th>Maximum Pallet Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>1,200</td>
<td>1,000</td>
<td>1,500</td>
</tr>
<tr>
<td>2.</td>
<td>1,200</td>
<td>1,200</td>
<td>1,500</td>
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<tr>
<td>3.</td>
<td>1,000</td>
<td>1,200</td>
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<tr>
<td>4.</td>
<td>1,500</td>
<td>1,200</td>
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</tbody>
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Unique Features

1. AC electro-mechanical traction system eliminates the need of replacing carbon brush. Minimum maintenance.
2. AC electro-mechanical lifting system does away the maintenance of hydraulic system. No more messy oil leak.
3. “Quick Change” battery swapping system save time during change over of drained batteries. Replacing batteries takes about 2 minutes.
4. Professional charging trolley allows you to charge batteries at any convenient location and transporting charged batteries to the shuttle easily.
NUTECH Shuttle Rack

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