

NEXT GEN RACKING FOR ROBUST OPERATIONS



**RACKS &
ROLLERS**
STORAGE TECHNOLOGIES AND AUTOMATION

RADIO SHUTTLE PALLET RACKING

Radio shuttle is nothing short of a magical device when it comes to high intensity palletized storage. It is a semi-automated and highly compact storage solution for palletized goods and does not require loading and unloading using forklifts.

There is no extra space between racks for forklift manoeuvring, hence the lanes of the racks are known as channels. One radio shuttle can be used for multiple channels. One channel should contain only one SKU.

RADIO SHUTTLE PALLET RACKING

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If one pallet is stored in one channel and the next pallet has to be stored in another channel, then the radio shuttle is unloaded by using a forklift and moved to the other channel. Then, the next pallet is placed. The forklifts place the pallets at the mouth of each rack's channel and the shuttle carries the pallets to the first empty placement and then comes back to the front of the channel. The same process is applied in reverse for the unloading of pallets.

The shuttles are specially designed to bear loads up to 1500 kgs with swift yet controlled motion and they make sure that the least amount of space is left between pallets. This is what makes this system the most compact and space effective system among others. **Multiple shuttles can be controlled via a single remote and can fill up or empty a whole channel on receiving a single command.** The remote (a tablet operating on network) needs the authentication of an authorized person which reduces the risk of unauthorized access of pallets. The shuttles also come with appropriate safety measures like safety stops, rail end stops, pallet centring etc.

While no aisles lead to maximum space consumption, no forklifts lead to no damage of equipment and racks. The automatic to and fro movement of the pallets without using forklifts results in lower operation costs, more productivity, faster loading/unloading and worryless storage cycles. The radio shuttle (also known as pallet shuttle) system is based on both FIFO and LIFO inventory management principles. If the racks are open on one end, the storing and picking of the pallets is done from the same end which means that the first pallet to go in will be the last one to come out (LIFO). If the racks are open from opposite ends, then the storing and picking will be done on opposite ends without any interference. It means that the first pallet to go in will be first one to come out (FIFO).

BEST SUITED FOR

Warehouses with huge amount of pallet storage with few SKUs and high intensity loading/unloading.

NOT RECOMMENDED FOR

Warehouses with less number of pallets and more SKUs.

MAIN FEATURES

MORE DIVERSE SKU'S

One SKU can be stored per channel as compared to One SKU per lane as is the case with drive-in.

INCREASED PALLET LOCATIONS

Offers more storage depth by stacking the pallets one after the other with min. clearance. The space between levels is also minimised due to elimination of MHE operation.

LOWER ACCIDENT RISK

MHEs are not permitted to enter the structure, thereby minimizing the chances of accidents to a great extent

NEGLIGIBLE MAINTENANCE COSTS

Minimised accidents lead to almost negligible maintenance costs.

HIGHER PERFORMANCE

Lesser time of operation increases efficiency

HIGHLY COST EFFECTIVE

Fuel and energy costs are lowered.

PROS

- 👍 Highest space utilisation
- 👍 Speedy shuttles save loads of time
- 👍 Least damage of racks and forklifts
- 👍 Less operational costs

CONS

- 👎 No direct access to individual pallets
- 👎 Network downtime can affect operations
- 👎 Higher maintenance costs
- 👎 Higher installation costs



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