

Introduction

Dexion's battery powered smart cart travels along rails that are supporting pallets above. The cart has the ability to travel below the pallet then elevate a pick up table that lifts the pallet from the support rails and carries it to the front of a rack where a conventional truck collects the pallet.

A fork lift truck (or stacker crane) can then select the smart cart from its rails and relocate to another location.

Normally one truck services each smart cart, but this is dependent on the lane length, number of lanes, height etc.

This type of installation suits a low SKU's count, where long term storage is required.

Seismic installations to this design have been installed. Typical average usage is 80%.

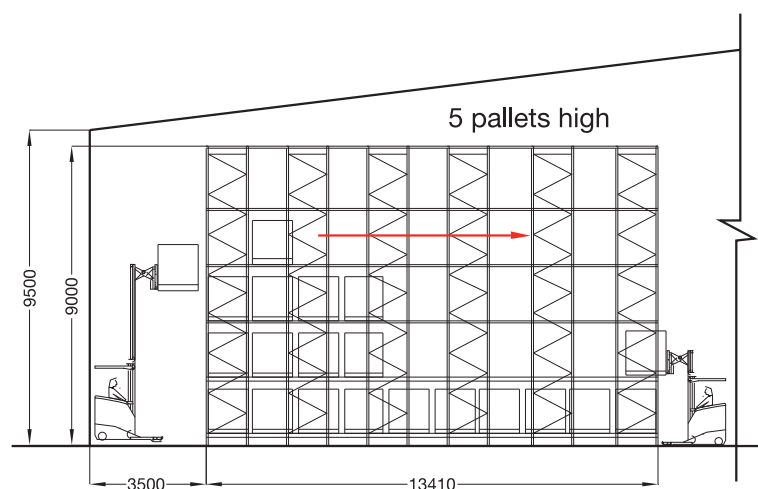
Features

- Very dense storage.
- FILO or LIFO.
- Excellent for long term storage.
- Smart cart can be radio controlled or RF driven.

Vital statistics

Average locations used	80%
Immediate accessibility	up to 100%
Stock rotation	Good
Average floor area by pallet position (sqm)	0.70

Example configuration



Rack entry module example for 2000 pallets

- Pallet and load size: 1165mm (entry) x 1165mm x 1350mm (H)
- Floor area: 36.7m x 37.3m = 1369 sqm
- Total building volume: 13005 cbm (9.5m high)
- Average floor area/pallet position: 1369 sqm/2000 pallets = 0.69 sqm/pallet position
- Average building volume/pallet position: 13005 cbm/2000 pallets = 6.50 cbm/pallet

