

# Radioshuttle™

The Original. Built to last.



More than  
**1.200**  
installations worldwide





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## What's in it for you?

### 1 Productivity

While Radioshuttle™ moves the pallet through the racking, the operator is free to do other work.

### 2 Maximize storage utilization

Maximize available warehouse space usage of the full height of your warehouse building.

### 3 Maintain optimal selectivity

To select loads at each level and section is managed independently of the other levels and sections.

### 4 Cost effective

More pallet locations in existing warehouse minimize use of external storage of pallets. 50% of the movements are done by Radioshuttle™.

### 5 Minimize damage

Less damage to goods since the internal movement of pallets is done by Radioshuttle™.

### 6 Efficient movement of goods

Your existing fleet of trucks and drivers can move more products because the Radioshuttle™ will do the movements of pallets.

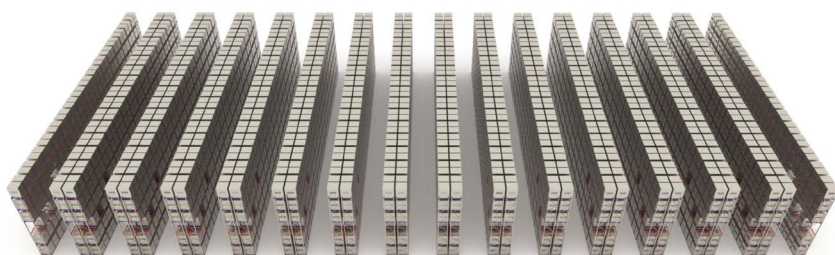
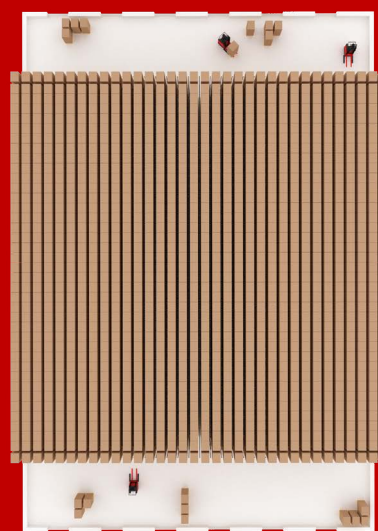
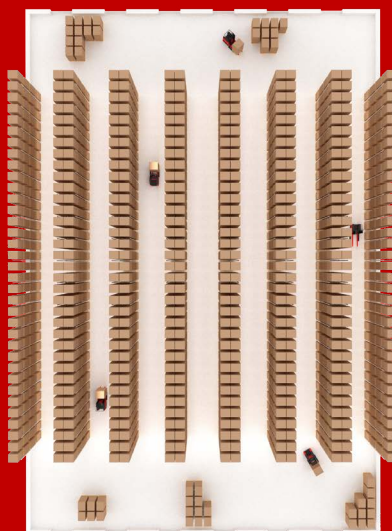




# SAVE SPACE

## Move pallets faster

In a typical warehouse, drivers are moving pallets half way into and out of the facility. Radioshuttle™ cuts this distance down dramatically - moving pallets at over twice the speed of conventional rack.



5,700 PALLETS



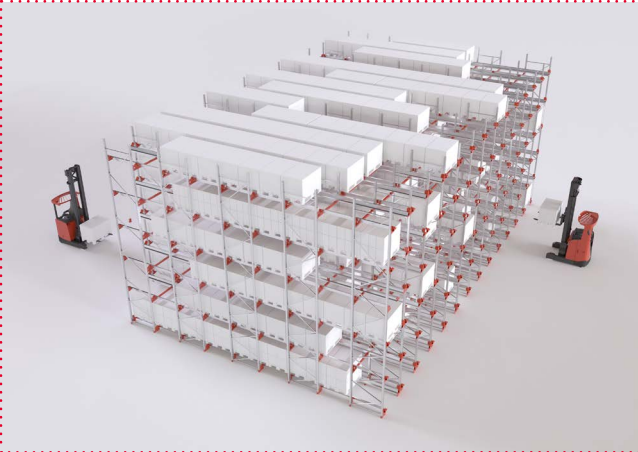
7,800 PALLETS

## Store more pallets

Storing your high inventory items in rack designed for low inventory items wastes space. In the area Radioshuttle™ is deployed - pallet storage capacity is doubled.

# APPLICATIONS

Radioshuttle™ configurations – it's your choice!



## FIFO – First in first out

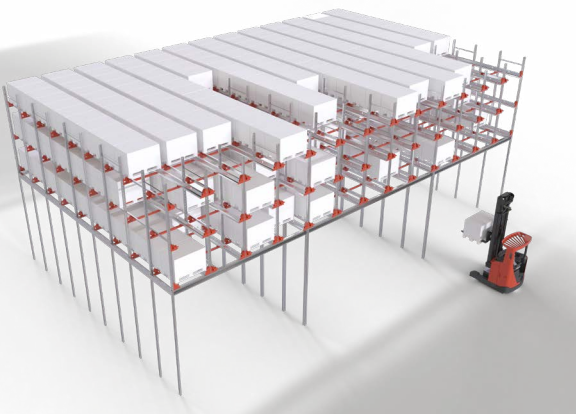
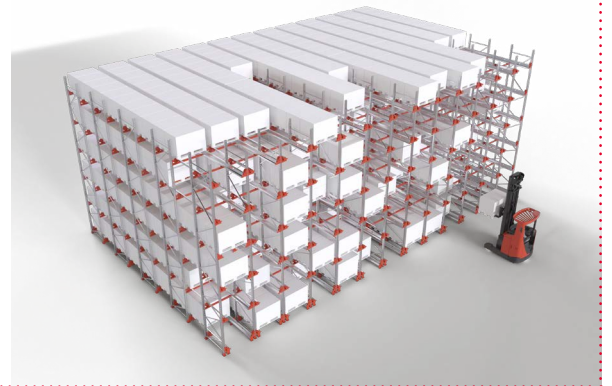
Use the Radioshuttle™ in your facility as a means to store date critical items that require the first pallets in to be the first pallets out.

Amazingly, use your Radioshuttle™ to carry out a reorganization of your pallets, and when required, move all pallets closer to the unloading point.

## FILO – First in last out

For SKU's that can be treated one group per lane, pallet handling will take place in the main aisle. This means that the rack can be made much deeper than ordinary high density racking systems.

Furthermore, the truck doesn't need to stand and wait for the Radioshuttle™, it's free to work elsewhere. This produces a high rate of turnover while halving the truck's handling time. As the Radioshuttle™ works on levels, the goods only need to be uniform within one level of the section. This means a high rate of capacity utilization and a high rate of accessibility.



## Mezzanine for Staging

Radioshuttle™ system, in combination with a structural mezzanine, will benefit your facility in many ways.

Open space for staging of product is created at ground level with buffer storage just on top of it - without sacrificing selectivity of goods.

This solution will maximize usage of your existing available warehouse space. Loading of trucks will be optimized, resulting in less overall transport time.

# RADIOSHUTTLE™ SYSTEM



**"It's a sophisticated system  
but it is easy to use"**

## INTELLIGENT



Radioshuttle™ is prepared for Industry 4.0, WiFi, RFID, and WMS.

Ability to read RFID tags. Tags are used to identify every channel and shuttle placement in the warehouse. Must be combined together with WiFi solutions.

## RAIL

Our patented Radioshuttle™ rail has a wide top opening. This allows the operator to place the shuttle into the structure quickly and easily!

The combination of our high strength rail and Radioshuttle™ poly wheels will result in a structure that lasts for decades.



### The guide rail serves several functions:

- Aiding the operator in loading Radioshuttle™ into the structure
- Guiding pallets into the first position - both vertically and horizontally
- Protecting the rail with several deflection plates

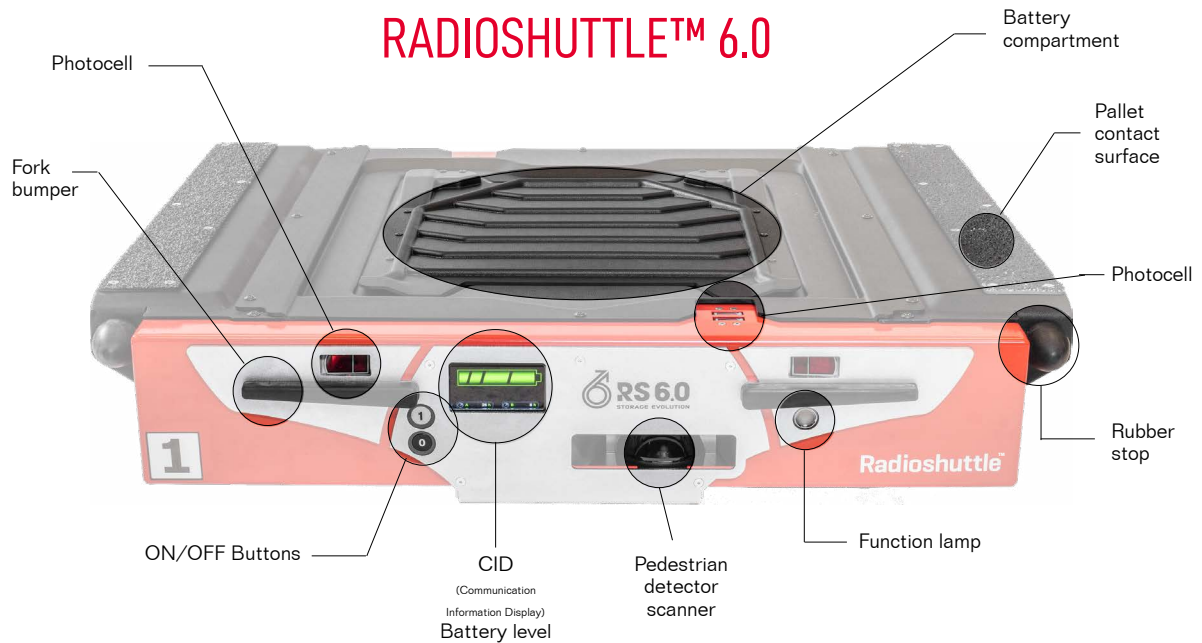


## FASTEST

### HANDLING SPEED ON THE MARKET

- Fast and easy to place Radioshuttle™ – patented rail
- Fast and easy to place pallets – engineered racking details.
- Fast to locate pallets – Construction of Radioshuttle™
- Lift and Go – 1,5 sek lift sequence





## FLEXIBLE AND STRONG

RS 6.0 can handle 3 different pallet sizes and works with almost all kind of pallet types.

Pallets up to 1800 kg can be handle by the shuttle

## REMOTE CONTROL



# OPTIONS



## FRONT POST PROTECTION

**Front Post Protection During Loading and Unloading**

Radioshuttle™ system comes with options for protecting the structure during loading or unloading product at ground level.



## SIDE STRUCTURE PROTECTION

**For outer frame uprights and truck aisles we provide:**

Machine Protection Netting to keep people clear of any storage lanes for continued safe operation. Aisle Upright Protection to protect the entire structure from any accidental bumps during travel along aisles adjacent to the system.

# OPTIONS

## PARKING STATION

Radioshuttle™ parking station is designed to accommodate the Radioshuttle™ when it's not in operation, and when the user wants to move them away from the system. For example in warehouses that operate only 16 hours/day.

Radioshuttle™ can be parked in the rack and also charged without removing the batteries.



## CHARGING STATION

### **Fast , easy and controlled charging of batteries.**

Charging station for Radioshuttle™ gives the opportunity to keep good order on the charging of batteries.

In each charging station there is space for 2 sets of batteries (4 pcs of battery cassettes).

The battery cassettes are placed in a extensible drawer equipped with automatic coupling.

When the drawer is closed the charging starts automatically.

On the front there is a display clearly showing the charging status.



## LITIUM BATTERY

- 40 % lighter than the PB acid-gel .
- 100 % longer run time on every charging cycle, compared to standard lead acid.
- 3 times longer lifetime than the standard lead acid.
- Charges 50% faster than standard lead acid.
- Life cycle cost, is 25% lower than standard lead acid.
- The battery can be charged directly even though it comes from a freezer environment.



## WORK PLATFORM

If the unexpected occur, the work platform will safely take you to the situation.





# An evolution in efficient warehouse management

Fast. Intelligent. Flexible.

-30° to +40° C

24 h

7 days a week



**Fast** - The fastest system on the market.

**Safe** - Certified in accordance to EN 13849-1:2008,

**Intelligent** - High quality components and latest technology gives more flexible handling of different load carriers, Prepared for Industry 4.0, WiFi, RFID, and WMS.

**Robust** - Radioshuttle™ can operate in all temperature zones, from freeze to warm environments. Can handle pallets up to 1800 kg.

**Flexible** - Works with almost all kind of pallet types.

**User-friendly HMI** - Improved Human Machine Interface.

**Proven!** - Continuous development for 25 years, experiences from over 1.200 installations worldwide!



Radioshuttle™ video:



2006/42/EC

EN 13849-1:2008

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