High-speed, high-density storage

The BT Radioshuttle from Toyota Material Handling Europe (TMHE) is an advanced solution that offers the the most effective use of space. The system provides aisle-free storage and is based on the concept of remote-controlled shuttle units working within storage 'tunnels'.

BT Radioshuttle has been adopted by leading companies throughout the world, with over 600 installations.

There is a range of units for different pallet sizes and several units can be easily controlled from one transmitter. BT Radioshuttle delivers the highest available performance standards for this type of solution.

Each unit has rechargeable batteries, is operated by wireless remote control, and can be quickly and easily transferred between different storage locations by a conventional forklift truck. Built-in sensors precisely control shuttle and pallet position in the storage tunnels, to ensure maximum density of storage. The system is suitable for both first-in first-out (FIFO), and first-in last-out (FILO) operations.

'Filling the cube'
If the objective is to maximise use of existing space, or minimise investment in new storage facilities, BT Radioshuttle is the optimum way to drive down costs. Because it utilises available space in a very effective way the cost savings it delivers are impressive – it could even repay the investment within one year of operation.

Also, by using the full height and volume of the warehouse, in many cases, space can be created space for other purposes. Unused space, such as that above galleries or mezzanines, can also be fullly utilised with BT Radioshuttle.

Making the best use of available space is of particular importance in cold stores. Maximising capacity with BT Radioshuttle can contribute significantly to offsetting a cold store's running costs.

BT radioshuttle

1.5 tons
High-Density Aisle-Free Storage

TOYOTA
MATERIAL HANDLING
stronger together

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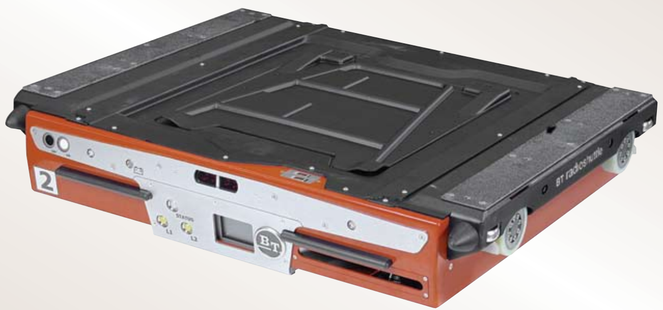

RS 150
- *Max. capacity 1500 kg*
- *Pallet sizes:*
  - *800 mm x 1200 mm*
  - *1000 mm x 1200 mm*
  - *1200 mm x 1200 mm*

Productivity, safety and ease-of-use

Ease-of-use
The BT Radioshuttle provides simple and effective pallet handling within the racking system. The shuttle unit is moved between storage tunnels using a conventional forklift truck, with fork guides under the shuttle unit ensuring safe and accurate handling.

A display on the BT Radioshuttle unit shows control information, including the number of pallets stored in the active tunnel and hours worked by the shuttle, to assist with the planning of battery recharging.

Productivity
The remote control unit allows the operator to control several shuttle units simultaneously, allowing him to focus on other duties while pallets are transported within the racking system. The remote control offers 'one-touch' command of all key BT Radioshuttle procedures.

Pre-selective load and retrieve functions further increase productivity by enabling the operator to make one instruction that will keep the shuttle active for a series of repetitive movements.

High travel speed within the storage tunnels maximises throughput. Signals alert the operator throughout the process with warning lights showing on active shuttles and an audio signal on completion of a work cycle.

The shuttles can be WLAN-prepared, which means they can be integrated in to the local warehouse management system.

An inventory function shows the number of pallets stored in each tunnel on an LED display on the shuttle unit. This display also provides error codes for fast fault diagnosis.

Maximum use of space
BT Radioshuttle automatically allows for load overhang of up to 200 mm, using sensors to ensure optimum spacing between stored pallets, making maximum use of space.

Safety in operation
Warning lights and audio signals on the shuttle units contribute to safety, and this is further enhanced by the built-in personal protection system, which uses laser scanning technology to detect any obstructions and, if necessary, stop movement without physical contact.

Durability for reliability
It is, of course, essential to ensure maximum reliability in this type of storage system. BT Radioshuttle has an excellent track record and experience with over 600 installations worldwide.

Battery life easily allows for a full operating shift and reliability is enhanced with CAN-bus technology used for control functions.

Durability is assured with robust build quality and the benefit of liquid sealing to protect against spillages.

The remote control allows the operation of several shuttle units simultaneously

Fork guides ensure safe, accurate transfer of shuttle units using conventional forklifts


BT Radioshuttle units emit visual and audio signals when moving


BT Radioshuttle installations provide the highest density of storage