

# Dynamic Storage

## Improving order picking efficiency



RediRack's dynamic storage systems can be supplied for use with pallets, cartons and tote bins. Those designed for cartons and tote bins are primarily used in order picking systems where the product is presented to the picker. Dynamic storage broadly encompasses all types of 'Live' racking which includes Pallet Live Storage, Carton Live Storage and Push Back Pallet Storage.

- First-in-first-out (FIFO) stock rotation; ideal for fast moving or perishable goods
- Dynamic storage systems can dramatically improve order picking efficiency and in turn warehouse productivity
- Allows the picker to pick an entire order or multiple orders at the same time.

Live storage systems tend to be used where the picker moves to the product. Live storage offers high storage density and first-in first-out stock rotation, product enters the storage system from one aisle and exits from another aisle or via a conveyor system. In all cases each carton is supported so storage quality is excellent.

- RediRack's pallet racking frame construction allows for a roller bed width of up to 3 metres, and a depth of 5.3 metres.
- Roller tracks can be adjusted in 10.5mm increments across the width of the picking face. In practise we have found that this caters for 99% of all carton and tote bin configurations.
- Speed of throughput is high as goods are presented to the picker therefore order picking errors are minimised as each product line has a dedicated lane.

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## Case Studies



### Nicholl Food Packaging



**Nicholl Food is one of the largest European suppliers of institutional aluminium containers turning out 800 million containers a year.**

During a major refurbishment, Nicholl took the opportunity to restructure their warehouse system, assisted by RediRack, who tailor-made a system of push back and narrow aisle racking to increase the number of storage locations in the warehouse by 33%.

The new system included six runs of push back racking arranged to store the pallets two deep, each run is fifteen bays long and each bay has a clear entry accommodating two pallets. The operating aisles between the runs of racking are only 2.1 metres wide which means that pallet handling is performed by narrow aisle flexi trucks. The rails are bolted to standard rack beams and the trolleys have horizontal tops in welded and bolted construction with ratings from 500kg to 1500kg maximum load.

Peter Reay Operations Director explains. "RediRack's expertise has enabled us to significantly increase our in-house storage capacity. This means we can react to our customers more quickly and provide an even better service."

> [redirack.co.uk/rackit/RI28-4.php](http://redirack.co.uk/rackit/RI28-4.php)

### Christian Salvesen Plc



**Christian Salvesen Plc is a major European logistics business employing 13,000 staff and operating in seven countries. Since December 2007 it has been a wholly owned subsidiary of transport group Norbert Dentressangle.**

One of the company's twelve sites has seen over £2 million worth of investment to keep pace with demand for the services it provides, extending the racking system to provide more storage capacity. RediRack was chosen to supply and install drive-in, drive-through and push back racking that would add over 5000 pallet positions to the facility.

Seven new blocks of racking were added to two cold store chambers, the racking blocks run for nearly 70 metres and rise to just under nine. The drive-in and drive-through racking has either four or five levels, the push back four and is arranged as two blocks of three deep, built back to back giving excellent storage density and improved selectivity.

Mark Pawlett, Manufacturing and Engineering Manager at Christian Salvesen said "RediRack provided a cost effective answer to our racking needs. The installation was swift and seamless and the product is of outstanding quality."

> [redirack.co.uk/rackit/RI38-4.php](http://redirack.co.uk/rackit/RI38-4.php)

### Honda Motor Company, Ltd.



**Honda is the seventh largest automobile manufacturer in the world and has its UK production plant in Swindon, where it assembles cars for the world market.**

At Swindon there has been a programme of continual investment including the extension of an existing narrow aisle storage system to create additional space to store component parts.

RediRack installed the racking which included a block of narrow aisle pallet racking and dynamic storage area. Within the racking block there are 27 bays each having a 2700mm clear entry. The new system stands more than eight meters high with 21 storage levels and is 26m long. The extremely rigid assembly provides a safe and secure storage and order picking environment with more than 1250 picking locations in total.

Honda's Tony Pidgeon explains why they chose RediRack: "RediRack were extremely flexible in their approach to this project. We needed delivery and completion within a very tight timescale, which they achieved - and while they were on site they were very accommodating. At Honda we consider after sales service to be a key consideration and RediRack has performed exceptionally well."

> [redirack.co.uk/rackit/RI21-1.php](http://redirack.co.uk/rackit/RI21-1.php)

### Dynamic Storage At a Glance

Space Utilisation - Up to 80%



Throughput Speeds - High



**Selectivity** - This system is suitable only when a lane can be kept occupied by a single product variant



Handling Equipment - Standard



Stock rotation - Excellent



Safety of Goods - Excellent

