



# dynamic storage

PROVEN SOLUTIONS FROM MORESECURE



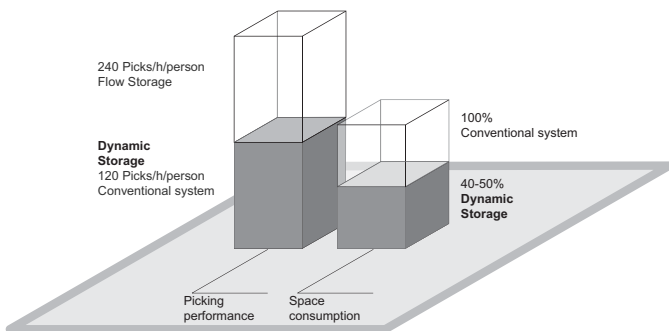
MANUFACTURED IN THE UK





# why dynamic storage?

**cost effective and efficient high density storage  
with excellent space utilisation**



- High density cubic storage saves space - there are no intermediate aisles
- Increased picking performance up to 3 times faster
- Up to 70% reduction in distances travelled by operatives
- No energy or maintenance costs
- No specialised handling equipment required
- Ideal for ambient, chill or cold stores







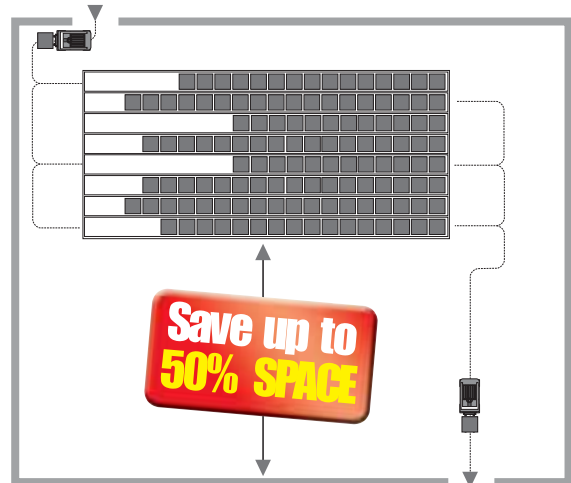
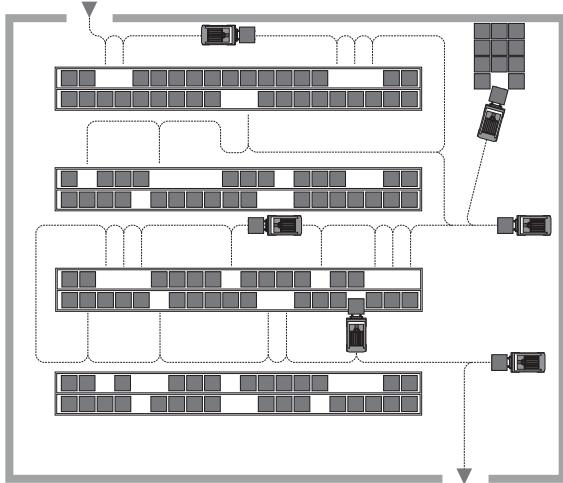
# pallet live storage

**ideal for perishable and time sensitive products  
where lost product means lost profit**

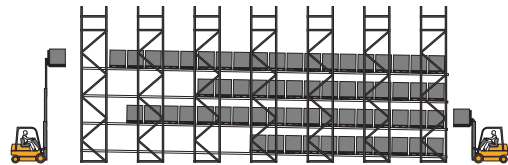
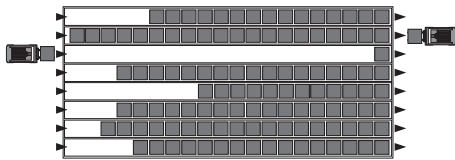


- Fast and cost-effective distribution system for associated products
- High density cubic storage saves space of up to 60% compared to conventional racking
- Lower handling costs, reduced pick distances and times mean fewer forklift trucks
- No energy or maintenance costs
- Guaranteed stock rotation
- First-In First-Out inventory control with flexible selectivity options
- High return on investment (ROI)
- No specialised handling equipment required

# save picking times and space

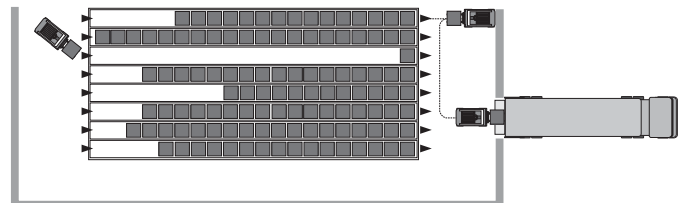
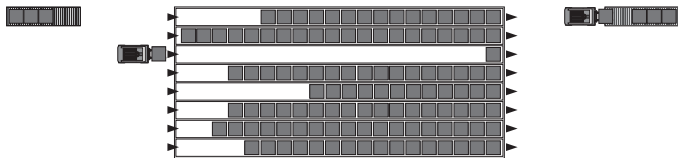


# throughout the logistical process



## First-In First-Out

- Automatic control by date
- Permanent inventory control
- Automatic control by quantity
- Only 2 aisles required



## Buffer

- High density solution that takes up minimal floor space

## Despatch

- For fast loading of lorries
- Each lane contains one vehicle load - mixed pallets can be accommodated



Beam levels at the input face are set at a higher height creating the incline for the pallets.



As pallets are picked a safety separator is activated. This holds the accumulated load of several tonnes and allows only one pallet to flow smoothly and securely to the front face.





Pallets are placed by forklift on a nested cart riding on inclined rails. Each pallet is then pushed back by subsequent pallet loading, exposing the next cart. When removing product, the forklift takes out the front pallet, allowing the pallets on carts behind it to roll gently to the front of the rack. The nested carts make placement and retrieval easy.



### Cart System

- For up to 6 pallets deep
- Accepts standard pallet sizes of mixed quality
- Carts interlock to prevent jamming and to control pallet descent
- Lane full indicators
- Anti-lift device to prevent accidental dislodgement of a cart by the fork lift
- Low profile design allows for extra lift /clearance
- Rigid Cart Design with oversized bearings fitted to solid steel wheels
- Stable and consistent pallet support

### Roller System

- For up to 10 pallets deep
- Full width roller accepts mixed pallet sizes of good condition
- Can accommodate pallets in long way (1200mm in depth)
- One way brake rollers reduce line load (crushing), control pallet flow and act as a principal safety device in the unlikely event of a pallet jam.





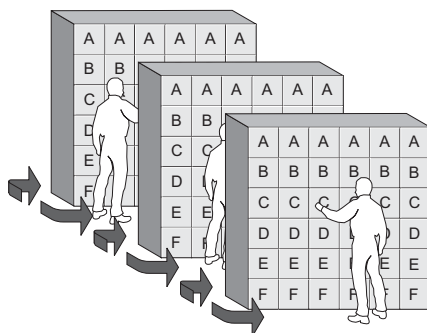


# carton live storage

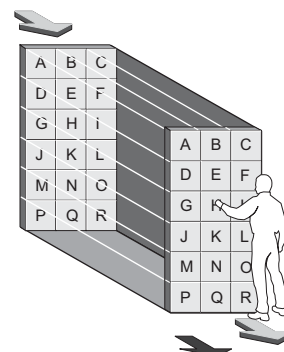
stores and handles cartons, accurately and efficiently on a first-in, first-out rotation



- Increased efficiency with reduction in walking times, increased pick rates and less operative fatigue due to ergonomic design
- High density cubic storage saves up to 30% of space compared to conventional shelving
- No energy or maintenance costs
- Guaranteed stock rotation
- Stock presented 'ready to pick' as cartons automatically move forward to replenish
- Improved stock control with easy monitoring of lane capacity
- Separate loading and picking faces ensure no congestion when restocking



Conventional shelving requires more access aisles and increases walking distances between picks



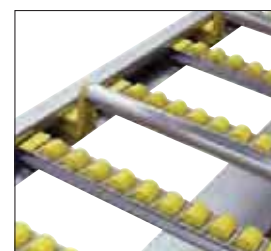
Carton Live saves space and improves picking efficiency



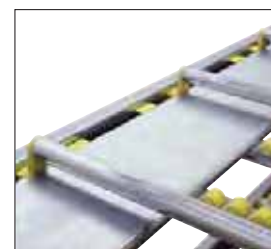
Entry-guides



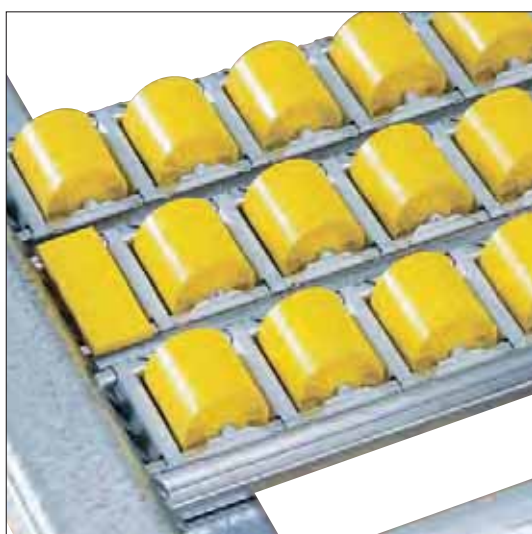
Fixed loading plate



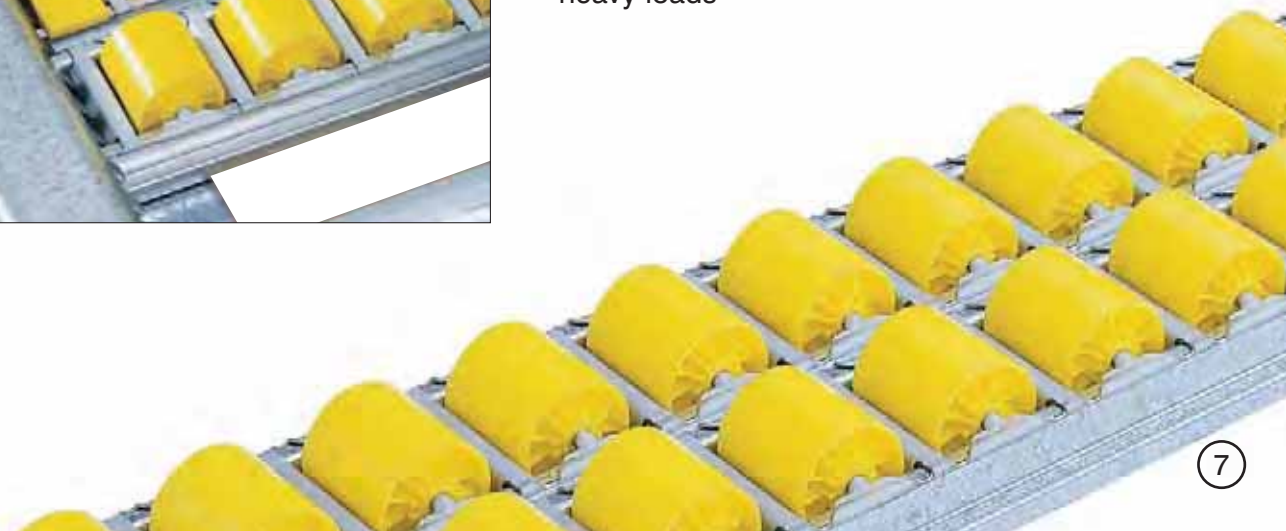
Assembly, disassembly and modifications of tracks and full-length guides require no tools



Removable loading plate and full-length guides



- High capacity polyethylene rollers
- Staggered arrangement of the tracks increases the load capacity
- Track positions can be adjusted in minutes
- Can accommodate cartons as small as 100mm
- Unique design stops track from opening under heavy loads







# push-back racking

high density dynamic storage coupled with selectivity  
for faster pick rates



- Push-back racking allows for the storage of up to 10 pallets deep
- Pallets are loaded onto wheeled carts or rollers and are pushed back along inclined beds. When a load is retrieved the remaining pallets roll forward into position at the picking face
- Requires only one loading/unloading aisle
- Stock Keeping Units (SKU's) can be kept on different levels or lanes for easy access
- Unlike Drive-In racking, each level is independently accessible for further selectivity
- No specialised handling equipment needed
- Less rack damage when compared to Drive-In as trucks do not need to drive in rack as product rolls to the pick face

## High Density Storage

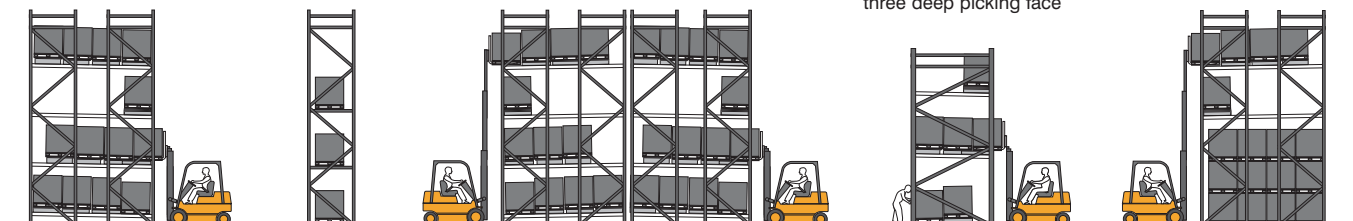
Push-back racking can be used to provide additional storage space in otherwise unusable areas such as above cross aisles or around dock levellers. When fully utilised, very high occupancy rates can be achieved when compared to drive-in racking or block stacking.

Four deep against a wall

Four deep back-to-back

Two-tier three deep reserve above three deep picking face

Two-tier four deep above block stacking against a wall







Live Storage used for marshalling pallets

- Integrated entry guides ensure pallets are loaded parallel in the roller lane
- Self energised integrated speed controllers ensure pallets roll at controlled speeds of 0.3 m per second
- Safety separators guarantee precise and careful separation of the pallets for safe unloading

Standard unloading module



Standard loading module with entry guides

### Safety Separator

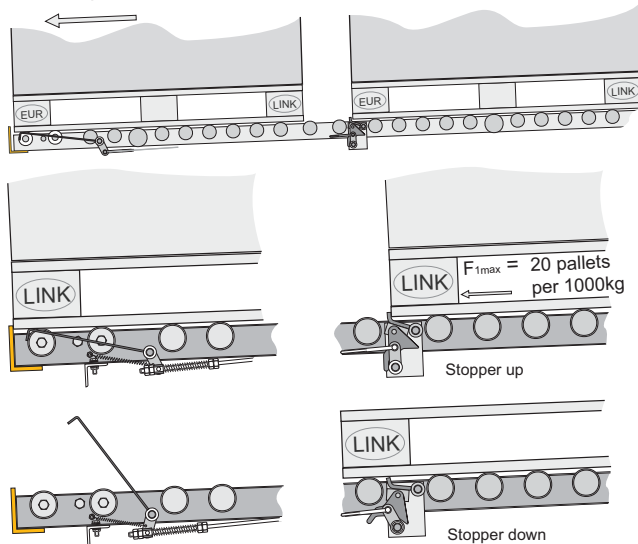
The function of the separator is to isolate the picking pallet from the loads of accumulated pallets. This function is essential to safely remove the pallet from the live storage system. This is a mechanical system that operates when a pallet is in the picking position. The system is a stop across the width of the lane, activated by a wide pedal located at the end of the lane. Release is either automatic, by foot or with a delay mechanism.

Separator in loaded condition relieving lane pressure from first pallet, thereby allowing safe access for retrieval.

The front pallet depresses the safety separator paddle and pushes the stopper up, stopping the following pallet.

When the paddle is in the normal position, the stopper is lowered allowing pallets to the end of the track.

#### Gravity Flow Direction





# storage solutions

Dynamic Storage is only one element in our comprehensive portfolio. We can also provide:-



**COMMERCIAL AND FILING SOLUTIONS**



**PALLET RACKING**



**GARMENT HANGING**



**INDUSTRIAL STORAGE**



**MULTI TIER SHELVING**



**SMALL PARTS STORAGE**



**HEAVY DUTY STORAGE**



**MUSEUM & HERITAGE STORAGE**



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