



# CARTON LIVE STORAGE

**stow**  
one brand, one company



The high quality dynamic storage system for  
the order picking process

# CARTON LIVE STORAGE

Carton live is stow's dynamic storage system that offers many advantages in the order picking process:

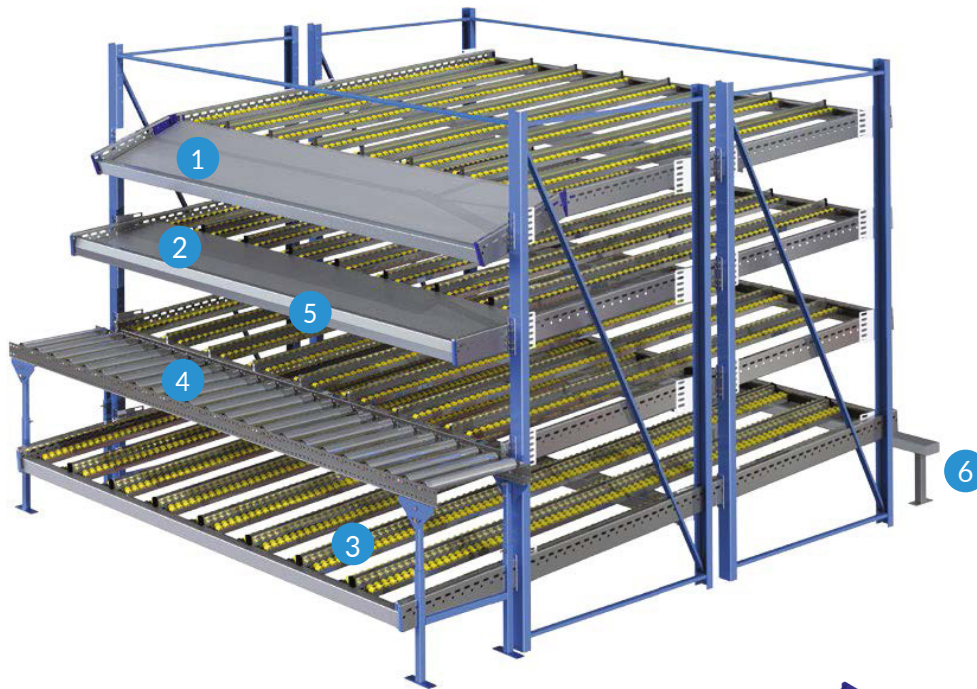
Reduced walking distances

First-in / First-out stock rotation is guaranteed with carton live

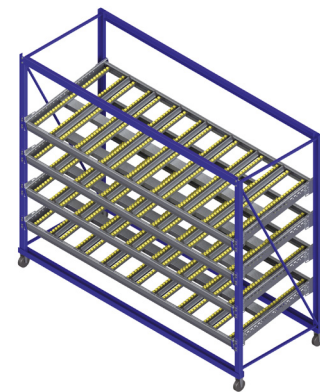
Carton live saves space by eliminating walkways

Picking speeds and productivity will improve with carton live

The standard minirack® or pallet racking system can be equipped with flow-beds with built-in roller tracks. Using the general adapter profile, which is fixed on front of each upright, the roller-beds can be adjusted in height to guarantee the optimum slope.



1. Flow racks with a 15° picking tray (300 mm, 400 mm and 600 mm deep)
2. Flow racks with a 5° picking tray (300 mm, 400 mm and 600 mm deep)
3. Straight Flow racks
4. Height-adjustable sliding roller conveyor
5. Bar-Code and identification strips
6. Steps for convenient picking



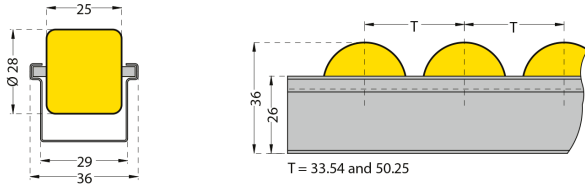
## ( CLEAR BENEFITS FOR EVERY APPLICATION )

- › Complies with the European FEM and EN regulations quality assured to ISO 9001.(BQA N° 019 QMS)
- › Computer aided design ensuring the best solution for every application, including static calculation

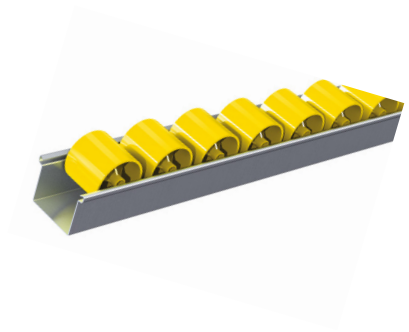
- › All components have been thoroughly tested in specialized laboratories.
- › Fully automated production to a high quality standard and in a cost-effective way

## ROLLER TRACKS

The roller tracks are used in a number of combinations, depending on the carton sizes, the quality of the carton and the weight. The roller beds are developed to allow a maximum flexibility in the positioning of the tracks. They can be installed at a very small pitch.



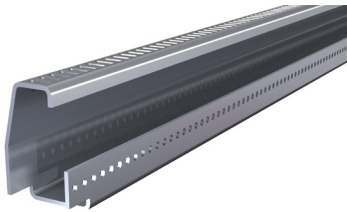
Steel axles ( diam 3 mm ) ensure track rigidity and long service lives !



## OTHER SYSTEM COMPONENTS

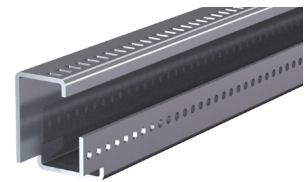
### PICK PROFILE

The removal profile is reinforced and more stable, which means that the largest possible rack width is guaranteed even with heavy loads.



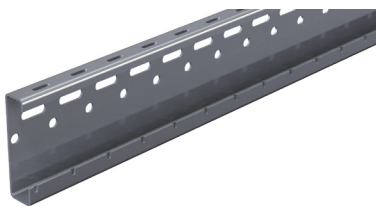
### LOADING PROFILE

The feed profile has been designed such that it provides stability to the continuous flow bed while at the same time having a low construction height.



### SIDE PROFILE

The side profiles are connected to the cross members and the feeding and removal profiles without using screws.



### CROSS MEMBER

The cross members are for stabilizing the continuous flow bed. Additional cross members increase the load-bearing capacity of the rack. Cross members are mounted without using screws



## CONDITIONS FOR SMOOTH TRANSPORTATION OF CONTAINERS OR BOXES

- Individual containers may weigh a maximum of 30 kg.
- The containers must be stable and their bases must be flat ( no cross ribs ).
- Cardboard boxes must be closed, as open flaps can get jammed.
- In general, the roller pitch is 33 mm; with containers that have a depth of more than 500 mm, the pitch can be 50 mm.
- If you intend to transport standardised containers, it is recommended to have a fixed channel width and to use separators. If the container sizes are different, a roller carpet without channel separation is more suitable.

## NUMEROUS ACCESSORIES

- Brake clips to control the speed of the carton
- Lane separators at entry or along the full depth
- Roller protection and integrated stops
- Ergonomic presentation tables



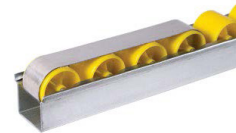
Entry guides



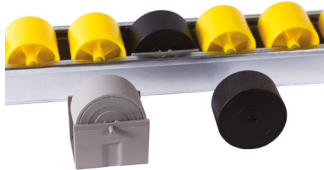
Full length guide rail



Push-back blocker



Brake plate



Mini brake



Wheel flange

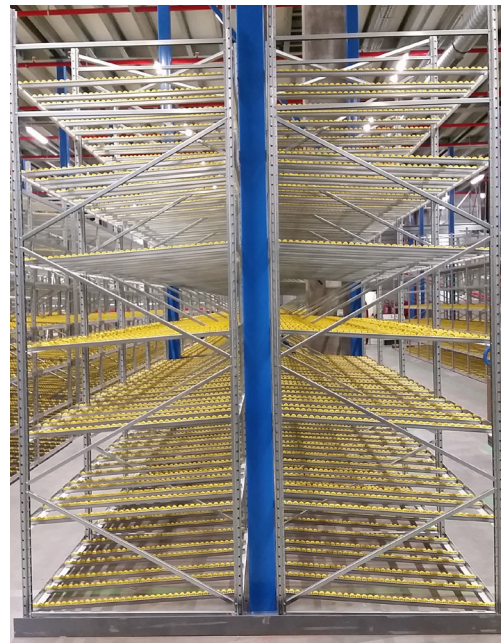
## ORDER PICKING SYSTEMS

For ergonomic picking the roller-beds can be equipped with a presentation table. The angle of the presentation table is adjustable so that the best access to the goods can be obtained. The powered picking conveyor can be integrated in front of the racking.

A pick-to-light system is another attractive option to improve productivity and reduce picking errors.

In any case it is recommended that a prototype using the customer's cartons or totes is set up to optimize the construction.

In some cases full width roller tracks are needed to ensure a smooth operation. This is particularly needed for totes without a flat bottom.



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## ORDER PICKING FLOW SYSTEMS

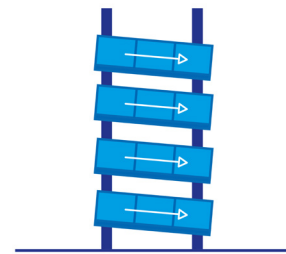
Working on a rational basis is essential in order picking – both for the company and for its employees. The company saves money, and employees have less strenuous work to do. Order picking flow systems, which are structured on the picker-to-part principle, optimize processes in several ways.

### DIFFERENT APPLICATIONS POSSIBLE

#### STRAIGHT DESIGN

In case of the straight design, the individual continuous flow beds are placed precisely one above another. This means that they start at the same point and are of the same length without being at an oblique angle at the end. This alignment is particularly suitable for complete storage units with viewing ports that pickers can recognize at a glance which is the article in question.

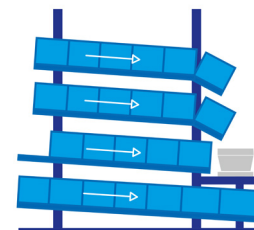
**Advantage of this design:** *Optimal use of space.*



#### DESIGN WITH A CONVEYOR SYSTEM

In this case, a roller conveyor is fitted on the picking side, which makes the work of pickers easier if they have to remove different goods on one line.

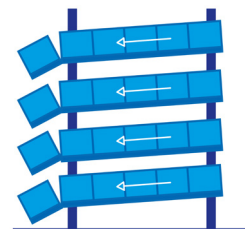
**Advantage of this design:** *It makes rapid ergonomic working possible, since it is not necessary to place goods on separate picking carts; the picking goods are transported on the conveyor to the shipping zone.*



#### ANGLED PRESENTATION DESIGN

The continuous flow beds are of the same length; however, with this design, the removal side is at an angle, which makes it easy to access and view the goods. The angled design is particularly suitable for medium-sized containers.

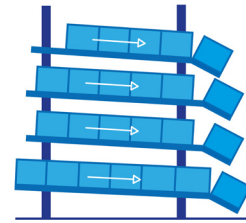
**Advantage of this design:** *Optimal use of space is combined with ergonomic access for pickers*



## ANGLED, OFFSET PRESENTATION DESIGN

The continuous flow beds are of different lengths, which means that they are offset slightly from the top to the bottom in each case. With angled racks, it is possible to easily recognize and remove even large goods in this way.

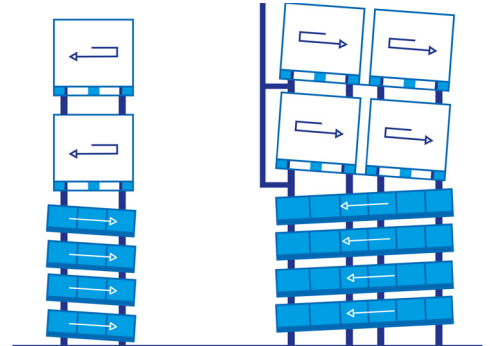
**Advantage of this design:** *It makes it easy to access large containers.*



## ORDER PICKING FLOW SYSTEM WITH PALLET STORAGE SYSTEM

Using universal adapters, it is possible to integrate order picking flow systems into existing pallet racks. This makes it possible to adapt existing storage technology to different goods ranges and needs.

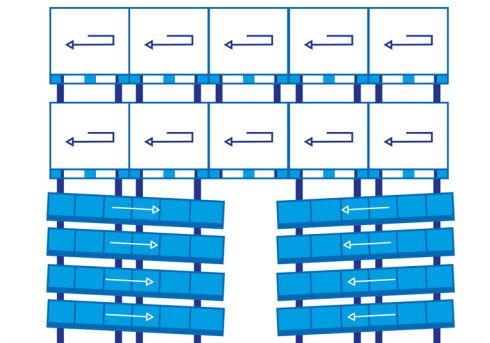
**Advantage of this design:** *A relatively small amount of space is needed, fast moving goods can be retrieved quickly. Pickers removing goods from pallets do not get in the way of the staff on the continuous flow racks.*



## FLOW SYSTEM WITH ORDER PICKING TUNNEL AND PALLET STORAGE SYSTEM

Two carton flow systems face one another in such way that this results in a picking aisle in the middle - the order picking tunnel - in which the goods are removed. The insertion or flow buffer store is located above the carton flow beds and the passage.

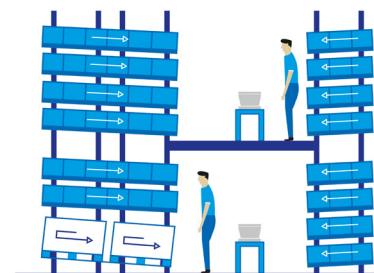
**Advantage of this design:** *The existing storage space is used perfectly, there are separate routes for pickers and pallet traffic.*



## MULTI-LEVEL ORDER PICKING FLOW SYSTEM

In high stores, multi-level order picking is possible on several levels. Conveyor sections in the order picking area make work and goods flow easier.

**Advantage of this design:** *Good use of space and, if required, more pickers can be added to increase picking volumes. Separate routes for feeding and removal guarantee smooth workflows.*



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# we rack the world

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