

# A **BIT** OF EQUIPMENT FOR WAREHOUSE SOLUTIONS.

Book a meeting to exchange ideas.

(B) +32 (0)3 870 99 00 - (NL) +31 (0)30 711 30 90



# A BIT OF US.

## We are committed to your success.

Providing products and services are essentials of each business. What makes us unique is our long-standing expertise, our service principle of meeting customers on a level playing field, our passion for quality and pleasure in performance.

Take a look at the broad scope of racking and bins supplied in our reference projects and explore your options!

In this special edition we focus on the solutions in DISTRIBUTION OPERATIONS whether it is in your own organisation or as a service provider. We would like to offer you a guide through the world of material storage and handling packed with the latest trends, firsthand experience, helpful suggestions and practical solutions.

We can either cooperate to develop fresh ideas for greenfield situations, but also help to tune and tweak existing operations.

Our specialists will be happy to assist and work alongside you at every stage of the project, starting with an on-site analysis of requirements through to ongoing support after completion.

Don't hesitate to test our capabilities,

### **Stefan Nicasie**

Managing Director BITO Systems nv.

Continue reading this brochure and discover some of our wide range of bins and rack solutions.

Whether you need traditional technology or an automated system, BITO will advise you on the right choice and supply.



**Stefan Nicasie**  
Managing Director  
BITO Systems nv



# YOUR CHALLENGES.

Today, companies face huge challenges in trying to optimise logistics processes.

BITO manufacture the full range of shelving, racking and load carriers. The wide choice of components and options mean we are able to design a racking installation that suits your needs.

Installations can be configured to make best use of space available, including the height of the building.

In the field of **person to goods piece picking**, you can organise a dedicated shelf picking area with a continuous structure over multiple floors or choose for a mezzanine floor with adjustable standard shelving.

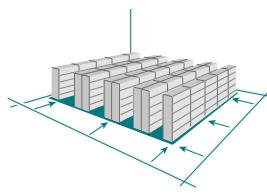
It makes sense to evaluate the required level of investment versus the benefits of improved picking speed. Each setup needs to balance the effort required for picking with that required for replenishment. Being able to predict picking and replenishment times is hugely beneficial.

We as BITO see much value in combining shelving, flow racks and even full pallet positions in the setup. We also present you solutions to optimise the picking in the ground level of your pallet racking.

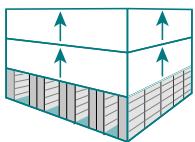
Pallet racking installations that are serviced with reach trucks or narrow aisle trucks have specific characteristics and safety requirements. BITO offers the full service of design, installation and ongoing inspections for your peace of mind. We also have a long history of bringing a wide range of excellent quality bin solutions to market. Our most famous nestable MB container, used in the picking process and distribution has set the standard.

In the field of **goods to person** BITO is an important partner for many system integrators supplying shelving and racking hardware to many of them.

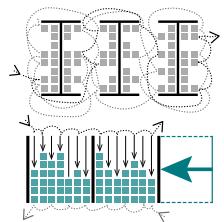
In addition to the above solutions, we also have a strong program of load carriers, including load carriers that are used in Autonomous Mobile Robot (AMR) projects.



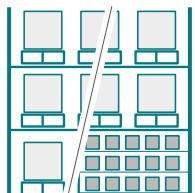
GAIN SPACE BY  
OPTIMISING STORAGE.



REDUCE WASTED SPACE  
BY INCREASING THE  
HEIGHT OF STORAGE.



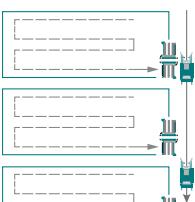
GAIN TIME BY  
REDUCING PICKING TIME.



CREATE MORE PICK LOCATIONS  
ON GROUND LEVEL.



IMPROVE PICKING PERFORMANCE  
WITH BETTER ERGONOMICS.



SPEED UP PROCESSES  
WITH AUTOMATION.

# JOIN THE BITO WORLD OF MATERIAL STORAGE AND HANDLING.

Whether you need to store bulky and heavy loads, small items, hazardous goods, parts and components, whether your warehouse is manually operated or fully automated, the BITO portfolio offers material storage and handling solutions for any requirement.



## Racking-Systems.

Storage and picking solutions  
for conventional and automated environments



## Bins Systems.

Wide assortment with many interesting features.



## Own small transport robots.

BITO LEO transporter - easy start-up, low-cost, amazing capabilities.



## Digital solutions.

From monitored cold transport, digital location displays, IoT.

You can find  
examples of applications  
on our website.  
[bito.com/references](http://bito.com/references)





#### **BITO SHELVING & RACKING ...**

... for small, large, lightweight and heavyweight, bulky or long goods, for load capacities ranging from 50 kg to 4.5 tonnes per storage level is designed and manufactured in our plant in Meisenheim.

#### **OUR PRODUCT RANGE ...**

... includes conventional shelving, longspan shelving, pallet racking, cantilever racking, mobile shelving and mobile pallet racking, multi-tier solutions, carton and pallet live storage systems as well as automated racking solutions.

#### **WE RELY ON STATE-OF-THE-ART TECHNOLOGY ...**

... for manufacturing BITO shelving and racking – without any exception. Profile forming and shelf production are carried out with the latest edging, punching and bending machines. This is complemented by the high degree of automation, which ensures dimensional accuracy and consistent quality.

Europe's most modern production plant for pallet racking has been in operation in Meisenheim since 2008.

All components of BITO pallet racking are manufactured in a hall that was purpose-built to accommodate

the new production lines. Automation guarantees safe and smooth manufacturing processes and a fast order throughput.

#### **OUR BINS & CONTAINERS.**

... are manufactured in our plant in Lauterecken in a wide range of varieties ranging from storage, distribution and order picking bins and containers to trays for AS/RS systems for use in any industry and for almost any application.

#### **CUSTOMER SPECIFIC DEMANDS ...**

... can be met without any problems. Customer focus and application orientation are top priorities for our R&D engineers. They coordinate the introduction of a new bin from the first steps of development to the three-dimensional digital model and optimise prototypes until they are ready for serial production on powerful, cutting-edge injection moulding machines.

To meet special requirements, our plant in Lauterecken offers additional options. These include, for example, automatic barcode labelling or container milling and drilling to meet particular fire protection requirements.

# A BIT OF KEY FIGURES AT A GLANCE.

> 411

Mio Euro  
Group turnover in 2023.

> 178

Years of experience.  
Including over 60 years of  
logistics experience.

3

Production plants.

19

Subsidiaries worldwide.

> 1300

Employees.

BITO production site Meisenheim, Germany.



BITO production site Lauterecken, Germany.



BITO production site Zimna Wódka, Poland.



# GLOBAL PARTNER.

BITO projects have no limits.



## Our service.

"A future-proof logistics system should not only be adapted to a company's current specific requirements, but also offer the possibility of responding quickly and flexibly to changes. It must be able to grow with the company, and we know which keys to strike to achieve this goal. We design systems for small craft enterprises, start-ups, fast-growing e-commerce businesses as well as large international projects, e.g. in Australia or North America. We are a global player with a wide product range and a high vertical range of manufacture. We are one of the few suppliers in the industry to process both steel and plastics and have extensive experience with live storage systems."



### DIRECT

Easy ordering  
fast delivery.



### ENGINEERING

Partner for  
Logistics Integrators.



### SOLUTIONS

Turnkey solutions from  
Design to Handover.

# CUSTOMERS AROUND THE WORLD OPT FOR **BITO** AS THEIR PROJECT PARTNER.

What further distinguishes BITO is competent advice and support. Regardless of whether a customer wants to have a new logistics centre fitted out with all the necessary equipment or needs advice on the purchase of a single shelving unit – our focus is always on competent and customised information. We place particular emphasis on customer communication.

To us, a partnership means more than to deliver our products. Based on competence and many years of experience, we are able to adapt our solutions to the individual needs of our customers and help customers to be more successful with the right warehouse and logistics solution. By focussing on our core competence we help our customers focus on theirs.

We place particular emphasis on effective communication and proximity to our customers. A large network of field staff enables us to be on site at our customers' premises quickly and without the need for long journeys. And not only throughout Germany.

Over the years, 19 subsidiaries have been founded in almost all European countries, plus one each in Dubai, the USA and Canada, to serve our international customers.

## WE ACCOMPANY AND IMPLEMENT PROJECTS ACROSS THE GLOBE – FROM SMALL TO LARGE.



On-site advice.



Service &  
Racking inspection.



Research &  
Development.



Assembly.



Conceptual design &  
Structural analysis.

We do not like to do things  
by halves. At BITO, you get  
the full service.



Transport &  
Logistics.



Project  
management.



Products from  
our own plants.



### **Assembly.**

If you are short of time or staff to set up your shelving or racking installation, we will be pleased to assist you with a certified and experienced assembly team led by a BITO supervisor to guarantee the smooth, professional and safe installation of your system.



## Quality products and customer service.



### **After-sales service & Racking inspection.**

Of course, we want your warehouse operations to run as smoothly and safely as possible. This is why regular racking inspection is essential and required by law.

Warehouse operators must have their racking systems inspected at least every 12 months. For your peace of mind, our BITO racking inspectors provide a carefree package.

The BITO racking inspection service is carried out in compliance with the legal regulations under EN 15635.

Any defects discovered during the racking inspection must be repaired within a rectification period to restore racking safety.



# A BIT OF SUSTAINABILITY.

With sustainable (logistics) solutions, we don't just think about today, but about tomorrow.

97%

In 2022, we recycled 96.76% of our waste.

12% & 20%

less energy needed for our new injection moulding machines.

60%

of lighting energy is being saved by replacing traditional lighting sources with LEDs.

> 1 million

kwh/a

of solar energy will soon be generated in our plants at Meisenheim and Lauterecken.



## ACTING SUSTAINABLY ...

... is a process that starts with a new mindset and is implemented through innovative technologies throughout the entire supply and value chain. We believe that the careful selection of raw materials, resource and environmentally friendly processing methods, sustainable materials and logistics as well as the involvement of our customers are important prerequisites. As experience shows, sustainable development and economic growth are not conflicting values. On the contrary, they promote innovative strength and performance, help to achieve a balanced price-performance ratio, promote fairness in business with staff, suppliers and customers, and create awareness for environmental and social concerns.



# TABLE OF CONTENTS.

A <b>BIT OF</b> US, who we are & what we do.	Page 2
A <b>BIT OF</b> Multi-system storage solutions.	Page 13
A <b>BIT OF</b> Single tier & Multi-tier shelving.	Page 14
- Multi-tier shelving.	Page 18
A <b>BIT OF</b> Carton live storage item picking.	Page 22
A <b>BIT OF</b> Pallet racking solutions.	Page 26
- Retro-fitting in pallet racking.	Page 32
A <b>BIT OF</b> Pallet live storage.	Page 38
A <b>BIT OF</b> AMR racking & robot picking.	Page 42
A <b>BIT OF</b> our LEO Autonomous Transport System.	Page 44
A <b>BIT OF</b> Plastic bins.	Page 46
- Sustainability.	Page 47
- Our bins at a glance.	Page 48
- Goods-to-Person solutions.	Page 50
- Person-to-Goods solutions.	Page 54
- Nestable bins.	Page 58
- Foldable bins.	Page 61



# MULTI-SYSTEM STORAGE SOLUTIONS.

Functional and **efficient order picking warehouses** are rarely **mono-system warehouses** in terms of organisation, strategy and racking equipment. From an economic point of view, **a mix of different strategies and material handling equipment** will usually achieve the **optimal result**.

Shelving and pallet racking are being used in almost every warehouse. They make a significant **contribution to streamlining work-flows** and increasing picking performance.

The design criteria for the suitable shelving systems are largely determined by the number of SKUs, stock level per item, item size and the number of items leaving the warehouse per defined period of time.



# SINGLE TIER & MULTI-TIER SHELVING.



A large product portfolio on a small footprint.

#### MODULAR AND SCALABLE.

- ✓ Customizable to all kinds of products.
- ✓ Combines various shelf and bay load requirements.
- ✓ Can be adapted or extended to address peaks and growth  
ideal for handling varying/seasonal product lines.

#### OPERATIONALLY EFFICIENT AND COST EFFECTIVE.

- ✓ The investment costs amount to only a fraction of the sum that has to be invested in an automated system.
- ✓ Lower operating costs.
- ✓ Higher order throughput, as orders can be picked on several levels at the same time.



#### COMPACT AND SPACE-SAVING.

- ✓ Optimum utilisation of cubic space.
- ✓ Maximum floor space utilisation.

MULTI-LEVEL FACILITIES WITH INTEGRATED PLATFORMS AND CATWALKS ARE MAINLY USED FOR STORING AND PICKING NON-PALLETISED LOADS, SMALLER COMPONENTS IN BINS OR CARTONS, UNPACKED ITEMS AND BULK GOODS.

It is suited for storing almost all kinds of items. Multi-tier shelving makes optimal use of your warehouse cubic space and at the same time multiplies expensive floor area. Simultaneous picking at different levels can speed up order throughput many times over. The individual levels are connected by stairs or elevators.

## Advantages of the system.

### HUGE INCREASE IN STORAGE CAPACITY.

Multi-tier facilities **increase space** utilisation by making **full use of the available headroom**, thereby maximising storage capacity in your existing building.



### MODULARITY AND FLEXIBILITY.

Coping with peak demand during the holiday season or after special sales promotions is no longer a problem. Whenever demand levels pick up, the number of operators can be increased to assist with high order volumes.

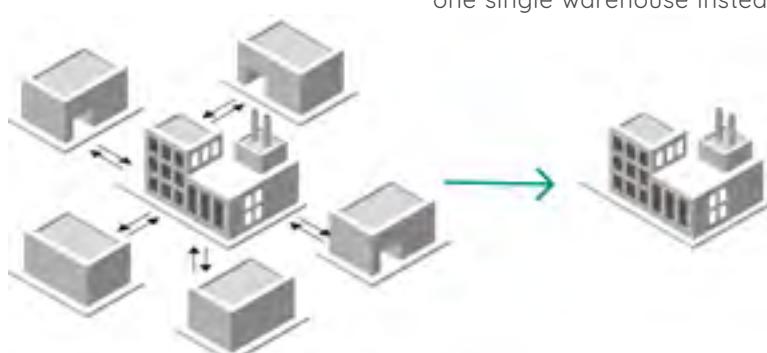
**There is no need to automate** your processes.



### PLENTY OF ROOM FOR MANY PRODUCT LINES.

Any company that has to manage a product portfolio with a large and varying number of product lines faces the challenge of living up to customer expectations. Multi-tier installations offer the flexibility you need for coping with spikes in demand.

Particularly in the e-commerce sector, flexibility is key when it comes to quickly adapting to consumer behaviour and seasonal peaks.



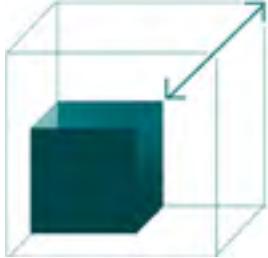
### CENTRALISED WAREHOUSING.

Many companies choose a multi-tier solution to keep their entire inventory in one single warehouse instead of operating several facilities in different locations.

A centralised warehouse will make inventory management easier, eliminate utility expenditures for different warehouses and decrease the cost of shipping between warehouses.

## QUICK ADAPTATION TO NEW REQUIREMENTS.

Multi-level shelving is the optimum solution for responding flexibly to future changes in your product range and to growth. It can be adapted or extended to address peaks no matter when they occur.

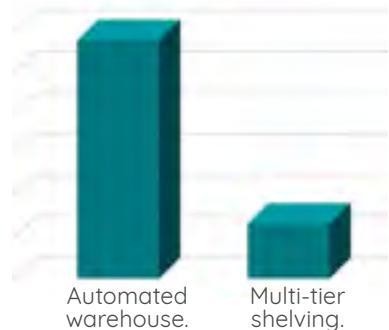


## LOW INVESTMENT COSTS.

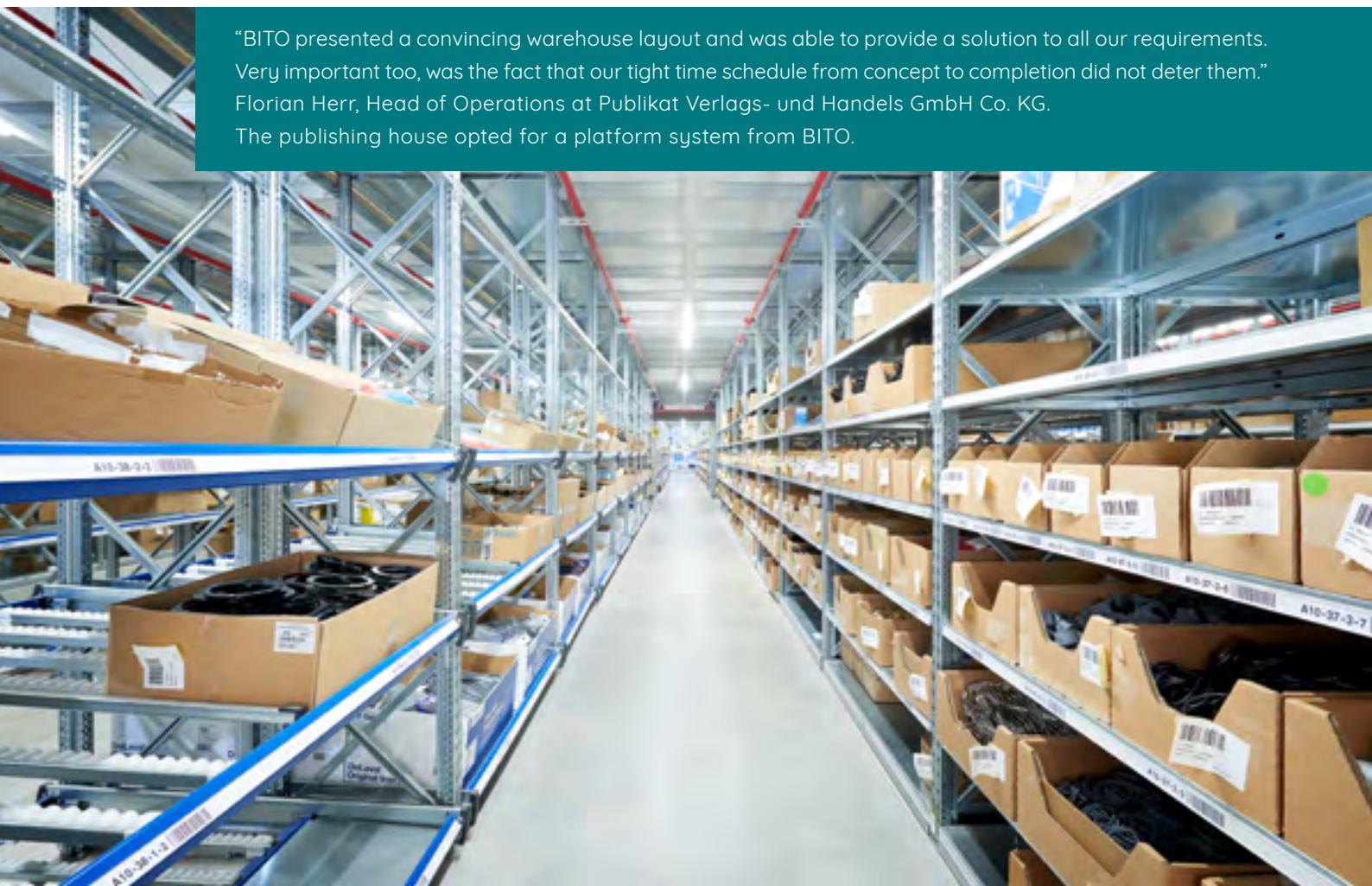
The **investment costs** for a multi-tier system amount to **only a fraction** of the sum that has to be invested in an **automated system**.

**This reduces your financial risk.**

The flexibility of a multi-tier solution will further help you spend less on internal and external logistics.



“BITO presented a convincing warehouse layout and was able to provide a solution to all our requirements. Very important too, was the fact that our tight time schedule from concept to completion did not deter them.”  
 Florian Herr, Head of Operations at Publikat Verlags- und Handels GmbH Co. KG.  
 The publishing house opted for a platform system from BITO.





## Multi-tier shelving.

Shelving systems are mainly used for storing and picking non-palletised loads, loose goods stored in bins and cartons or packaging units that can be handled manually in terms of dimensions and weight. A wide range of accessories can be added later on to this modular system. This allows **efficient storage of almost any product, part or component**.

A well-designed shelving configuration that makes the best possible **use of space will multiply the available floor space** of your warehouse.

**Simultaneous picking** on several tiers helps to considerably reduce order throughput times.

The walkways on the different floors are connected by stairs and/or elevators.

## PRODUCT INFORMATION.

**Frequent application:** Order picking from single tier or multi-tier shelving.

**Service options:** Manual loading and retrieval.

**Storage options:** Goods can be stored short side or long side facing or standing.



## AREAS OF APPLICATION.

- ✓ As supply racking along assembly lines and for intermediate storage in order picking areas.
- ✓ For single item order picking in the service and supply industry.
- ✓ As pick rack in distribution for preparing one-on-one deliveries.



## STORAGE UNITS.

Conveniently sized packaging units, binned or boxed products, individually wrapped items or bulk items.

**Stock rotation frequency:** Medium stock rotation frequency (B-items).

**Stock characteristics:** Any product whether in standard size or with an odd shape, bulky products, unwrapped single items.



## FUNCTIONAL AND VERSATILE.

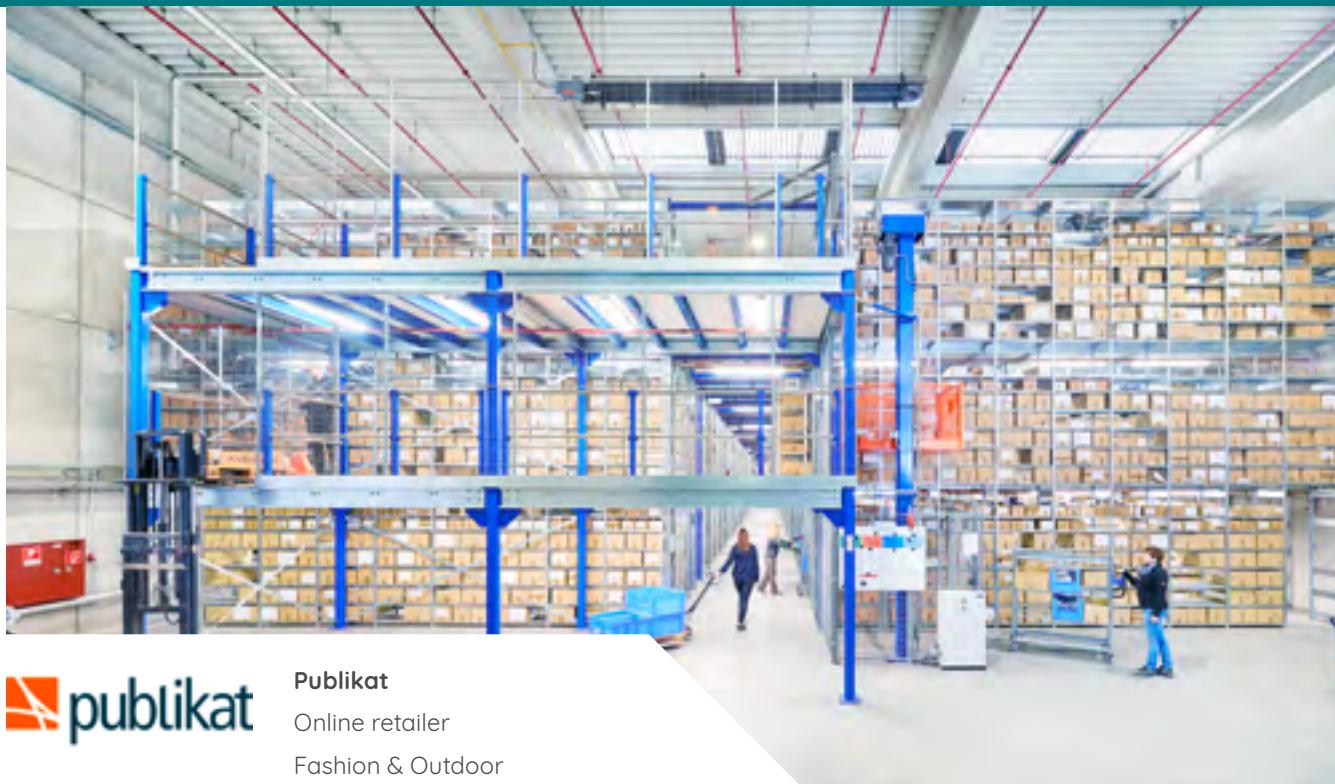
- ✓ Optimal use of space by multiplying the footprint and making full use of the room height.
- ✓ Modular design: additions, modifications or expansions can be implemented quickly and with relatively little effort.
- ✓ Quick expansion of storage capacity for a fraction of the cost of a new warehouse.
- ✓ Fast adaptation of your warehouse to future requirements.
- ✓ Simultaneous and timesaving picking on several levels, resulting in shorter order throughput times.
- ✓ Perfect integration into existing concepts.
- ✓ Additional space for assembly, order picking, storage offices and staff/meeting rooms.
- ✓ Flexible use of space to respond quickly to seasonal fluctuations or to an increase in product lines and orders.
- ✓ Use in production environments, for example to retrofit or maintain machinery.



## STURDY AND SAFE.

- ✓ Loads of up to 1000 kg/m<sup>2</sup> (if enough floor load capacity).
- ✓ Surfaces are painted or hot-dip galvanised to protect the installation from corrosion and environmental influences.

## MULTI-TIER SHELVING.



**Publikat**  
Online retailer  
Fashion & Outdoor

### FEATURES.

- ✓ Two 3-tier shelving installations connected with a 2.5 m wide central aisle.
- ✓ The central aisle is given its excellent stability by a design based on BITO pallet racking components.
- ✓ 300 mm deep shelves for double-deep storage of shoe boxes, 600 mm depth for boxes with clothing.

### CUSTOMER REQUIREMENTS.

Starting out as a start-up in the field of publishing and online shipping of graffiti supplies and books, Publikat Verlags- und Handels GmbH Co. KG, a young e-commerce company from Großostheim, Germany, has grown into Germany's second-largest Adidas online retailer. The rapid growth of the e-commerce company required a many times larger storage capacity. Publikat therefore moved to new storage premises and needed a sturdy shelving system that would offer the greatest possible flexibility in order to be able to respond to the further expected growth with little financial effort. Moreover, the new warehouse was to be furnished during ongoing operations without affecting operational processes.

### BENEFITS.

- ✓ 500 m<sup>2</sup> of new storage surface were gained on the same footprint owing to the multi-tier construction.



- ✓ Optimal use of the cubic space of the new logistics building.
- ✓ Permanently high delivery availability: there are approximately 100,000 different items in stock, and between 3,000 and 5,000 orders are shipped daily - depending on the season.
- ✓ Shelves without sharp corners and edges provide protection for tear-sensitive goods such as clothing.
- ✓ The aisle width has been designed to enable two hand pallet trucks to comfortably pass next to each other.



**M.A.T. Group**  
Wholesale trader

#### FEATURES.

- ✓ Two-level mezzanine construction **with 8 pallet transfer points**.
- ✓ **Expansion** of the storage area **by 1,731 m<sup>2</sup>**.
- ✓ Additional increase in storage capacity with shelving units providing a total surface area of 2,566 m<sup>2</sup>.

#### CUSTOMER REQUIREMENTS.

M.A.T. is a wholesale company founded in 1993. The product range initially included hardware and tools for craftsmen. Since 1999, the product range has been expanded significantly.

Today they are a leading wholesale company in the market segment of hardware, garden products, kitchen products and stoves.

Their portfolio includes more than 16,000 reference lines.

They have their own retail network, 12 stores in the Czech Republic. To create more storage space, **a steel structure platform was installed** in the original floor stacking area which included low-height pallet racks. 8 pallet transfer points were added on the mezzanine floor to streamline workflows and order picking.

The customer opted for shelving units to store small items.



#### BENEFITS.

- ✓ More **storage capacity** as a result of **using the entire height** of the building.
- ✓ Increased work performance.
- ✓ **Cost savings**, as no new warehouse had to be rented.



# CARTON LIVE STORAGE.

## Item picking.

Among order picking installations based on the operator-to-goods principle, live storage is the **ideal solution** for warehouses with **fast moving product** lines. Higher investment costs are more than compensated by improvements in efficiency.

Separate working aisles ensure that stock replenishment does not interfere with order picking. **Order pickers can rely on constant product availability**, as all storage units move unassisted into the picking position.

Straight travel routes enable fast access to all product lines on stock, resulting in a considerable increase in picking performance.

Case studies of carton live storage show drastic savings of between 40% to 70% in travel time compared to conventional shelving, and **up to 30% in occupied floor space**. This makes BITO carton live storage **a cost-efficient solution** for almost any commercial or industrial setting.



BITO carton live  
storage systems.



The BITO carton live rack for item picking in practice at “SK Pharma”.

## Smart ideas to boost picking performance.

### STORAGE IN FIFO ORDER.

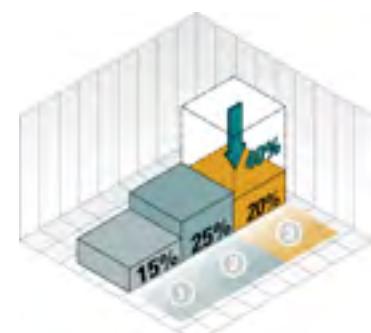
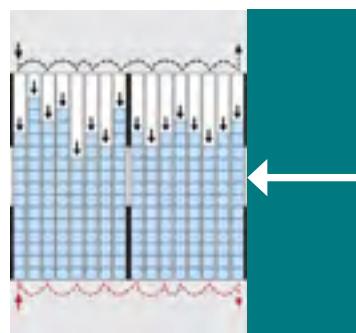
- ✓ Easy control of sell-by dates and production batches.
- ✓ Ergonomic picking curve.
- ✓ Easy stock control, lacking references can be identified immediately.
- ✓ Order pickers never run out of stock.
- ✓ Items move unassisted to the picking face.

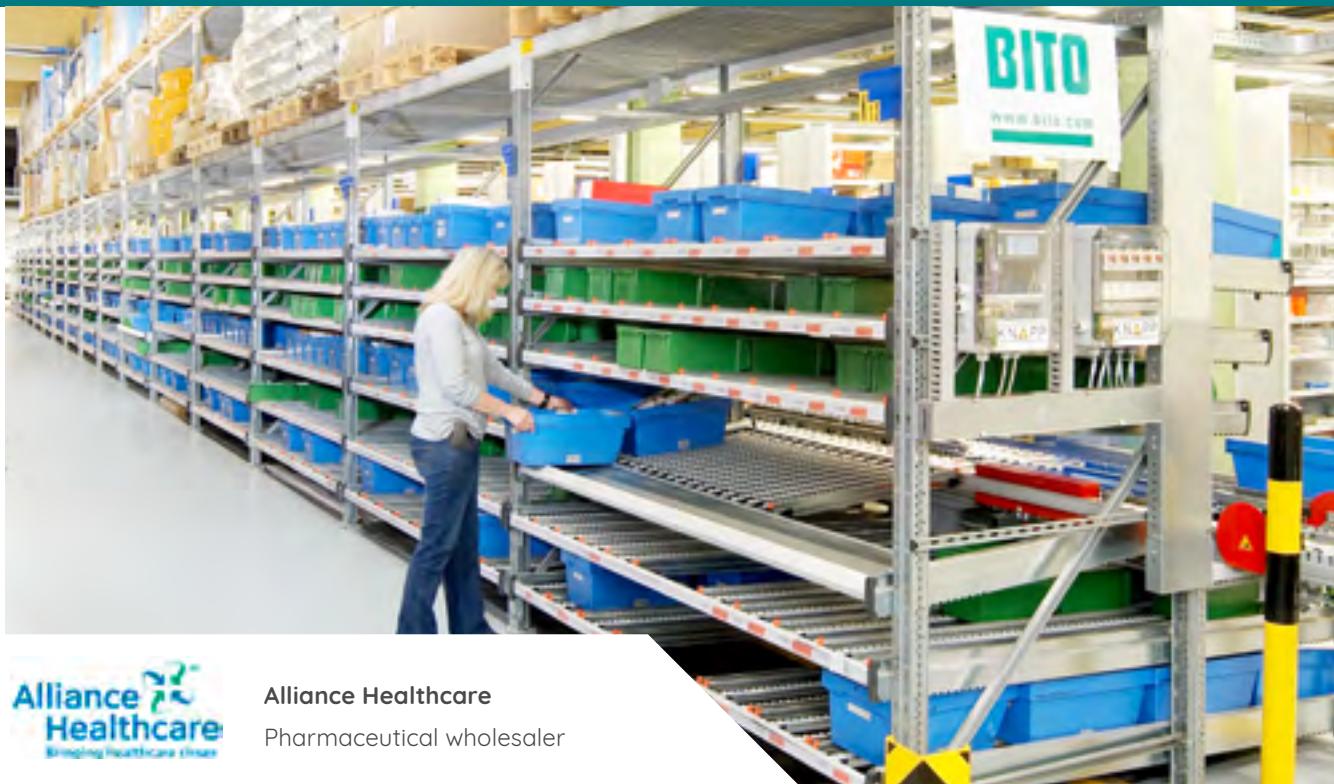
### SPACE SAVINGS.

- ✓ Gain in useful floor space by reducing aisle space.
- ✓ Re-stockers and order pickers work in separate aisles and cannot get into each other's way.
- ✓ Shorter travel routes.

### REDUCED TRAVEL TIMES.

- ✓ Reading/info time (1) no difference to conventional shelving.
- ✓ Picking/access time (2) no difference to conventional shelving.
- ✓ Travel time (3) A two-third reduction in travel time translates into a higher inventory turnover rate.





Alliance Healthcare  
Pharmaceutical wholesaler

## FEATURES.

- ✓ The picking lanes are topped by pallet buffer levels.
- ✓ Integrated conveyors.
- ✓ Combined with boltless shelving.

## CUSTOMER REQUIREMENTS.

Alliance Healthcare Deutschland, headquartered in Frankfurt am Main, is one of the largest pharmaceutical wholesalers in Germany and, with 24 branches, has the most extensive delivery network in the industry.

The logistics centre in Bremen stocks pharmaceutical products in pallet racking which has been upgraded with live storage levels at floor level height in order to increase picking performance. Products are picked in FIFO order and placed on conveyor lanes that connect the order picking zones.

## BENEFITS.

- ✓ FIFO storage.
- ✓ Very good picking performance.
- ✓ High storage density.
- ✓ Short order throughput times.





## Office Depot

Global supplier of office products and services.

### FEATURES.

- ✓ Combination of carton and pallet live storage as well as conventional pallet racking and shelving.
- ✓ Modular system provides flexibility.
- ✓ Pick-by-light order picking.

### CUSTOMER REQUIREMENTS.

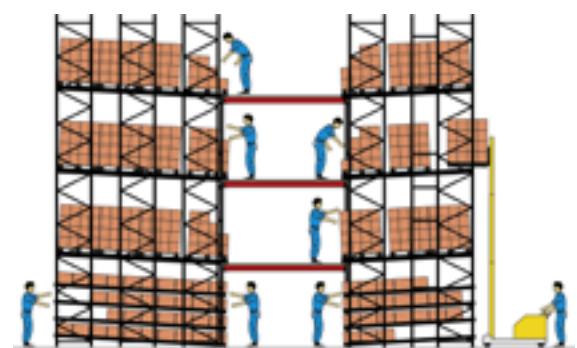
Office Depot is a leading provider of office supplies and services. In the course of business expansion, a new distribution centre has been established in Großostheim. A three-tier facility featuring pallet racking and pallet live storage with an integrated mezzanine floor as well as carton live storage racking with integrated conveyors make sure that order pickers never run out of goods.

The modular layout allows maximum flexibility and optimum adaptation to changing requirements. Order pickers are guided by a pick-by-light system.



### BENEFITS.

- ✓ High throughput.
- ✓ Efficient order picking.
- ✓ Shorter order processing times.
- ✓ Storage and output capacity can be increased at any time.
- ✓ The modular configuration allows optimum adaptation to changing material flow requirements.





# PALLET RACKING.

## Pallet racking.

Despite modern technologies that are increasingly used in warehousing and order picking, “classic” pallet racking is the most commonly used system for goods that are stored on pallets.

**Selective pallet racking enables direct access to every pallet.** Moreover, **the racking configuration can be easily modified** and extended.

Relatively low investment costs and flexibility have made this system essential for storage and order picking.

The most common configuration is multi-position storage with 2 - 4 pallets per bay. On buffer stock levels, pallets are stored short side facing. Order pickers would retrieve entire pallet loads.

If individual packaging units or items are to be picked, pallets are stored long side facing in order to facilitate access. With its practical accessories, the BITO pallet racking system enables optimal storage of a wide variety of storage units.

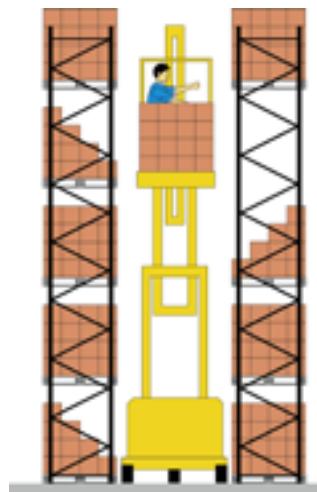
BITO pallet racking  
storage systems.



## NARROW AISLE PALLET RACKING.

**High-bay narrow aisle racking has a double space benefit:** the reduced aisle width **frees up floor space** and the racking height makes **full use of the available headroom**. As a rule, these facilities are serviced with man-operated stacker cranes or turret trucks. This allows convenient **picking of smaller unit loads from all racking levels**. Guide rails or induction lines ensure that the service vehicles run precisely on track.

Narrow aisle storage is **ideal for storing a huge number of reference lines with a medium to high stock turnover frequency**. No relocation of picking stock required. Narrow aisle trucks provide a high level of operational safety, as **no persons are walking in the racking aisles**.

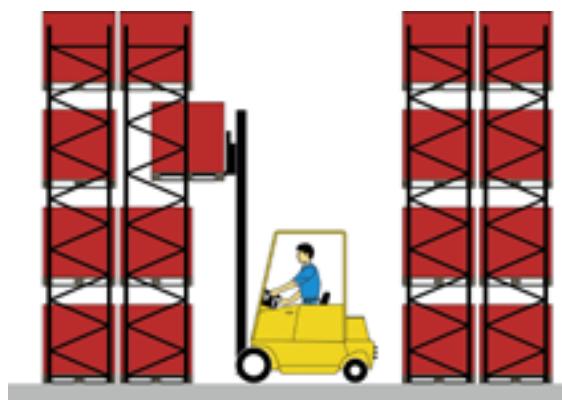


## WIDE AISLE PALLET RACKING.

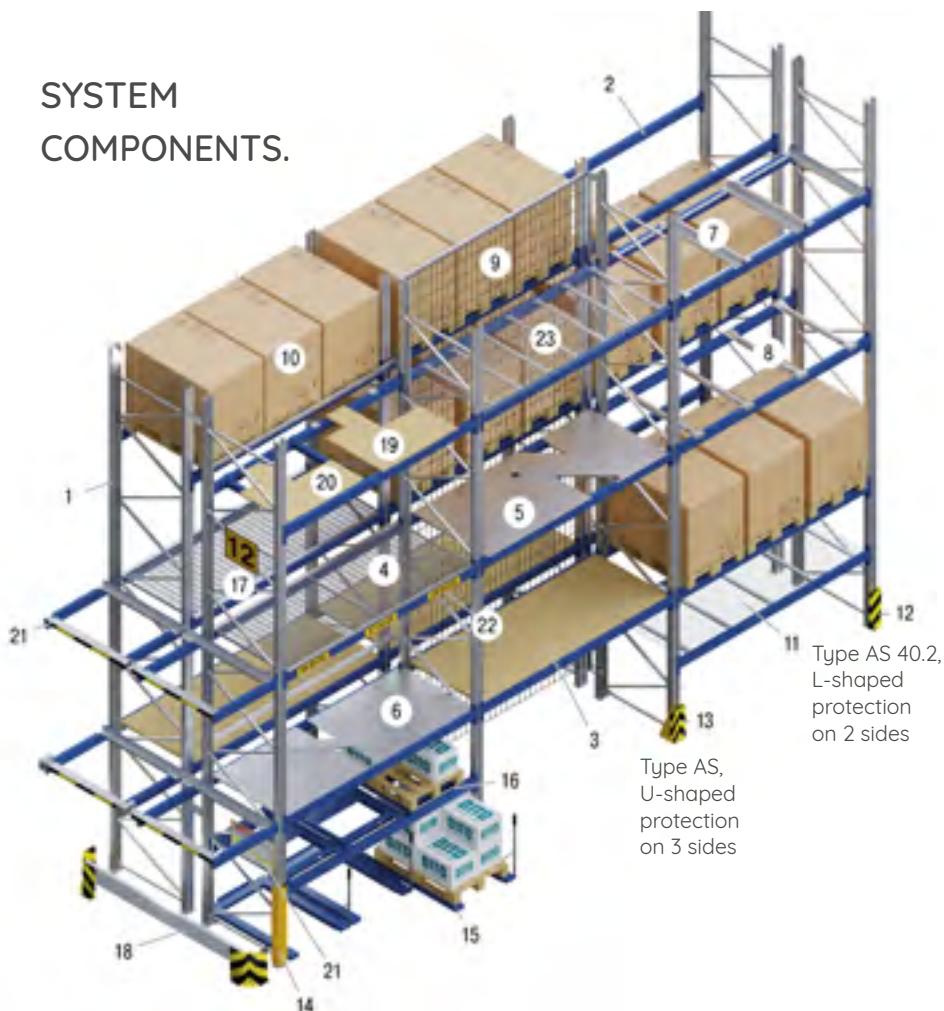
Wide aisle pallet racking is the most commonly used system for storing palletised loads. The racking is serviced with front stackers, reach trucks or order pickers.

The **aisle width depends on the dimensions of the service truck(s) used**. Based on standard components, **wide aisle racking is a cost-efficient, yet versatile solution**.

Another advantage is that it can be serviced with standard service vehicles. Loads stored at floor level height can be conveniently handled with a hand pallet truck or an electric lift truck. Compared to narrow aisle facilities, wide aisle racking has a larger footprint.



## SYSTEM COMPONENTS.



1. Frames
2. TwinTop® beams
3. Stepped beams fitted with drop-in chipboard decking
4. Mesh decking
5. Drop-on steel panel decking
6. Stepped beams with drop-in steel panel decking
7. Support tray
8. Pallet support bars
9. Wire-mesh back cladding
10. Back stop beam/push-through protection
11. Stepped beams with wire decking
12. L-shaped column guard
13. U-shaped column guard
14. Upright protector
15. Floor-mounted pull-out pallet position
16. Beam-mounted pull-out pallet position
17. Aisle tiles
18. Safety barrier
19. Chipboard decking on positioning angles
20. Chipboard decking on support bars
21. Short-side pallet transfer position
22. Pallet location labels
23. Wire decking

### FRAMES

Frames are **delivered pre-assembled**.

All parts are galvanised to prevent corrosion. Sturdy bolt anchors provide excellent stability. The bolt-together construction allows to easily exchange damaged components.



**High-quality bolt anchors** provide excellent stability.



Profiles are available in various height and material thickness options.

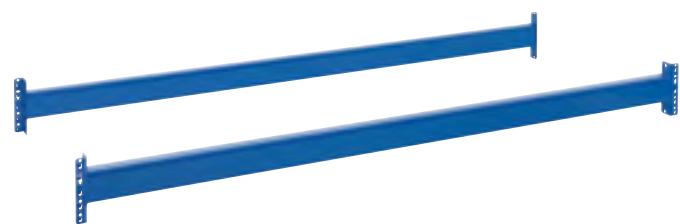


### BEAMS

The easy-to-handle hook-in system allows fast and cost-effective assembly. Robust safety hooks which are secured against loss by a 90° turn prevent accidental lifting of the beams to avoid work accidents.



- ✓ Suited for heavy-duty applications.
- ✓ They provide excellent lengthwise rigidity.



Many profile types available



IGEPA  
Paper wholesaler

#### FEATURES.

- ✓ Pallet racking serviced with man-up narrow aisle trucks
- ✓ Order picking at floor level height, buffer stock on top
- ✓ Customer-specific pallets for dressmakers pattern paper
- ✓ Drop-on timber decking in customised dimensions complies with fire protection regulations

#### CUSTOMER REQUIREMENTS.

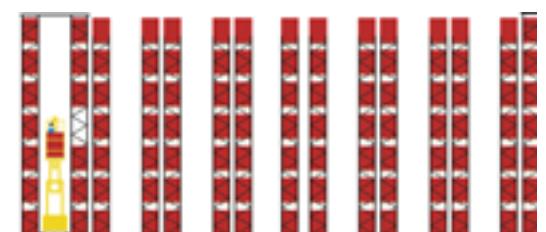
The Igepa Group is one of the leading paper wholesalers in Europe with more than 40,000 customers. The pallet racking facility in their distribution warehouse in Hemmingen handles full pallet loads with man-up narrow aisle trucks with inductive guidance. For large orders, full pallet loads are retrieved from the upper levels. As a rule, however, goods are picked with order picking trucks from the floor level and the first beam level.

With guard railing at the short sides, floor-anchored U-shaped column guards in front of every service aisle upright and walk-through barriers within back-to-back installations, the Igepa facilities comply with the strictest safety standards.



#### BENEFITS.

- ✓ Huge number of pallet positions in limited space
- ✓ Safe working environment despite free-range narrow aisle trucks
- ✓ Heavy-duty timber decking allows to feed in different size pallets



## PALLET RACKING.



**VAN EUPEN**  
IHR LOGISTIK-DIENSTLEISTER

Van Eupen  
Logistics service provider

### FEATURES.

- ✓ Pallet racking used for supplying and buffering products
- ✓ A 3-tier shelving facility supplies small items
- ✓ Manual order picking

### CUSTOMER REQUIREMENTS.

At 17 sites in Germany, Van Eupen provides 100,000 m<sup>2</sup> of storage surface in total, with state-of-the-art equipment for the full array of logistics services.

In their hub in Unna, reach trucks stock full pallet loads into pallet racking and relocate pallets into the order picking area as required.

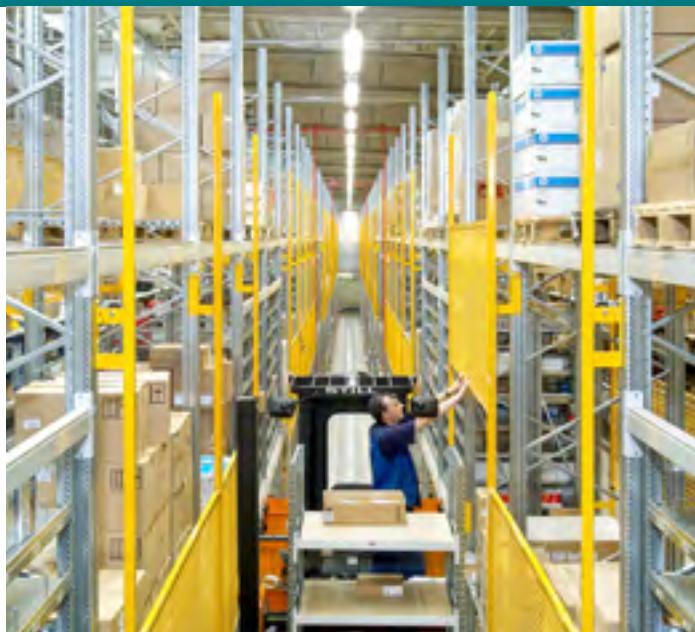
Unit loads are picked manually from pallets at floor level height whereas loads from pallets on higher levels are retrieved with mid-level order pickers.

Small parts are provided in a three-tier shelving installation and picked manually.

### BENEFITS.

- ✓ All reference lines are in direct access
- ✓ High levels of flexibility in case of changing product lines
- ✓ Fast order processing as staff levels can be adapted to actual needs
- ✓ Compact storage on a small surface
- ✓ Optimum utilisation of headroom





**Soennecken**  
Office supplies,  
stationery

#### FEATURES.

- ✓ High-bay installation
- ✓ 6,000 pallet positions on 3 tiers
- ✓ 3-aisle AS/RS facility
- ✓ Order picking from a total of 24,000 storage positions in pallet racking, live storage racking and shelving

#### CUSTOMER REQUIREMENTS.

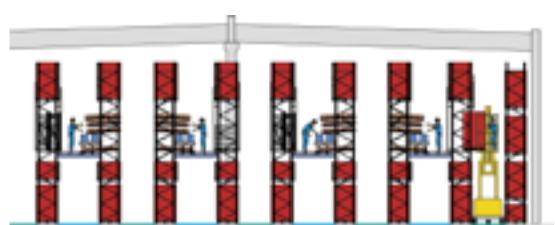
Soennecken eG is the leading cooperation for medium-sized office supply traders and related industries. In their central depot in Overath, narrow aisle service trucks transport office supplies from the high-bay store to the order picking area where the goods are supplied in static shelving, on flow shelves or as full pallet load.

In order to save time, small packaging units are transferred to modular pallets which hold items from several product lines. Mesh-clad hatches between the narrow aisle and the order picking areas ensure operator safety. Products are classified into A-, B-, C- and D-items.



#### BENEFITS.

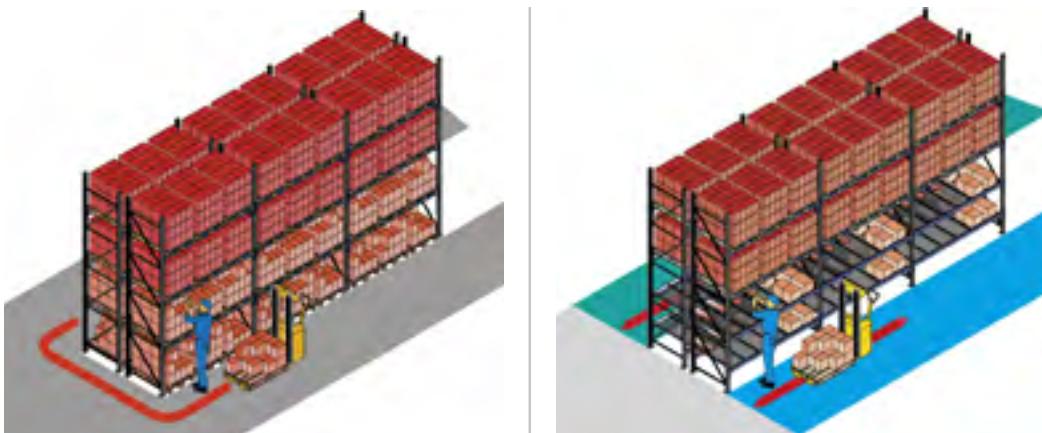
- ✓ The area between narrow aisle and picking area remains tidy
- ✓ Time efficient relocation of smaller sized units onto modular pallets
- ✓ Pick-by-voice enables hands-free and focussed picking resulting in a low error rate.



## Pallet racking retrofitting.

Operating processes and warehouse requirements are changing ever faster.

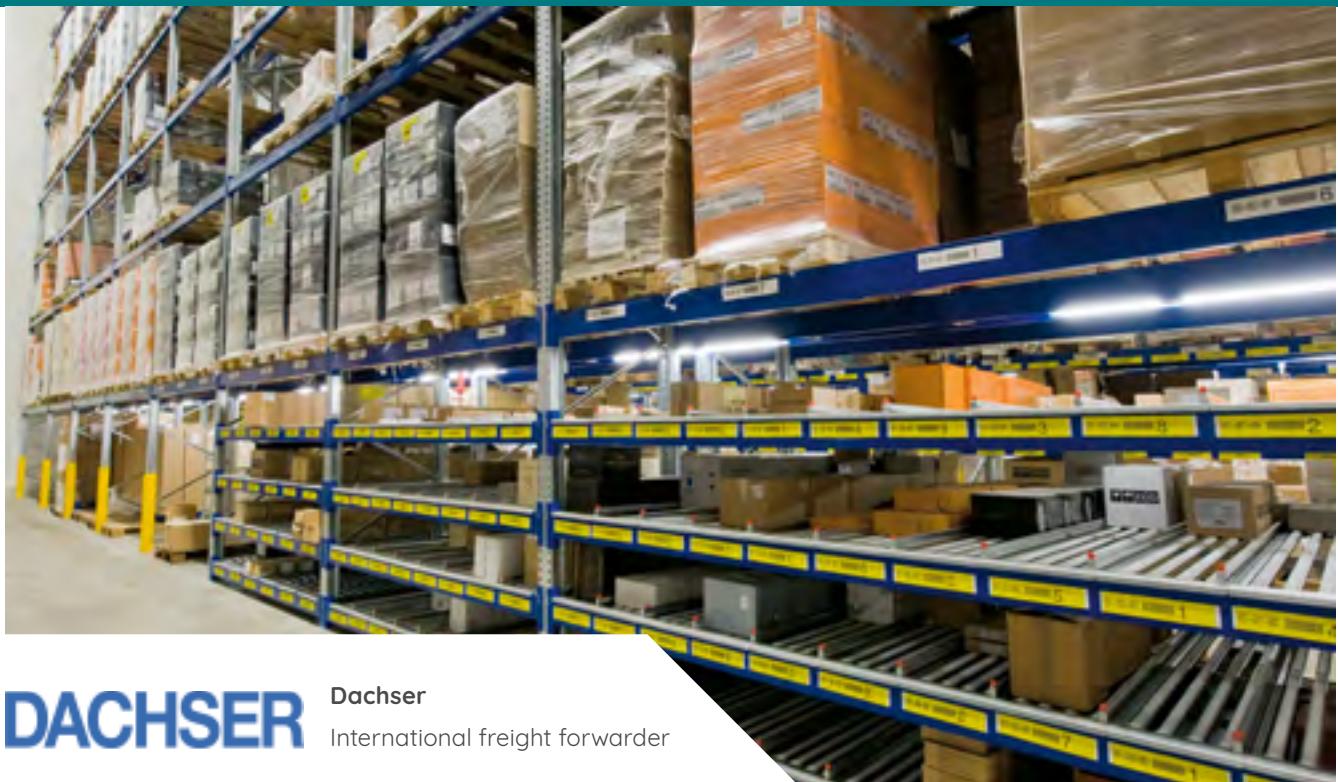
BITO shelving and racking enables customers to react flexibly to changing situations and adapt their storage equipment to new requirements. BITO flow shelves can be retrofitted into existing pallet racking.



### UPRIGHT ADAPTERS.

Upright adapters help to transform the floor level of any pallet racking brand into an efficient live storage unit. They provide a safe seat for flow levels. Benefits of retrofitting with your pallet racking with live storage levels:

- ✓ Drastically reduced pick routes
- ✓ Substantially reduced picking times
- ✓ More product lines in the same space
- ✓ Separate loading and picking aisles
- ✓ Storage in FIFO order
- ✓ All commercially available pallet racking brands are suited for retrofitting
- ✓ Height: 1,950 mm
- ✓ Flow shelf width = clear bay width - 10 mm
- ✓ Simply bolt upright adapters to your racking frames, hook in BITO flow shelves and you are ready to go
- ✓ Lane separators and flow level height can be readjusted
- ✓ Flow levels with angled picking tray provide optimal ergonomic conditions
- ✓ Cost-efficient standardised flow shelves and upright adapters



## DACHSER

Dachser  
International freight forwarder

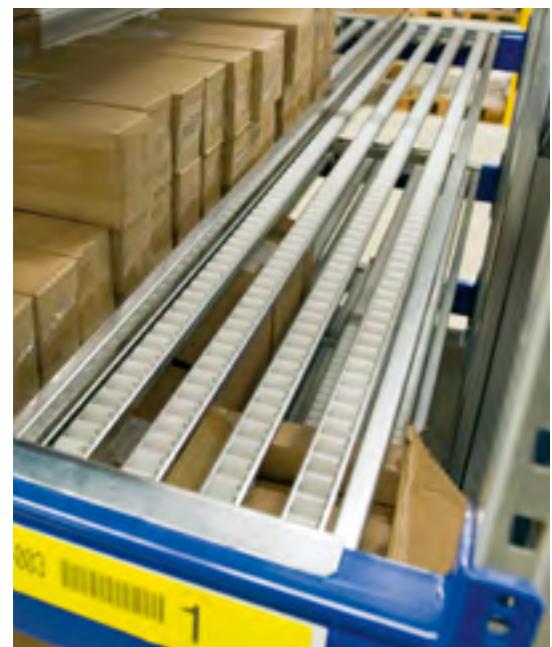
### FEATURES.

- ✓ Pallet racking retrofitted with Adapta Flow modules
- ✓ Dynamic and highly flexible live storage system

### CUSTOMER REQUIREMENTS.

Dachser counts among Europe's leading forwarders. Their logistics centre in Kempten features pallet racking which has been retrofitted with BITO Adapta Flow modules at operator reach height.

Retrofitting was carried out quickly and inexpensively, as roller tracks or full-width roller segments only had to be placed on the beams. Instead of six pallet positions per racking bay, a total of 50 lanes present different product lines in various packaging sizes and variants to the order pickers.



### BENEFITS.

- ✓ High degree of flexibility
- ✓ Shorter order processing times
- ✓ Loading and picking in separate aisles
- ✓ Direct and safe access to products
- ✓ FIFO principle



## Trends picking environments.

IN MANY PICKING ENVIRONMENTS THE CONSEQUENCES OF MARKET TRENDS NEED TO BE TRANSLATED.

- ✓ Increase of the number of SKUs.
- ✓ Less stock per SKU.
- ✓ A shorter product life cycle.
- ✓ Pressure on the efficiency of the picking process.

The number of SKUs increases year by year due to the growth of the assortment and the shorter product lifetime. There is generally less stock per SKU.

Driven by the need for speed in the process there is increased pressure on efficiency of the picking process.

The process needs a predictable and reliable output.

THIS IS ACHIEVED BY AN 'UNDISTURBED' PICKING PROCESS WITH ALWAYS-SUFFICIENT, EASILY ACCESSIBLE STOCK, WITHOUT STOCK BREACHES IN THE RUNNING BATCH.

The consequence of the trend is that there is a need of MORE PICKING LOCATIONS on ground level OF A SMALLER SIZE. Most probably there is a need of a variety of different picking slot sizes. In this brochure, BITO presents a variety of solutions to choose from, motivated by the specific needs.

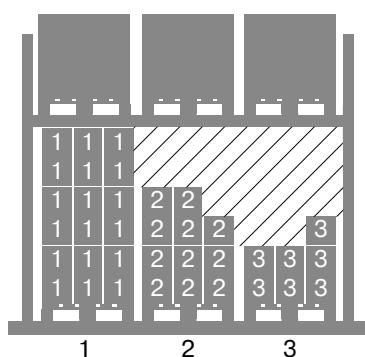


# Picking solution with flow levels.



## WITH BITO FLOW RACKING.

- ✓ Product storage in FIFO (first in – first out)
- ✓ High density storage of many reference lines on a small footprint
- ✓ Depending on the chosen safety stock, one has the choice to occupy 1, 2 or even 8 slots per SKU at the start.
- ✓ Short travel routes allowing access to 24 pick faces
- ✓ High pick rate: 150-250 picks per hour.
- ✓ An empty slot is faster available for storing a new SKU.
- ✓ Slots do not necessarily need to be adjacent when using the random location principle and a software-controlled picking process



## WITHOUT BITO FLOW RACKING.

- ✓ 3 SKUs per bay results in: long pick routes, only 3 different product ranges
- ✓ This results in a low picking rate: 30-50 picks per hour.
- ✓ The location is occupied as long as the last carton is picked.
- ✓ Too much space left unused, on average only 50% of the space is used.

## STORAGE REQUIREMENTS CAN CHANGE OVER TIME ...

As a business changes, so can its storage and logistics requirements. If picking systems have become inefficient, a company should act quickly to adapt the existing storage system to the new situation.

## BITO PROVIDES THE SOLUTION!

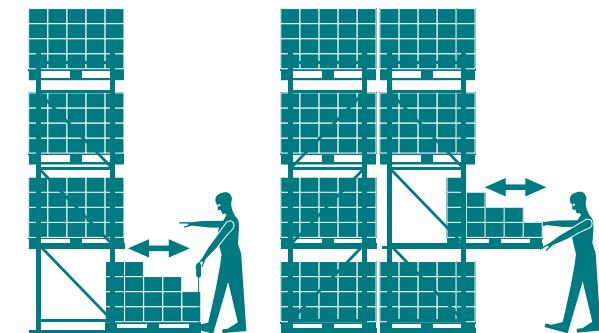
Pallet racking is designed for a wide range of pallet storage applications but as requirements change, BITO offers a large selection of accessories to convert your static pallet racking, to a dynamic picking solution. A large selection of configuration options that are quick to implement allows for the customisation of both new installations and the retro fitting to existing installations.



## BENEFITS

- ✓ Considerably higher number of picking lines available at the pick face.
- ✓ Shorter travel routes and reduced pick times.
- ✓ Maximum flexibility in warehouse planning.
- ✓ Excellent ergonomic conditions for strain-free working.

## Picking solution with pull-out pallet position.

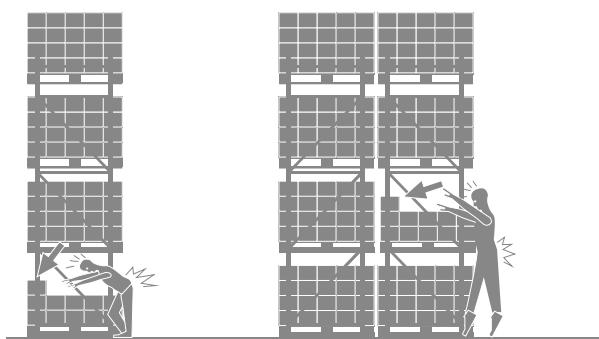


### “WITH” BITO PULL OUT RACKING.

- ✓ Convenient picking from the pallet that is pulled out
- ✓ Heavy or bulky goods are within easy reach
- ✓ Prevent injuries from reaching under the rack



- ✓ Direct access to all items
- ✓ Can be mounted on the floor or beams
- ✓ The pull-out shelf can be fitted with bins
- ✓ In this solution the pallet is reachable from 3 sides



### “WITHOUT” BITO PULL OUT RACKING.

- ✓ Poor ergonomics stretching into bays
- ✓ Difficult access to goods under the racking
- ✓ Increased risk of accidents when stretching under the rack



## Gravity roller conveyor.

- ✓ Ensures stock availability by the use of a replenishment position. For A-articles or large product sizes.



## Boltless shelving pick pods.

- ✓ The flexibility allows for a variety of picking locations and can be easily adjusted as requirements change.

## A wide range of possible solutions for small item picking with bins.

### BITO PRODUCES A WIDE RANGE OF PLASTIC BINS.

They can be used in the shelf racks and flow racks presented in the previous pages. Bins and containers with a picking opening can be stacked to form a picking wall. Different configurations result in smart applications.



#### BINS AND CONTAINERS WITH A PICK OPENING CAN BE STACKED TO FORM A PICKING WALL.

- ✓ Various configurations are possible.
- ✓ We refer to our extensive range of bins.
- ✓ SK bins.
- ✓ Euro container with pick opening.



#### WE WANT TO ATTEND YOU TO THE 500 KG/HALF SIZE EURO CONTAINER, WHICH IS AVAILABLE WITH A PICK-UP AND WITH A FLAP LID.

- ✓ The opening can be on the long or the short side.



#### THE DRAWER SOLUTION WITH PULL-OUT LEVELS CAN BE THE SOLUTION FOR VALUABLE ITEMS.

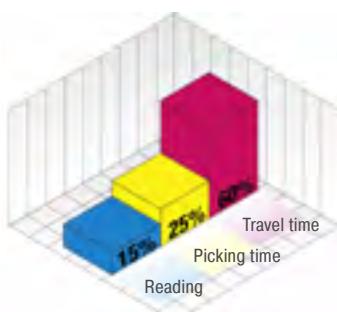
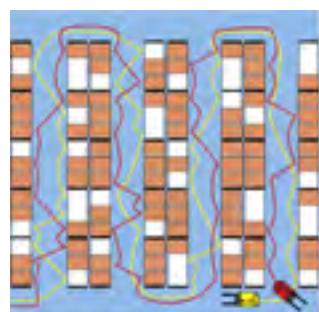
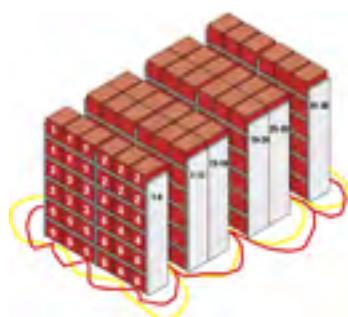
- ✓ Different sizes of bins and containers with various accessories can be chosen from the wide range offered by BITO.

# PALLET LIVE STORAGE.

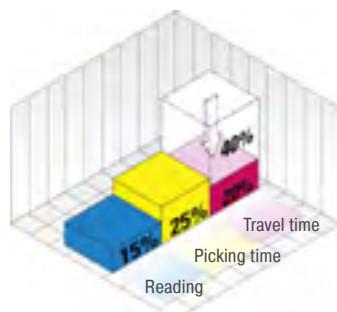
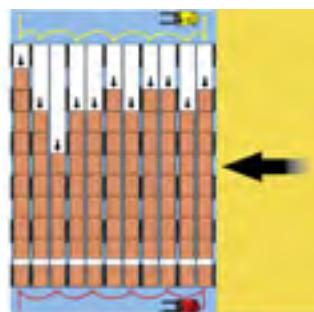
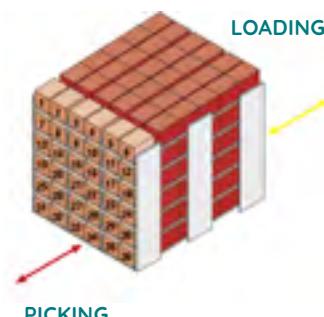


# ECONOMIC CONSIDERATIONS.

CONVENTIONAL  
PALLET RACKING.



PALLET LIVE  
STORAGE SYSTEM.



CASE STUDY.

Our **pallet live** storage example shows two storage units that provide 36 reference lines each.

It is obvious that a pallet live storage installation improves storage density and product presentation.

All 36 product lines are in direct access at the **picking face**. Each item gently moves to its pick position at the front. Sufficient replenishment quantities guarantee constant product availability. FIFO is guaranteed.

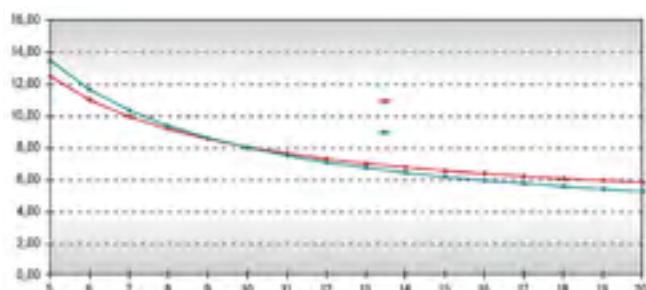
**High-density storage** and a **reduced number of service aisles** save up to 60% of floor space.

Separate working aisles prevent that replenishment interferes with order picking which increases stock turnover.

**Short travel times improve staff productivity**, in particular at loading docks where pallets are grouped together according to the dispatch route.

Whereas information and pick times remain the same for both solutions, **travel times are drastically reduced**.

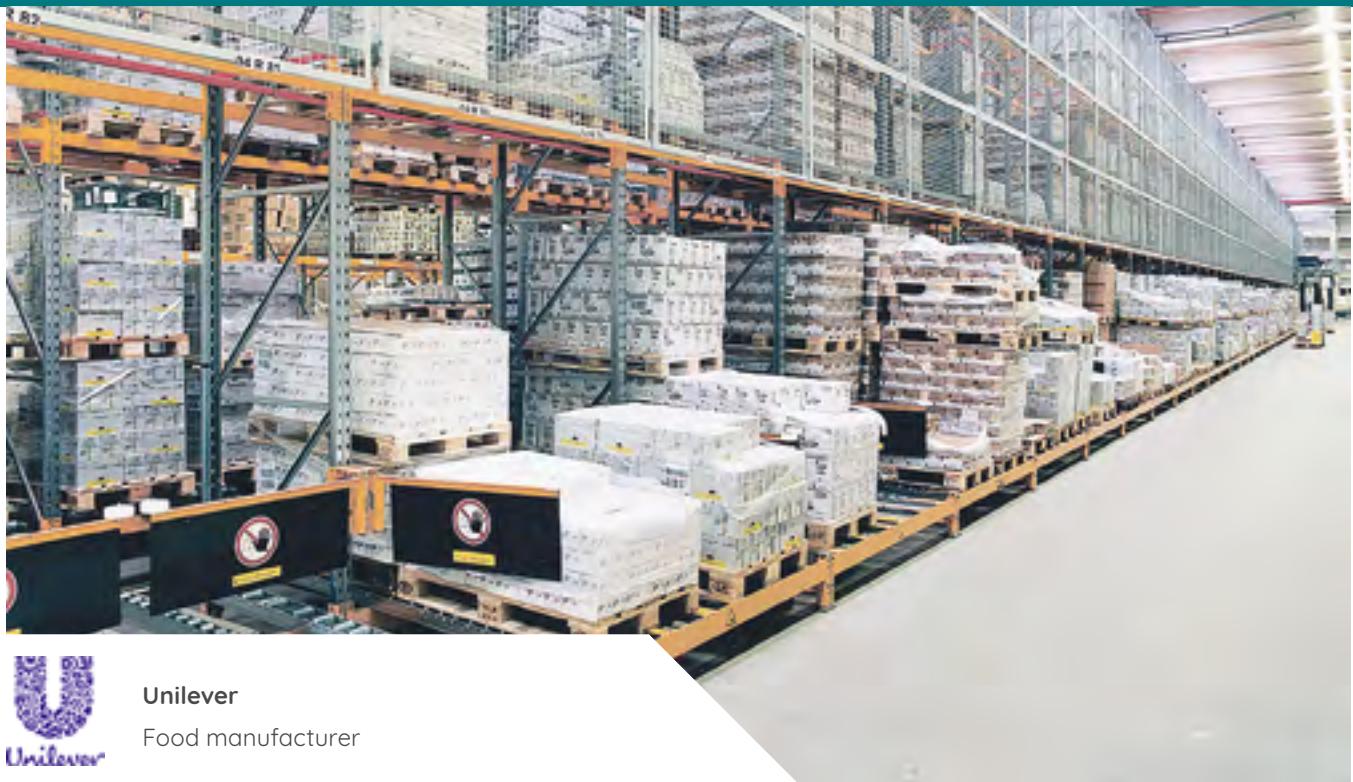
Working time can be used for productive tasks which boosts order throughput.



## HIGH TURNOVER SAVES MONEY.

Inventory turnover has a decisive influence on logistics costs. Our example shows that **pallet live storage saves money** from an inventory turnover rate of 9 times a year. A turnover frequency of approximately 20 times a year clearly compensates the investment into a pallet live storage installation.

## PALLET LIVE STORAGE.



Unilever

Food manufacturer

### FEATURES.

- ✓ Picking of individual unit loads
- ✓ Pallet live facility is replenished by automated stacker cranes

### CUSTOMER REQUIREMENTS.

The pallet live storage facility is used for order picking at floor level height and for product buffering on the upper levels.

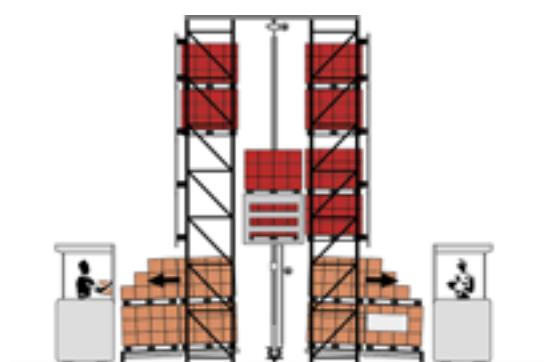
The live storage lanes on the floor are replenished from the static pallet buffer lanes by an automated stacker crane.

The pallets on the floor level move unassisted on roller lanes to the picking side where vertical order pickers are used to pick unit loads.



### BENEFITS.

- ✓ Short pick paths that do not cross enhance productivity and safety in the workplace
- ✓ Connection to the in-house conveyor system
- ✓ Compact and safe storage, immediate overview of products on stock and good utilisation of the available storage space
- ✓ AS/RS type stackers provide constant product supply
- ✓ Link-up to warehouse management system enables permanent stock control
- ✓ Storage in FIFO order
- ✓ The number of service vehicles and operators can be adapted to requirements





Fristo

Beverage wholesaler

#### FEATURES.

- ✓ Pallet live storage racking
- ✓ Picking tunnel with carton live storage lanes
- ✓ Tilttable/Hinge-up roller lanes on the floor level

#### CUSTOMER REQUIREMENTS.

Fristo is a medium-sized company that has been successfully operating beverage stores for over 50 years. The company is represented in 8 federal states and in the Austrian part of Tyrol with more than 228 stores.

For more efficient order processing, a logistics solution was to be implemented at the logistics hub in Zimmern ob Rottweil to ensure the continuous supply of 31 stores in southern Baden with 200,000 beverage cases per month. More than 965 different product lines must be stored in FIFO order to comply with best-before dates.

#### BENEFITS.

- ✓ High-density storage
- ✓ Shorter order processing times
- ✓ Safe working in separate loading and picking aisles
- ✓ Mixed reference pallets are prepared in the picking tunnel
- ✓ Hinge-up roller lane segments enable convenient floor cleaning





## AMR Racking.



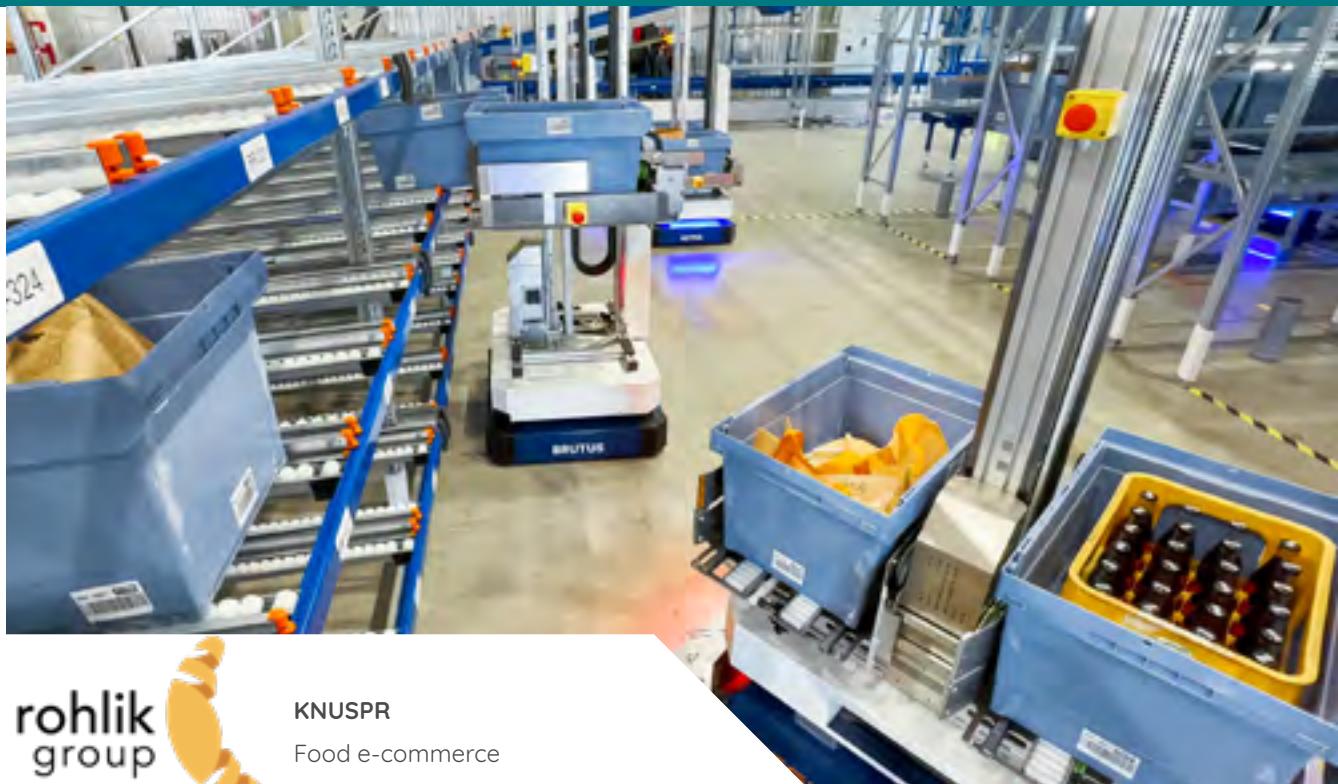
The application of Autonomous Mobile Robots requires a specific racking which needs to deal with providing an accurate pick and retrieval window in relation to the floor.

The picking heights have meanwhile grown over 10m.

Some suppliers make use of transport robots with specific transfer levels in the racking.

In most solutions the bins are positioned on 2 runners. For carton solutions wire-mesh levels can also be fitted.





KNUSPR  
Food e-commerce

#### APPLICATION.

- ✓ In this project you find a fine AMR application.
- ✓ The robots are being used to retrieve the bins from the picking area and bring them to the consolidation zone.
- ✓ Each robot carries 2 picking bins which are transferred into lanes of a standard flow rack.
- ✓ The lanes locations are at different heights
- ✓ Due to the limited height, it was possible to achieve the necessary accuracy to drop the bins in a flawless way.



#### FEATURES.

- ✓ No additional requirements on the racking.
- ✓ In case of a breakdown, the operation can be taken over by human personnel
- ✓ The ROI is one to one in relation to the investment versus saving on personnel
- ✓ It is clear that in this business there would be much variation in the het need workers during a day, a week, etc.



#### MATERIAL.

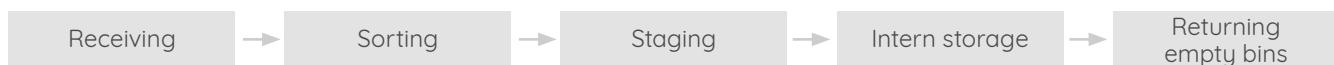
- ✓ BITO standard flow racking.
- ✓ Nestable picking bins type MB.

# A BIT OF OUR LEO TRANSPORTER.

## The right solution for your needs.

BITO LEO transporters have **already convinced a large number of customers** with many solutions in various fields of application **in the logistics and e-commerce sector**.

For example, one of our customers, a logistics service provider receives **goods on pallets**. The goods are removed from the pallets, **sorted into bins** and boxes and then **taken to various staging areas/collection points**. Unloading usually takes less time than transferring goods to the staging areas. For this reason, a buffer storage area is needed for decoupling the process. Once the goods have left the staging areas for further treatment, the now **empty bins and boxes need to be returned to the goods-in area**.



# Guidance and navigation, keep automation simple!



## OPTICAL NAVIGATION.

The LEO route is defined by a 19 mm wide blue or green track line which can be applied on the floor via adhesive tape or floor painting. Road and traffic signs to guide the vehicles are defined by "markers". Markers are printed QR codes that define destination points, the speed to be driven at, the start and end of traffic light control, charging points, acoustic warning and much more. LEO transporters do not need to be programmed to the layout of your premises.



## NAVIGATION WITH A VEHICLE-MOUNTED TABLET.

The LEO transporter is fitted with a tablet that is permanently connected with the vehicle by a USB-C cable. A specially developed app enables destinations to be entered, entire routes to be programmed and called up, charging processes to be triggered manually and the return to the home station.



## NAVIGATION WITH A STATIONARY TABLET AND A LEO SMARTBOX.

For the LEO flow and LEO locative AGVs in particular, it is recommended to separate destination entry from the vehicle. The delivery points of the goods to be transported are simply entered by an operator using a tablet. The tablet is connected to the Smartbox which reports the requirement to the nearest available vehicle which will carry out the order.



## NAVIGATION VIA BARCODES.

In this case, load carriers are identified with a barcode which has been assigned to a target. The LEO barcode reader is available as a base-mounted device or as a hand-held scanner. Once the barcode has been scanned, the nearest available vehicle receives the destination command via the LEO Smartbox. Customer barcodes can be entered in the LEO Smartbox.



## NAVIGATION WITH A WAREHOUSE MANAGEMENT SYSTEM.

The LEO Smartbox has an automation interface. An RS232/RS485 interface enables commands to be issued by external systems, such as a warehouse management system which allows LEO to be directed to the right destinations from one central point. On returning to the source station, the vehicle provides information that can be called up via the interface, such as the unique serial number of the vehicle, the last destination reached and the load and battery status.

### BENEFITS OF THE BITO AGV "LEO".

- ✓ Automation already possible for less than €20.000.
- ✓ Simple stand-alone solution.
- ✓ No IT interfaces need for standard use.
- ✓ No area-wide WLAN necessary.
- ✓ The control system grows with your projects.
- ✓ Reduce risk of site downtime.
- ✓ Compatibility with automated storage systems.
- ✓ Multiple-zone picking in multi-tier installations.



# A BIT OF PLASTIC BINS.

## BITO range of plastic bins.

BITO provides **a huge range of bins and containers in any size and for any application**.

**Discover our bins** for storage, handling and order picking, our stacking containers in European standard sizes and our **successful distribution container series**. In addition, we offer bins and trays for automated small parts storage and plastic pallet boxes.

In working out the optimum solution, **our R&D engineers and designers focus on user requirements**. Our long-standing experience and our technical equipment enables us to realise special requests in all phases of development, from the initial steps to the three-dimensional digital model, from the prototype to the final product ready to be manufactured in series.

Our vast range of series and variations, the robust make, ergonomic design, easy handling and a **5-year warranty on quality and functionality** are just some of the benefits of BITO bins and containers. Take a look at our multi-purpose container series MB which help to reduce packaging waste and save on storage and freight costs during empty handling!



## A BIT OF SUSTAINABILITY.

### IMPACT OF THE PPWR - Packaging and Packaging Waste Regulation of the EU.

- ✓ Reuse has been defined and mandated in a legally binding EU text that will directly apply in all EU member states from mid-2026 onwards.
- ✓ Packaging reduction targets will be in place for all EU member states.
- ✓ Mandatory design for recycling by 2030.
- ✓ Most plastic packaging will have to contain a minimum percentage of recycled materials.

#### REUSE TARGETS.

- ✓ Reuse targets set for transport packaging:  
40% for 2030 and 70% for 2040.
- ✓ All B2B transport in one country and between sites is to be 100% reusable.

#### RECYCLED CONTENT.

- ✓ By 2030 plastic packaging **must contain a minimum of 35% recycled content.**
- ✓ By 2040 plastic packaging must contain a minimum of 65% recycled content.

### FROM RECYCLED POLYPROPYLENE TO CIRCULAR POLYPROPYLENE.

Today most recycled PP originates from regrind material that is processed to regranulated PP.

This has the disadvantage that colour variations need to be masked by colouring the material black or in the best cases a kind of grey. The mechanical strength of this material is reduced with about 10% compared to virgin material.

#### BITO as a pioneer started to use PP material which is generated out of waste material.

The process of producing this material is really state of the art and very refined.

Using this material is really a step up since the material is upcycled. We name it CIRCULAR PP.

This is really creating the ultimate sustainability. This is really fantastic since **the material can be produced in particular colours and there is no loss in strength compared to virgin PP.**

This is no fantasy. BITO applies already in the popular standard RK bins series.

#### THE WASTE HIERARCHY



BITO RK bins 100% Circular PP

## OUR BINS AT A GLANCE.

### GOODS-TO-PERSON.

P. 50 - OUR SERIES OF XL-MOTION.



P. 51 - OUR SERIES OF ECO-MOTION.



P. 52 - OUR SERIES OF XL EURO SIZE BINS.



P. 53 - OUR SERIES OF KLT-BINS.



P. 53 - OUR SERIES OF TRAYS.



### PERSON-TO-GOODS.

P. 54 - OUR SERIES OF XL "PICK OPENING".



P. 55 - OUR SERIES OF XL "PICKWALLS".



P. 56 - OUR SERIES OF SK BINS.



P. 56 - OUR SERIES OF RK BINS.



P. 57 - OUR SERIES OF CTB BINS.



## OUR SERIES OF NESTABLE BINS.

P. 58 - 59 OUR NESTABLE BINS IN A PICKING PROCESS.



OUR NESTABLE "MB BINS".

OUR NESTABLE "U-TURN BINS".

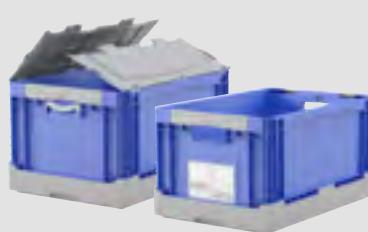
P. 60 - OUR NESTABLE "MB BIN" IN A LOOP TRANSPORT.



## OUR SERIES OF FOLDABLE BINS



P. 61 - OUR SERIES OF BITOBOX EQ.



## Our series of XL Motion bins.

The ribbing pattern can be adapted to AS/RS and conveyor requirements.  
**Suited for all ASRS/shuttle** systems.

### Outstandingly quiet!

Using a smooth outer base means that minimal noise is produced when the box moves over a conveyor.

**No base deflection,** not even when fully loaded due to concave centre.



Drop-on lid: The lid does not add to the overall height and stays in place.

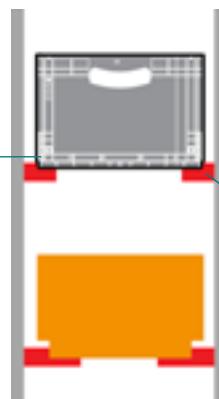
Optional through-grips or grip cups on the short sides.

Offers **the largest internal volume** of any container in its class while still maintaining a standard external volume.

Side-to-side + front-to-back dividers create between 2 and 16 compartments

600 x 400mm and 650 x 450 footprint.

**A wider base** than in standard stacking containers (26mm extra).



Seat profiles can be reduced in width, for example 57 mm instead of 70 mm. **This saves on steel costs** when building a new plant.

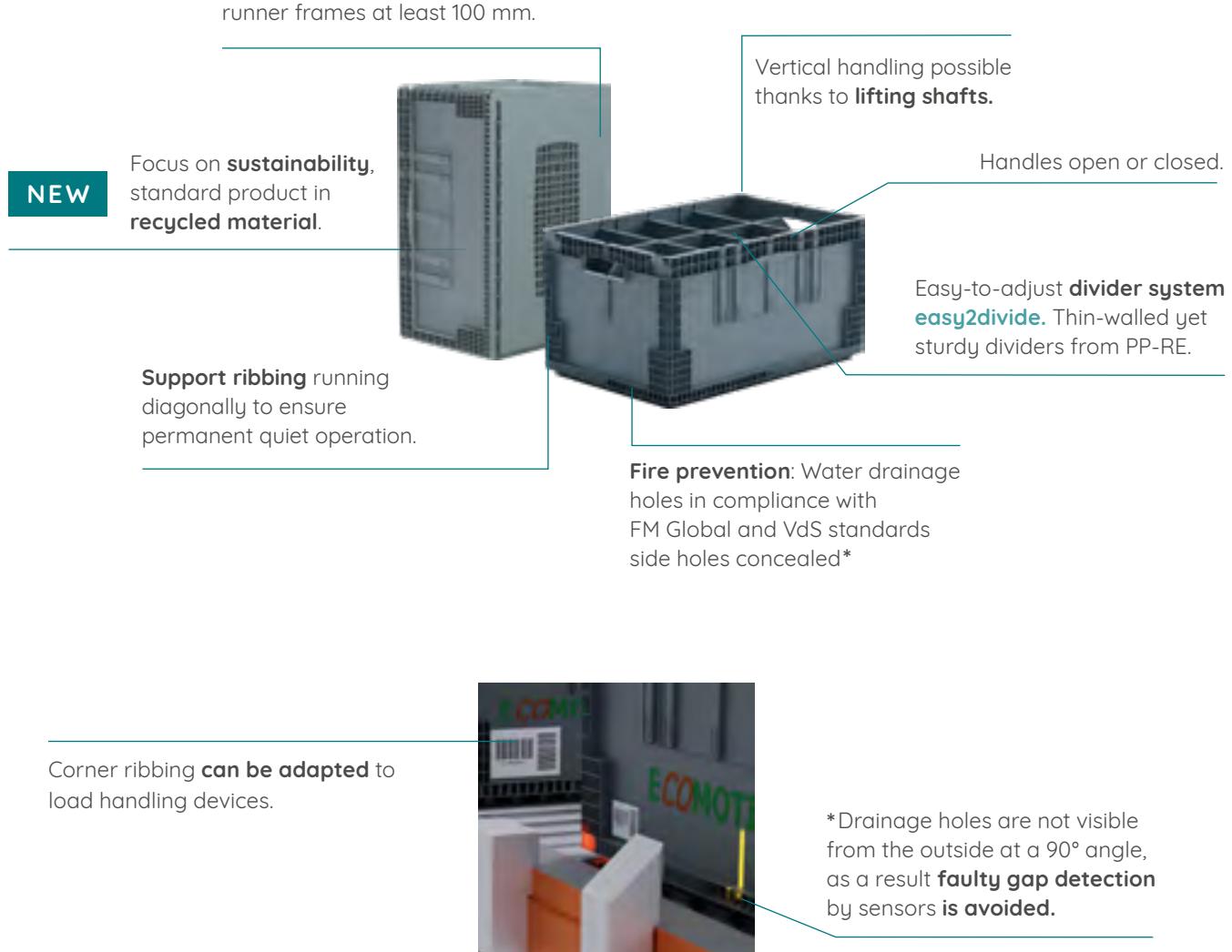
## IDEAL IF...

- ✓ You need to use plastic bins in your automated warehouse which are guaranteed to meet your needs and your logistics system and **ensure undisrupted operating** processes.
- ✓ You **want to be sure** that storage containers and **boxes are compatible** with as many different and

wide-ranging components of **your intralogistics system** as possible, including automated handling systems and conveyors.

- ✓ You require **exceptionally stable and long-life** containers plastic boxes that very rarely experience base deformation even under heavy loads.

# Our series of ECOmotion bins.



## IDEAL IF...

- ✓ Like the XLmotion ideal if you need to use plastic bins in your automated warehouse and **trouble-free operation** with reliable detection on conveyor systems.
- ✓ You **want to be sure** that storage containers and **boxes are compatible** with as many different and wide-ranging components of **your intralogistics system**

- as possible, including automated handling systems and conveyors and have absolutely vertical walls.
- ✓ You require **exceptionally stable and long-life** bins that very rarely experience base deformation even under heavy loads. And is designed as an ecologically advanced bin that is **made from PP recycled material**.

## OUR SERIES OF XL EURO SIZE BINS.



Subdivision **into compartments** with insert bins and **dividers**.

Large area to **print logo**.

**Straight sides** offer a large storage capacity.

Closed walls and perforated walls.

**Reinforcing ribs** provide high structural rigidity.

Stacking containers available in **20 different sizes**. Five standard sizes in blue, grey or red.

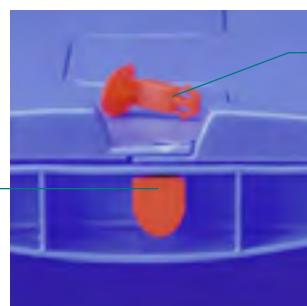
A continuous all-round outer line and rounded corner uprights ensure that these stackable containers move safely and **without disruption along conveyors**.

Open **ergonomic** handgrip.

**5 different base** options, also available with double base for use in AS/RS facilities.

The stacking containers are **sized to fit a Europallet**. 600x400mm, 300x400mm, 200x300mm and in **many different heights**.

Optional interlocking hinged lid that can be **securely fastened with single-use seals**.



Protecting the content from unauthorised access and potential damage during storage or transport.

## IDEAL IF...

- ✓ You need to know for **sure that containers are safely stackable** even when heavily loaded.
- ✓ You need bin dimensions that are designed to **match standard European-sized pallets** and need to save as much storage space as possible. This means that the

bins can be neatly stacked on pallets **with no wasted space on the pallet**.

- ✓ You need a classic universal bin with accessories.
- ✓ You need a **wide colour selection**. With a minimum order of 200 bins, you can choose the colour yourself.

## OUR SERIES OF KLT-BINS.

Stacking containers **available in many sizes**. In turquoise as standard.

**Double base:** load capacity to **75kg**. Concave for minimal deflection.

Large area to print **logo**.

**Ribbed base:** load capacity to **50kg**. Concave for minimal deflection.

Integrated **groove for pulling operations**.

**Security tags**.

Labels available as an accessory.

**Ergonomic shell handgrip**.

**Holders for labels** and documents.

Two part hinged lid.  
**Drop on lid available** as an accessory.

A continuous all-round outer line and rounded corner uprights ensure that these stackable **bins move safely and without disruption** along conveyors.

Ideal for **automated storage & retrieval** systems



## IDEAL IF...

- ✓ You want to store, pick or transport goods or articles in a secure, protective, **space efficient container**.
- ✓ You want to store your goods in containers on European

size pallets and need to save as much storage space as possible. And you need to know **for sure that containers are safely stackable** even **when heavily loaded**.

## OUR SERIES OF TRAYS.

With inner or outer 600x400mm dimensions. **Subdivide** your trays with euro-sized insert bins.



**Allow automated handling of cartons**, even if cartons have deflection or are damaged.

## OUR SERIES OF XL WITH PICK OPENINGS.

Stacking containers **available in different sizes**.

Standard in blue, grey or red.

Straight sides and smooth internal surfaces offer a particularly **large storage** capacity.

Containers with view and pick opening allow convenient order picking, **even from stacked** containers.

**Ergonomic through-grips** improve handling convenience.

**Drop lid** available as accessories

Also available with long side pick opening for fast and **easy retrieval**.

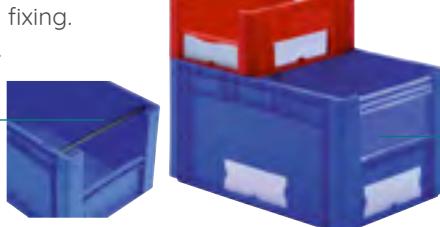
Supplied with 1 **label card** per container



**Standard base** containers. Dimensions are **in line with the size of Euro pallets**.

**Available with handles** for convenient container handling. Easy bolt-on fixing. Only for short side pick opening.

A broad range of accessories such as an **insertable window** to protect the contents.



## IDEAL IF...

- ✓ If you need Euro stacking bins with open fronts for **easy visibility and efficient picking**.
- ✓ If you need **a versatile container** that suits almost any storage, manufacturing and transport application.

- ✓ If you **need bins that fits your shelf length**.
- ✓ If you need **to store a lot of products within a small space**. These boxes are easily placed on top of one another and are particularly sturdy when stacked.

## OUR SERIES OF PICKWALLS.



## IDEAL IF...

- ✓ If you need to **scale up quickly** at e-commerce peak times like Black Friday.
- ✓ If you need **extra storage space** quickly without additional shelf racks in a fixed location.
- ✓ If your **picking location sometimes needs to change** places, such as on an assembly line. The bins are also available with pallet feet.
- ✓ If you want bins **usable for different purposes**.

## OUR SERIES OF RK & SK BINS.

### NEW

Our popular RK series is now available in **100% recycled** post-consumer material. This **exceeds the requirements of the EU Packaging** Regulation 2030. See page 47.

Circular polypropylene can **also be supplied in precisely defined** colours

The dimensions are **designed to exactly match the dimensions of shelves**. 4 different depths, 4 different heights, 3 different facings.

With a spring-loaded **safety handle** which enables the bin to hang over the edge of the shelf for picking.



As stable, durable and powerful as ever.

Optimal storage and access to **small items** and components.

These robust boxes can be fitted with **lengthways or cross dividers**.

BITO **SK storage bins** with pick opening are among **the most useful in their class** for storing and picking small items.

The **fold-down windows** are made of an extremely robust polycarbonate.



Our **SK series** is available in blue, red, green and yellow. A specific colour of bin can be assigned to a particular assembly part at your assembly line.

The **shape and divider** options for **SK bins** offer easy access to their contents.

## IDEAL IF...

- ✓ You need to supply a range of small items for production or a process such as assembly or shipping.
- ✓ You want to integrate the storage of a wide range of small items into your processes in a space efficient way.

- ✓ You want to use Kanban processes to supply small items, keep stock low and make replenishment efficient.
- ✓ You want to store different articles while still keeping them clearly visible.

## OUR SERIES OF CTB BINS FOR KANBAN APPLICATIONS.

The container **base is conveniently radiused for easy retrieval** even of very small items.

Optional **product feeder panel** prevents items from spilling out.

The material used is resilient to temperature changes and **can withstand** a range from **-20 to +80°C**

**optional with safety handle** which enables the bin to hang over the edge of the shelf for picking.

Can carry loads of up to **15 kg**.

Label holder on the back of the bin to accommodate **Kanban cards**.

By **sliding down window**, parts can be conveniently picked without pulling the bin forward.

The BITO CTB bin **offers a combination of features** of BITO SK bins for visible storage and BITO RK bins for shelf storage. **Excellent quality containers**, suitable for a wide range of purposes, they **sit perfectly onto shelving**.

BITO CTB bins **can also be manufactured from** environmentally friendly **sunflower compound** (SFC). This new material is a mixture of PP and sunflower seed shell fibres, a food industry waste product that is now used for further processing.

### IDEAL IF...

- ✓ You need to supply a range of small items for production or a process such as assembly or shipping.
- ✓ You want to integrate the storage and of a wide range of small items into your processes in a space efficient way.

- ✓ You want to use Kanban processes to supply small items, keep stock and inventory low and make replenishment as efficient as possible.
- ✓ You need bins that can be stacked and still have access.

## OUR SERIES OF MB-BINS.

Smooth inner walls and a **robust, one-piece container** design ensure 100% volume utilisation

For lidded versions of these multi-purpose bins, the **half-lids fall down** along the sides of the boxes **for stacking**.



**Reusable distribution** bin with a longer shelf life than cardboard alternatives.

Examples of **accessories that are available**: stacking rails, interlocking hinged lids and **security seals**. They make this range a highly versatile option.

**Stacking** these multi-purpose bins inside one another **reduces the storage space** required for **empty boxes**.

As an **all-in-one storage bins, picking box and shipping unit**, this robust space-saving bin saves on packing times and therefore costs as well.

**BITO MB bins** are perfect for transport, storage and order picking.



Thanks to the composition and finish of the **different base options**, our nesting and folding boxes are well suited for use **with automated logistics systems**.

## IDEAL IF...

- ✓ You need to supply empty storage bins at workstations.
- ✓ You want to return empty bins back to their senders.
- ✓ You need to store empty plastic bins between projects.
- ✓ You have limited space available to store and supply empty bins, or the space required to do so is highly valuable.
- ✓ You need a bin that can be secured against illegal access.

## OUR SERIES OF U-TURN.

**Empty storage cuts space** requirement by **up to 64%**, thereby cutting freight costs enormously.

**A plus of 60 mm in length** (inside measurement) reduces the number of bins required for a specific product quantity **compared to stack and nest bins with sloped side**.



Also suited for use in **automated storage & retrieval** systems.

Grip hole with an **ergonomically shaped hand rest** and available on 4 or on 2 sides.

### **Foldable drop-on lid:**

The lids can easily be folded in the middle and stowed away in the empty bins.



**Vertical walls in three levels** create up to 20% more volume than comparable stacking bins with the same external dimensions.

**3 base options.** Single layer base (20 kg), ribbed base (35 kg) and double base (50 kg).

The **BITO U-Turn** Stack and nest bin **combines** a conventional stacking bin with a nestable space-saving bin.



Very **lightweight**, but extremely **hardwearing**.

Nested or stacked by **simply turning it 180 degrees**, a so-called "**U-turn**".

## IDEAL IF...

- ✓ You are looking for a stackable and nestable container that combines both functions in one and the same box.
- ✓ You need to stock and move plastic bins and want to

- save on space and costs by nesting empty containers.
- ✓ You appreciate convenient handling and top-quality bins made from food-safe polypropylene.

## OUR SERIES MB-BINS.

MBs are **robust multi-trip** bins with a **long service life**.

The ideal **returnable packaging** solution for safe storage and transport.

**Label pockets** can be provided for easy ordering and categorisation.

Label areas **slightly recessed**, labels are reliably **protected** during **nesting and de-nesting**.



The hinged lid and **security tags** **keep goods safe** during storage and distribution.

**Stackable and highly stable** tapered bin, also designed for use in automated warehouses.

The MB bins are **sized to fit** a **Europallet**. 800x600mm, 810x400mm, 610x400mm, 410x300mm, 310x200mm **and in many different heights**.

MB bins are made from **robust plastic** and **resistant to high rising temperatures** in a **van** during the summer. Ranging from **-20 to +80°C**.

MB container nesting **saves 75% in volume** during empty storage and on return journeys.



Since the BITOBOX MB can be used for storage, transport and picking, **it can replace disposable packaging options in many areas**.

## IDEAL IF...

- ✓ You want **to save** in the long run on **the purchase of cardboard packaging** to ship goods.
- ✓ You need a **bin for multi-purpose** with a **variety of**

- accessories** such as stacking rails and **security seals** that can be ordered for use with this **reusable container**.
- ✓ You need a bin that cleans up easily after transport use.

## OUR SERIES OF EQ-BOX.

The **BITO EQ** is also available with a **hinged folding lid**, which can be **sealed**.

BITO's **flagship EQ bins** are space-saving solutions. They come in a range of sizes and two colours, **suitable for all kinds of warehousing applications**.

**Fold-up handles** for ergonomic and easy lifting, pulling and carrying.



The **Euro-sized** plastic boxes are **lightweight yet strong**, easy to clean and temperature resistant.

**Tilt-lock profile:** Sides lock open with a simple push on the box shoulder.

**Label holder** keeps container sides clean from sticky labels and glue residue what reduces cleaning costs.

**Base options:**  
standard single-layer base, ribbed base or double base.

**Folding reduces** the box **volume by up to 75%** thereby contributing to the excellent price performance ratio. They are space-saving, versatile and can even **be used in automated warehouses**.



The **EQ** is an **excellent folding bin** and can be **used for multiple trips** in distribution cycles.

## IDEAL IF...

- ✓ You need a bin at an order picking location or workstation that takes up little storage space when empty.
- ✓ You want to return empty bins back to their senders.

- ✓ You need a bin with a resilient plastic housing that also makes them an ideal choice for the food industry.
- ✓ You want a folding box suitable for automated storage.

## CASE GOODS-TO-PERSON BINS.



**Voigt GmbH & Co. KG**  
Warehouse & Transport logistics,  
logistics consulting

### FEATURES.

- ✓ 60.000 XLmotion plastic containers
- ✓ Dimensions 600 x 400 x 320 mm, capacity 53 litres
- ✓ Load capacity 50 kg, stacking load 250 kg
- ✓ Sandwich base with reinforcing ribbing and a flat base surface
- ✓ Sturdy dividers: front-to-back and side-to-side

### CUSTOMER REQUIREMENTS.

Hammer Group support their customers in the field of classic freight forwarding and flexible solutions for contract logistics. The logistics service provider built a new multi-user logistics centre of 103.000 m<sup>2</sup> near Cologne, which also houses a shuttle-serviced facility for small parts. For their automated warehouse, Hammer required 60.000 bins suited for automated systems, which were to run as quietly as possible on the system, have a large internal volume and can be subdivided to make best use of the bin volume.



### BENEFITS.

- ✓ Significantly lower noise levels, more pleasant work environment
- ✓ Fewer stress-related absences, lower error rate
- ✓ Sturdy make allows operation with extremely heavy loads
- ✓ Thanks to the large internal volume, fewer containers have to be moved to handle the same quantity of goods.
- ✓ Substantial **savings in steel costs** when building the plant because the wider container base sits on **much narrower support profiles**, construction and material costs could therefore be saved.



## CASE PERSON-TO-GOODS BINS.



**BRIEM**  
Logistics services provider

### FEATURES.

- ✓ 13 m high pallet racking with 6 storage levels
- ✓ Pallet racking with positions for Europallets
- ✓ Orders are picked from carton live storage on ground level
- ✓ Shelf trolleys provide small items

### CUSTOMER REQUIREMENTS.

BRIEM is a medium-sized business that has developed from a traditional shipping company into a leading logistics services provider and partner for customers from a wide range of industries.

In the 7,000 m<sup>2</sup> new building in Filderstadt, Briem offer their customers classic storage and retrieval. The warehouse has been subdivided into different temperature areas, an area with +2 to +8°C, a normal temperature area and a heated area with up to +27°C.

The logistics centre in Münsingen with an area of 11,000 m<sup>2</sup> and a multi-user area of 2,000 m<sup>2</sup> has been designed for the storage of hazardous materials.

### BENEFITS.

- ✓ The high-rise design and the narrow-aisle layout allows maximum utilisation of the cubic capacity in both new logistics buildings
- ✓ The shelf trolleys can be used for a wide variety of small parts. Closed sides protect the goods from dust and dirt.
- ✓ Heat shield panels and vertical fire barriers meet the strict safety requirements for hazardous materials storage.



WE TAKE THE TIME  
TO ADVISE.

## BITO SYSTEMS nv

### Head office BE

Boomsesteenweg 97  
B - 2630 Aartselaar  
Phone +32 (0)3 870 99 00

info.BE-NL@bito.com  
[www.bito.com](http://www.bito.com)

### Office NL

Bredaseweg 185  
NL - 4872 LA Etten-Leur  
Phone +31 30 711 30 90

info.BE-NL@bito.com  
[www.bito.com](http://www.bito.com)



Bito.com



Shop.bito.com



Bito news

