



## Plastic bins and containers

BITO provides a huge range of bins and containers for any application – from order picking containers over various stacking container series in Euro footprint to the very successful multi-purpose container series, from bins and trays for automated storage to containers in pallet size.

In working out the optimum, customer-oriented solution, the BITO R&D department is also able to respond to specific customer applications and to coordinate the introduction of new bin and container types – from the initial steps to the three-dimensional, digital model, from the prototype to the final product ready to be manufactured in series.

Reduction of packaging waste, lower storage and freight costs, easy handling, a robust make, a broad range of models and sizes and a 5 year warranty on quality and function are just some of the features and benefits of BITO bins and containers.

# BITO

[www.bito.com](http://www.bito.com)



## Product information

### Storage bins

- many size options with pick opening on the short side, smart accessories

### Stacking containers with Euro-footprint

- available in many sizes and models
- dimensions adapted to the size of Euro pallets

### Trays

- "adapter" for unit loads which, by their characteristics, would not be suited for automated bin storage

### Bins and containers for small parts storage

- large choice to suit any of your material flow needs

### Volume savers MB

- transport, picking and storage container in one

### Large volume containers

- handling with hand pallet and fork lift trucks

### Plastic pallets

- various models available

### Customer specific solutions

- We provide a solution for every application!



## Frequent application

- automated and manually serviced facilities
- order picking
- despatch and transport/distribution of goods



## Information material

For more information on this product, please contact us on

Tel.: +49 (0) 67 53 / 1 22-1 64

or ask for our DVD

**"Dynamic storage"**

Our **PRODUCT CATALOGUE** provides detailed information on our entire delivery programme.

Ask for your free copy!



## Our “project containers” in overview

### 1 Large volume containers sized 800 x 600 mm



- large volume containers of the XL, MB and SL series are the size of half a Euro pallet
- XL and MB containers with double base and runners have a load capacity of 200 kg
- SL containers fitted with runners can carry up to 500 kg
- containers with runners are suited for hand pallet truck and lift truck handling
- suited for automated bin storage
- hinged lid optionally available
- broad range of accessories

### 2 Multi-purpose containers, series MB



- up to 75% less volume when nested empty
- designed for a long service life
- reduces packaging waste
- no unnecessary repacking
- transport, storage and order picking container in one
- also available in the size 800 x 600 mm
- accessories: security tags, lid, stacking rails, container dollies, connector clips, etc.

### 3 European standard stacking containers, series XL



- containers have Euro-footprint
- large inside volume
- various base options
- also available in the size 800 x 600 mm
- with pick opening (windows from polycarbonate)
- ergonomically designed open hand grips
- label holders on all 4 sides
- container dimensions are in line with the size of Euro pallets
- accessories: handle, label covers, dust cover, container dolly, etc.

## Our “project containers” in overview

### 4 Small parts containers, series KLT

- various base options:  
standard base, double base and ribbed base
- ideal for automated handling
- high rigidity
- ideal container for automated bin storage facilities
- accessories: security tags, lid, container dolly, etc.



### 5 Trays

- compatible with most stacker crane types
- smooth outer base ensures silent handling
- inner ribs provide high rigidity
- special designs for any requirement
- “adapter“ for unit loads which, by their characteristics, would not be suited for automated handling
- interstackable with stacking containers BN, XL, KLT
- optionally available: push-fit fixings



### 6 Storage and handling bins, series RK

- perfectly fitting into BITO shelving systems
- large inside volume
- high rigidity
- very good stacking stability
- large choice of accessories: safety/carry handle, dust cover, dividers for front to back and side to side subdivision, etc.



### 7 Storage bins, series SK

- textured base and rounded edges provide optimum travel characteristics
- insertable window has a firm fit and can also be opened when bins are stacked
- safe stacking due to positive locators on the stacking edge
- comfortable integral hand grips
- supplied with label card
- 9 models in 5 size options



## Heavy duty SL containers 800 x 600 mm

- 2 height options (520 mm and 720 mm)
- half-drop door optionally available on short or on long side
- can be handled with hand pallet truck or with fork lift truck
- stackable
- suited for conveyors and live storage installations
- runners can be exchanged
- 2 lid variations (two-part hinged lid and drop-on lid)
- snag-free internal sides allow easy cleaning
- container version for use in automated bin storage can also be supplied


**Material:**

**Standard version:**  
from PP copolymer

**Optionally available:**  
from regranulated PP,  
colour: black or dark grey

**ESD version:**  
electrically conductive,  
colour: black



**Stacking load 1.500 kg**

**high rigidity and long service life**

**lightweight alternative to same size metal containers**

**NEW!**

Load capacity

**500 kg**



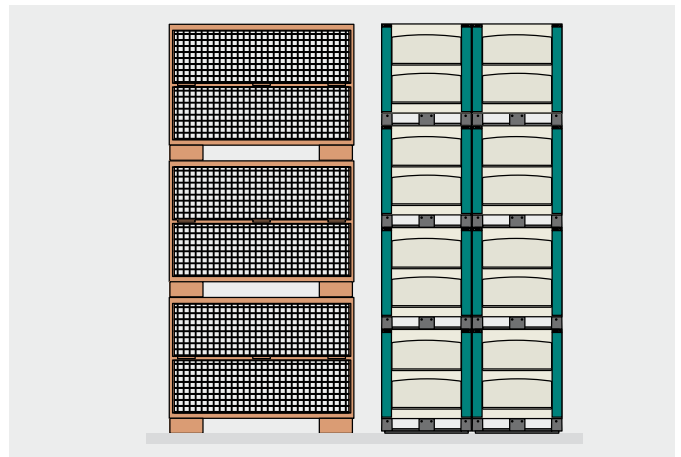
# Features

## Optimum container size

### ...particularly in LEAN PRODUCTION environments

The advantages of this series are particularly valuable for lean production operations.

The 800x600 mm SL container is a forward-looking solution to meet the trend towards reduced batch sizes in production and assembly operations. This means that in many cases, the filling height of bulk storage containers and wire-mesh box pallets in use is not reached any more. While the remaining filling space is unused, floor space occupation is still the same. Another contribution to process improvement is that empty SL's can be moved manually – ideal for operations without powered lift trucks.



## Safe and clean in operation

Smooth interior sides are soil-resisting and very easy to clean. The closed sides and base help to keep dirt out and in case of any leaking from stocked items, liquids or grease will not soil your shop floor or pollute the environment.



## Dual colour design

### ...ensures that everything is kept in the right place

Corner uprights can be different colour to containers.

Colour coding facilitates stock identification, allows to attribute containers to various areas of operation or to match containers to your corporate colours!

Ask for minimum order quantities!



**COLOURS create CLARITY!**



## Features



### Lid variations

- **hinged two-part lid**  
firmly attached, suited for strap-sealing, can be locked with security tags
- **drop-on single piece lid**  
perfect protection against soiling, drop-on fitting, can be removed any time



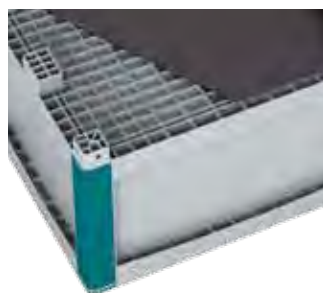
### Runners

- **convenient handling with a fork lift truck or a hand pallet truck**
- **easy to mount and to remove**



### Double base

- **welded sandwich construction for high load capacities**
- **version for automated bin storage (smooth base, no runners) can be supplied upon request**



### Half-drop door

- **can be supplied upon request, available on long or on short side**
- **no jamming**, synchronised hinges provide smooth motion
- **only one hand needed to close door**



## Accessories

- container dolly
- hand pallet truck with a fork length of 600 mm
- intermediate drop-in layer
- divider strips
- rubber anti-slip matting
- label holders
- document pockets



# Applications

## Lift truck serviced operations

For all operations where materials are handled with fork lift trucks, runners with large entry gaps for all truck designs ensure excellent mobility. Even in stacks of two and fully loaded, truck handling of SL containers is safe and fast.

- excellent mobility



## Environments without powered service vehicles

In line with LEAN PRODUCTION principles, modern plants increasingly organise their material flow without the help of fork lift trucks. BITO SL containers are also perfect for these working environments, as they can be moved with a hand pallet truck with a fork length of 600 mm or with a container dolly.

- low tare weight allows manual container handling
- filled with products, SL's are easy to handle with a hand pallet truck



## Product supply

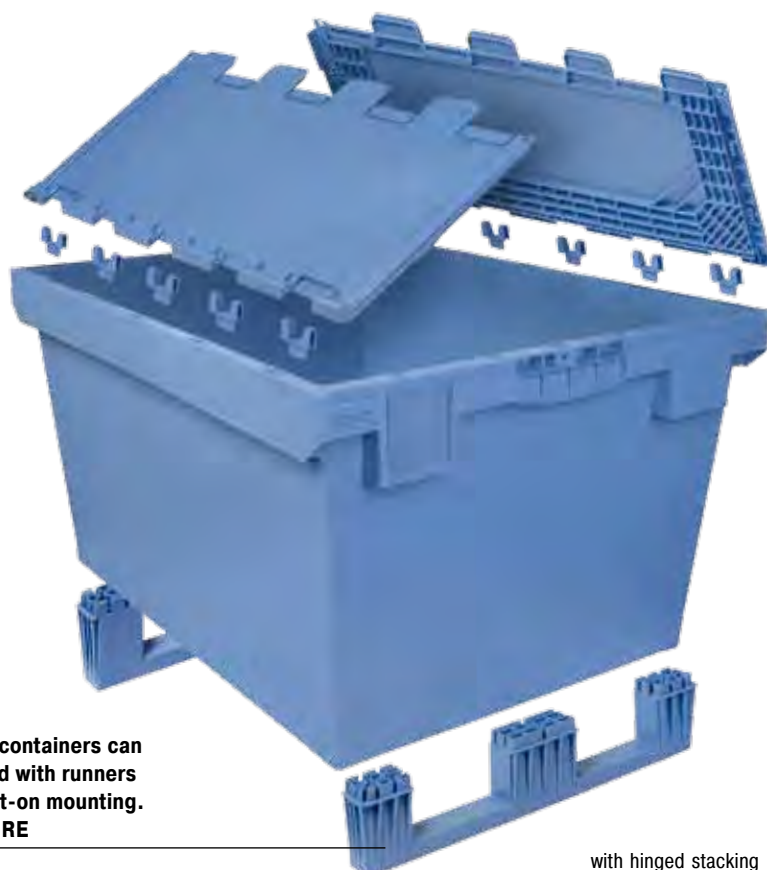
SL heavy duty containers can be conveniently moved with a dolly – whether empty or fully loaded. Supporting the LEAN principle, the SL series is ideal for operations in which materials are handled without fork lift trucks.

- empty containers can be moved without lift truck
- goods can be easily accessed, also when containers are stacked



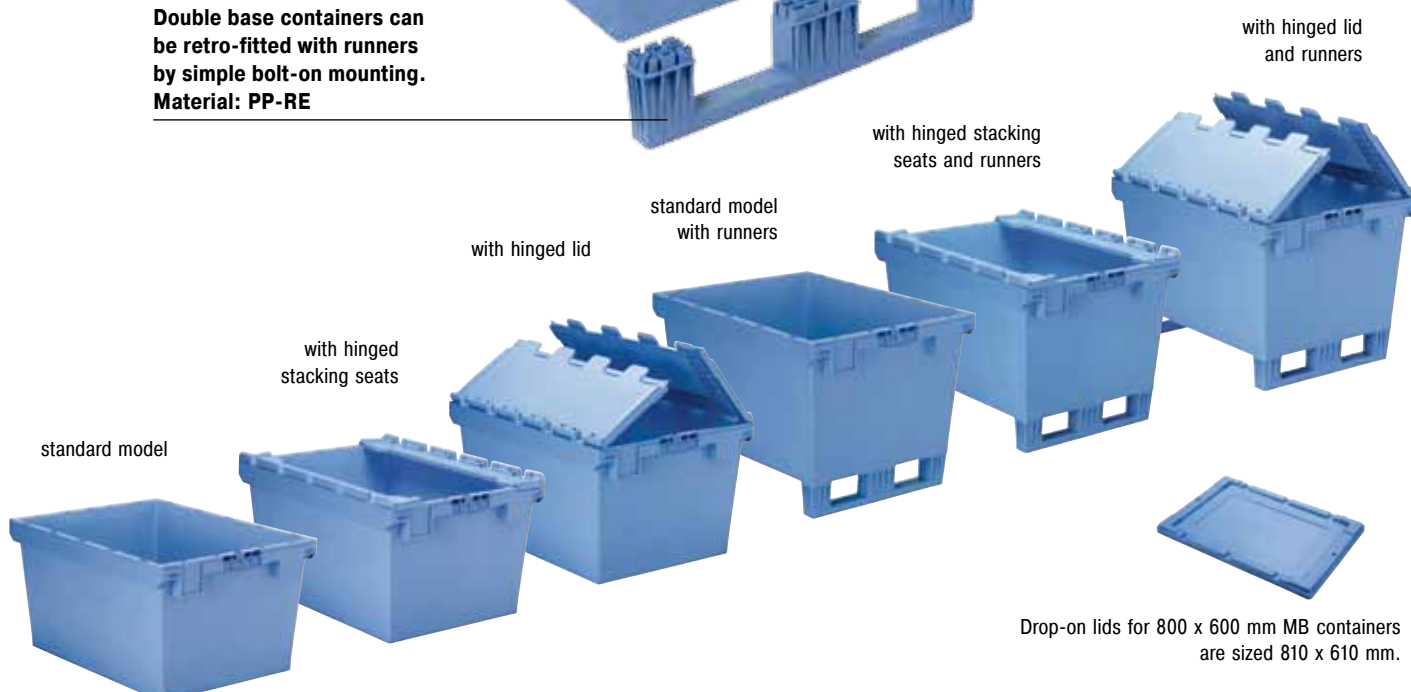
## Multi-purpose containers MB 800 x 600 mm

- 75% less volume when nested
- designed for a long service life
- adapted to European standard dimensions
- less packaging waste
- no unnecessary repacking
- stacking load of up to 800 kg



Double base containers can be retro-fitted with runners by simple bolt-on mounting.  
Material: PP-RE

Stacking load  
**200 kg**  
for double base containers



Drop-on lids for 800 x 600 mm MB containers are sized 810 x 610 mm.

### Base variations

Load capacities of containers with standard base: up to 50 kg, ribbed base: up to 75 kg, double base: up to 200 kg.



### Space saving storage



### Integrated label covers

Integrated label covers provide room for insertable address labels (paper or cardboard).

Recessed areas accept barcode or RFID labels.



### Convenient handling

Closed pocket handgrips allow easy and safe handling.



### Safety

The hinged two-part lid together with the well proven, tamper evident BITO security tags provide increased safety against unauthorised access during transport and distribution. Containers can only be opened by breaking the single use security tags.



### Label areas with dimpled surface

An area with dimpled surface on the outside of the lid allows exact positioning and removal of adhesive labels.



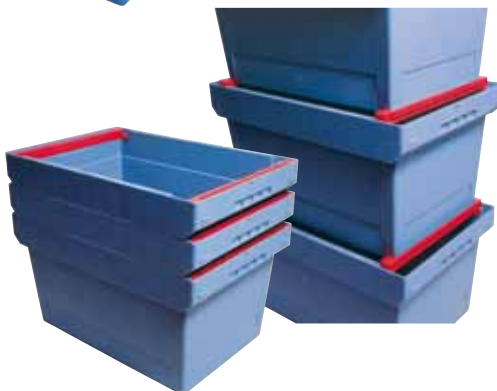
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- adapted to European standard dimensions
- less packaging waste
- no unnecessary repacking
- stacking load of up to 800 kg



### Swivel mounted stacking rails

- allow container stacking without lid



### Base dimensions:

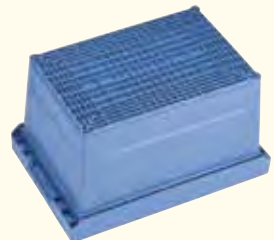
300 x 200 mm

400 x 300 mm

600 x 400 mm



Standard base



Ribbed base



Double base

### Save time

The BITO multi-purpose container MB is a storage, order picking and transport container in one. The perfect handling unit for the entire logistic chain. **Avoids unnecessary repacking and related costs.**



### Save space

Nested into each other, BITO MB's save up to **75% of freight and storage costs**. Empty containers – also those equipped with stacking rails and lid – are equally suited for nesting. The hinged two-part lids do not build up in stacks.



### European standard dimensions

All container sizes of our MB series fit the Euro pallet size of 1200 x 800 mm.

#### Container dimensions:

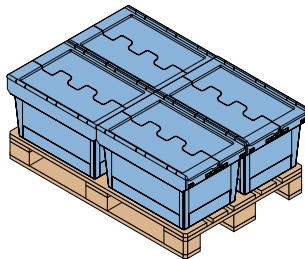
300 x 200 mm

600 x 400 mm

800 x 400 mm

800 x 600 mm

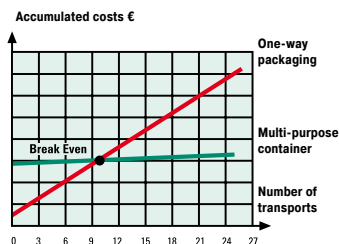
All container dimensions are available in various heights.



### Reduce costs

The MB not only helps to protect the environment, but is also very cost efficient. Save money by eliminating unnecessary repacking or repeated ordering of new cartons for the despatch of your products!

Moreover, easy container handling helps you to reduce order processing times.



### Warranty

BITO Multi-purpose containers meet the highest demands as to their robust execution and load capacities. Resistant to temperatures of -20 °C up to +90 °C, food safe and recyclable.

**All BITO MB's come with a 5 year warranty!**



### Safety

Tear-off security tags allow **optical control over unauthorised access and secure the lid.**

Meeting the high security standards of insurance companies, BITO MB's with security tag have been permitted as transport unit by parcel services and forwarders.

Company specific colours and marking upon request.





**GEPA**  
Fair Trade



### Features

- containers are used for
  - transport
  - storage
  - order picking
- various container sizes and models are employed

### Function

“Three in one” – this is the motto which best suits the BITO multi-purpose container series MB which can be used for transport, storage and order picking. Available in various Euro-sizes from 300 x 200 to 800 x 600 mm, this container series offers a high load capacity, comes with or without hinged lid and features smooth inner sides – a real allround talent for any application.

### Benefits

- containers can be nested empty to reduce storage volume by around 70%, thus allowing to save on transport costs on return trips
- no unnecessary repacking of loads for distribution
- packaging waste is reduced to a minimum
- containers can be security tagged in order to protect goods from unauthorised access



**Voigt GmbH & Co. AG**  
Pharmaceutical wholesaler



### Features

- used as order picking and dispatch unit
- with stacking rails
- pick opening at the short side
- complete with company logo

### Function

Voigt GmbH & Co. AG opted for BITO multi-purpose containers with stacking rails and a base dimension of 600 x 400 mm. The containers are 223 mm and 323 mm high and are equipped with durably fitted label holders and 6 barcode labels. Moreover, the facility also operates with BITO multi-purpose containers sized 600 x 400 x 273 mm with pick opening on the short side. The containers with stacking rails are used for order picking. Without the need for repacking, the collated orders are dispatched in the same containers to some 1500 pharmacists and drug stores.

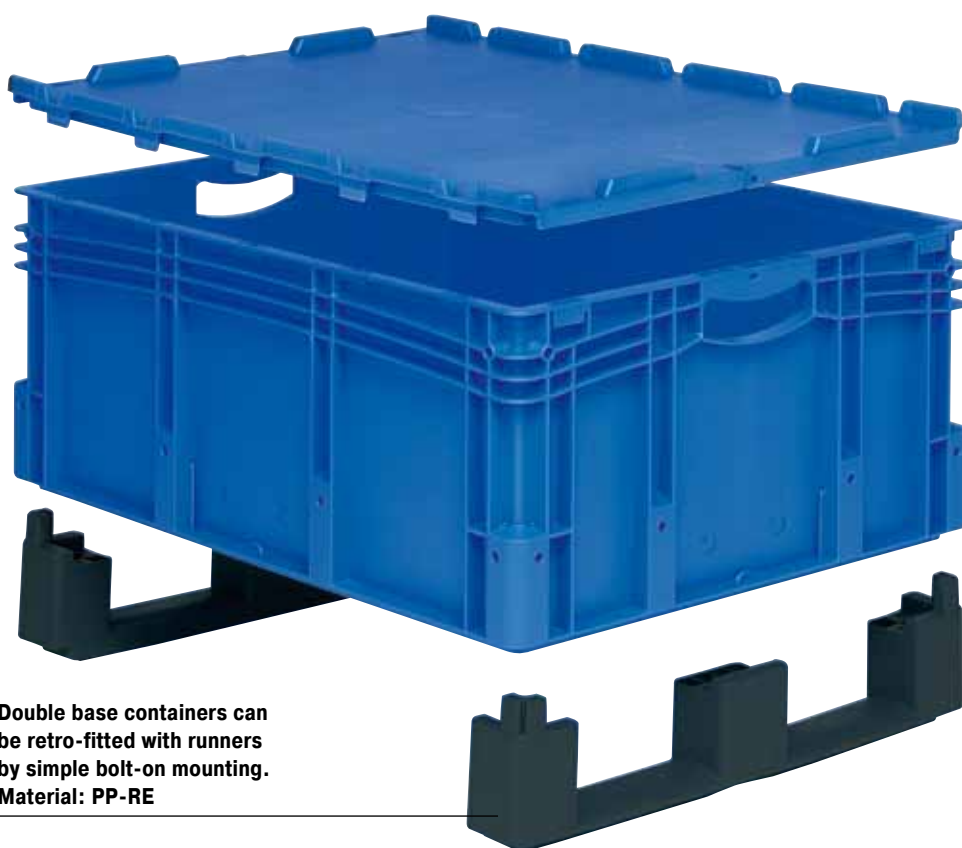


### Benefits

- with their dimensions and their textured base the containers are ideal for handling on conveyors
- the container volume has been chosen to suit standard dispatch quantities
- no need for repacking the goods, as orders are picked directly into the dispatch containers
- stacking rails provide safe stacking along with full volume utilisation
- when nested, 75% of the container volume is saved on return trips

## Stacking containers XL 800 x 600 mm

- optionally available with runners for hand pallet truck and fork lift truck handling
- label holder on all 4 sides
- large hand grip with rounded hand rest
- location holes for lifting devices
- centering holes on all sides for automated bin handling



Double base containers can be retro-fitted with runners by simple bolt-on mounting.  
Material: PP-RE

Stacking load  
**200 kg**  
for double base containers

5 height options:

120 mm

220 mm

320 mm

420 mm

520 mm



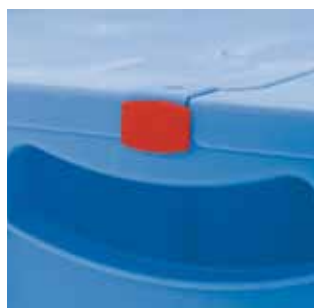
### Base variations

Containers with a standard base have a load capacity of 60 kg, double base containers can take loads of up to 200 kg.



### Hinged lid

The hinged lid allows safe stacking. It can be security tagged and is firmly attached to the containers.



### Handgrip variations

The ergonomically designed open hand grips allow convenient carrying. They can also be located on the container's long sides.

Closed pocket handgrips protect the contents from dust and unauthorised access.



### View and pick opening

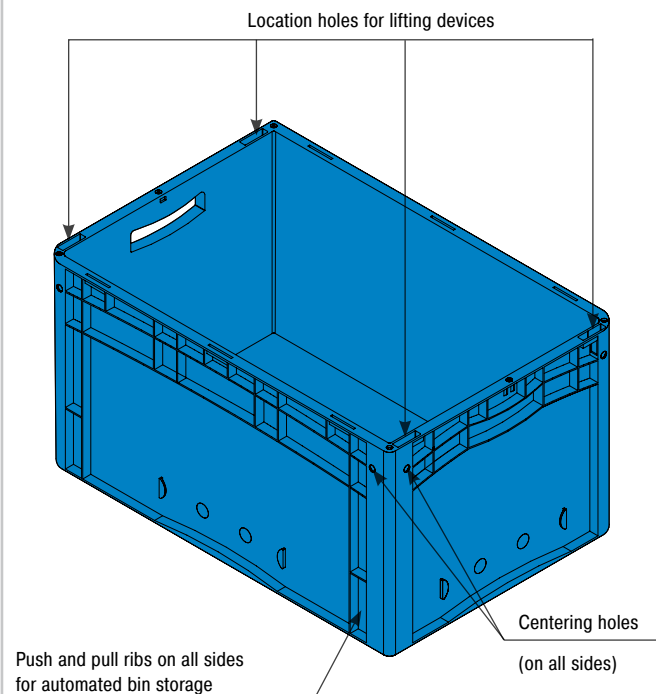
Containers with view and pick opening allow convenient order picking, even from stacked containers. Optionally, the opening can be closed by a window to protect the contents.



## European standard stacking containers XL

also refer to page 86-87

### Construction details to support automated handling



### Advantages

- many models and sizes
- numerous accessories
- containers can be subdivided by insertable bins, longitudinal and cross dividers
- barcode areas on the hand grip sides
- reinforcing ribs provide high rigidity
- tamper evident security tags



### Large storage volume

Due to the optimised side construction of XL containers, storage volume is particularly large.

- large inside volume



### Ribbed base

Ribbed base containers can carry up to 50 kg and have a very low base deflection of 5 mm max.

- high rigidity
- load capacity of up to 50 kg\*
- max. base deflection of 5 mm\*



### EURO footprint

Stacking container dimensions have been adapted to the size of Euro pallets which avoids repacking loads for further transport.

Stacking loads:

400 x 300 mm = 250 kg

600 x 400 mm = 300 kg

- sizes adapted to Euro pallets
- no repacking of loads for despatch



### Double base

Double base containers can carry up to 50 kg and have a very low base deflection of 2 mm max. With their smooth outer base, the containers offer particularly good travel characteristics on conveyors.

- high rigidity
- load capacity of up to 50 kg\*
- max. base deflection of 2 mm\*



\* All load capacities indicated refer to UDL, lengthwise storage and an ambient temperature of 23 °C



**Wenglor Sensoric GmbH**  
Sensor systems



### Features

- ribbed base containers have a load capacity of up to 50 kg
- containers are made from electrically conductive polypropylene
- containers complete with barcode labels and logos applied in tampon print
- container sides are completely closed

### Function

The company develops, manufactures and distributes sensors for contact free object recognition for use in mechanical engineering and in the packaging industry. In order to ensure that the optimum filling height is not exceeded, Wenglor opted for XL stacking containers type XL64121R and small parts containers KLT type 64220R to stock their electronic parts. The ergonomically designed pocket handgrips allow convenient handling and the electrically conductive material prevents that undesired electric charging could damage the goods. The containers are stocked in an automated bin storage facility.

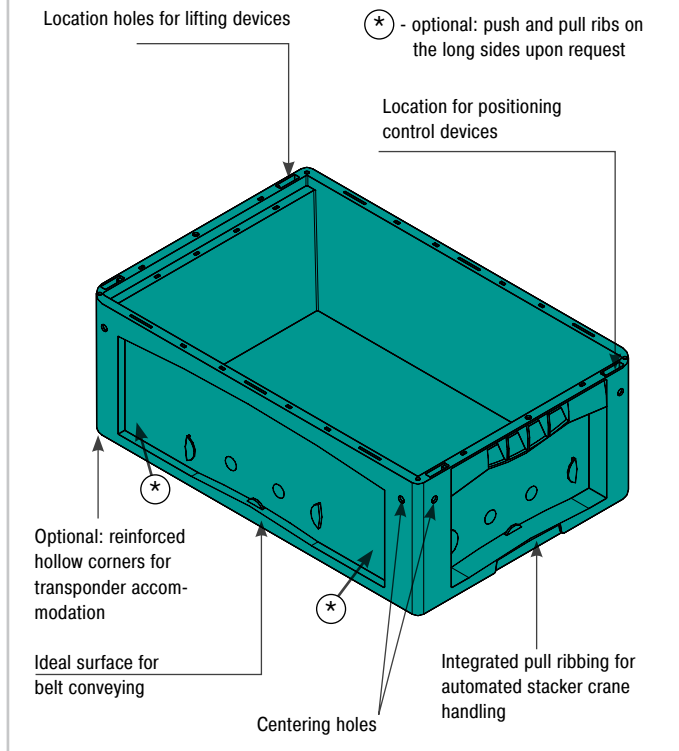
### Benefits

- optimum filling height
- ergonomic handling
- container material prevents electro-static discharge
- protection of sensitive components

## Small parts containers KLT

also refer to page 88-89

### Construction details to support automated handling



### Advantages

- many models and sizes
- broad range of accessories
- containers can be subdivided by insertable bins, longitudinal and cross dividers
- tamper evident security tags
- company logos can be applied by tampon/screen print, hotstamping or injection moulding



### Standard base

Load capacities depend on the container size and are between 25 and 50 kg.

With the smooth outside surface of the base, the container has particularly good travel characteristics on conveyors.

- load capacities are between 25 - 50 kg\* depending on the container size



### Conveyor handling

Troublefree operation on all conveyor systems. Outstanding travel characteristics on all roller tracks and roller conveyors, on belt and chain conveyors, transfer lines, etc.

- optimum travel characteristics
- silent operation



### Ribbed base

Ribbed base containers can carry up to 50 kg and have a base deflection of less than 1 mm.

- load capacity of up to 75 kg\*
- base deflection of less than  $< 1 \text{ mm}^*$



### Transport

The KLT container dimensions are adapted to the current pallet sizes to make optimum use of a lorry's freight space. Safe stacking of up to 500 kg – this applies to containers with or without lid.

- safe stacking
- high stacking load
- dimensions adapted to the size of Euro pallets

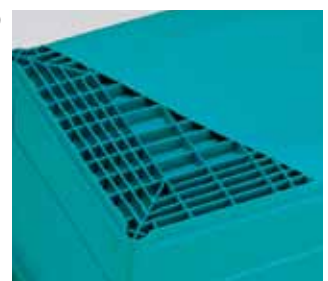


### Double base

Double base containers can carry up to 75 kg and have a very low base deflection of less than 2 mm.

With the smooth outside surface of the base, the container has particularly good travel characteristics on conveyors.

- load capacity of up to 75 kg\*
- base deflection of less than  $< 1 \text{ mm}^*$



\* All load capacities indicated refer to UDL, lengthwise storage and an ambient temperature of 23 °C

## Plastic trays



Tray storage has become increasingly important in automated storage and is now a cost reducing factor in the logistics business. As a tray can accommodate bins or cartons of various sizes and shapes, it is possible to store also those goods which, by their characteristics, would not be suited for automated handling.

**BITO provides plastic trays manufactured in their own plants.**



### Advantages

- “adapter“ for unit loads which would normally not be suited for automated bin storage; available in the dimensions of 670 x 410 mm, 640 x 426 mm, 600 x 400 mm and 400 x 300 mm
- cartons, even if damaged, can now be handled in automated installations
- safe storage of plastic bins without any features to support automated handling
- appropriate for all types of stacker cranes
- a smooth outer base and edge ribbing make for low noise travelling
- double base (sandwich construction) upon request



### Subdivision with Euro-sized bins

applies for tray size 640 x 426 mm

