

WITH BLOKSMA YOU HAVE A TRIPLE BENEFIT

More efficient production: Optimising lead times

Transportation, repacking and restacking are non-productive activities. Bloksma logistics solutions bring your production to flow freely, without unnecessary detours.

Working more ergonomically: Protecting employees

With pneumatic and electric Bloksma lifters, containers at the processing stations are positioned at the correct, back-friendly height. This takes the strain off your employees and reduces handling time.

Cost-saving:

Reduction of material stocks

High work-in-progress and large stocks are an enormous cost factor. With Bloksma logistic solutions, you are able to reduce your material stocks, save costs and yet stay flexible.

Leading companies put their trust in Bloksma solutions:

AEG . Allweiler . Amr . Arburg . Atlas Copco . Audi . Bar . Bauknecht . Benzinger . Beru . Bitzer . BMW . Borg Warner . Bosch . Brose . Caterpillar . Continental . Danfoss . Eaton . ebmpapst . EMAG . FAG . Federal Mogul . Fein . Felsomat . Festo . Ford . Georg Fischer . Getrag . Grob . Güdel . Hatz . Heidelberg . Husky . INA . irmscher . Kodak . Kuka . Liebherr . LUK . Lütze . Magna . Magna Steyr . Mahle . MAN Roland . Mannesmann . Mercedes-Benz . Metabo . Micro Components . Opel . Porsche . Promot . Schaeffler . Stihl . Still . Traub . Valeo . VW . ZF ...

PERFECT LOGISTICS

As BLOKSMA products adhere to the current manufacturing standards in their basic construction, they can be used in all areas.



1 IN SUPPLY



7 IN DELIVERY

The material stays in motion from the preliminary supplier to your customer: BLOKSMA logistics ensures efficient production.



6 IN ASSEMBLY

BLOKSMA offers tailor-made, sophisticated workpiece carrier systems for automated production. From small and light to large and heavy. Lifters bring the load up conveniently and make every workplace ergonomical.



Material needed for manufacture and assembly is supplied in a clearly structured manner according to the first in – first out principle in the

5 IN ASSEMBLY SU



IN ALL AREAS

2 IN THE INCOMING GOODS DEPARTMENT



Durable, customised, with or without push handle – BLOKSMA trolleys for modern, forklift-free production are available in various designs, dimensions and loading capacities; either in standard sizes or specially manufactured to suit your needs.

3 IN PRODUCTION



Lifters bring loads to a comfortable working height, thereby creating an ergonomic workplace. This protects your employees' health and reduces handling costs. Also available in tandem.

4 IN IN-HOUSE TRANSPORT



Logistics systems such as BLOKSMA taxi or portal wagons ensure that only as much material is provided in assembly and manufacture as is necessary, or as much as has already been used.

supermarkets and KAN-BAN-Systems – in the smallest possible space, always available and always in the required amounts.

APPLY






MATERIAL IN FLOW

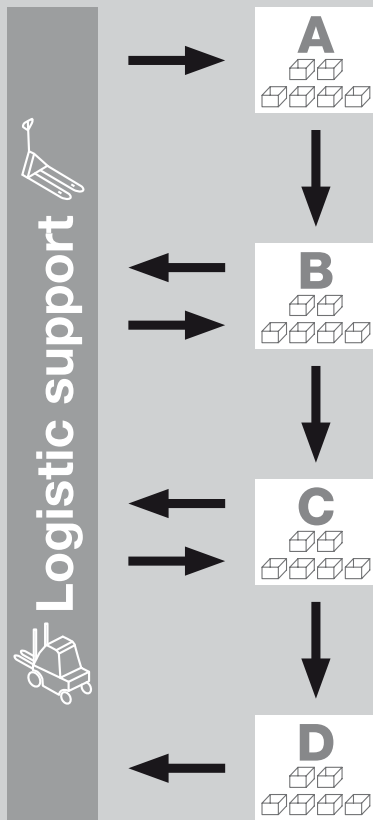
AN ECONOMIC PERSPECTIVE ON THE MATERIAL LOGISTICS

The optimisation of value-creating processing stations is only one aspect of lean production. In lean production, the material flow plays a decisive role. The transport time from the warehouse via the interim storage facility to the repacking workstations is unproductive and therefore expensive.

In contrast, an optimised material flow offers a big reduction in time and material stocks.

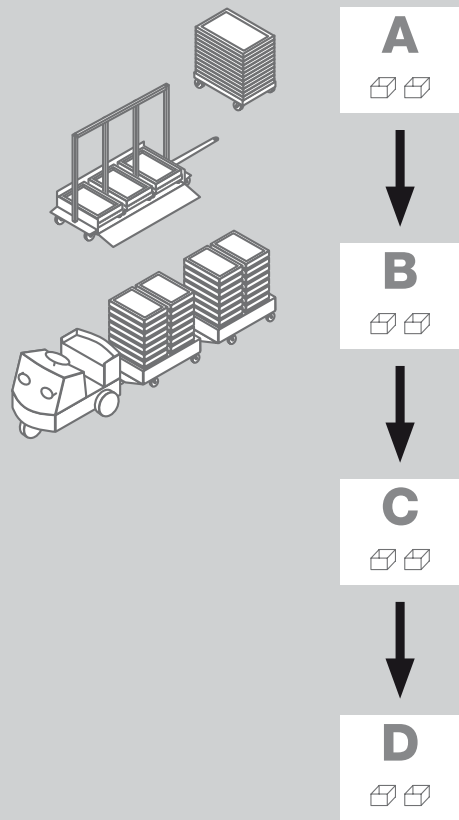
-  channels of distribution without added value
-  stations in the value creation process
-  constrained logistics support, e.g. lift trucks, fork lifts, ...

BEFORE



Transport time per station: 3x

AFTER



Transport time per station: 1x

Fictitious time saving sample calculation:

Transport time one-way	Value creation stations	Time requirement before (3 ways)	Time requirement after (1 way)	Savings per load
2 min.	4	$2 \times 4 \times 3 = 24 \text{ min.}$	$2 \times 4 \times 1 = 8 \text{ min.}$	$24 - 8 = 16 \text{ min.}$

➔ For 4 loads per shift in a 3-shift operation, you can achieve annual savings of (240 working days):
 $16 \text{ min.} \times 4 \times 3 \times 240 = 46080 \text{ min.} = 768 \text{ hours}$

OPTIMISE YOUR “PRODUCTIVITY FACTOR” PFA

$$\text{PFA} = \frac{\text{Time total}}{\text{Time value-creation}}$$

What is PFA?

The productivity factor establishes the relationship between the total duration of the product cycle with the duration of the actual value creation process. The smaller the factor, the more efficient the manufacturing process. The factor can be optimised by reducing the activities which do not generate added value, such as the material transport from one processing station to the next.

Time total delivery, manufacturing times, in-house transport, standing time, distribution

Time value-creation processing, assembly, machine operating times

LET’S USE A CONCRETE EXAMPLE OF A MANUFACTURER OF PROFESSIONAL POWER TOOLS

Targets

- increased efficiency
- ground-level storage without shelving and forklifts
- a two-third reduction of work-in-progress
- halving the lead time
- increased productivity per unit area
- improved ergonomics

Proposed solutions

- "getting the production moving":
- modern layout with just-in-time-principle as flow production
 - removal of high shelving with a roller conveyor
 - forklift-free zones
 - reduction of walk and search paths, as well as manual repacking and restacking
 - uniform SLC container from the supplier to the customer

BEFORE		AFTER	
Lead time / working day	1587 min.	Lead time / working day	595 min.
Value creation <small>estimated</small>	200 min.	Value creation <small>estimated</small>	200 min.
$\text{PFA} = \frac{1587 \text{ min.}}{200 \text{ min.}} = 7,94$		$\text{PFA} = \frac{595 \text{ min.}}{200 \text{ min.}} = 2,98$	
Stock	4.950.000 €	Stock	1.600.000 €



Savings

Time saving through trolley usage	per working day	992 min.
Interest gained through lead time reduction	from 8 to 3 working days	per working day 1.315 €
Stock reduction	per year	3.170.000 €

Capital expenditure total approx. ca. 90.000 €

A PRODUCTION IS ONLY AS GOOD AS ITS MATERIAL LOGISTICS

Material transport time is a weighty cost factor in the manufacturing process. With BLOKSMA know-how and BLOKSMA products, you can also optimise your material flow, thereby saving time and money. An investment with a worthy return.

BLOKSMA – SOLUTIONS FOR EFFECTIVE MATERIAL LOGISTICS



TROLLEYS

Transport and handling made easy: BLOKSMA trolleys form the foundation for a “rolling” production. Nothing is left behind with these systems and everything can be easily and quickly brought to its destination as required.

Small, flexible units can be built with the aid of our trolleys – clear, space-saving and brought to its destination quickly thanks to short running times. You achieve a high level of flexibility and can therefore make optimum use of all further technical options that are essential in modern, forklift truck-free production.

Whether forwarding on to the next work stage or ergonomics at the workstation or even Kanban planning and the associated options to reduce stock values or lead times – you choose the correct means.






Trolleys have numerous names: trolley, dolly, carriage, transport roller... their function is the same, namely to roll the goods to be transported across the floor.



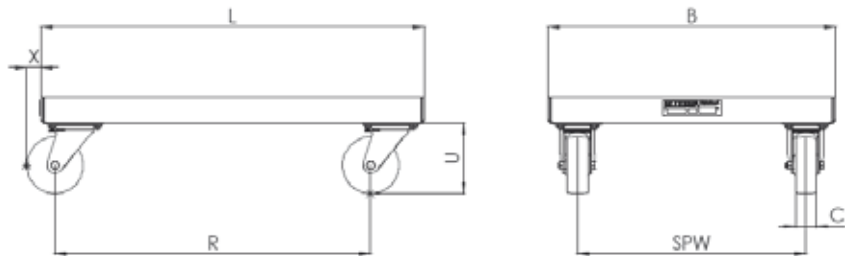
The BLOKSMA trolley is available in the most diverse of designs, dimensions and load-bearing capacities, either in standard measurements or specially adapted to your requirements:

- Durable steel, stainless steel or aluminium construction
- Wheels from well-known quality suppliers
- Perfectly adapted to the goods to be transported
- Oil-tight for machining-based production
- With fixed or removable push handles
- With towing bar, suitable for train formation
- With additional elements for the requirements in automatic lines
- With additional structures to fulfil ergonomic requirements

TROLLEYS
Product Overview

	Trolleys for KLT BOR up to 500 kg	107
	Trolleys for light loads BOK up to 250 kg	110
	Trolleys for light loads – oil-tight BOK up to 500 kg	111
	Trolleys – moulded version, oil-tight BOZ up to 300 kg	112
	Trolleys for heavy loads BOR 250 kg and more	113
	Trolleys – Special versions BOV	114
	Trolleys – Racks and accessories	115

Check List - Layout Trolley



Criteria	Dimensions / Notes
L = length of trolley	
B = width of trolley	
SPW = track width (centre)	
C = wheel width	
R = wheel distance - length	
X = excess length – swivel castor	
U = underpass height/clearance	
Wheel pairing	
Number of swivel castors / fixed castors	
Wheel quality - coating	PA- / PP or similar
Wheel diameter	
ESD version: (electric conductive)	yes / no
Brake	yes / no
Directional locking device	yes / no
Free from abrasion / wheel coating / colour	
Kind of bearings / castors ball bearing	
Product to be carried (description – dimensions – look - please send photo or drawing)	
Centering of product to be transported	
Pan oil-tight	yes / no
Material	alu / steel / steel pre-galvanized / stainless steel
Surface	colour powder coated / zinc coated
Adapted for automation	yes / no
Requested load capacity	
Push handle	yes / no
Train version / drawbar	yes / no
Other requirements	
Requested additional products	
Lifter	yes / no
Supermarket station	yes / no
Taxi cart / portal cart	yes / no
Required quantity	

TROLLEYS

Trolleys

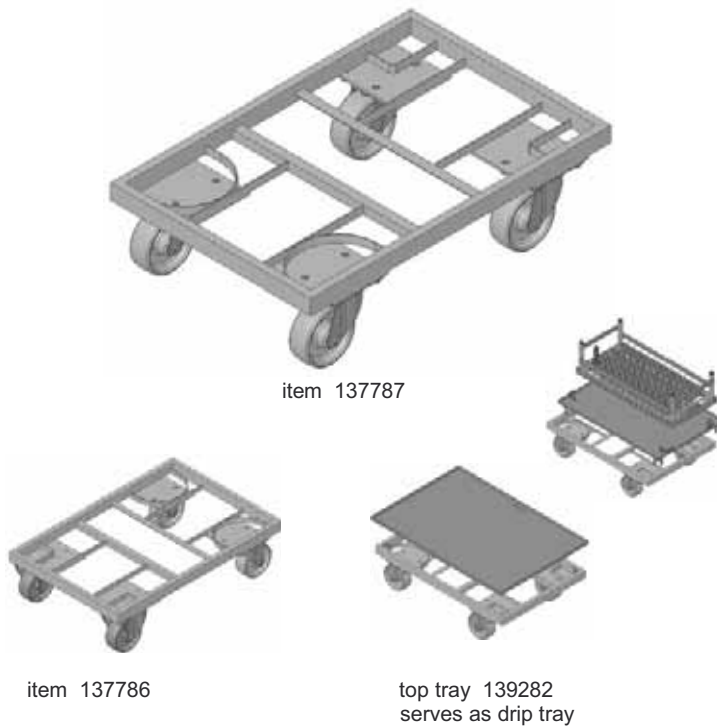
BOR
for KLT
max. 500 kg

For indoor transport of a stack of boxes

Various wheel qualities (PP, rubber coated or ESD)

Adapted to transport pallets
(see chapter LOGISTICS TRF)

Standard sizes 400 x 400 / 600 x 400
as well as 800 x 600 mm

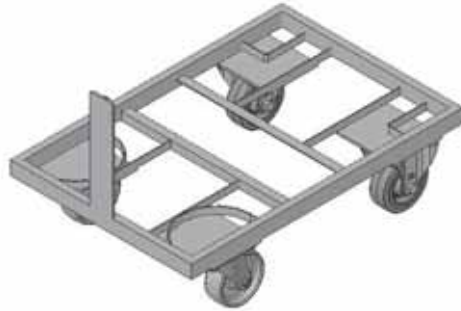


Item no.	Product to be carried	Size of trolley and load	Centering of product	Wheels	Wheel design
138151 138152	KLT 400 x 400 mm KLT 400 x 400 mm	400 x 400 mm 400 x 400 mm max. 250 kg	All on inside edge of try	PA ESD Hard plastic Ø 100 mm	2 swivel and 2 fixed castors
137786 138149 142700 142701	KLT 600 x 400 mm KLT 600 x 400 mm KLT 600 x 400 mm KLT 600 x 400 mm	600 x 400 mm 600 x 400 mm 600 x 400 mm 600 x 400 mm max. 250 kg	On inside edge of try	PA ESD-Hard plastic rubber 2x rubber / 2x PA all Ø 100 mm	2 swivel and 2 fixed castors
137787 138150 138484 139319	KLT 600 x 400 mm KLT 600 x 400 mm KLT 600 x 400 mm KLT 600 x 400 mm	600 x 400 mm 600 x 400 mm 600 x 400 mm 600 x 400 mm max. 250 kg	On inside edge of try	PA ESD-Hard plastic rubber 2x rubber / 2x PA all Ø 100 mm	4 swivel castors

Further types / dimensions on request.

Accessories / compatible parts for this trolleys please refer to page 115

TROLLEYS



item 135716



item 142595
centering at the side



item 137785
centering via corner angle

Trolleys BOR

for KLT
max. 500 kg

For indoor transport of a stack of boxes

Various wheel qualities (PP, rubber coated or ESD)

Adapted to transport pallets
(see chapter LOGISTICS TRF)

Standard sizes 400 x 400 / 600 x 400
as well as 800 x 600 mm

Item no.	Product to be carried	Size of trolley and load	Centering of product	Wheel	Wheel design
137785 138154 142509 142698	KLT 600 x 400 mm KLT 600 x 400 mm KLT 600 x 400 mm KLT 600 x 400 mm	600 x 400 mm 600 x 400 mm 600 x 400 mm 600 x 400 mm max. 250 kg	locating profile	PA-wheels ESD-Hard plastic rubber 2x rubber / 2x PA all Ø 100 mm	2 swivel and 2 fixed castors
142595 142596 142597 142703	KLT 600 x 400 mm KLT 600 x 400 mm KLT 600 x 400 mm KLT 600 x 400 mm	600 x 400 mm 600 x 400 mm 600 x 400 mm 600 x 400 mm max. 250 kg	corner angle	PA-wheels ESD-Hard plastic rubber 2x rubber / 2x PA all Ø 100 mm	4 swivel castors

135716 138157 141650 139869	KLT 600 x 400 mm KLT 600 x 400 mm KLT 600 x 400 mm KLT 600 x 400 mm	600 x 400 mm 600 x 400 mm 600 x 400 mm 600 x 400 mm max. 250 kg	inside frame	PA-wheels ESD-Hard plastic rubber 2x rubber / 2x PA all Ø 100 mm	With drawbar 2 swivel and 2 fixed castors
138155 138156 142699 138801	KLT 600 x 400 mm KLT 600 x 400 mm KLT 600 x 400 mm KLT 600 x 400 mm	600 x 400 mm 600 x 400 mm 600 x 400 mm 600 x 400 mm max. 250 kg	locating profile	PA-wheels ESD-Hard plastic rubber 2x rubber / 2x PA all Ø 100 mm	With drawbar 2 swivel and 2 fixed castors

Further types/dimensions on request.

Accessories / compatible parts for this trolleys please refer to page 115

TROLLEYS



item 138158



item 138160



item 136629 / 140796



item 139211

Trolleys

BOR

for KLT & GLT
max. 500 kg

For indoor transport of a stack of boxes

Various wheel qualities (PP, rubber coated or ESD)

Adapted to transport pallets (see chapter LOGISTICS TRG)

Standard sizes 600 x 400/
800 x 600 mm

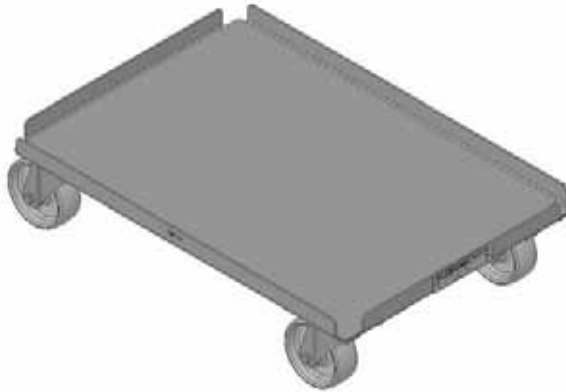
Item no.	Product to be carried	Size of trolley and load	Centering of product	Wheels	Wheel design
138158 138159 142697	2 KLT 600 x 400 or 1 GLT 800 x 600	800 x 600 mm max.1.000 kg	on inside frame	PA ESD-Hard plastic	3 swivel and 2 fixed castors 4 swivel castors
138160 138428 142427 142426	2 KLT 600 x 400 or 1 GLT 800 x 600	800 x 600 mm max.1.000 kg	on inside frame with drawbar	PA ESD-Hard plastic rubber 2x rubber / 3x PA	3 swivel and 2 fixed castors

Accessories transport pallet and push holders

Item no.	Product to be carried	Size of trolley and load	Remark
136629 140796	4 trolleys 600 x 400 or 2 trolleys 800 x 600 From side 107 & 108 With 4 guiding steel rail	max.1.000 kg	Trolleys will be locked on the pallet
139211	Empty and very low trolleys (staple)		Push holders for trolleys

Further types/dimensions on request

TROLLEYS



item 129928

Trolleys

BOK I

for light loads
max. 250 kg

For indoor transport of a stack of boxes

Adapted to automation on request

Various wheel qualities (polyamide, polyurethan coated, ESD or similar)

Designed for various boxes/containers (work piece carriers, boxes, wire baskets or similar)

Various material available (steel, stainless steel, aluminium)



item 134138



item 134194



item 139205

Item no.	Product to be carried	Size of trolley and load	Centering of product	Wheels	Wheel design
129928	Box 600 x 400 mm	610 x 420 mm 250 kg	on inside edge of the tray	Ø 100 mm PA	4 swivel castors
134138	Box 600 x 400 mm	610 x 420 mm 250 kg	On inside edge with crane hook	Ø 125 mm rubber	4 swivel castors
134194	Box 600 x 400 mm	620 x 420 mm 250 kg	inside edge of the tray	Ø 100 mm PA	4 swivel castors
136997	Box 600 x 400 mm	620 x 420 mm 250 kg	on inside edge of the tray	Ø 100 mm ESD	4 swivel castors
139205	Box 600 x 400 mm	610 x 420 mm 250 kg	on inside edge one side can be opened	Ø 100 mm PA	4 swivel castors
130520	Box 800 x 600 mm	830 x 630 mm 250 kg	on inside edge of the tray	Ø 100 mm PA	4 swivel castors

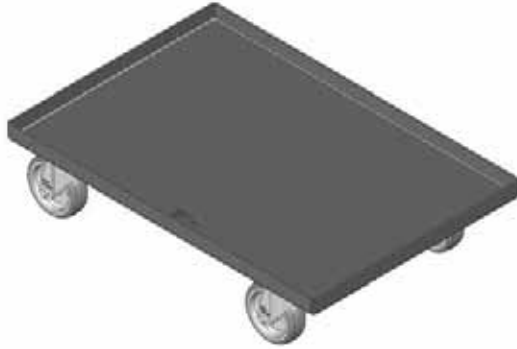
Other wheel designs (4 swivel castors / 2 swivel and 2 fixed castors) as well as wheel qualities such as polyamide, polyurethane coated polyamide, ESD, rubber or similar available.

Other models / dimensions on request.

TROLLEYS

Trolleys BOK II

for light loads – oil-tight
up to 500kg



item 134744

For indoor transport of a stack of boxes

Adapted to automation on request

Various wheel qualities
(polyamide, polyurethane coated,
ESD or similar)

Designed for various
boxes/containers (work piece
carriers, boxes, wire baskets or
similar)

Various material available (steel,
stainless steel, aluminium)



item 129967



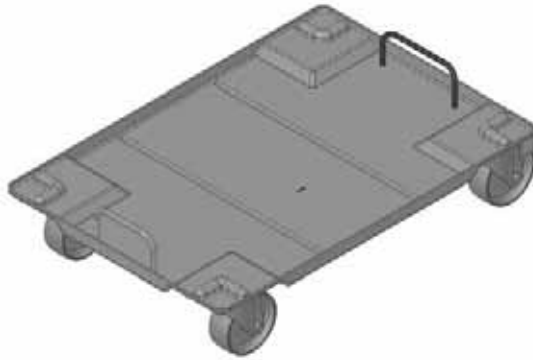
item 134096

Item no.	Product to be carried	Size of trolley and load	Centering of product	Wheels	Wheel design
134744	Box 600 x 400 mm	620 x 420 mm 250 kg	on inside edge of the tray	Ø 100 mm PA	4 swivel castors
136999	Box 600 x 400 mm	620 x 420 mm 250 kg	on inside edge of the tray	Ø 100 mm ESD	4 swivel castors
129967	Box 600 x 400 mm	680 x 510 mm 400 kg	on inside edge of the tray	Ø 100 mm PA	4 swivel castors
134096	Box 800 x 600 mm	845 x 655 mm 500 kg	Centering angle	Ø 125 mm PA	4 swivel castors
137000	Box 800 x 600 mm	845 x 655 mm 500 kg	Centering angle	Ø 125 mm ESD	4 swivel castors

Other wheel designs (4 swivel castors / 2 swivel and 2 fixed castors) as well as wheel qualities such as polyamide, polyurethane coated polyamide, ESD, rubber or similar available.

Other models / dimensions on request.

TROLLEYS



item 125373



item 129850



item 129057



item 135327



item 136511 / 140120



item 125952

Trolleys BOZ

moulded oil-tight version
up to 300 kg

For indoor transport of a stack of
boxes

size 630 x 430 mm

Adapted to automation on request

Various wheel qualities
(polyamide, polyurethane coated,
ESD or similar)

Designed for various
boxes/containers (work piece
carriers, boxes, wire baskets or
similar)

Various material available (steel,
stainless steel, aluminium)

Item-No.	Product to be carried	Size of trolley and load	Centering of product	Wheels	Wheel design
129057	box / KLT 600 x 400 mm	630 x 430 mm 450 kg	Centering angle	Ø 100 mm PA	4 swivel castors
129850	Wire WPC 600 x 400 mm	630 x 430 mm 450 kg	Handle	Ø 100 mm PA	2 swivel 2 fixed castors
125373	Wire WPC 600 x 400 mm	630 x 430 mm 450 kg	Handle	Ø 100 mm PA	4 swivel castors
135327	Draht-WST 600 x 400 mm	630 x 430 mm 300 kg	Handle with insertable push holder	Ø 100 mm PA	4 swivel castors
136511	Wire WPC 600 x 400 mm	630 x 430 mm 450 kg	Handle	Ø 100 mm PA	2 swivel 2 fixed castors
140120	Wire WPC 600 x 400 mm	630 x 430 mm 450 kg	Handle	Ø 100 mm PA	4 swivel castors
125952	Wire WPC 600 x 400 mm	630 x 430 mm 450 kg	Staple bars	Ø 100 mm PA	4 swivel castors

Other wheel designs (4 swivel castors / 2 swivel and 2 fixed castors) as well as wheel qualities such as polyamide, polyurethane coated polyamide, ESD, rubber or similar available.

Other models / dimensions on request.

TROLLEYS



item 134574



item 135511



item 136448



item 136448



item 139921

Trolleys BOR

for heavy loads
from 250 kg

For indoor transport of a stack of boxes

Adapted to automation on request

Various wheel qualities
(polyamide, polyurethan coated,
ESD or similar)

Designed for various
boxes/containers (work piece
carriers, boxes, wire baskets or
similar)

Various material available (steel,
stainless steel, aluminium)

Item no.	Product to be carried	Size of trolley and load	Centering of product	Wheels	Wheel design
134574	Box 800 x 600 mm	865 x 655 mm 400 kg	Centering angle	Ø 125 mm	4 swivel castors
142290	Box 800 x 600 mm	800 x 600 mm 500 kg	Incline deposit Centering angle	Ø 100 mm	4 swivel castors
135511	Box 1.200 x 800 mm	1.265 x 855 mm 700 kg	Centering angle	Ø 125 mm	4 swivel castors
135743	Box inclined schräg 1.200 x 800 mm	1.327 x 931 mm 700 kg	Incline deposit Centering angle	Ø 150 mm	4 swivel castors
138267	Box 1.200 x 1.000 mm	1.265 X 1.010 mm 500 kg	Centering angle	Ø 150 mm	4 swivel castors
136448	Box inclined 1.200 x 1.000 mm	1.335 x 1.150 mm 1.000 kg	Incline deposit Centering angle	Ø 150 mm	4 swivel castors

Other wheel designs (4 swivel castors / 2 swivel and 2 fixed castors) as well as wheel qualities such as polyamide, polyurethane coated polymide, ESD, rubber or similar available.

Other models / dimensions on request.

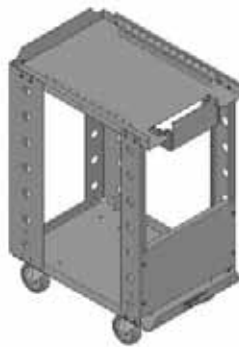
TROLLEYS



item 136686
high deposit



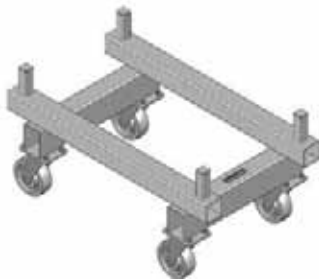
item 131904



item 137610
(high deposit & roll conveyor)



item 135290
(in house)



item 130755



item 142595



item 134488

Trolleys BOV

Additional versions

Additional trolleys according to customers' requirements (also for automation) available.

Other models / dimensions on request.

TROLLEYS



item 129851

Trolleys Accessories

Collecting rack

For space-saving storage of empty trolleys

Push handles

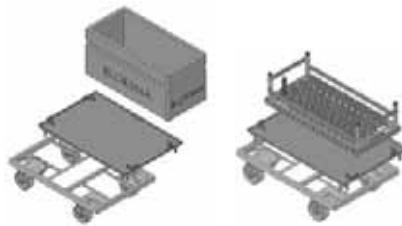
Appliances for ergonomic transport of empty trolleys or trolley stacks with low height

Empties racks



item 138648

Top tray



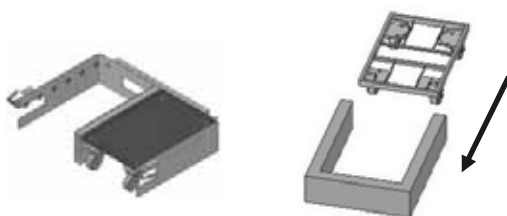
item 140036 / 139155
serves as drip tray

Push holder



item 139211 / 139510

Centering stations



item 131953

item 142454

Floor detergents



item 142455

Further models / dimensions on request.

TRANSPORT LOGISTICS

Perfect conditions for lean production: We offer safe logistics solutions for the storage and transport of carriers based upon standardised components.

Adapted to the product-specific requirements, we design storage cabinets and mobile supply solutions – all guaranteed to be process-optimised.

BLOKSMA has developed a varied product range to meet the requirements that are different in all companies that will also fulfil your demands. A continuous further development guarantees the necessary head start in order to always be able to satisfy new requirements.

BLOKSMA can also help you to organise an optimum material flow with reduced stock costs and significantly lower lead times.

Logistics systems such as milkruns ensure that only as much material as is necessary or has already been consumed is provided during assembly or production.

There are two types of milkrun systems:



An **in-house milkrun** transports goods from a supermarket to a point of consumption according to a defined schedule in a particular order.

The delivery volume is controlled by so-called Kanban cards that initiate the subsequent delivery once again when there is a demand. A further advantage is the fact that the emptied containers are constantly returned thanks to the circuit-type system, thus meaning that the workstation is not blocked by empty containers.

During a **cross-company milkrun**, the required volume is delivered to the customer's incoming goods department by the respective suppliers.

Stocks, procurement costs and transport costs can be significantly reduced and, at the same time, the permanent availability of the products in assembly and production can be improved by defining the delivery volumes, travel routes and travel schedules – even in the case of high product variety and assembly requirements in the sequence.

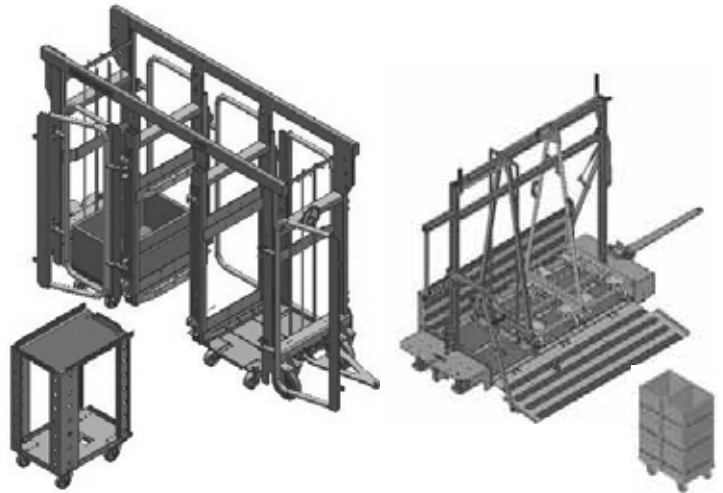
TRANSPORT LOGISTICS – Product Overview

	<p>Milkrun – Taxi Carts Gantry Carts TRT (Taxi cart with ramp)</p>	<p>119</p>
	<p>Milkrun – Gantry Carts TRP (trolleys run on wheels)</p>	<p>120</p>
	<p>Milkrun – Platform carts TRP</p>	<p>121</p>
	<p>Milkrun – Shelf carts TRR</p>	<p>122</p>
	<p>Racks und shelves TFG</p>	<p>123</p>
	<p>Transport cabinets TFS</p>	<p>124</p>
	<p>Transport carts TRW</p>	<p>125</p>

Check List - Layout Transport Logistics – Milkrun Indoor

To be handled

Pallet cage / Euro wooden pallet	
Trolley 1.200 x 800 mm	
Trolley 800 x 600 mm	
Trolley 600 x 400 mm	
Trolley 400 x 400 mm	
Other	



Number of segments	
1 unit	
2 units	
3 units	

Weight	
Weight per segment	
Total weight	
Height of stack	

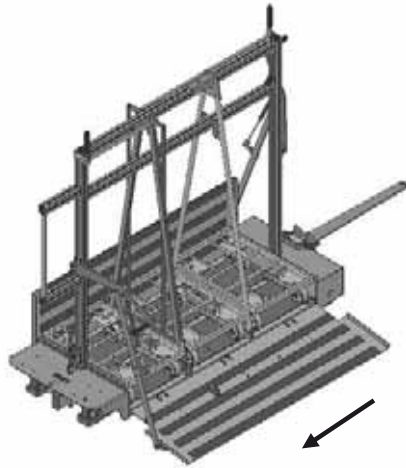
Steering	
Hanger / dolly	
Stub axle	

Conveyance	
Trolley with wheels	
Manual – by hand	
Pallet truck / distance between forks	
Fork lift truck	
Electric pallet truck / distance between forks	
Roller conveyor	

Trolley	
Wheels - 4 swivel castors	
Wheels – 2 swivel and 2 fixed castors	
Wheel diameter	
Wheel quality (material)	
Width of wheel	
Track width - SPW	
Wheel brand	

Direction of loading	
To one-side – from short side	
To both sides – from short side	
To one side – from long side	
To both sides – from long side	
Roller conveyor on loading area	

TRANSPORT LOGISTICS MILKRUN



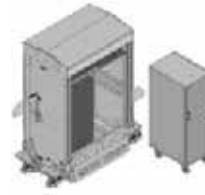
item 138632



item 133287



item 132230



item 135256

Taxi Carts TRT

With ramps

For fast and safe indoor transport of trolleys with boxes

Easy handling: Unlock ramps, move trolleys into the taxi cart (resp. remove them from the taxi cart) and lock the ramp. The taxi cart can continue its routing.

Drawbars adapted to tractor

Smooth-running opening and closing of ramps

Various steering systems possible

Loading to one or to both sides possible

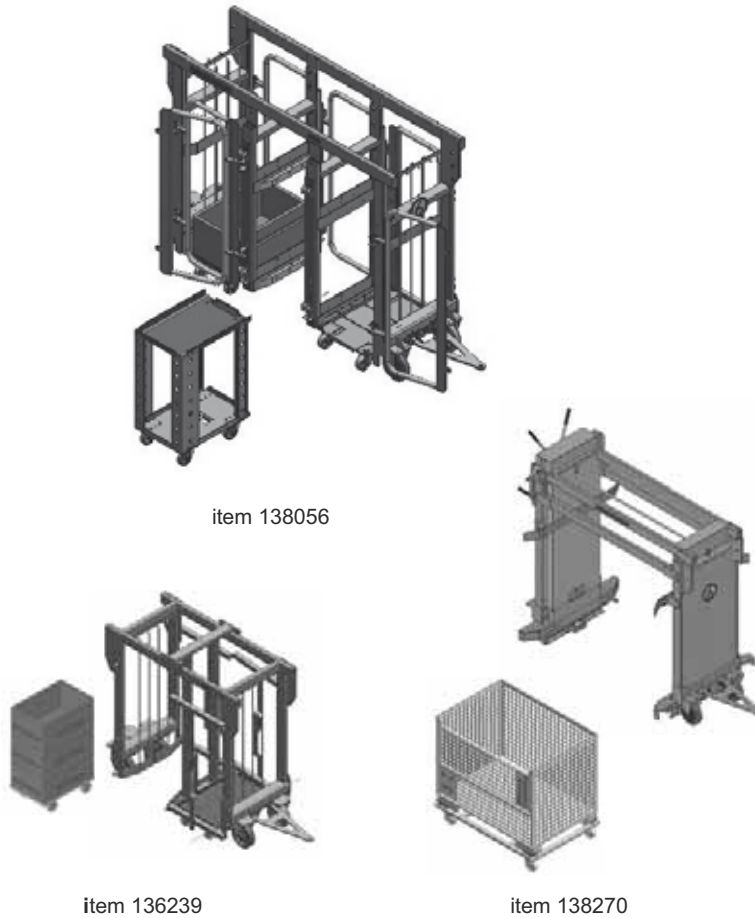
Designed for indoor transport only

Max. load capacity 750 kg

Item no.	Product to be transported Additional features	Features of wheels	Steering
138632	3 trolleys 600 x 400 mm, or 1 trolley 800 x 600 mm and 1 trolley 600 x 400 mm loading and unloading both sides	Ø 160 mm Polyurethan	hanger / cart
142594	2 trolleys 600 x 400 mm or 1 trolley 800 x 600 loading and unloading both sides	Ø 160 mm Polyurethan	hanger/ cart
133287	3 trolleys 600 x 400 mm loading and unloading both sides	Ø 200 mm Polyurethan	stub axle
132230	2 trolleys 630 x 430 mm or 1 trolley 830 x 630 mm loading and unloading both sides	Ø 200 mm Polyurethan	hanger / cart
135256	2 trolleys 673 x 420 mm loading and unloading both sides with shutters	Ø 200 mm Polyurethan	stub axle

Other models / dimensions on request.

TRANSPORT LOGISTICS MILKRUN



Gantry Carts TRP

Trolleys run on wheels - can be loaded on both sides

For fast and safe indoor transport of trolleys with boxes

When the bolts are unlocked, the trolleys are moved into the cart, (respectively removed from the cart). Once the bolts are locked, the cart continues its routing.

Drawbars adapted to tractor

Steering: hanger system

Various designs available (housing, colours, etc.)

Designed for indoor transport only

Max. load / towing capacity 500 kg

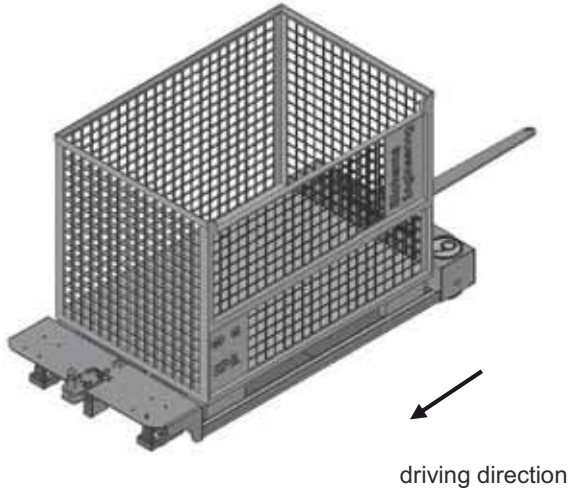
Item no.	Product to be transported	Features of wheels	Trolley with
136239	2 trolleys 600 x 400 mm up to 620 x 420 mm	Ø 200 mm Polyurethan	2 swivel castors and 2 fixed castors
138056	3 trolleys 600 x 400 mm up to 620 x 420 mm	Ø 200 mm Polyurethan	2 swivel castors and 2 fixed castors
138270	1 trolley 1265 x 865 mm	Ø 200 mm Polyurethan	2 swivel castors and 2 fixed castors
139571	2 trolleys 800 x 600 mm	Ø 200 mm Polyurethan	2 swivel castors and 2 fixed castors

This product range can also be adapted to other trolley dimensions such as 400 x 400 mm and 600 x 800 mm.

Other models / dimensions on request.

TRANSPORT LOGISTICS MILKRUN

Platform Taxi Carts TRP



item 133191

For fast and safe indoor transport of containers.

The containers are moved on respectively removed from the taxi cart by means of forklift trucks/electric pallet trucks or other industrial trucks.

Drawbars adapted to tractor.

Steering system: hangers

Max. load 500 kg

Designed for indoor transport only

Various versions available (housing, colours, etc.)

Item no.	Product to be transported	Wheels features	Wheels
133191	Pallet cage or pallet 800 x 1200 mm	Ø 200 mm Polyurethan	2 swivel and 2 fixed castors
136995	Pallet cage or pallet 1.000 x 1200 mm	Ø 200 mm Polyurethan	2 swivel and 2 fixed castors

Other models / dimensions on request.

TRANSPORT LOGISTICS MILKRUN

Rack Carts TRR



item 138283

For fast and safe indoor transport of boxes

The boxes/bins are manually placed onto respectively removed from the racks

Draw bar adapted to your tractor

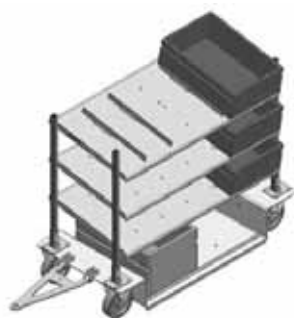
Steering system: hanger / dolly

Rack in various designs available (steel, tube construction or aluminium profile)

Max. load 350 kg

For indoor transport only

Various designs available (housing, colours, etc.)

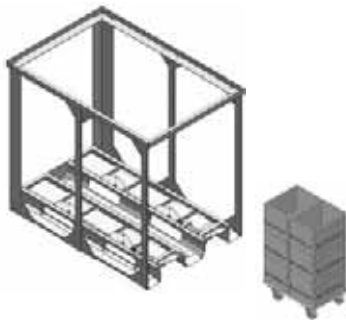
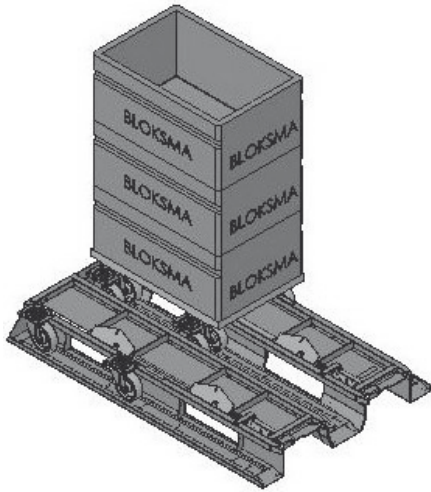


item 136240

Item no.	Product to be transported	Wheels features	Wheels
138283	KLT 600 x 400 mm up to 12 units	Ø 125 mm Polyurethan	2 swivel and 2 fixed castors
136240	KLT 600 x 400 mm up to 11 units partly with inclined rack	Ø 200 mm Polyurethan	2 swivel and 2 fixed castors

Other models / dimensions on request.

TRANSPORT LOGISTICS TRANSPORTRACK



item 132949 / 142456



item 137393



item 127809

Racks / Transport Racks TFG (open design)

For fast and safe indoor transport of boxes or products

The trolley stacks are moved into the rack and the load is secured by a transportation lock

Transport of the rack by industrial trucks such as forklift truck, pallet truck (to a certain extend), electric pallet truck or similar

To some extend the racks are stackable

Open systems

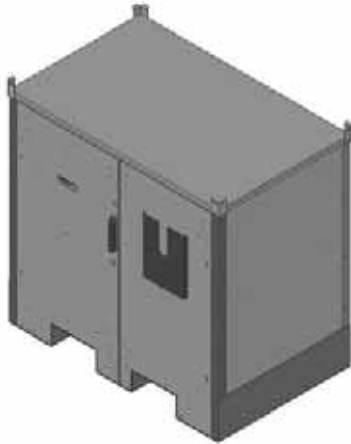
Various designs available (housing, colours, etc.)

Item no.	Product to be transported	Dimensions	Stackable
136629	4 trolleys, size 600 x 400 mm or 2 trolleys, size 800 x 600 mm (adapted to items mentioned on page 107 & 108)	L = 1.200 mm W = 800 mm	yes / to a limited extend
132949	4 trolleys size 600 x 400 mm or 2 size 800 x 600 mm (adapted to items mentioned on page 107 & 108)	L = 1.200 mm W = 800 mm	yes
142456	4 trolleys size 600 x 400 mm or 2 size 800 x 600 mm as 132949 but with housing	L = 1.200 mm W = 800 mm	yes
137393	4 trolleys size 600 x 400 mm or 2 size 800 x 600 mm (adapted to items mentioned on page 107 & 108)	L = 1.200 mm W = 800 mm	yes
142730	4 trolleys size 630 x 430 mm (adapted to items mentioned on page 112)	L = 1.395 mm W = 1.045 mm	yes
127809	2 piles of trolleys Size of trolleys 610 x 400 mm	L = 735 mm W = 795 mm	yes

Other models / dimensions on request.

TRANSPORT LOGISTICS TRANSPORT CABINETS

Racks und Cabinets TFS (closed design)



item 129937

For fast and safe indoor transport of boxes or products

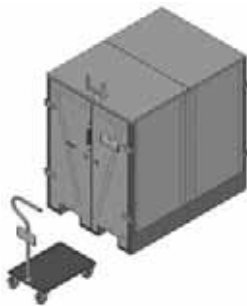
The trolley stacks are moved into the cabinet and the door is closed.

Transport by industrial trucks such as forklift truck, pallet truck (to a certain extend), electric pallet truck or similar

On request, the racks are stackable

Closed systems

Various designs available
(housing, colours, etc.)



item 130341



item 124853



item 129056

Item no.	Product to be transported	Dimensions	Stackable
129937	2 trolley stacks size of trolley 680 x 510 mm	length = 1.175 mm width = 750 mm	yes
130341	4 trolley stacks size of trolley 610 x 420 mm	length = 1.365 mm width = 1.010 mm	no
124853	2 trolley stacks size of trolley 630 x 430 mm BOZ	length = 995 mm width = 670 mm	yes
129056	2 trolley stacks size of trolley 630 x 430 mm as well as 1 shelf for 2 KLT 600 x 400 mm	length = 995 mm width = 670 mm	yes

Other models / dimensions on request.

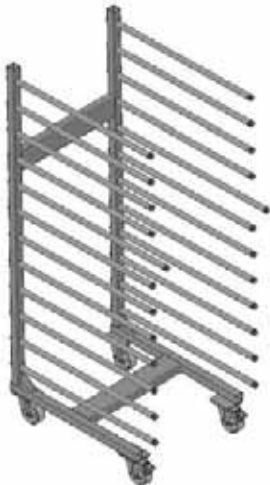
TRANSPORT LOGISTICS**TRANSPORT CARTS****Transport Cart
TRW**

For fast and safe indoor transport of boxes or products

Manual loading and unloading of boxes/products

Mostly manual transport

Various designs available (housing, colours, etc.)



item 138869



item 130052



item 132330



item 139663

LIFTERS



Fundamentally effective: Lifting device systems comfortably lift the loads. Instead of knuckling down, all it takes is a push of a button and the desired position is accurately and effortlessly reached. This protects the backs of your staff. Furthermore, the access times are reduced. In the form of the BLOKSMA lifters, ergonomics and economy are held in extremely high regard.

We meet your individual demands thanks to constant further development. Profit from our decade-long experience.

BLOKSMA lifters are available in the most diverse designs:

- Stationary in the form of a standing device, mobile or partially mobile, even in a tandem design
- For front loading or side loading, also alternatively available in pivoting design when under load
- With height detection sensor or manual control
- Low design, can be integrated into

assembly lines

- Special load carrying applications possible, also for tipping or emptying bulk material
- Matching safety equipment
- Devices with connected wheel conveyor or with automatic supply and removal of loaded trolleys

LIFTERS

Product overview pneumatic or electric



Front loading

HPS-F / HPT-F	pneumatic	stationary / semi-mobile	131
HES-F / HET-F	electric	stationary / semi-mobile	
HPM-F	pneumatic	mobile	
HEM-F	electric	mobile	



Side loading right

HPS-R / HPT-R	pneumatic	stationary / semi-mobile	136
HES-R / HET-R	electric	stationary / semi-mobile	
HPM-R	pneumatic	mobile	
HEM-R	electric	mobile	



Side loading left

HPS-L / HPT-L	pneumatic	stationary / semi-mobile	140
HES-L / HET-L	electric	stationary / semi-mobile	
HPM-L	pneumatic	mobile	
HEM-L	electric	mobile	



Gemini

HPD-F	pneumatic	stationary	144
HED-F	electric	stationary	



Twin

HPS-T	pneumatic		145
HES-T	electric	stationary / semi-mobile	
HPM-T	pneumatic	mobile	
HEM-T	electric	mobile	

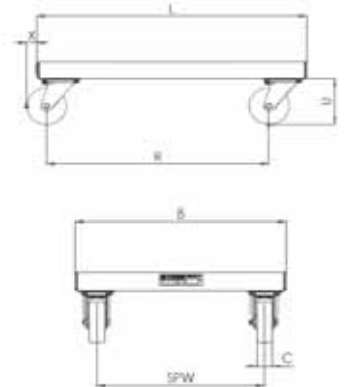
Further versions

147

Check List - Layout Lifters

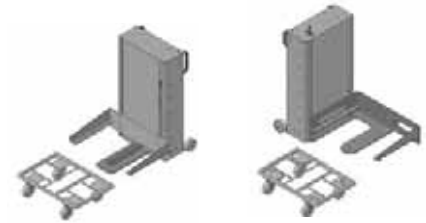
Features of trolley

Features	Please fill in
L = length of trolley	
B = width of trolley	
SPW = distance between wheels (Note: Please mind distance between wheels as well as surrounding diameter)	
U = distance clearance (lower edge of pan to floor level)	
Wheel diameter	
Guide rollers with stopper/brake	
Number of guide and fixed rollers (Please indicate position in adjoining sketch)	



Features of lifting system

Features	Please fill in
Pneumatic / electric	
Design	mobile / stationary / semi-mobile
Loading (see data sheet ALAY)	Front loading Left side loading / right side loading
F = required loading capacity (100-600 kg)	
H = required lifting height – from floor level to upper edge of load carrier / standard 720 or 920 mm	
Positioning of trolley	Crosswise, lengthwise
Operating element For panels we recommend a protective cover	hand lever/panel/foot switch/ automatic mode
Space available	
Colour: Standard RAL 9010 / load carrier zinc coated	
ESD version	yes / no
Required quantity	



Trolley positioned crosswise



Trolley positioned lengthwise

left side loading



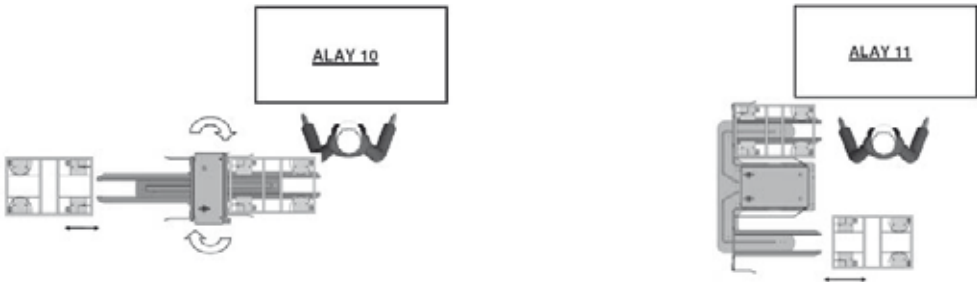
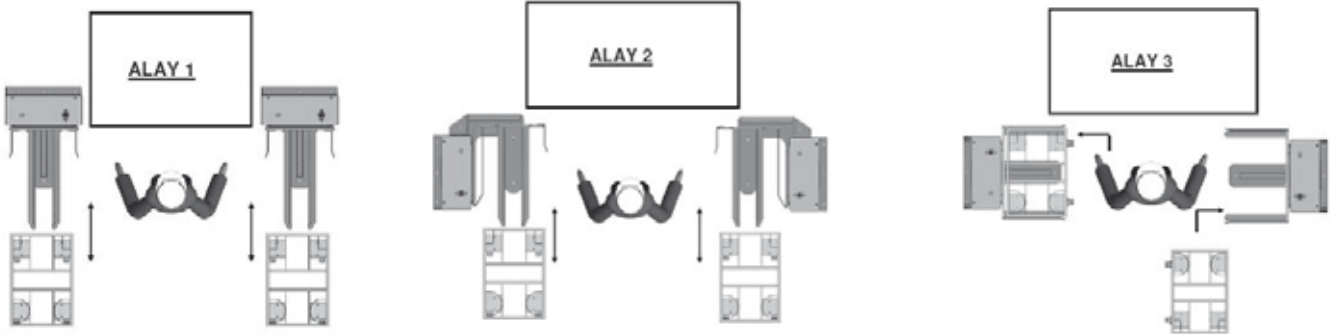
front loading



right side loading



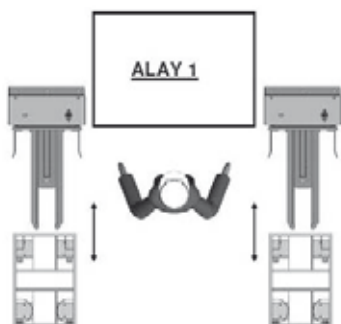
POSSIBLE APPLICATIONS LIFTERS



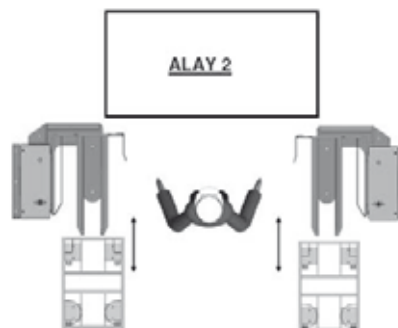
POSSIBLE APPLICATIONS - LAYOUT OF WORKPLACE - ALAY

ALAY	1	2	3	4	5	6	7	8	9	10	11
Front lifter	●		●	●	●		●	●	●	●	●
Side lifter		●				●					
Stationary	●	●	●	●	●	●	●	●	●	●	●
Semi-mobile	●	●	●	●	●	●	●	●	●		
Mobile	●	●	●	●	●	●	●	●	●		
Twin unit						●	●				●
Unloading back side				●	●						
Possibility to traverse								●	●		
To swing into work area										●	●
Replacement by system provisioner	●	●		●	●			●	●	●	●

Definition – Frontloading - Sideloadng



front loading



side loading left

side loading right

Control elements



Hand lever on on housing



detachable control panel



height detection with sensors (Automatic mode)



pedal switch

LIFTERS

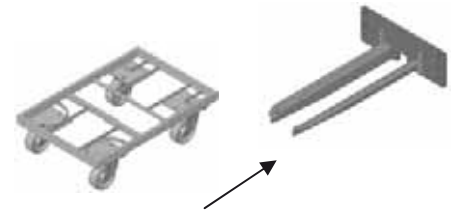
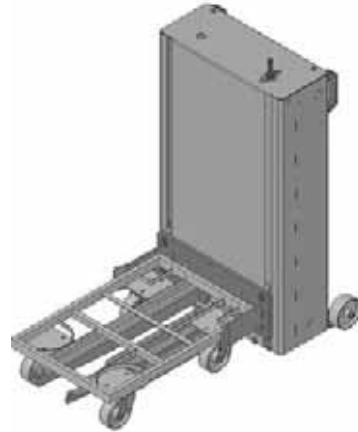
Lifter

HPS-F HPT-F
HES-F HET-F

Front loading –
stationary / semi - mobile
trolley lengthwise

Adapted for trolley
BOR (trolley for KLT)
page 107

Standard control element
hand lever on device
(options see page 130)



Item no. <u>stationary design</u>		Item no. <u>Semi-mobile design</u>		Load capacity	Size of trolley	Working height above floor level
Pneumatic	Electric	Pneumatic	Electric			
137003	141109	135031	141029	200 kg	600 x 400	720 mm
137004	141110	137100	141030	200 kg	600 x 400	920 mm
132109	141111	137101	141031	300 kg	600 x 400	720 mm
137006	141112	137102	141032	300 kg	600 x 400	920 mm
137007	141113	137103	141033	400 kg	600 x 400	720 mm
137008	141114	137104	141034	400 kg	600 x 400	920 mm
137009	141115	137105	141035	500 kg	600 x 400	720 mm
137010	141116	137106	141036	500 kg	600 x 400	920 mm

Item no. <u>stationary design</u>		Item no. <u>stationary design</u>		Load capacity	Size of trolley	Working height above floor level
Pneumatic	Electric	Pneumatic	Electric			
137011	141117	137107	141037	200 kg	800 x 600	720 mm
137012	141118	137108	141038	200 kg	800 x 600	920 mm
137013	141119	137109	141039	300 kg	800 x 600	720 mm
137014	141120	137110	141040	300 kg	800 x 600	920 mm
137015	141121	137111	141041	400 kg	800 x 600	720 mm
137016	141122	137112	141042	400 kg	800 x 600	920 mm
137017	141123	137113	141043	500 kg	800 x 600	720 mm
137018	141124	137114	141044	500 kg	800 x 600	920 mm



stationary version

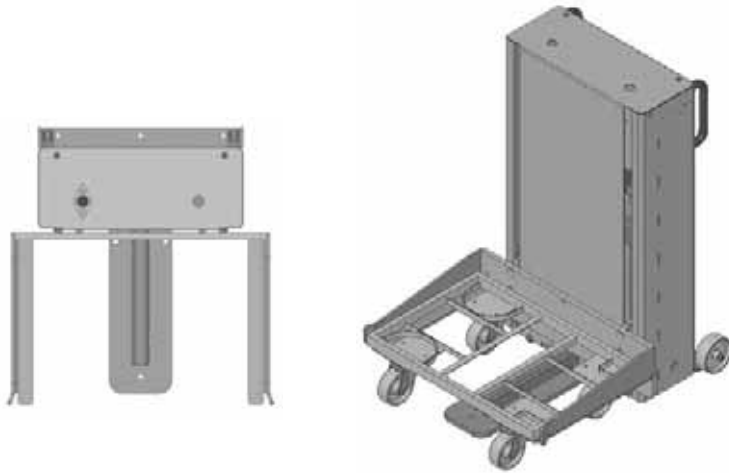


semi – mobile version

Power demand: Pneumatic 6 bar / electr. lifters up to 200 kg 230 V as from 300 kg 400 V
Other models / dimensions / loads as well as control elements on request.

MATERIAL IN FLOW

LIFTERS



Lifter

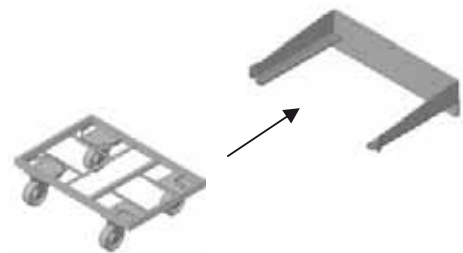
HPS-F HPT-F

HPE-F HET-F

front loading –
stationary / semi-mobile
trolley crosswise

Adapted for trolley BOR (trolley for KLT)
see page 107

Standard control element
hand lever on device
(options see page 130)



Item no. <u>Stationary design</u> Pneumatic / Electric		Item no. <u>Semi – mobile design</u> Pneumatic / Electric		Load capacity	Size of trolley	Working height above floor level
137027	141125	132977	141045			
137028	141126	137124	141046	200 kg	600 x 400	920 mm
137029	141127	137125	141047	300 kg	600 x 400	720 mm
137030	141128	137126	141048	300 kg	600 x 400	920 mm
137031	141129	137127	141049	400 kg	600 x 400	720 mm
137032	141130	137128	141050	400 kg	600 x 400	920 mm
137033	141131	137129	141051	500 kg	600 x 400	720 mm
137034	141132	137130	141052	500 kg	600 x 400	920 mm

Item no. <u>Stationary design</u> Pneumatic / Electric		Item no. <u>Semi - mobile design</u> Pneumatic / Electric		Load capacity	Size of trolley	Working height above floor level
137035	141133	137131	141053			
137036	141134	137132	141054	200 kg	800 x 600	920 mm
137037	141135	137133	141055	300 kg	800 x 600	720 mm
137014	141136	137134	141056	300 kg	800 x 600	920 mm
137039	141137	137135	141057	400 kg	800 x 600	720 mm
137040	141138	137136	141058	400 kg	800 x 600	920 mm
137041	141139	137137	141059	500 kg	800 x 600	720 mm
137042	141140	137138	141060	500 kg	800 x 600	920 mm



stationary version



semi – mobile version

Power demand: Pneumatic 6 bar / electr. Lifters up to 200 kg 230 V as from 300 kg 400 V.
Other models / dimensions / loads as well as control elements on request.

LIFTERS



Loading with trolley
Item 137147

Lifter HPS-F HES-F Front loading – stationary

Suitable for ergonomic working at mounting working stations, machines

Load capacity up to 2.000 kg

Option – on request tiltable up to 25 degrees



Item 135846

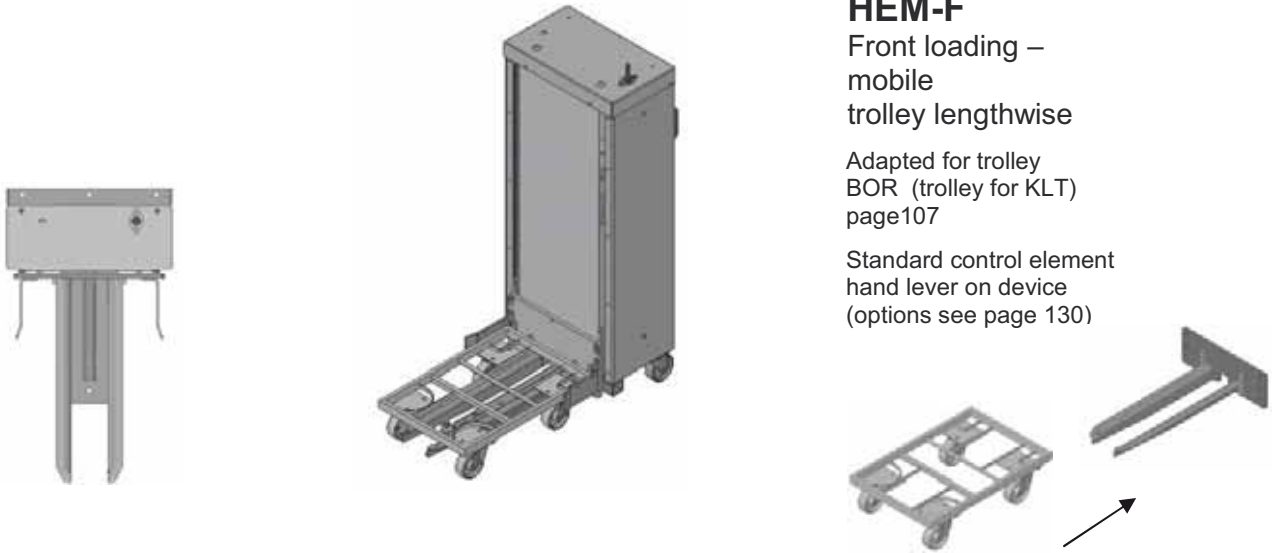
Loading with industrial truck as fork

lifter or pallet truck

Item no. <u>Stationary design</u> Pneumatic / Electric		Load capacity	Size of trolley	Working height above floor level
137147	142586	500 kg	1.200 x 800	720 mm
135846	142587	500 kg	1.200 x 800	920 mm

Power demand: Pneumatic 6 bar / electr. lifters up to 200 kg 230 V as from 300 kg 400 V
Other models / dimensions / loads as well as control elements on request.

LIFTERS



Lifter HPM-F HEM-F

Front loading –
mobile
trolley lengthwise

Adapted for trolley
BOR (trolley for KLT)
page107

Standard control element
hand lever on device
(options see page 130)

Item no. Pneumatic design	Item no. Electric design	Load capacity	Size of trolley	Working height above floor level
137051	142570	200 kg	600 x 400	720 mm
134489	142571	200 kg	600 x 400	920 mm
137053	142572	300 kg	600 x 400	720 mm
137054	142573	300 kg	600 x 400	920 mm
137055	142574	400 kg	600 x 400	720 mm
137056	142575	400 kg	600 x 400	920 mm
137057	142576	500 kg	600 x 400	720 mm
137058	142577	500 kg	600 x 400	920 mm

Item no. Pneumatic design	Item no. Electric design	Load capacity	Size of trolley	Working height above floor level
137059	142578	200 kg	800 x 600	720 mm
137060	142579	200 kg	800 x 600	920 mm
137061	142580	300 kg	800 x 600	720 mm
137062	142581	300 kg	800 x 600	920 mm
137063	142582	400 kg	800 x 600	720 mm
137064	142583	400 kg	800 x 600	920 mm
137065	142584	500 kg	800 x 600	720 mm
137066	142585	500 kg	800 x 600	920 mm

Power demand: Pneumatic 6 bar / electr. lifters up to 200 kg 230 V as from 300 kg 400 V
Other models / dimensions / loads as well as control elements on request.

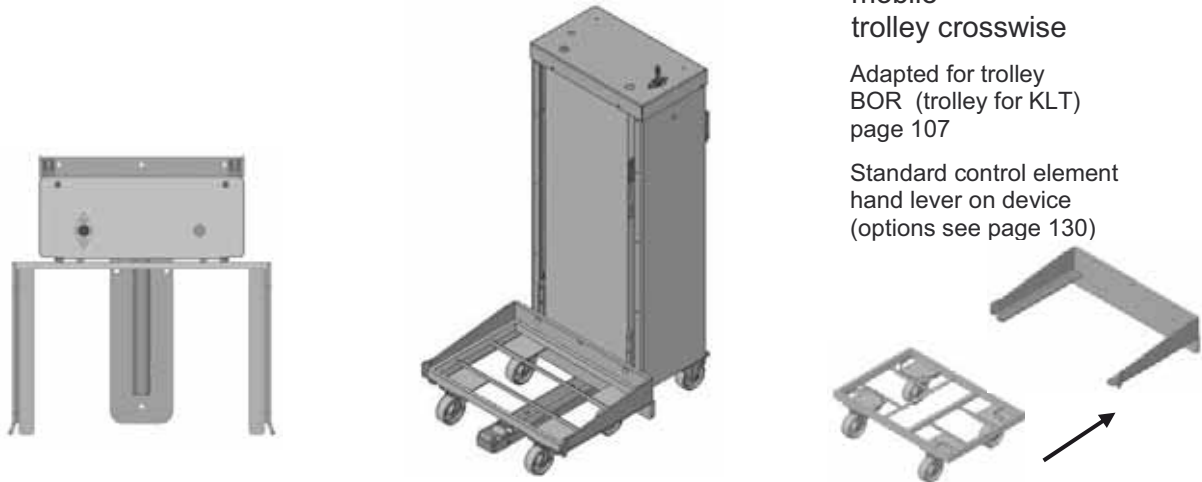
LIFTERS

Lifter HPM-F HEM-F

Front loading –
mobile
trolley crosswise

Adapted for trolley
BOR (trolley for KLT)
page 107

Standard control element
hand lever on device
(options see page 130)



Item-no. Pneumatic design	Item-no. Electric design	Load capacity	Size of trolley	Working height above floor level
137075	142554	200 kg	600 x 400	720 mm
137076	142555	200 kg	600 x 400	920 mm
137077	142556	300 kg	600 x 400	720 mm
137078	142557	300 kg	600 x 400	920 mm
137079	142558	400 kg	600 x 400	720 mm
137080	142559	400 kg	600 x 400	920 mm
137081	142560	500 kg	600 x 400	720 mm
137082	142561	500 kg	600 x 400	920 mm

Item-no. Pneumatic design	Item-no. Electric design	Load capacity	Size of trolley	Working height above floor level
137083	142562	200 kg	800 x 600	720 mm
137084	142563	200 kg	800 x 600	920 mm
137085	142564	300 kg	800 x 600	720 mm
137086	142565	300 kg	800 x 600	920 mm
137087	142566	400 kg	800 x 600	720 mm
137088	142567	400 kg	800 x 600	920 mm
137089	142568	500 kg	800 x 600	720 mm
137090	142569	500 kg	800 x 600	920 mm

Power demand: Pneumatic 6 bar / electr. lifters up to 200 kg 230 V as from 300 kg 400 V
Other models / dimensions / loads as well as control elements on request.

LIFTERS

Hubgerät

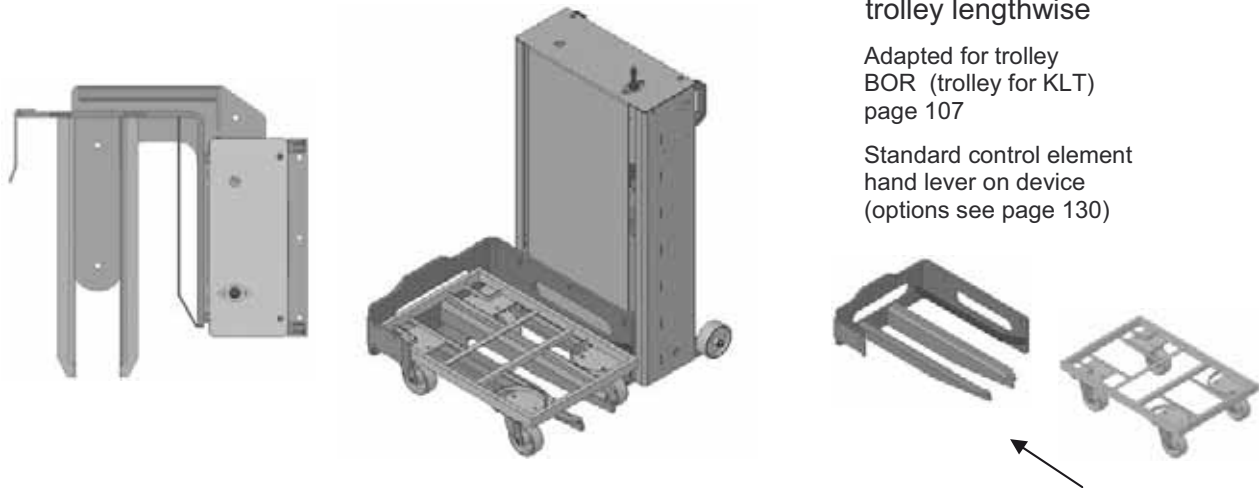
HPS-R HPT-R

HES-R HET-R

Side loading right
stationary / semi - mobile
trolley lengthwise

Adapted for trolley
BOR (trolley for KLT)
page 107

Standard control element
hand lever on device
(options see page 130)



Item no. <u>Stationary design</u> Pneumatic / Electric		Item no. <u>Semi - mobile design</u> Pneumatic / Electric		Load capacity	Size of trolley	Working height above floor level
137148	141141	133466	141061	200 kg	600 x 400	720 mm
137149	141142	134642	141062	200 kg	600 x 400	920 mm
137150	141143	137198	141063	300 kg	600 x 400	720 mm
136085	141144	137199	141064	300 kg	600 x 400	920 mm
137152	141145	137200	141065	400 kg	600 x 400	720 mm
137153	141146	137201	141066	400 kg	600 x 400	920 mm

Item no. <u>Stationary design</u> Pneumatic / Electric		Item no. <u>Semi mobile</u> Pneumatic / Electric		Load capacity	Size of trolley	Working height above floor level
140620	141147	137204	141067	200 kg	800 x 600	720 mm
140621	141148	137205	141068	200 kg	800 x 600	920 mm
140622	141149	137206	141069	300 kg	800 x 600	720 mm
140623	141150	137207	141070	300 kg	800 x 600	920 mm
140624	141151	137208	141071	400 kg	800 x 600	720 mm
140625	141152	137209	141072	400 kg	800 x 600	920 mm



stationary design



semi mobile design

Power demand: Pneumatic 6 bar / electr. lifters up to 200 kg 230 V as from 300 kg 400 V
Other models / dimensions / loads as well as control elements on request.

LIFTERS

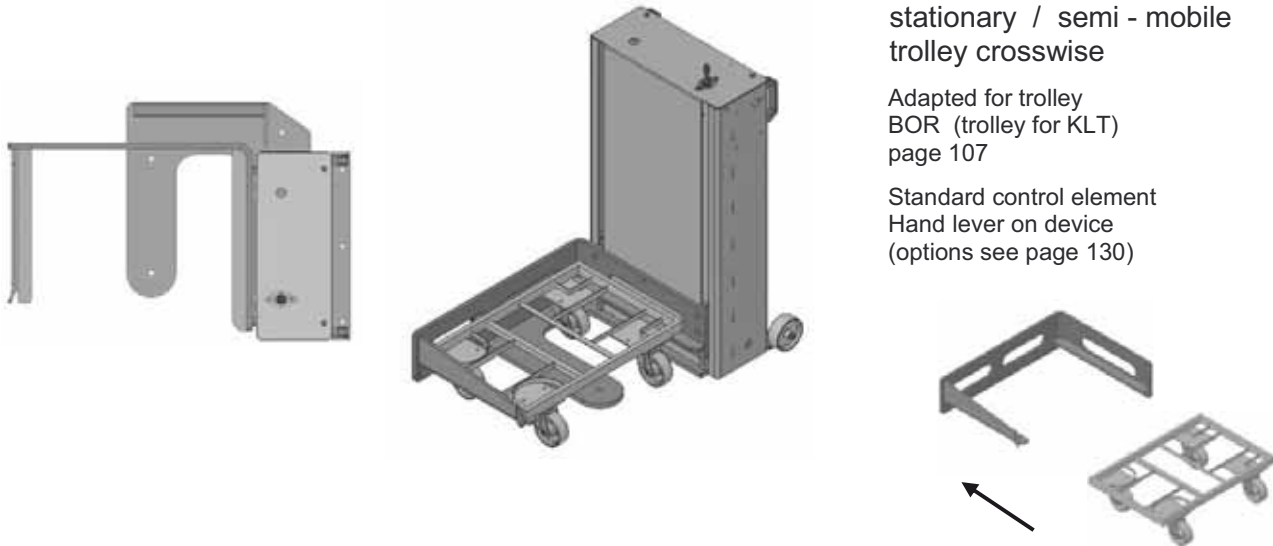
Lifter

HPS-R HPT-R
HES-R HET-R

Side loading right
stationary / semi - mobile
trolley crosswise

Adapted for trolley
BOR (trolley for KLT)
page 107

Standard control element
Hand lever on device
(options see page 130)



Item no. Stationary design Pneumatic / Electric		Item no. Semi - mobile design Pneumatic / Electric		Load capacity	Size of trolley	Working height above floor level
139511	141153	137709	141073	200 kg	600 x 400	720 mm
139512	141154	139635	141074	200 kg	600 x 400	920 mm
139513	141155	139636	141075	300 kg	600 x 400	720 mm
139514	141156	139637	141076	300 kg	600 x 400	920 mm
139515	141157	139638	141077	400 kg	600 x 400	720 mm
139516	141158	139639	141078	400 kg	600 x 400	920 mm

Item no. Stationary design Pneumatic / Electric		Item no. Semi - mobile design Pneumatic / Electric		Load capacity	Size of trolley	Working height above floor level
137156	141159	139640	141079	200 kg	800 x 600	720 mm
137157	141160	139641	141080	200 kg	800 x 600	920 mm
137158	141161	139642	141081	300 kg	800 x 600	720 mm
137159	141162	139643	141082	300 kg	800 x 600	920 mm
137160	141163	139644	141083	400 kg	800 x 600	720 mm
137161	141164	139645	141084	400 kg	800 x 600	920 mm



stationary design



semi - mobile design

Power demand: Pneumatic 6 bar / electr. lifters up to 200 kg 230 V as from 300 kg 400 V
Other models / dimensions / loads as well as control elements on request.

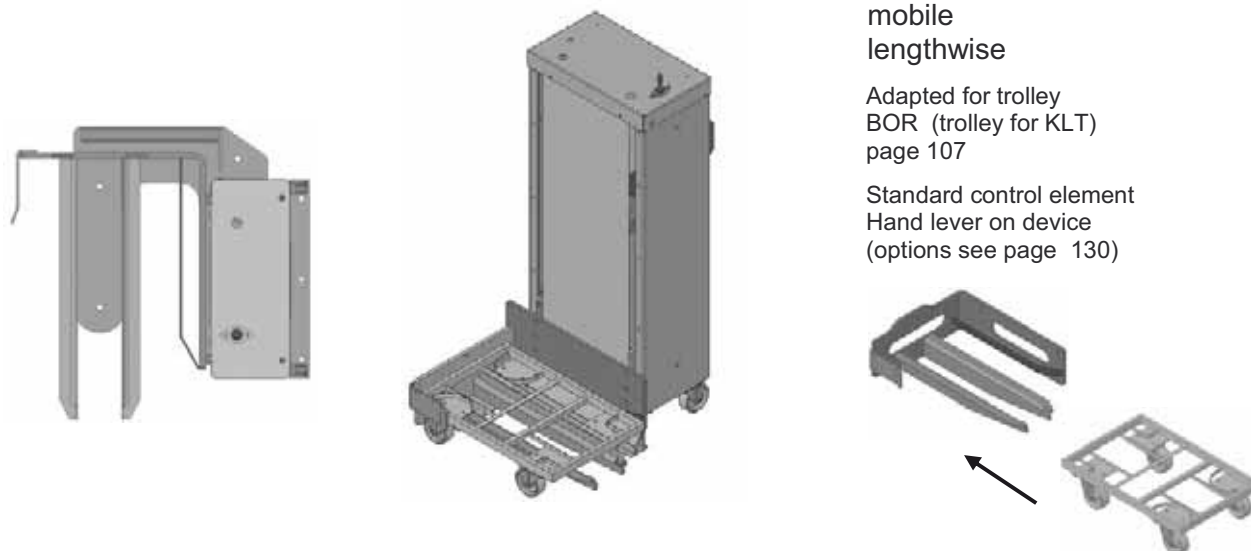
LIFTERS

Lifter HPM-R HEM-R

Side loading right
mobile
lengthwise

Adapted for trolley
BOR (trolley for KLT)
page 107

Standard control element
Hand lever on device
(options see page 130)

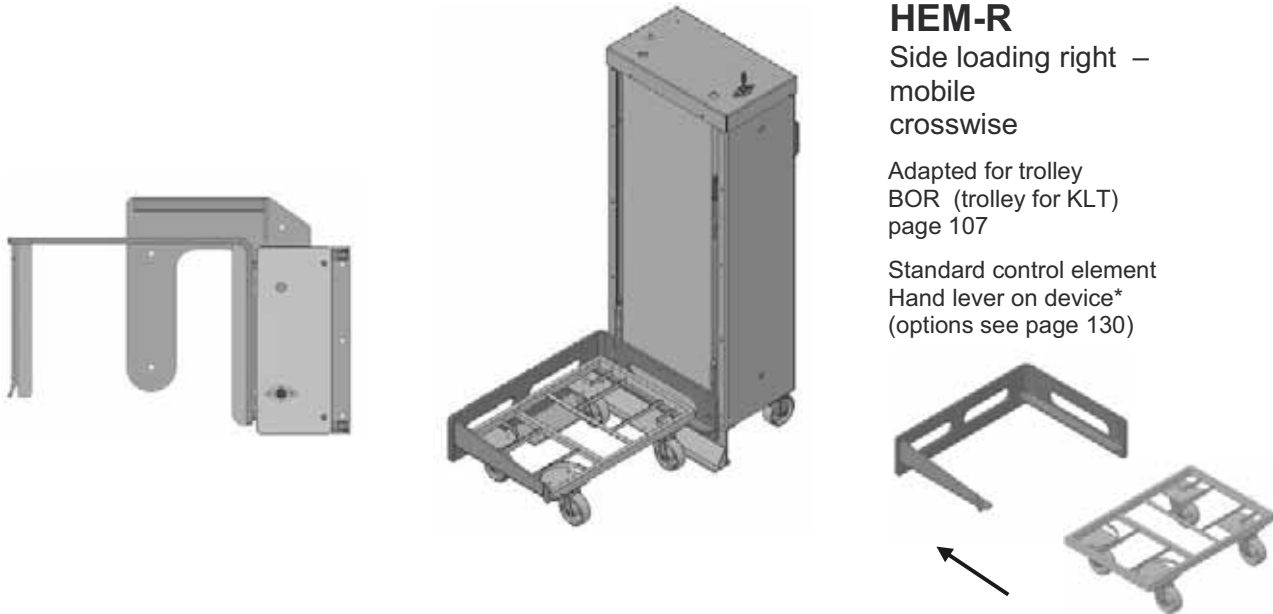


Item no. Pneumatic design	Item no. Electric design	Load capacity	Size of trolley	Working height above floor level
137172	142540	200 kg	600 x 400	720 mm
137173	142541	200 kg	600 x 400	920 mm
137174	142542	300 kg	600 x 400	720 mm
137175	142543	300 kg	600 x 400	920 mm

Item no. Pneumatic design	Item no. Electric design	Load capacity	Size of trolley	Working height above floor level
137180	142544	200 kg	800 x 600	720 mm
137181	142545	200 kg	800 x 600	920 mm
137182	142546	300 kg	800 x 600	720 mm
137183	142547	300 kg	800 x 600	920 mm

Power demand: Pneumatic 6 bar / electr. lifters up to 200 kg 230 V as from 300 kg 400 V
Other models / dimensions / loads as well as control elements on request.

LIFTERS



Lifter HPM-R HEM-R

Side loading right –
mobile
crosswise

Adapted for trolley
BOR (trolley for KLT)
page 107

Standard control element
Hand lever on device*
(options see page 130)

Item no. Pneumatic design	Item no. Electric design	Load capacity	Size of trolley	Working height above floor level
139523	142532	200 kg	600 x 400	720 mm
139524	142533	200 kg	600 x 400	920 mm
139525	142534	300 kg	600 x 400	720 mm
139526	142535	300 kg	600 x 400	920 mm

Item no. Pneumatic design	Item no. Electric design	Load capacity	Size of trolley	Working height above floor level
139529	142536	200 kg	800 x 600	720 mm
139530	142537	200 kg	800 x 600	920 mm
139531	142538	300 kg	800 x 600	720 mm
139532	142539	300 kg	800 x 600	920 mm

Power demand: Pneumatic 6 bar / electr. lifters up to 200 kg 230 V as from 300 kg 400 V
Other models / dimensions / loads as well as control elements on request.

MATERIAL IN FLOW

LIFTERS

Lifter

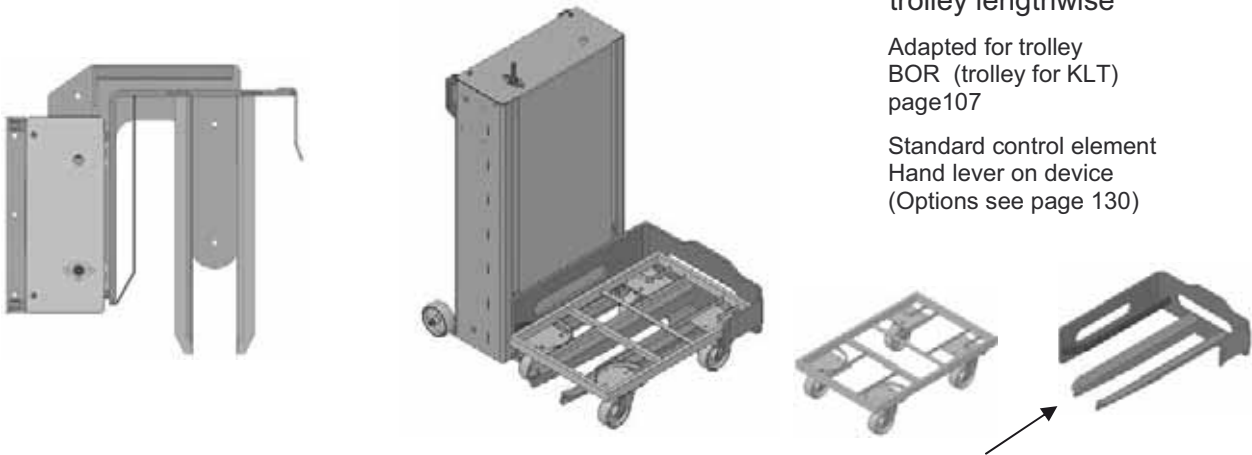
HPS-L HPT-L

HES-L HET-L

Side loading left
stationary / semi - mobile
trolley lengthwise

Adapted for trolley
BOR (trolley for KLT)
page107

Standard control element
Hand lever on device
(Options see page 130)



Item no. <u>Stationary design</u> Pneumatic / Electric		Item no. <u>semi - mobile design</u> Pneumatic / Electric		Load capacity	Size of trolley	Working height above floor level
137220	141165	133465	141085			
137221	141166	137269	141086	200 kg	600 x 400	920 mm
137026	141167	137270	141087	300 kg	600 x 400	720 mm
136084	141168	137271	141088	300 kg	600 x 400	920 mm
137224	141169	137272	141089	400 kg	600 x 400	720 mm
137225	141170	137273	141090	400 kg	600 x 400	920 mm

Item no. <u>Stationary design</u> Pneumatic / Electric		Item no. <u>semi - mobile design</u> Pneumatic / Electric		Load capacity	Size of trolley	Working height above floor level
137276	141171	137228	141091			
137229	141172	137277	141092	200 kg	800 x 600	920 mm
137230	141173	137278	141093	300 kg	800 x 600	720 mm
137231	141174	137279	141094	300 kg	800 x 600	920 mm
137232	141175	137280	141095	400 kg	800 x 600	720 mm
137233	141176	137281	141096	400 kg	800 x 600	920 mm



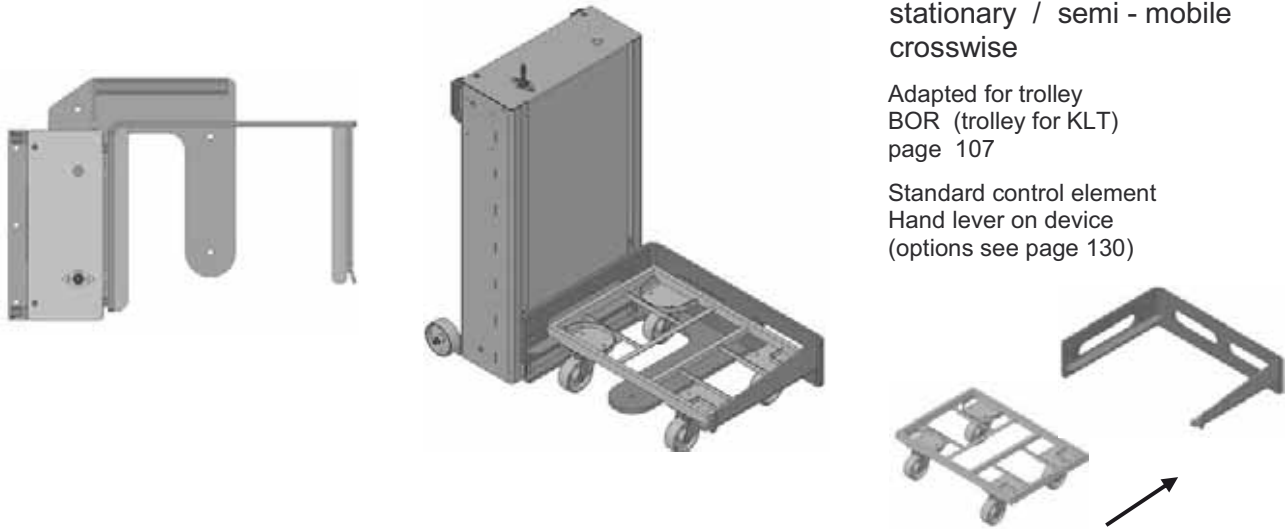
stationary design



semi - mobile design

Power demand: Pneumatic 6 bar / electr. lifters up to 200 kg 230 V as from 300 kg 400 V
Other models / dimensions / loads as well as control elements on request.

LIFTERS



Lifters

HPS-L HPT-L

HES-L HET-L

Side loading left
stationary / semi - mobile
crosswise

Adapted for trolley
BOR (trolley for KLT)
page 107

Standard control element
Hand lever on device
(options see page 130)

Item no. Stationary design Pneumatic / Electric		Item no. Semi - mobile design Pneumatic / Electric		Load capacity	Size of trolley	Working height above floor level
139535	141177	137708	141097	200 kg	600 x 400	720 mm
139536	141178	139624	141098	200 kg	600 x 400	920 mm
139537	141179	139625	141099	300 kg	600 x 400	720 mm
139538	141180	139626	141100	300 kg	600 x 400	920 mm
139539	141181	139627	141101	400 kg	600 x 400	720 mm
139540	141182	139628	141102	400 kg	600 x 400	920 mm

Item no. Stationary design Pneumatic / Electric		Item no. Semi - mobile design Pneumatic / Electric		Load capacity	Size of trolley	Working height above floor level
139541	141183	139629	141103	200 kg	800 x 600	720 mm
139542	141184	139630	141104	200 kg	800 x 600	920 mm
139543	141185	139631	141105	300 kg	800 x 600	720 mm
139544	141186	139632	141106	300 kg	800 x 600	920 mm
139545	141187	139633	141107	400 kg	800 x 600	720 mm
139546	141188	139634	141108	400 kg	800 x 600	920 mm



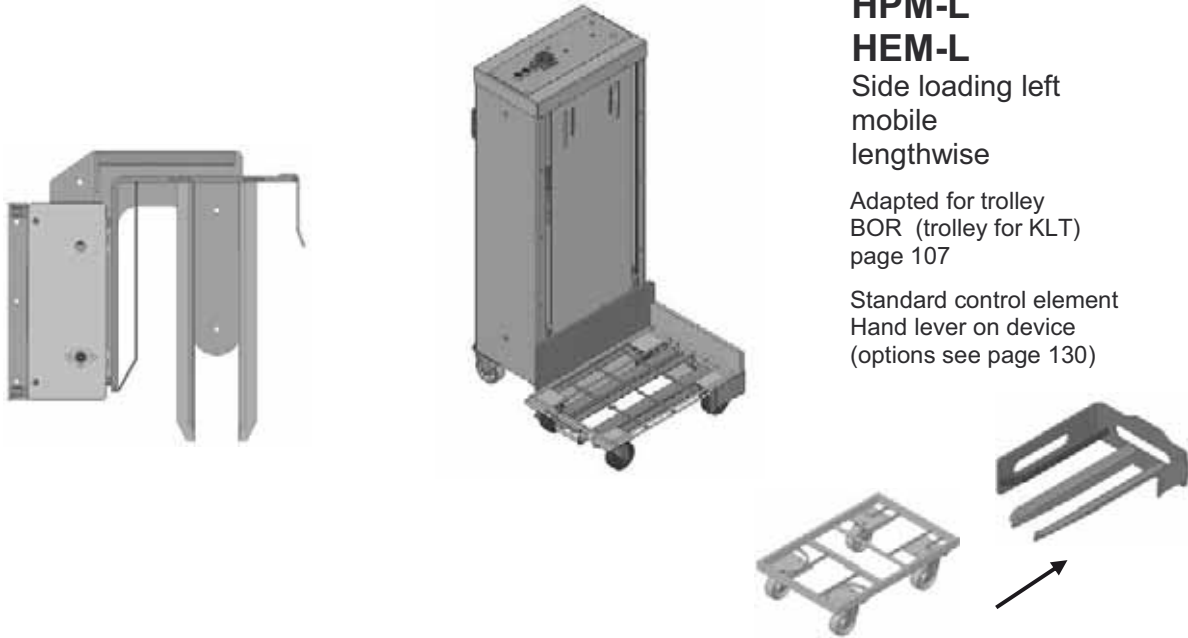
stationary design



semi - mobile design

Power demand: Pneumatic 6 bar / electr. lifters up to 200 kg 230 V as from 300 kg 400 V
Other models / dimensions / loads as well as control elements on request.

LIFTERS



Lifter HPM-L HEM-L

Side loading left
mobile
lengthwise

Adapted for trolley
BOR (trolley for KLT)
page 107

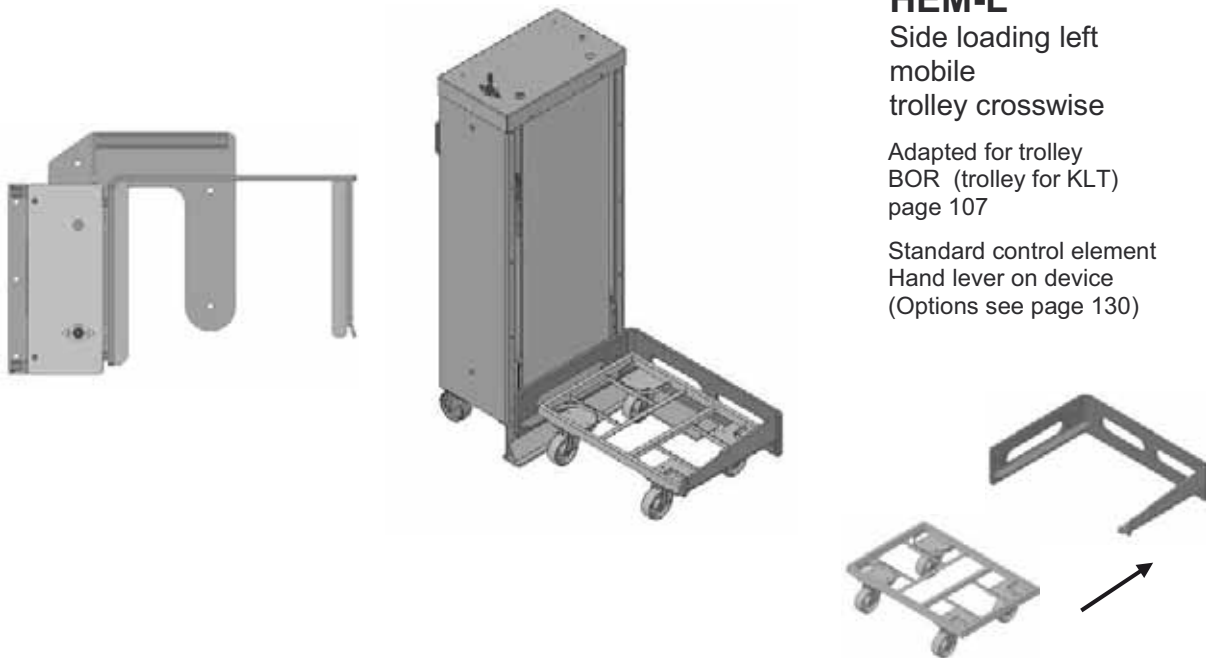
Standard control element
Hand lever on device
(options see page 130)

Item no. Pneumatic design	Item no. Electric design	Load capacity	Size of trolley	Working height above floor level
137244	142524	200 kg	600 x 400	720 mm
137245	142525	200 kg	600 x 400	920 mm
137246	142526	300 kg	600 x 400	720 mm
137247	142527	300 kg	600 x 400	920 mm

Item no. Pneumatic design	Item no. Electric design	Load capacity	Size of trolley	Working height above floor level
137252	142528	200 kg	800 x 600	720 mm
137253	142529	200 kg	800 x 600	920 mm
137254	142530	300 kg	800 x 600	720 mm
137255	142531	300 kg	800 x 600	920 mm

Power demand: Pneumatic 6 bar / electr. lifters up to 200 kg 230 V as from 300 kg 400 V
Other models / dimensions / loads as well as control elements on request.

LIFTERS



Lifter HPM-L HEM-L

Side loading left
mobile
trolley crosswise

Adapted for trolley
BOR (trolley for KLT)
page 107

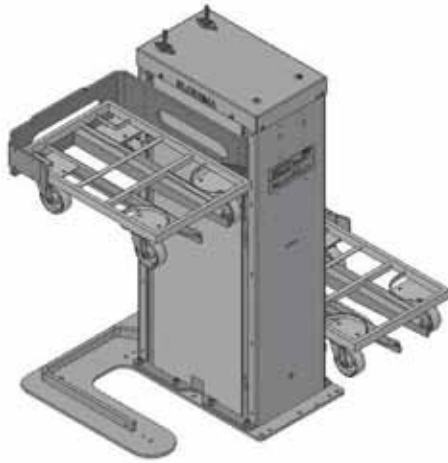
Standard control element
Hand lever on device
(Options see page 130)

Item no. Pneumatic design	Item no. Electric design	Load capacity	Size of trolley	Working height above floor level
139547	142516	200 kg	600 x 400	720 mm
139548	142517	200 kg	600 x 400	920 mm
139549	142518	300 kg	600 x 400	720 mm
139550	142519	300 kg	600 x 400	920 mm

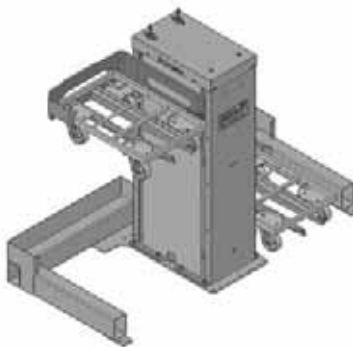
Item no. Pneumatic design	Item no. Electric design	Load capacity	Size of trolley	Working height above floor level
139553	142520	200 kg	800 x 600	720 mm
139554	142521	200 kg	800 x 600	920 mm
139555	142522	300 kg	800 x 600	720 mm
139556	142523	300 kg	800 x 600	920 mm

Power demand: Pneumatic 6 bar / electr. lifters up to 200 kg 230 V as from 300 kg 400 V
Other models / dimensions / loads as well as control elements on request.

LIFTERS



item 141869



item 141763

Lifter HPS-D HES-D

Gemini - Double
stationary

Adapted for trolley
BOR (trolley for KLT) resp. BOZ
page107 resp. page 112

Designed for ergonomic working on
assembly work stations and machines

Several lifting capacities available

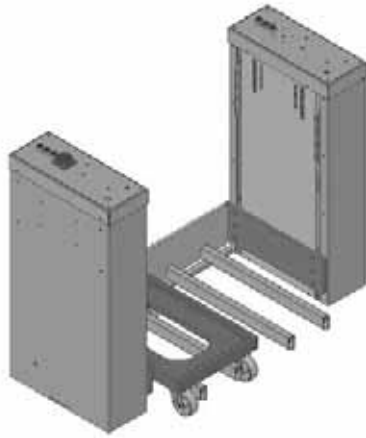
Various load carriers available (forks,
platform, bracket or similar) – adapted to
your trolley

Various control elements available (hand
lever, pedal switch, external control panel
or automatic mode with sensors)

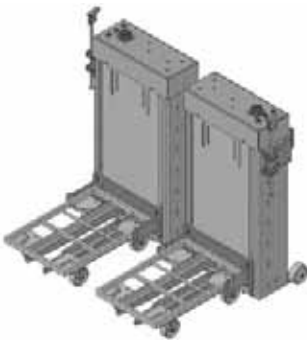
Item no. Pneumatic / Electric		Load capacity per lifter	Size of trolley	Adaption of trolley / Control element	Working height above floor level
141869	142608	200 kg	600 x 400	BOR lengthwise Hand lever	720 mm
142605	142609	200 kg	600 x 400	BOR lengthwise Hand lever	920 mm
142606	142610	200 kg	630 x 430	BOZ lengthwise Hand lever	720 mm
142607	142611	200 kg	630 x 430	BOZ lengthwise Hand lever	920 mm

Power demand: Pneumatic 6 bar / electr. lifters up to 200 kg 230 V as from 300 kg 400 V
Other models / dimensions / loads as well as control elements on request.

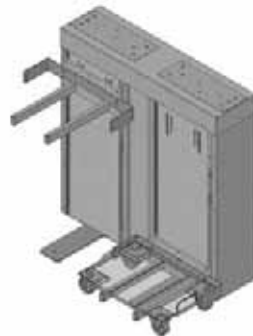
LIFTERS



item 130065



item 137607



item 130754

Lifter HPS-T HES-T

Twin lifter –
stationary

Adapted for trolley BOR (trolley for KLT)
resp. BOZ
- see page 107 and 112

Designed for ergonomic working on
assembly work stations and machines

Several lifting capacities available

Various load carriers available (forks,
platform, bracket or similar) – adapted to
your trolley

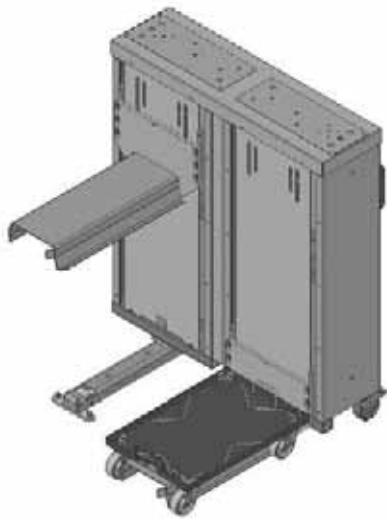
Various control elements available (hand
lever, pedal switch, external control
panel, or automatic mode with sensors)

Item no. Pneumatic / Electric		Load capacity per lifter	Size of trolley	Adaption of trolley / Control element	Working height above floor level
137292	142548	200 kg	600 x 400	BOR Trolley lengthwise Hand lever	720 mm
130065	142549	200 kg	600 x 400	BOR Trolley lengthwise Automatic mode with sensors	720 mm
139578	142550	200 kg	600 x 400	BOR Trolley lengthwise Hand lever	720 mm
137607	142551	200 kg	600 x 400	BOR Trolley lengthwise Automatic mode with sensors	720 mm
137293	142552	300 kg	600 x 400	BOZ trolley lengthwise Hand lever	920 mm
130754	142553	300 kg	600 x 400	BOZ Trolley lengthwise Automatic mode with sensors	920 mm

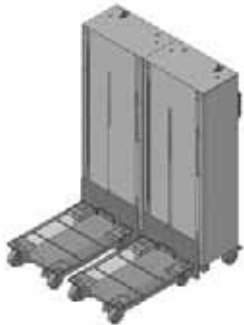
Power demand: Pneumatic 6 bar / electr. lifters up to 200 kg 230 V as from 300 kg 400 V

Other models / dimensions / loads as well as control elements on request.

LIFTERS



Item 130331



Item 133035



Item 128211

Lifter HPM-T HEM-T

Twin lifter –
mobile

Adapted for trolley BOR (trolley for KLT)
resp. BOZ
- see page 107 and 112

Designed for ergonomic working on
assembly work stations and machines

Several lifting capacities available

Various load carriers available (forks,
platform, bracket or similar) – adapted to
your trolley

Various control elements available (hand
lever, pedal switch, external control
panel, or automatic mode with sensors)

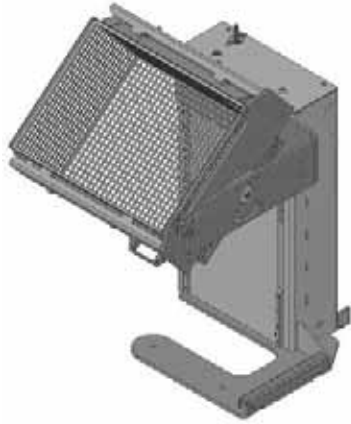
Item no. Pneumatic / Electric		Load capacity per lifter	Size of trolley	Adaption of trolley / Control element	Working height above floor level
130331	142513	200 kg	610 x 420	BOR Trolley lengthwise Automatic mode with sensors	870 mm
130035	142514	500 kg	630 x 430	BOZ trolley lengthwise Hand lever	905 mm
128211	142515	200 kg	600 x 400	BOR trolley lengthwise Hand lever	940 mm

Power demand: Pneumatic 6 bar / electr. lifters up to 200 kg 230 V as from 300 kg 400 V
Other models / dimensions / loads as well as control elements on request.

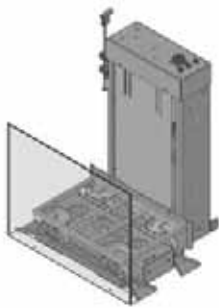
LIFTERS

Lifter Further versions

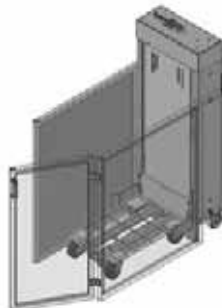
Further lifters can be manufactured individually according to your request.



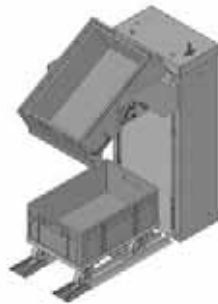
item 135058
lifter with tilter



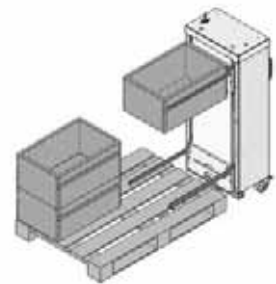
item 135561
to traverse



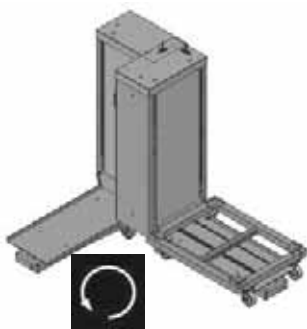
item 140656
with housing – safety door



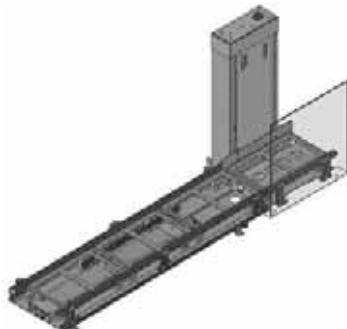
item 139320
for tilting



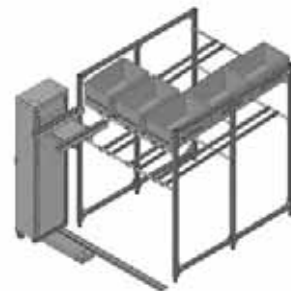
item 130730
to shift KLT



item 136159
can be swivelled up to 360 degrees



item 135963
with work cycle line

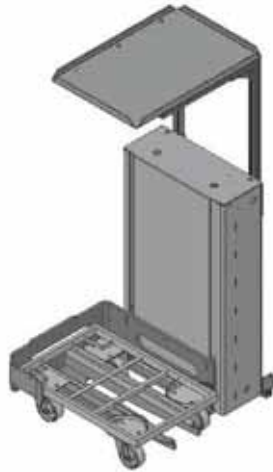


item 140480
Rack feeder

Other models / dimensions / loads as well as control elements on request.

MATERIAL IN FLOW

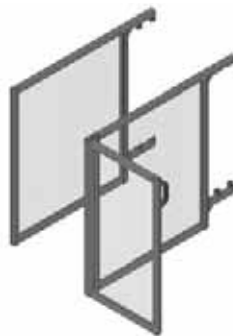
LIFTERS



item 140491
KLT-deposit



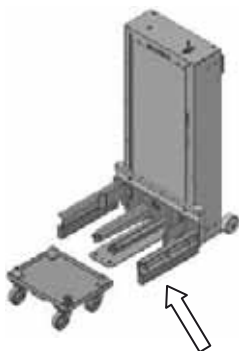
housing for protection



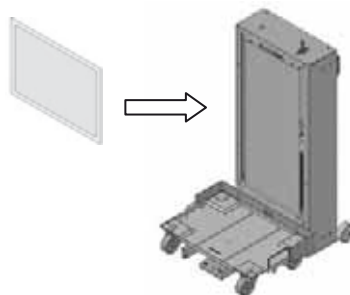
housing
with automatic protection
safety door



item 140384
panel fixture can be swivelled



bumper – Stop bar



magnetic vision window for writing or for
operation manuals

Further types / accessories on request

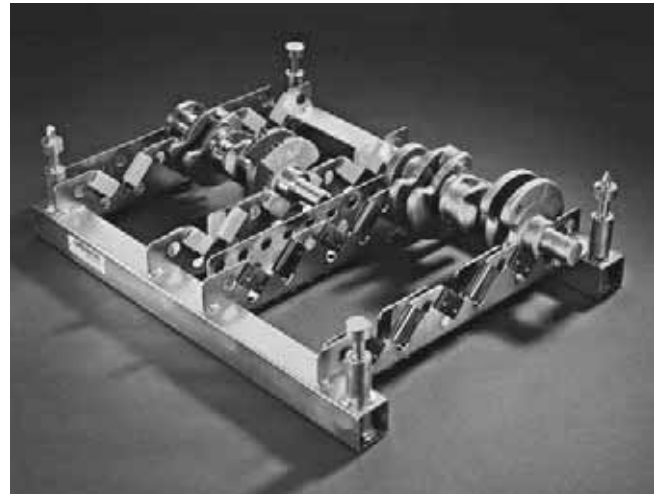
Lifter Accessories

Reasonable accessories

NOTES



WORKPIECE CARRIERS



Tailor-made quality: From small and light to large and heavy – the geometry of the workpieces determines the design of the carrier systems. In times of constantly growing requirements, they have become indispensable in automated production.

Workpiece carriers serve to take up workpieces. They carefully and accurately transport parts of all sizes to their destination. Fixed carriers are particularly suitable for large-scale production, while the flexible designs are particularly suitable for small / medium-scale production.

Workpiece carriers have many names: Tray, WC, WCP..

At BLOKSMA, they are individually designed according to their respective task:

- To protect the products against damage during transport
- To ensure a precise positional arrangement to facilitate automatic feeding of processing or assembly machines
- In order to make it easier to remove or put back the workpieces, also in the case of manual work
- Can also be deployed in some cases for further work stages such as processing, assembling, equipping, painting, etc.

BLOKSMA workpiece carriers are available in standard sizes or specially adapted to meet your needs:

- Durable constructions manufactured from steel, stainless steel, aluminium or in a mixed construction form
- In the most diverse of designs and sizes
- Perfectly adapted to the part to be taken up
- With fixed or varied parts holding fixtures
- With metal or plastic holding elements

WORK PIECE CARRIER SYSTEMS - Product overview



Work piece carriers for light, small and High-precision components
WTB

153



Work piece carriers for heavy and big components
WTR

154

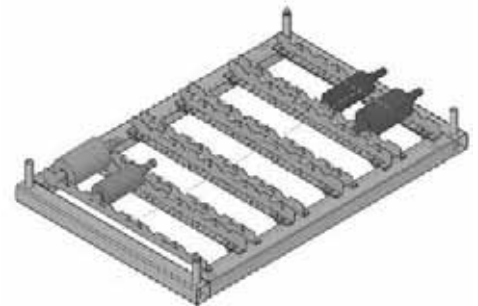


Work piece carriers in wire resp. wire – sheet metal combination
WTD

155

Check List – Layout

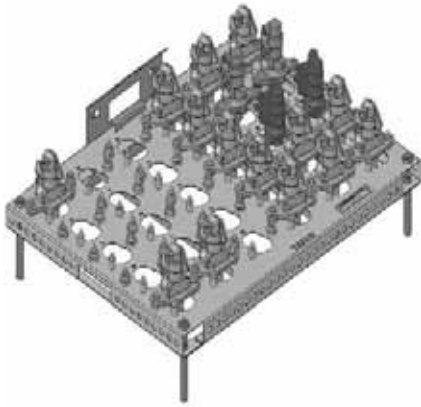
Parts	
Dimensions of parts length / width / height	
Part structure Waved / discoid Geometrically undefined Please attach drawing / sketch	
Weight of part	
Sample part provided	yes/no



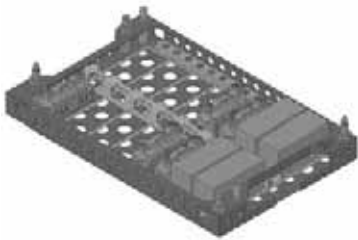
Features of workpiece carrier

Requested size of carrier/tray Length / width / height	
Parts handling - Manual handling - Automated handling - Position of pickup of tray? - Delicate spots to be considered	yes / no yes / no yes / no
Required spacing / distances	
Given cavity tolerances	
Need of protection of parts	
Stackable - Anti-twist protection required - Precision stacking in the tower	yes / no
Washing qualities - Cleaning medium? - Part to be pivoted?	yes / no
Surface requirements - Steel - zinc-plated - Steel - powder coated - Stainless steel – electro-polished - Aluminium anodized - Aluminium natural finish	
Additional requirements / Quantity of carriers/trays required	

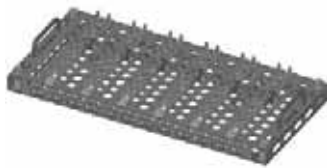
WORKPIECE CARRIERS



item 130365



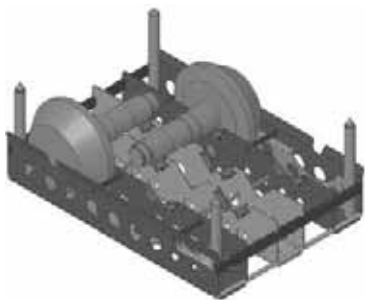
item 130452



item 124392



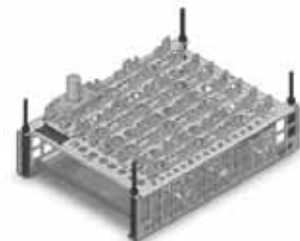
item 132117



item 127971



item 138207



item 129741

Due to the geometric shapes of the components/parts, the workpiece carriers are designed individually according to customer's requirements.

During the past 40 years, BLOKSMA has developed and produced more than 2.300 different kinds of workpiece carriers.

Workpiece Carriers WTB

for light, small and
high-precision components

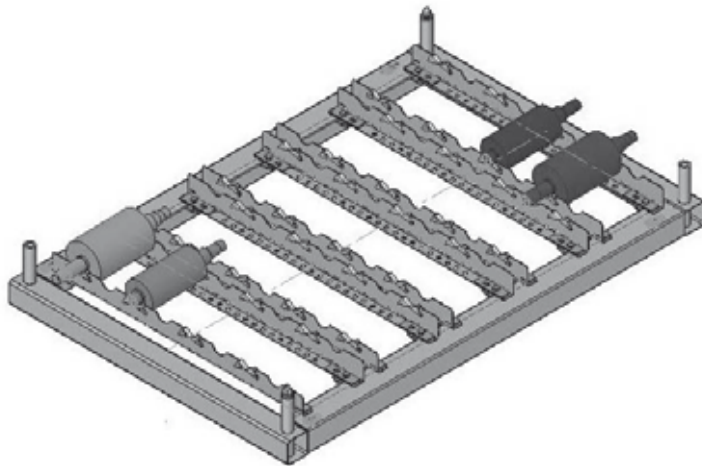
Adapted for automated production

For high-precision and delicate
components

Seating elements adapted to products to
be carried

Made of steel, stainless steel, aluminium
or a combination thereof

WORKPIECE CARRIERS



Item 131587

Workpiece Carriers WTR

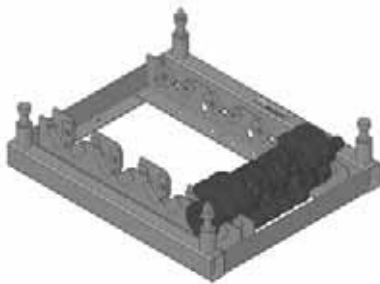
for heavy and big components

Adapted for automated production

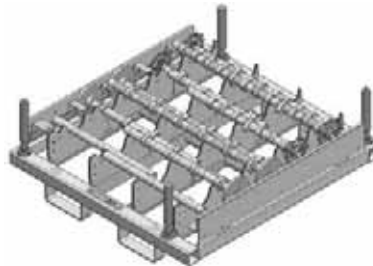
Adapted for heavy components

Seating elements adapted to products to be carried

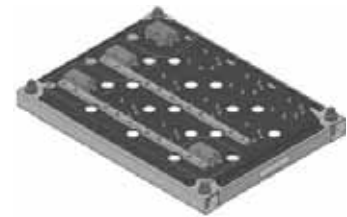
Made of steel, stainless steel, aluminium or a combination thereof



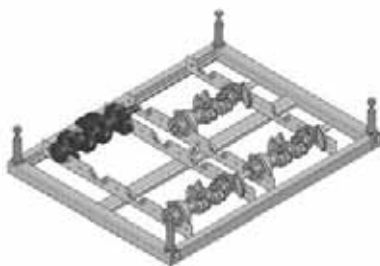
Item 131751



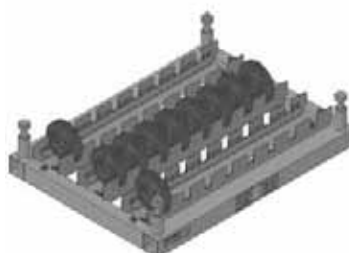
Item 132719



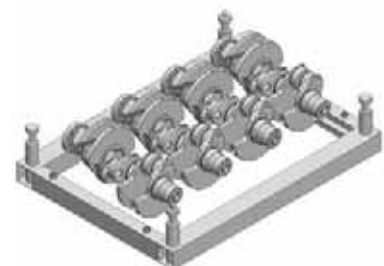
Item 126708



Item 133904



Item 139824

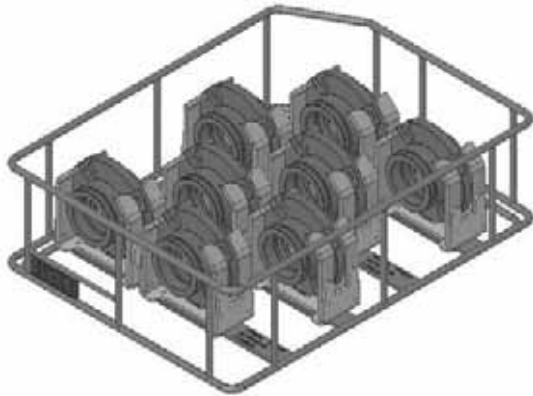


Item 142732

Due to the geometric shapes of the components/parts, the workpiece carriers are designed individually according to customer's requirements.

During the past 40 years, BLOKSMA has developed and produced more than 2.300 different kinds of workpiece carriers.

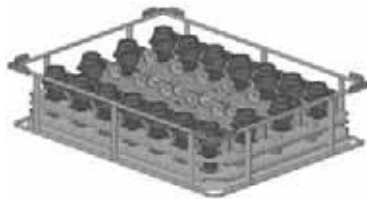
WORKPIECE CARRIERS



item 129333



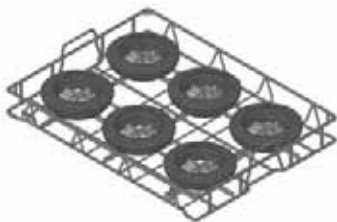
item 127319



item 132362



item 128288



item 124520



item 133555



item 136304

Workpiece Carriers WTD

in wire resp. wire - sheet metal
combination

Adapted for automated production

Very high positioning accuracy

Good washing qualities

Seating elements adapted to products to
be carried

Made of steel, stainless steel, aluminium
or a combination thereof

Due to the geometric shapes of the components/parts, the workpiece carriers are designed individually according to customer's requirements.

During the past 40 years, BLOKSMA has developed and produced more than 2.300 different kinds of workpiece carriers.

SUPERMARKETS

Goods for daily needs can be purchased at the supermarket.

Nowadays, this term is used in companies to describe areas in which the material required for assembly and production is provided in a structured manner – in the smallest of spaces, always ready to be collected and always in the volume required.

BLOKSMA supermarkets fulfil a multitude of the most diverse requirements. They are primarily designed for the provision of goods that are stored on trolleys and are intended for immediate consumption.

“First in, first out” is a daily demand; Kanban planning can be implemented at low costs. The length of the floor track determines the volume of products that is to be provided and should not be fallen below or exceeded.

At this point, further elements such as height adjustable labelling systems or so-called min-max displays are helpful.



BLOKSMA is your competent partner for daily as well as special solutions and is constantly developing further. Profit from our experience as well:

- All supermarket elements have a modular design and are precisely tailor-made to the customer's requirements.
- Mounting or bonding to the floor can be foregone in many cases, thus increasing flexibility.
- Comfortable monorail system: Only one wheel pair is ever driven.

Additional applications are possible without any problems whatsoever, for example

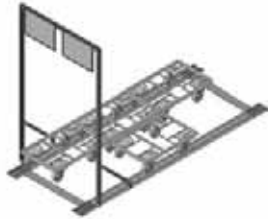
- Stop function on the discharge side
- Superstructure with overhead rolling racking paths complete with passing function
- Dust-tight design

The most recent developments even ensure that your goods always move independently to the discharge side.

Ask us!

SUPERMARKETS - Product Overview

We design your supermarket – and deliver it pre-customized!
But you can buy single components as well.



Supermarket – Alu guide rail
for wheels widths up to 41 mm

159



Supermarket – Steel guide rail
Version 2 for wheels widths from 52 mm

165



Supermarket Accessories

169



Trolley parking

175



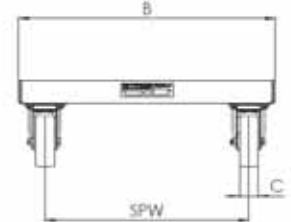
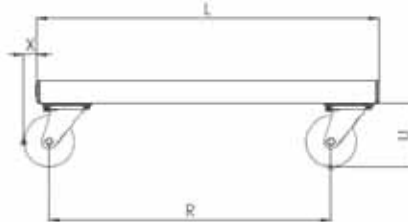
Supermarket – with housing / under roof

179

Check List - Layout Supermarket

Dimensions of trolley

Width	B	mm
Track width	SPW	mm
Wheel width	C	mm
Length	L	mm
Length distance wheels	R	mm
Excess length swivel castor	X	mm
Clearance	U	mm



Wheels

Castors 2 swivel / 2 fixed castors 4 swivel castors

Wheel quality – coating (PA / PP rubber or similar)

With stopper / brake yes no

Directional lock existing yes no

Wheel brand

Wheel diameter mm

Number of trolleys side by side units

Number of trolleys in a row units

Feed of trolley short side long side

Housing (open) yes no

Height of housing mm

Housing (closed) yes no

Height of housing mm

Covering Plexiglass sheet metal

Doors yes no

Tag (track identification) yes no

Tag both sides yes no

Min-Max-identification yes no

Labelling yes no
 front back
 standing hanging
 from ceiling with feet

ESD version yes no

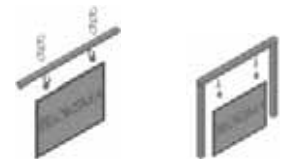
Type G2 (Steel) G3 (Alu)



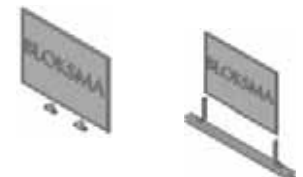
feed from crosswise



feed from lengthwise



Hanging labeling



Standing



housing (open)



housing (closed)



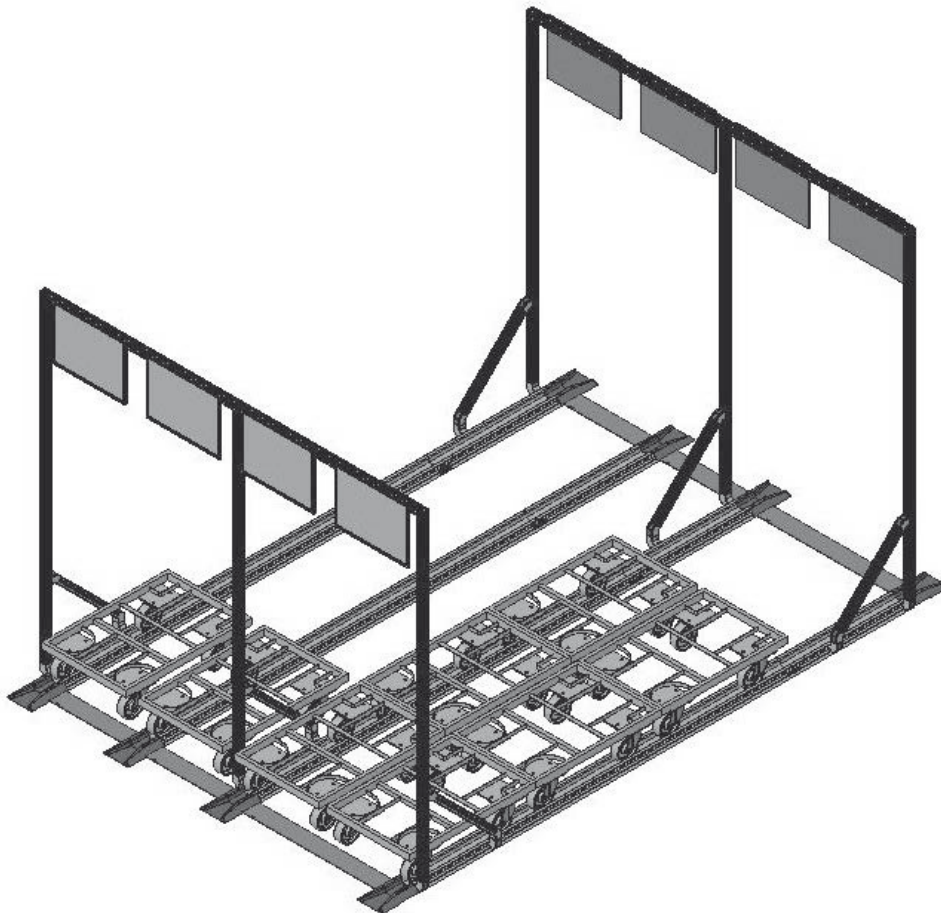
tag one side



tag both sides

SUPERMARKET ALUMINIUM GUIDE RAIL – G3

Wheel rail on one side – Alu guide rail
for trolleys, wheel width up to 41 mm

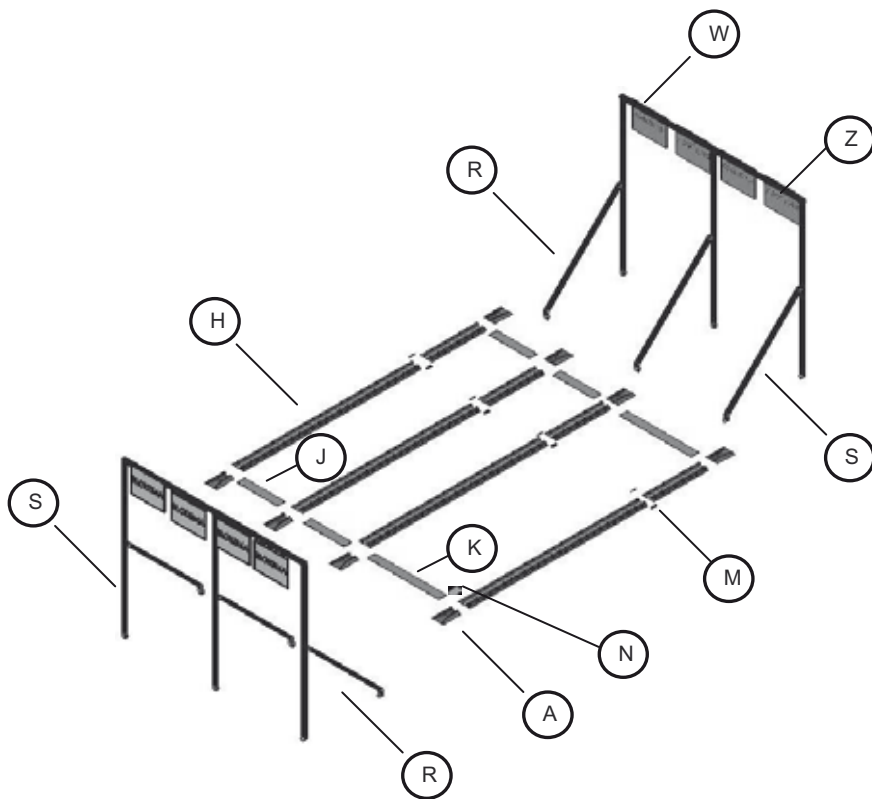


Supermarket Alu guide rail

- ✓ Optimal and visual overview
- ✓ Standardized FIFO and KANBAN Supermarket systems
- ✓ Ensures exact positioning of the material close to where it is used
- ✓ Modular system – hence expandable
- ✓ Can also be installed under existing shelf setups
- ✓ Missing parts can be seen immediately
- ✓ Control – no more over production

SUPERMARKET ALUMINIUM GUIDE RAIL – G3

Supermarket
G3 – Aluminium
Installation



A	Entry element
H	Guiding rail
J	Connecting element
K	End plate
M	Connector
N	Return stop
R	Vertical modul right
S	Vertical modul left
W	Cross profile
Z	Placard frame

Labelling possibilities

K



hanging from
ceiling

H



hanging
via cross profile

B



standing
via cross profile

P



standing
via cross profile

SUPERMARKET ALUMINIUM GUIDE RAIL – G3

Supermarket G3 - Aluminium



For trolleys with wheel width
41 mm maximum

Modular system

Single components Infeed elements and guiding rails

Item no.	Description	Model
138124	Infeed element FIFO-Alu- guide	EBA – EFEOD



Item no.	Description		Model
138125	Aluminium guide rail	600 mm	EBA – LSCHD
138126	Aluminium guide rail	1.000 mm	EBA – LSCHD
138127	Aluminium guide rail	1.200 mm	EBA – LSCHD
138742	Aluminium guide rail	1.800 mm	EBA – LSCHD
138128	Aluminium guide rail	2.000 mm	EBA – LSCHD
138129	Aluminium guide rail	2.400 mm	EBA – LSCHD
138130	Aluminium guide rail	3.600 mm	EBA – LSCHD
138318	Aluminium guide rail	6.000 mm	EBA – LSCHD



Other lengths on request.

SUPERMARKET ALUMINIUM GUIDE RAIL – G3



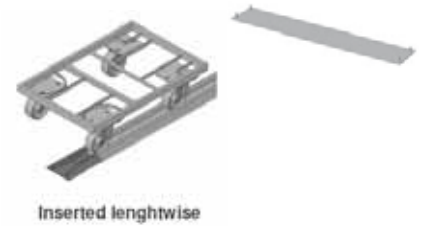
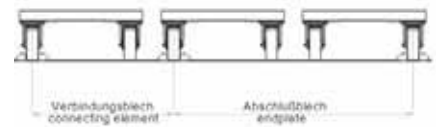
Supermarkt G3 - Aluminium

For trolleys with wheel width
41 mm maximum

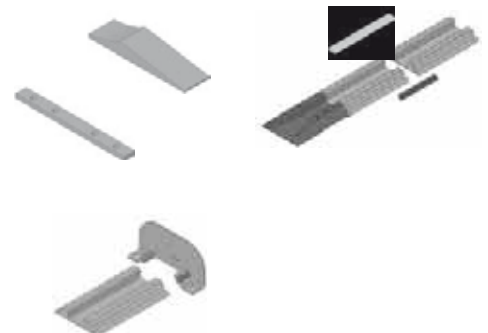
Modular system

Single components connecting elements – stoppers – etc.

Item No	Description	Model
138131	Connecting element - BBA-STVED Inserted lengthwise	Trolley 600 x 400 catalogue page 107
139184	End plate - BBA-STVED Inserted lengthwise	Trolley 600 x 400 catalogue page 107
139602	Connecting element- BBA-STVED Inserted crosswise	Trolley 600 x 400 catalogue page 107
139608	End plate - BBA-STVED Inserted crosswise	Trolley 600 x 400 catalogue page 107
139604	Connecting element - BBA-STVED Inserted crosswise	Trolley 800 x 600 catalogue page 109
139610	End plate - BBA-STVED Inserted crosswise	Trolley 800 x 600 catalogue page 109
139565	Connecting element - BBA-STVED Inserted lengthwise	Trolley 630 x 430 catalogue page 112
139612	End plate - BBA-STVED Inserted lengthwise	Trolley 630 x 430 catalogue page 112
138735	Connecting element- BBA-STVED Inserted crosswise	Trolley 630 x 430 catalogue page 112
136914	End plate- BBA-STVED Inserted crosswise	Trolley 630 x 430 catalogue page 112



Item No.	Description	Model
139003	Return stop	EBA – RSEOD
138759	Connecting element guide rails	BBA – LASCD



Item No.	Description	Model
142073	Final stop – rail	BBA – ABRLD
139621	Brake at run out – can be retrofitted	

SUPERMARKET ALUMINIUM GUIDE RAIL – G3



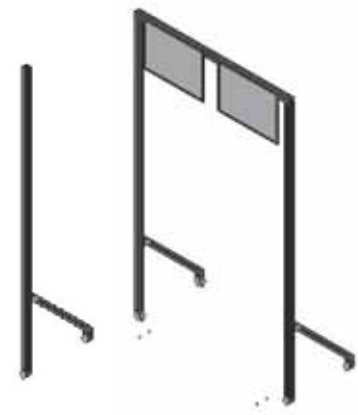
Supermarkt G3 - Aluminium

For trolleys with wheel width
41 mm maximum

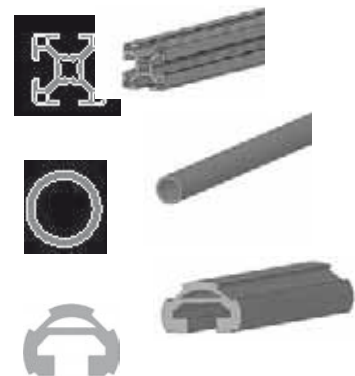
Modular system

Single components vertical moduls and cross profiles

Item No.	description	Model
140007 140005	Vertical module consisting of 1 aluminium profile, vertical, 2100 mm, stabilizer bar, connecting angle left-hand right- hand	For trolleys BOK 600 x 400 short side 800 x 600 long side BBA – SEMLD BBA – SEMRD
140008 140006	Vertical module consisting of 1 aluminium profile, vertical, 2100 mm, stabilizer bar, connecting angle left-hand right hand	For trolleys Bodenroller BOK 600 x 400 long side BBA – SEMLD BBA – SEMRD
139770 139771	Vertical module consisting of 1 aluminium profile, vertical, 2100 mm, stabilizer bar, connecting angle left-hand right-hand	For trolleys BOZ 630 x 430 short + long side BBA – SEMLD BBA – SEMRD



Item No.	description	Model
	Cross profile - Aluminium profile 30 x 30 mm Labelling from ceiling or with vertical moduls possible	ETP – ALPRE Length in mm
	Cross profile - Aluminium profile Ø mm Labelling from ceiling or with vertical moduls possible	ETP – ALPRU Lenght in mm
	Cross profile - Round with slots Aluminium profile Ecoshape Ø mm Labelling from ceiling or with vertical moduls possible	ETP – ALPEC Length in mm



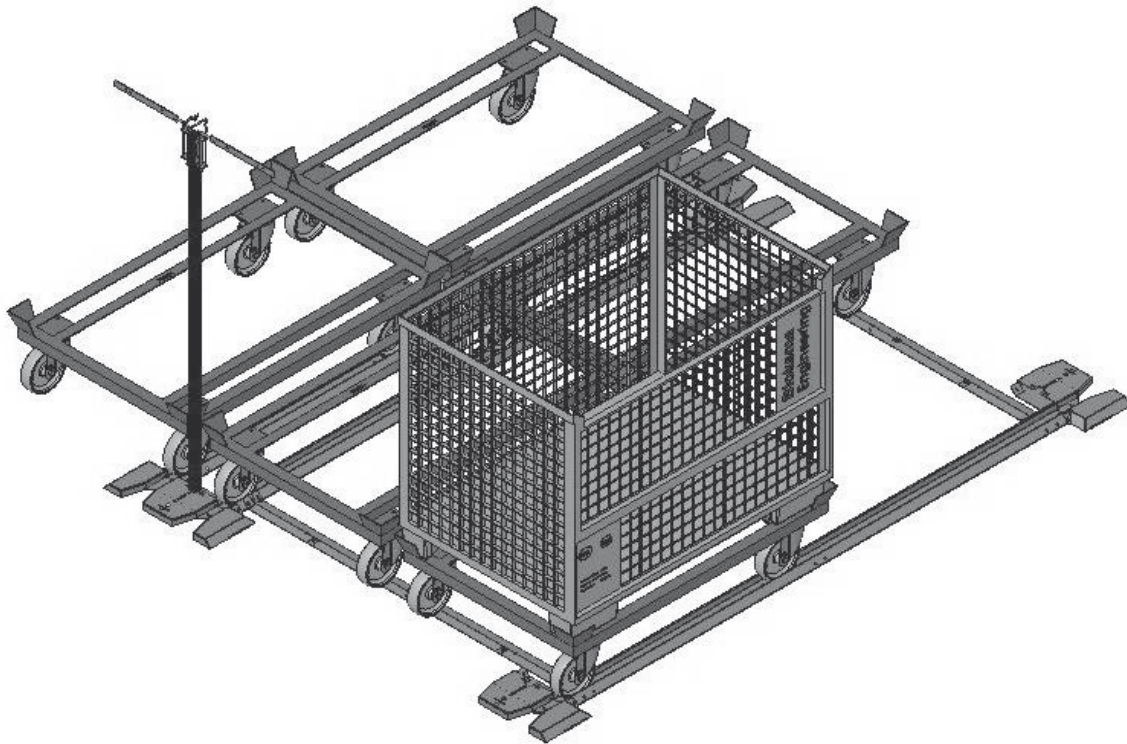
MATERIAL IN FLOW

NOTES



SUPERMARKET STEEL GUIDE RAIL G2

Wheel guidance on one side – mono and dual track system
for trolleys with wheel widths up to 39 and from 41 mm



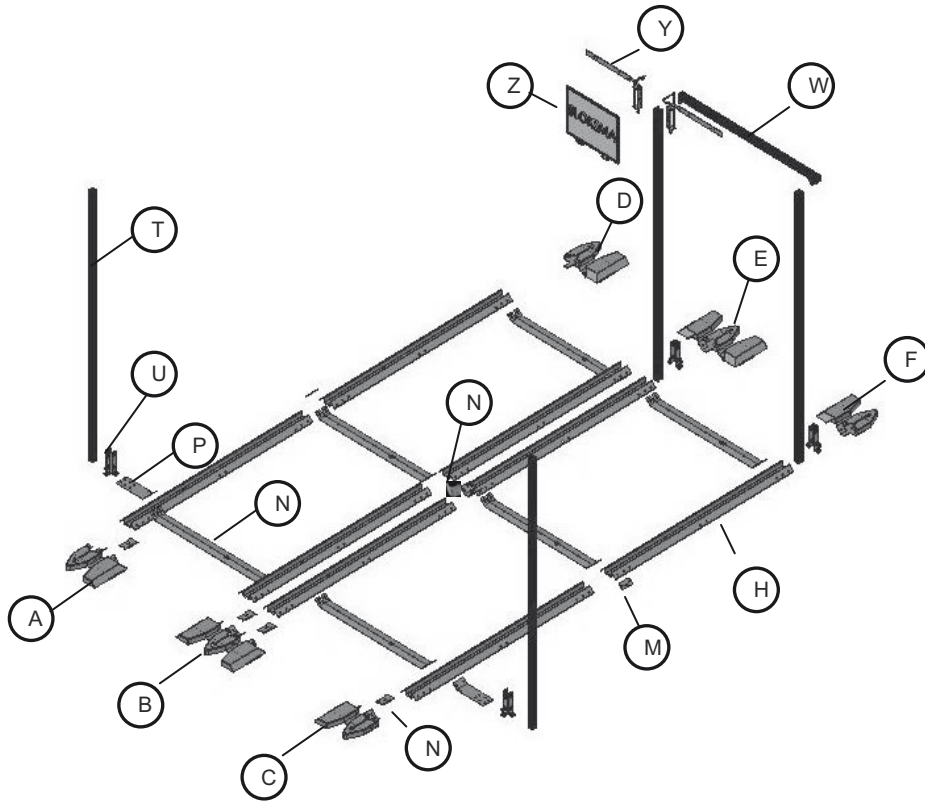
Supermarket Steel guide rail

- ✓ Optimal and visual overview
- ✓ Standardized FIFO and KANBAN Supermarket systems
- ✓ Ensures exact positioning of the material close to where it is used
- ✓ Modular system – hence expandable
- ✓ Can also be installed under existing shelf setups
- ✓ Missing parts will be immediately notice
- ✓ Control – no more overproduction

SUPERMARKET STEEL GUIDE RAIL G2

Supermarket

G2 – Steel
Installation



A	Entry element left side
B	Entry element center
C	Entry element right side
D	Entry element exit left hand brake
E	Entry element exit center brake
F	Entry element exit right side brake
H	Guiding rail
J	Connector strands
L	Connector guide rails
M	Connector
N	Return stop
P	Fixing plate
T	Holding profile
U	Profile holder
W	Crosswise profile
Y	Info holder
Z	Placard frame
Z	Placard frame

Labelling possibilities

K



hanging from ceiling

H



hanging via cross profile

B



standing via cross profile

P



standing via cross profile

SUPERMARKET STEEL GUIDE RAIL G2

Wheel guidance on one side – mono and dual track system



Supermarket

G2 – Steel SW 52 mm

Adapted to trolleys with max. wheel width max. 52 mm

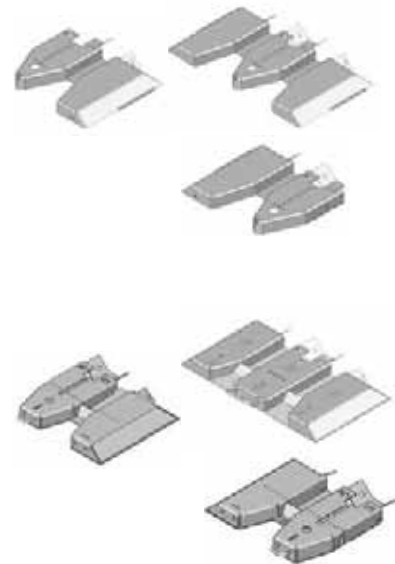
Item no. refer to max. 52 mm wheel width (please request other sizes)

Modular system

Item No.	Description	Model
137605	Entry element, left side	BBA – EFELZ
137598	Entry element, center	BBA – EFEMZ
137602	Entry element, right side	BBA – EFERZ

Item No.	Description	Model
139583	Entry element exit left side with brake	BBA – AFELZ
139584	Entry element exit center with brake	BBA – AFEMZ
139585	Entry element exit right side with brake	BBA – AFERZ

Item No.	Description	Model
139587	Guiding rail steel SW52 600 mm	EBA – LSCHZ
139588	Guiding rail steel SW52 1.000 mm	EBA – LSCHZ
139590	Guiding rail steel SW52 1.200 mm	EBA – LSCHZ
139372	Guiding rail steel SW52 2.000 mm	EBA – LSCHZ
137597	Guiding rail steel SW52 2.400 mm	EBA – LSCHZ



Other lengths and materials (Alu, V2A, pre zinc-coated steel) on request

SUPERMARKET STEEL GUIDE RAIL G2

Wheel guidance on one side – mono and dual track system



Supermarket

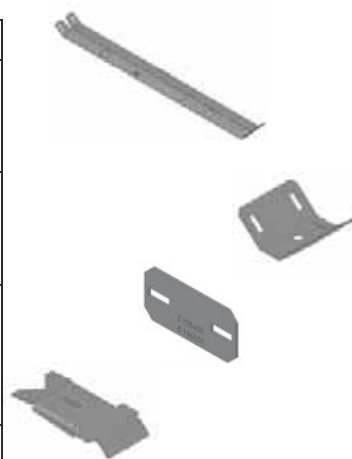
G2 – Steel SW 52 mm

For trolleys with wheel widths max. 52 mm

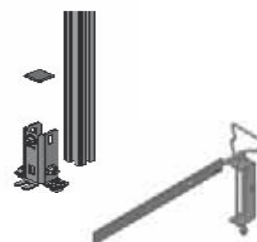
The listed item numbers refer to wheel widths 52 mm maximum (other widths on request)

Modular system

Item no.	Description	Model
	Connector - strands To be adapted to track width / distance wheels to overall dimensions of trolley	BBA – STVEZ
	Connector - guide rails To be adapted to track width / distance wheels to overall dimensions of trolley	BBA – SVMOZ
135459	Connecting link – to increase length of guide rails To be adapted to track width / distance wheels to overall dimensions of trolley	BBA – LASCZ
138085	Return stop on entry element	EBA – RSEOZ







Item no.	Description	Model
139586	Vertical module height 1.500 mm; incl. end cover	BBA – SEMMZ
135890	Identification tag holder incl. fastening	BBA – INFOH



SUPERMARKET ACCESSORIES ASSEMBLY GROUP
Supermarket
 Labelling - Identification

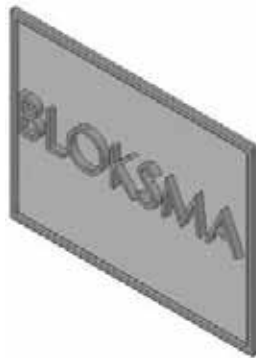
 Assembly group
 Consisting of:

 Placard frame
 including
 Fixing material

Item-No. K 	Item-No. H 	Item-No. B 	Item-No. P 	Description	Model
142641 142642 142643	138763 138761 140682	142659 142660 142661	142677 142678 142679	A3 Placard frame yellow A4 Placard frame yellow A5 Placard frame yellow	BPL – PLA
142644 142645 142646	142636 140674 140679	142662 142663 142664	142680 142681 142682	A3 Placard frame red A4 Placard frame red A5 Placard frame red	BPL – PLA
142647 142648 142649	142637 140675 140680	142665 142666 142667	142683 142684 142685	A3 Placard frame white A4 Placard frame white A5 Placard frame white	BPL – PLA
142650 142651 142652	142638 140676 140681	142668 142669 142670	142686 142687 142688	A3 Placard frame blue A4 Placard frame blue A5 Placard frame blue	BPL – PLA
142653 142654 142655	142639 140677 140683	142671 142672 142673	142689 142690 142691	A3 Placard frame green A4 Placard frame green A5 Placard frame green	BPL – PLA
142656 142657 142658	142640 140678 140684	142674 142675 142676	142692 142693 142694	A3 Placard frame black A4 Placard frame black A5 Placard frame black	BPL – PLA

Single parts for hanging labelling please refer to page

SUPERMARKET ACCESSORIES SINGLE COMPONENTS



Supermarket Accessories

Components for labelling

Assembly group
Placard frame
consisting of:

Placard frame
Slice and closure clip

Single components - Placard frame

Item-No.	description	Model
138767 138766 138765	A3 Placard frame yellow A4 Placard frame yellow A5 Placard frame yellow	EPL – PLAKY
142494 139987 139731	A3 Placard frame red A4 Placard frame red A5 Placard frame red	EPL – PLAKR
142632 139988 139990	A3 Placard frame white A4 Placard frame white A5 Placard frame white	EPL – PLAKW
142633 139757 139911	A3 Placard frame blue A4 Placard frame blue A5 Placard frame blue	BBA – PLAKB
142634 139758 139992	A3 Placard frame green A4 Placard frame green A5 Placard frame green	BBA – PLAKG
142635 139989 139993	A3 Placard frame black A4 Placard frame black A5 Placard frame black	BBA – PLAKS

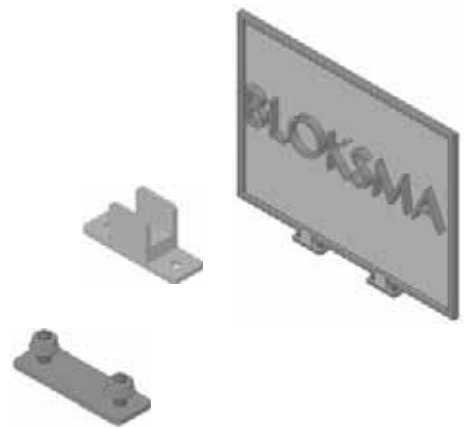
SUPERMARKET ACCESSORIES SINGLE COMPONENTS

Supermarket Accessories

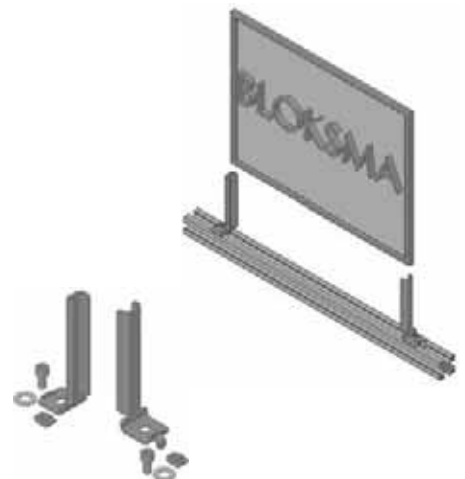
Components for labelling

Single components - Fixing elements I

Item-No.	Description	Model
140196	Fixture for placard frame - standing -	EPL – INFHS
141332	Plate plus accessories	EPL – ANSCH



Item-No.	Description	Model
142113	Fixture for placard frame - standing -	BPL – INFHS



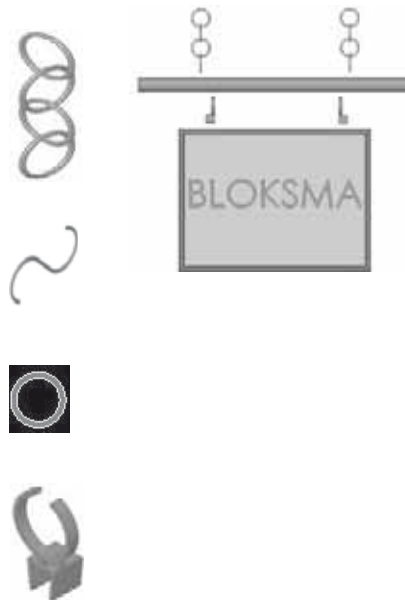
SUPERMARKET ACCESSORIES SINGLE COMPONENTS

Supermarket Accessories

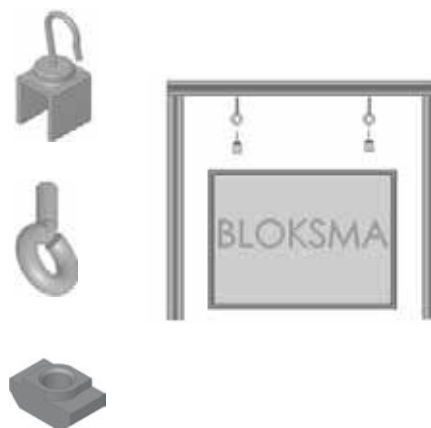
Components for labelling

Single components - Fixing elements II

Item-No.	Description	Model
142405	Link chain 30 mtr	EPL – KEGLI
142404	Look – hook for link chain	EPL – HAKOO
142406	Fixing tube	EPL – ALPRU
142403	Fixing for placard frame at fixing tube	EPL – INFHR



Item-No.	Description	Model
138768	Hang up hook	EPL – HAKOO
125686	Bail	EPL – ÖSENS
133427	Nut M6 8-er Nut	EPL – HAMUO

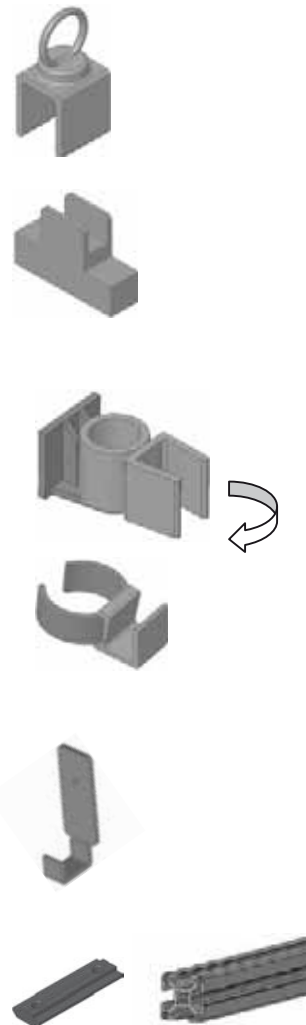


SUPERMARKET ACCESSORIES SINGLE COMPONENTS
Supermarket
 Accessories

Components for labelling

Single components - Fixing elements III

Item-No.	Description	Model
140870	Suspension hook	EPL – INFHH
142415	Placard - frame Magnetic	EPL – INFHM
142416	Placard frame - fixture Can be vertically swiveled	EPL – INFHD
142403	Fixture for placard frame at fixing tube	EPL – INFHQ
142418	Placard frame – fixture Can be glued or screwed vertically on the wall	EPL – INFHK
139727	Placard frame - fixture Can be glued or screwed vertically on the wall	EBA – LASCDI



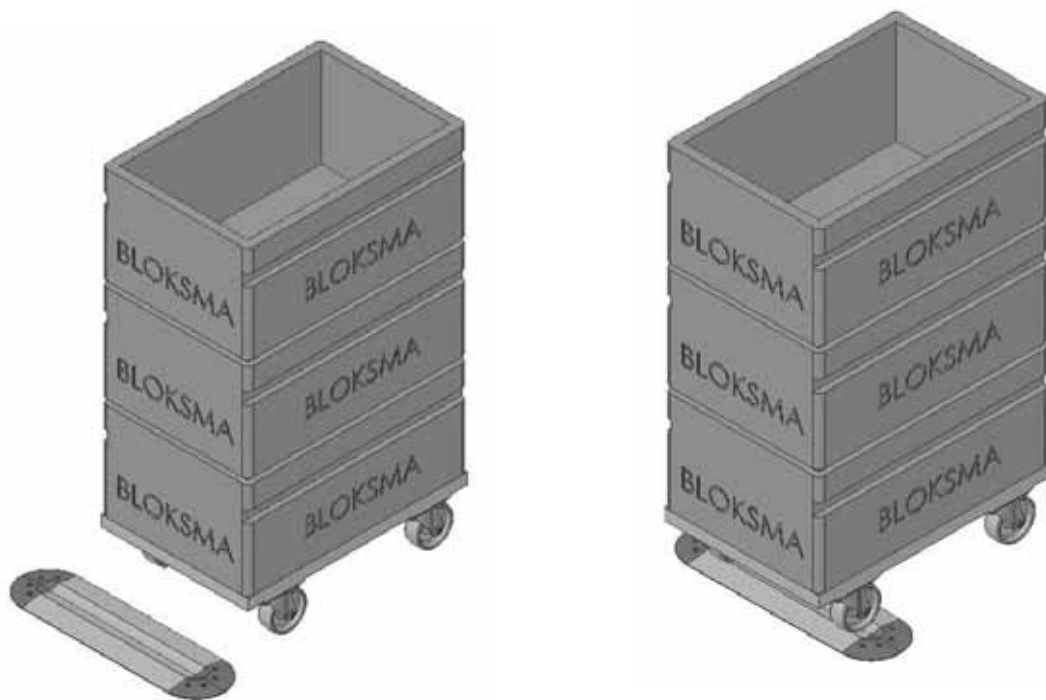
MATERIAL IN FLOW

NOTES



TROLLEY PARKING

Correct positioning of each trolley – no danger of accidental move



Trolley parking

- ✓ To prevent accidental move of trolley
- ✓ To ensure the correct storage area
- ✓ To provide ideal optical overview

TROLLEY PARKING



Parking lots

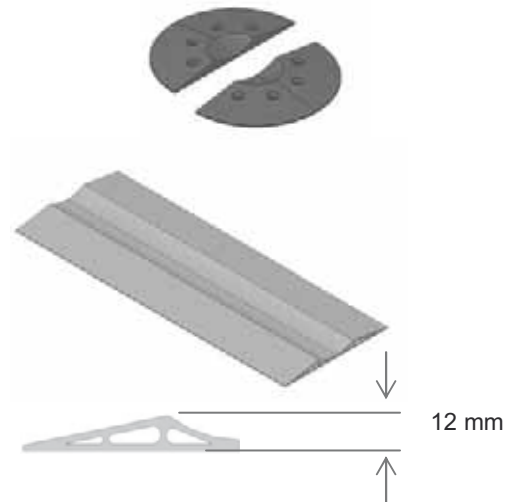
Safe parking of the trolleys at the work place – no danger of an accidental move

Single components for self-assembly

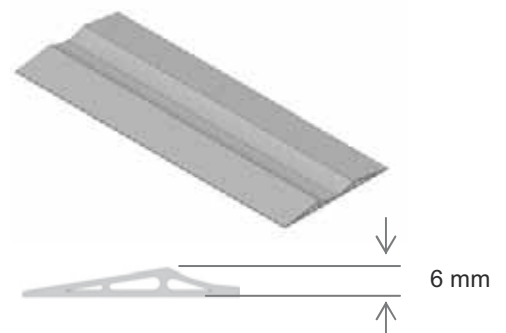
Modular system

Item-No.	description	Model
138729	End piece for parking lot	EPA – ENDKA

Item-No.	description	Model
138730	Parking rail, aluminium Height 12 mm	EPA – SCHIE
138755	Parking rail, aluminium Height 12 mm	EPA – SCHIE
138756	Parking rail, aluminium Height 12 mm	EPA – SCHIE
138757	Parking rail, aluminium Height 12 mm	EPA – SCHIE
138758	Parking rail, aluminium Height 12 mm	EPA – SCHIE



Item-No.	description	Model
141774	Parking rail, aluminium Height 6 mm	EPA – SCHIE
138755	Parking rail, aluminium Height 6 mm	EPA – SCHIE
141775	Parking rail, aluminium Height 6 mm	EPA – SCHIE
139981	Parking rail, aluminium Height 6 mm	EPA – SCHIE
139982	Parking rail, aluminium Height 6 mm	EPA – SCHIE



TROLLEY PARKING



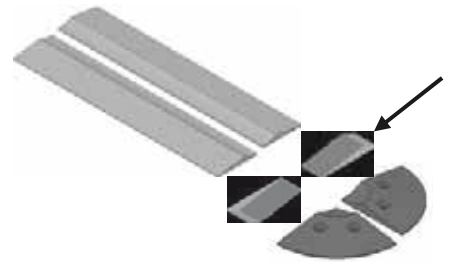
Parking lots

Safe parking of trolleys at the work place – no danger of an accidental move

Single components for self-assembly

Modular system

Item no.	description	Model
139983	Transition piece (content: 2 pieces))	EPA – ÜBGAP
139984	Transition piece (content: 4 pieces)	EPA – ÜBGAP



Item no.	description	Model
138789	Distance piece end cap parking lot Wheel Ø 101 – 150 mm 20 mm width	EPA – SCHIE
138790	Distance piece end cap parking lot wheel Ø 150 – 180 mm width 30 mm	EPA – SCHIE
138800	Distance piece end cap parking lot wheel Ø larger 180 mm Width mm	EPA – SCHIE



TROLLEY PARKING



Parking lots

Safe parking of trolleys at the work place – no chance of an accidental move

Ready for use

Modular system

BG-Parking lot

Item no.	Description		Model
139559	BG-parking lot consisting of end cap and rail	400 mm	ZPA – KOMPH
139560	BG-parking lot consisting of end cap and rail	600 mm	ZPA – KOMPH
139561	BG-parking lot consisting of end cap and rail	800 mm	ZPA – KOMPH
139562	BG-parking lot consisting of end cap and rail	1.200 mm	ZPA – KOMPH



Floor marking – adhesive tapes

Item no.	Description	Model
137791	Fluor marker tape Width 50 mm, length 50 m red	ZUB – MARBA
137792	Fluor marker tape Width 50 mm, length 50 m white	ZUB – MARBA
137793	Fluor marker tape Width 50 mm, length 50 m light blue	ZUB – MARBA
137794	Fluor marker tape Width 50 mm, length 50 m yellow	ZUB – MARBA
137795	Fluor marker tape Width 50 mm, length 50 m green	ZUB – MARBA
137796	Fluor marker tape Width 50 mm, length 50 m black	ZUB – MARBA
137797	Fluor marker tape Width 50 mm, length 50 m blue	ZUB – MARBA
137798	Fluor marker tape Width 50 mm, length 50 m orange	ZUB – MARBA
137799	Fluor marker tape Width 50 mm, length 50 m black/yellow	ZUB – MARBA

SUPERMARKET – WITH HOUSING



item 140039



item 139228
With superstructure (roller conveyor)

Supermarket

Additional versions

Generally, our supermarkets are made according to customers' requirements.

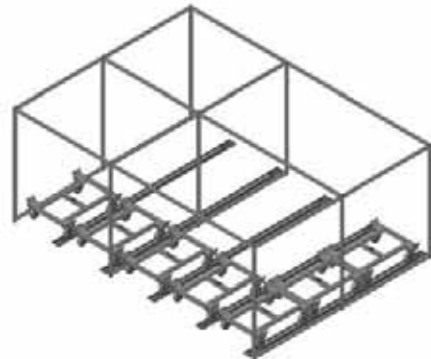
For supermarket stations:

Supermarket – monorail

Supermarket – dual track.

Housing with metal sheet / wave grid or synthetic panel

Superstructure with roller conveyor or similar available



item 138482

Additional versions on request

MATERIAL IN FLOW

COMPLETE SYSTEMS

BLOKSMA Engineering - a name that has become a synonym for professional material flow and sophisticated workpiece carriers.

Irrespective of their size, sector and products, we advise companies in all issues concerning material flow, workpiece carriers and general cargo handling.

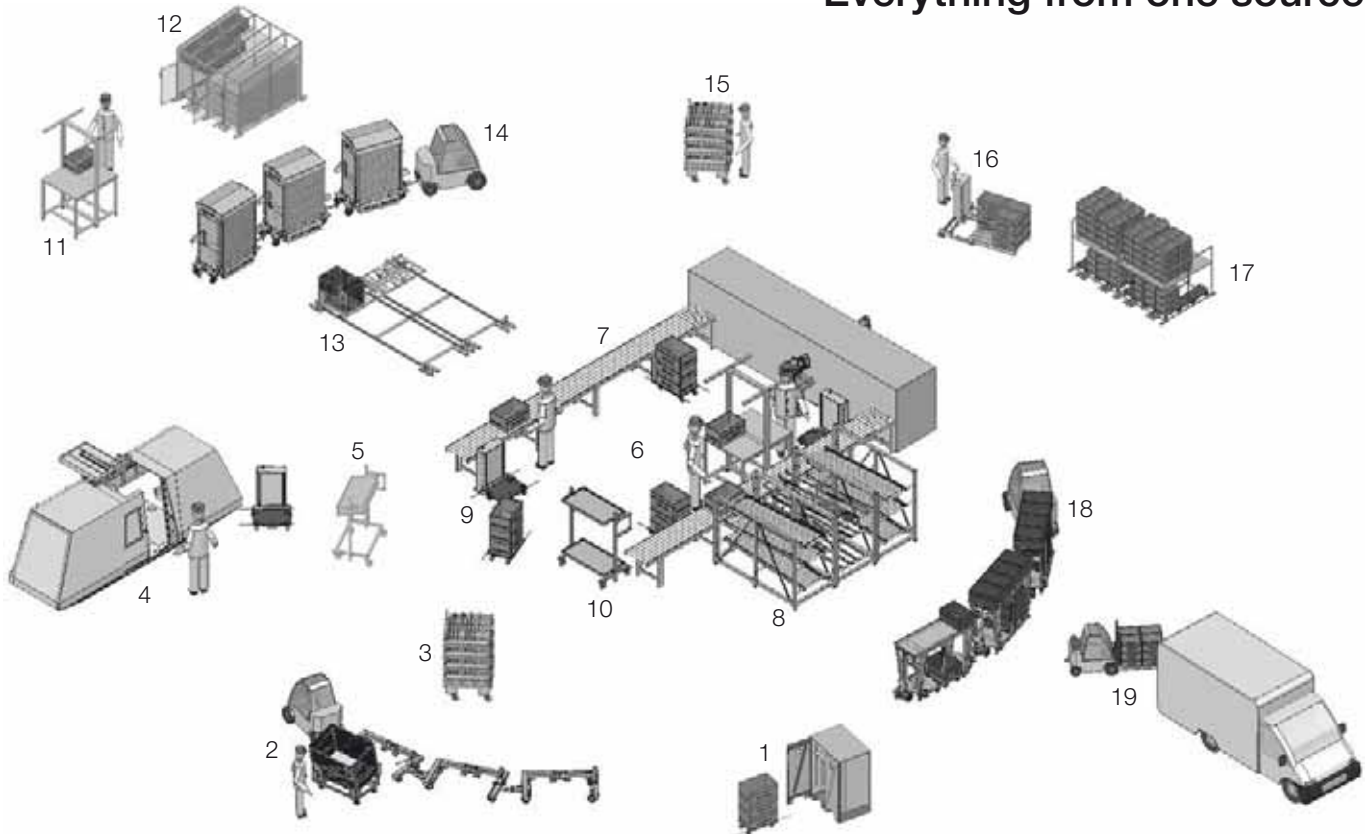
We are more than happy to present our diverse solutions and optimisation options for YOUR OPTIMUM MATERIAL FLOW.

We optimise existing plants and production processes and help you to reduce the "hidden extra production costs" that are becoming ever more important.

Staff from our service team as well as our system consultants are happy to help you with your detailed individual solutions tailored to your requirements.



Everything from one source



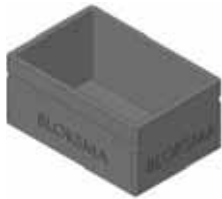
- 1 Transport cabinet with trolley
- 2 Milkrun C frame with trolley
- 3 Floor trolley with workpiece carrier
- 4 Front loading lifting device
- 5 Rolling shelving with inclined depositing rack
- 6 Complete U shaped assembly workstation

- 7 Driven belts
- 8 Kanban shelves with roller conveyors
- 9 Lifting device
- 10 Rolling shelving
- 11 Assembly workstation
- 12 Enclosed supermarket
- 13 Supermarket

- 14 Enclosed milkrun taxi wagon
- 15 Floor trolley with workpiece carrier
- 16 Container transfer device for C-KLT
- 17 Shelf with integrated rail station ship to dock
- 18 Milkrun portal wagon with trolley
- 19 Adapter pallet with trolley

COMPLETE SYSTEMS - Product overview

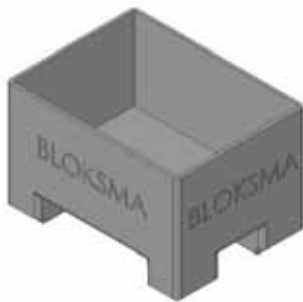
EVERYTHING FROM ONE SOURCE



All about KLT

Boxes, size 600 x 400 mm
KSY - KLT

182



All about GLT

Boxes, size 800 x 600 mm
KSY - GLT

183



All about PALLET CAGES / EURO PALLETS

of size 1.200 x 800 mm
KSY - GIBO

184

COMPLETE SYSTEMS

KLT



Complete Systems

KSY KLT

KLT, size 600 x 400 mm

Our products match – no problems as to serial interfaces or compatibility

Products	Item no.	See page
Trolley	137787	107
Top tray for trolley	139956	107
Handle	139211	115
Transport pallet	136629	123
Lifters, front loading	135031	131
Lifters, right side loading	133466	136
Lifters, left side loading	133465	140
Transportation rack	137393	123
Taxi cart	138632	119
Gantry cart	138056	120
Supermarket / Monorail		165 and following pages
Trolley parking	139559	175 and following pages



trolley



top tray



push handle



transport pallet



lifter, front loading



lifter, left side loading



lifter, right side loading



transportation rack



Taxi cart



gantry cart



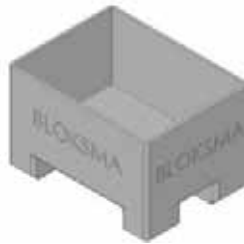
trolley parking



Supermarket

COMPLETE SYSTEMS

GLT



Complete Systems

KSY GLT

GLT, size 800 x 600 mm

Our products match – no problems as to serial interfaces or compatibility

Products	Item no.	See page
Trolley	139125	109
Top tray for trolley	140626	107
Handle		115
Transport pallet	136629	123
Lifters, front loading	137014	131
Lifters, right side loading	140622	136
Lifters, left side loading	137230	140
Transportation rack	137393	123
Taxi cart 3 x trolley 600 x 400 mm or 1 x trolley 800 x 600 mm and 1 x trolley 600 x 400 mm	138632	119
Gantry cart	139571	120
Supermarket / Monorail		165 and following pages
Trolley parking	139560	175 and following pages



trolley



top tray



handle



transport pallet



lifter, front

loading



lifter, left side loading



lifter, right side

loading



transportation rack



Taxi cart



gantry cart



trolley parking



Supermarket

MATERIAL IN FLOW

COMPLETE SYSTEMS

PALLET CAGES

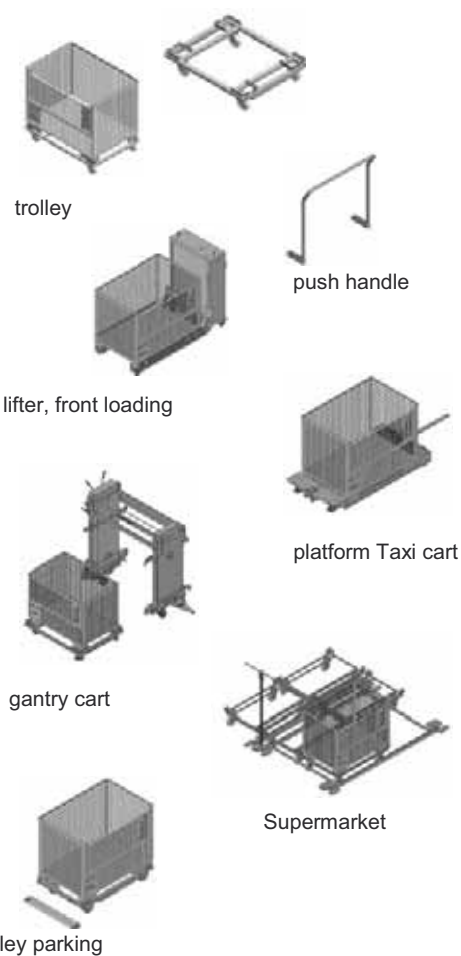


Complete Systems

KSY pallet cages
size 1.200 x 800 mm

Our products match – no problems as
to serial interfaces or compatibility

Products	Item no.	See page
Trolley	138267	113
Push handle	136674	115
Lifters, front loading	137147	133
Platform Taxi cart	133191	121
Gantry cart	138270	120
Supermarket / Dual track		165 and following pages
Trolley parking	139561	175 and following pages

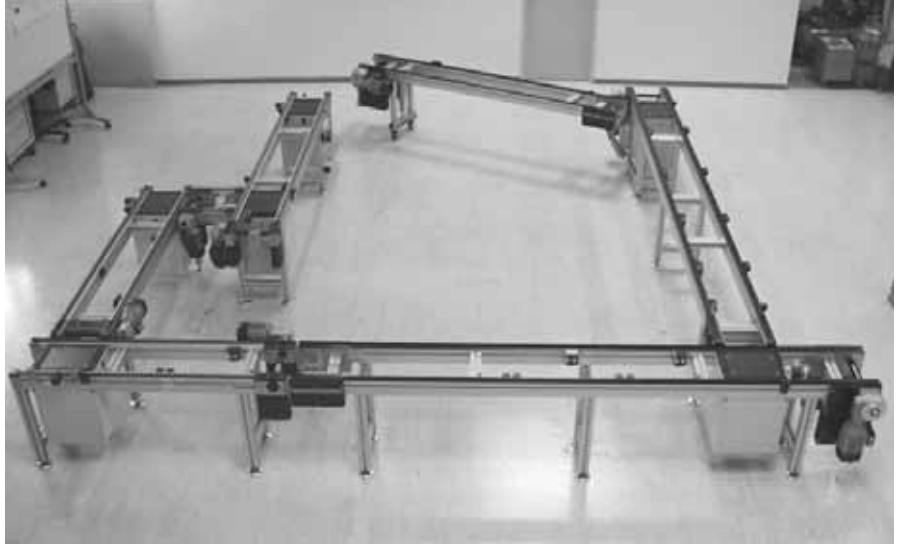


NOTES

FURTHER PRODUCTS

Continuous material flow is the decisive process in the value creation chain. Based on the main value streams, all secondary value streams such as pre-fabrications, preassemblies and suppliers must be integrated in to the flow. Therefore, each material flow must be planned reliably and implemented in a standardised manner in order to guarantee first-in-first-out (FIFO), short and stable lead times, increased process quality, just-in-sequence requirements and the necessary flexibility.

BLOKSMA manual production systems supplement the material flow portfolio with individual components for the areas of workstation linking, provision and further processing through to complete assembly lines. Handling applications can thus be significantly reduced and the material flow can be speeded up in closed circulation systems, even in those connected to external service providers and suppliers.



Whether individual or standardised, we adapt our material flow system to your wishes and requirements.

Combined with BLOKSMA's broad user experience, ideal tailor-made material flows are introduced at our customer's premises that actively support and stabilise the implementation of lean activities.

Many supplementary BLOKSMA products are realised in order to optimise the material flow. Some examples reflect the spectrum and diversity of the options:

- Workstations for assembly, packaging or checking
- Shelving systems for material provision
- Material wagons as a link between supermarket and workstation
- Manual linking by means of conveyor tracks
- Demand-oriented assembly lines all from one source

FURTHER PRODUCTS - Product Overview



Accessories

188



Workstations
APS

189



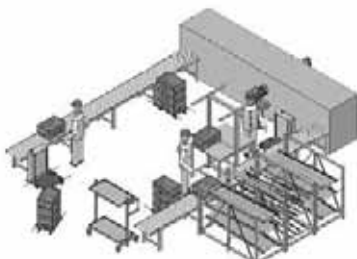
Material provision
MBR

190



Material provision trolley
MWA

191



Complete assembly lines
MLK

192

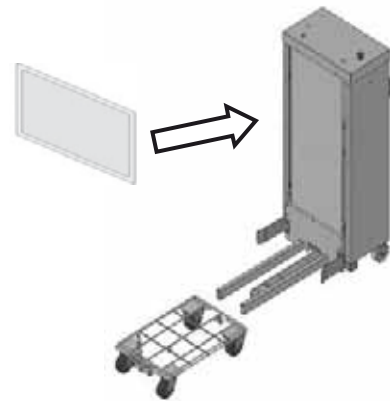
FURTHER PRODUCTS

Accessories

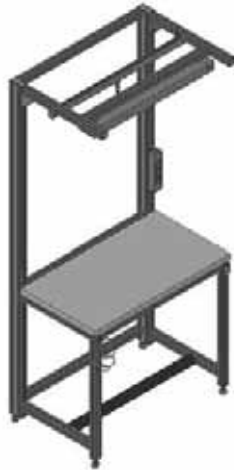
Vision window magnetic

Item-No.	Description	Model
142407 142411	A3 Placard frame yellow A4 Placard frame yellow	EPL – PLAM Y
142408 142412	A3 Placard frame red A4 Placard frame red	EPL – PLAMR
142409 142413	A3 Placard frame blue A4 Placard frame blue	EPL – PLAMB
142410 142414	A3 Placard frame green A4 Placard frame green	EPL – PLAMG

Operation manual



FURTHER PRODUCTS



item 139438



item 138925



item 138339

Workstations

APS

for assembly, inspection
and packing

Workstations according to customers'
requirements

Standard products made unique

For standing or sitting work,
height adjustable desk for every
demand

With power / air supply

With integrated material provision,
roller conveyor

Wide range of accessories, lighting,
grab containers, information boards,
footrests



item 137795

Other models on request.

Please ask for our check list.

FURTHER PRODUCTS



item 138813



item 138445

Material Provision - Racks

MBR

for Supermarkets or
production lines

Rack systems according to customers'
requirements

Standard products made unique

Stationary or mobile

Adaptable, even later on when
requirements change

For light and heavy loads

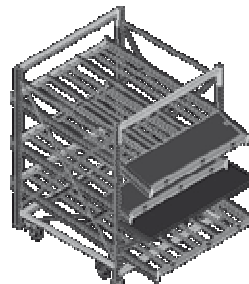
With roller conveyors / grab containers

For Kanban/ FiFo processes

ESD version on request

Can be linked with work stations

Wide range of accessories,
labeling, brake, etc.



item 140699

Other models on request.

Please ask for our check list.

FURTHER PRODUCTS



item 136634

Material Trolley

MWA

Link between Supermarket and workstation

Material trolley according to customer's requirements

Standard products made unique

Adaptable, even later on when requirements change

For light and heavy loads

Levels of shelves adjustable

With suspension device for grab container

With traverse for long or limp goods

ESD version on request

Wide range of accessories, labeling, information boards, brakes



item 137803



item 139410



item 137799

Other models on request.

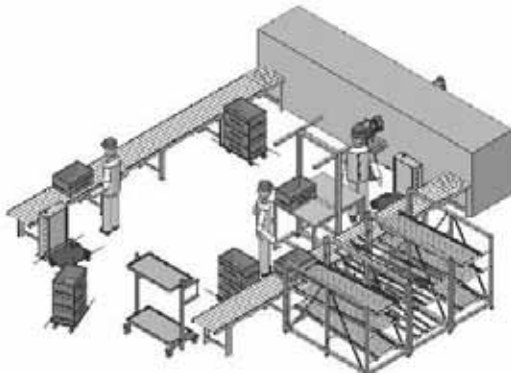
Please ask for our check list.

FURTHER PRODUCTS

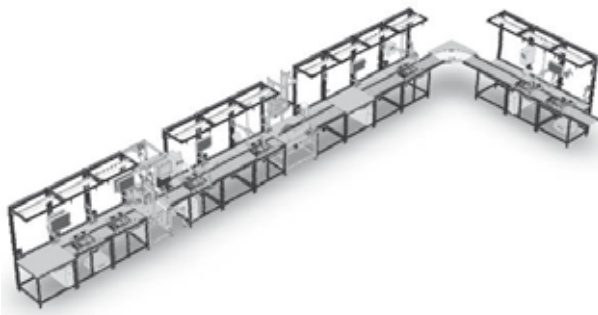
Complete Assembly Lines MLK

Adapted to your requirements and everything from one source

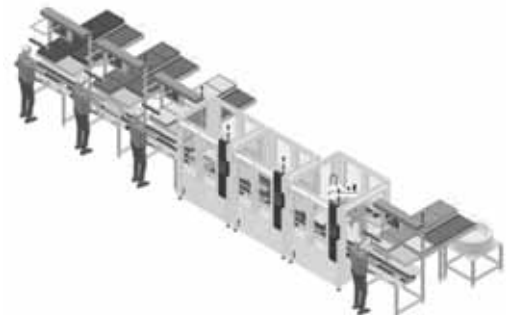
We will do the set-up – just let us know your task.



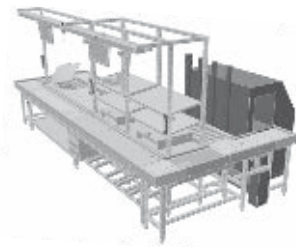
item 138338



item 137589



item 136911



item 136622

Other models on request.
Please ask for our check list.

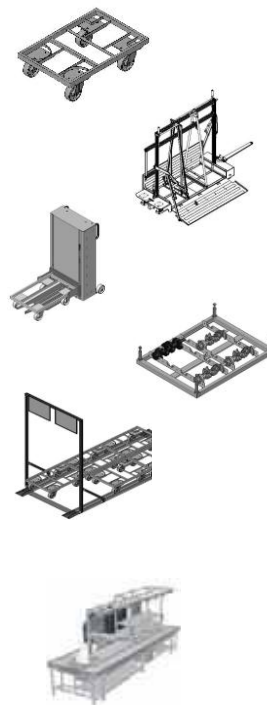
RÜCKINFO / COUPON REQUEST FOR ADDITIONAL INFORMATION

Firma / Company	
Ansprechpartner / Contact	
Abteilung / Division	
Straße / Street	
PLZ & Ort Zip code and city	
Telefon / Phone	
Fax / Fax	
E-Mail / E-mail	

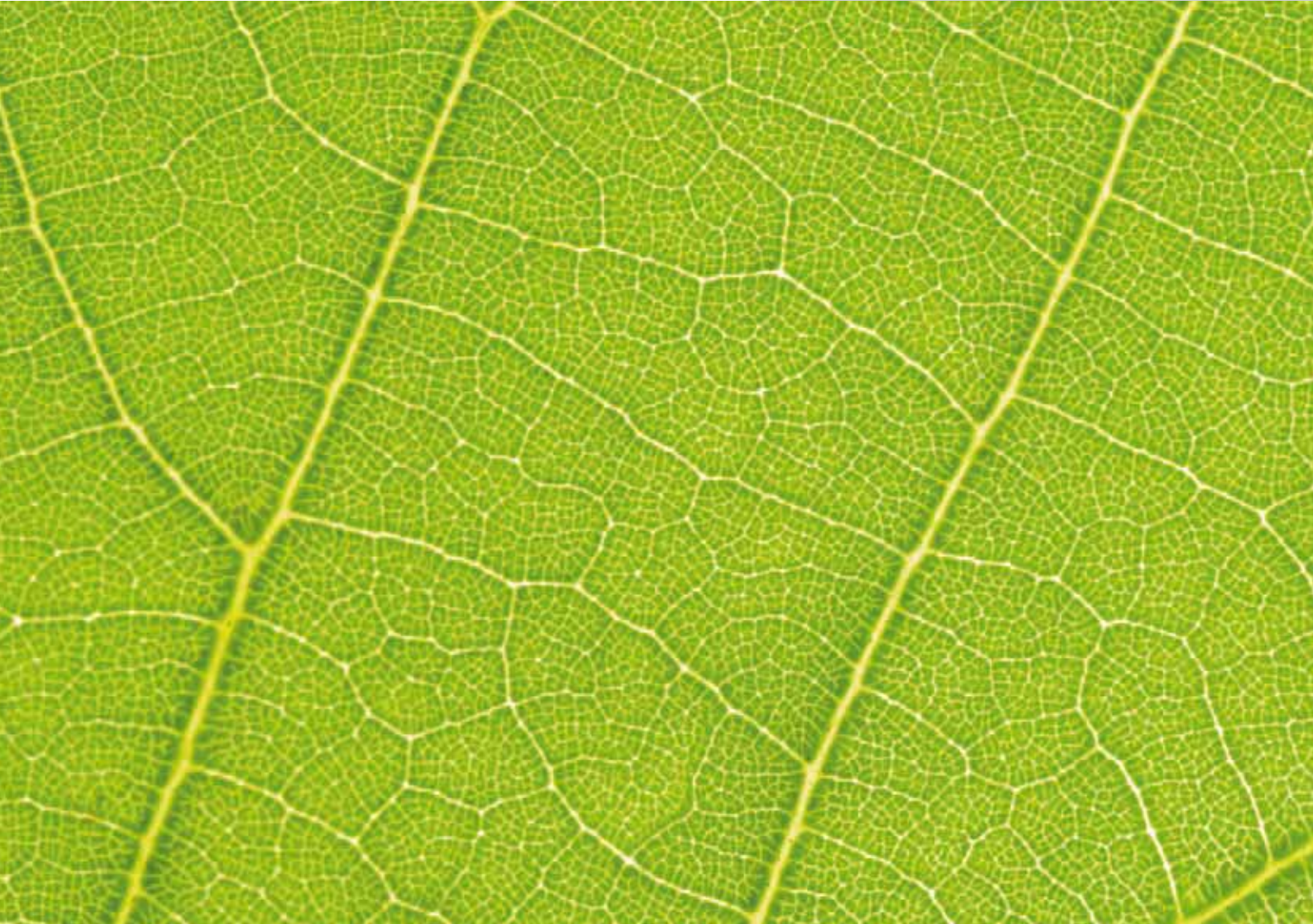
Bitte kreuzen Sie die entsprechenden Felder an, von denen Sie weitere ausführliche Informationsmaterialien erhalten möchten.

Should you request additional information on our products, please mark the appropriate box with an X and return form to us. Thank you.

Bodenroller / Trolleys	
Transportlogistik Transportlogistic / Milkrun	
Hubgeräte / Lifters	
Werkstückträger-System / Workpiece carrier systems	
Supermarkt / Bahnhöfe Supermarket / Stations	
Komplette Systeme Complete Systems	
Weitere Produkte / Additional Products	



Antwort an / Response by: Fax +49 (0) 7181 98556-42



Reg.-Nr.: Q1 0299012



BLOKSMA

BLOKSMA ENGINEERING GmbH
Daimlerstraße 7-9
73660 Urbach
Deutschland

Tel. +49 (0) 7181 98556-0
Fax +49 (0) 7181 98556-42

E-Mail: mail@bloksma.de
www.bloksma.de