

Systems diversity for warehouses, factories and workshops

GENERAL CATALOGUE

Material on-line units / live storage

Reducing costs by optimizing work patterns is the aim in all sectors of industry. SSI SCHAEFER offers a whole set of optimised systems for the supply of small and miniature items at the assembling place and/or production line.

The system, which operates on the First-in-First-out principle (FiFo) can be fitted with dividing shelves, rails or roller tracks as required and guarantees uninterrupted assembly.

SSI SCHAEFER's-Live Storage technology ensures that the ideal "Flow principle" can be found for each load carrier. Cases of "Low loads", "Medium loads" and "Heavy loads" can be solved with SSI SCHAEFER systems and solutions.

Due to the variety of plastic and steel containers from SSI SCHAEFER, demands to space saving and provision of materials can be met.





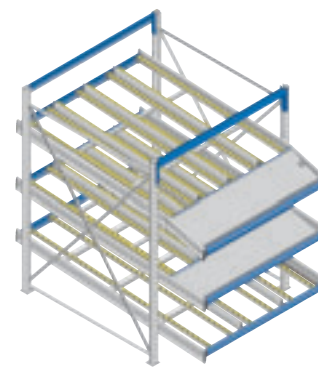
**R 7000 on-line shelving
with shelves**

Page **G2**



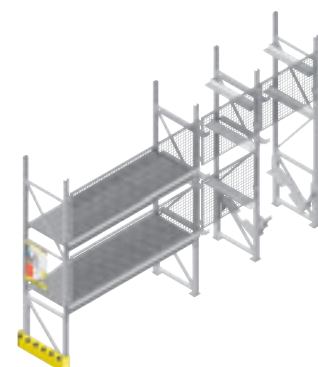
**R 7000 on-line shelving
with glide rails**

Page **G6**



Live storage shelving KDR

Page **G10**



**On-line racking BR 400
for heavy load containers**

Page **G22**

SILVER

Horizontal beams
Shelves
Side rails

2.5t

GALVANISED

Frames
Brackets
Adapters

- ▶ **Quick and easy assembly**
- ▶ **Sturdy and stable**
- ▶ **Racking frame pre-assembled**
- ▶ **No limitation to the length of shelving rows**
- ▶ **Starter and extension design**
- ▶ **Tilted acceleration sections**
enables the containers to slide on their own to the picking side, better gripping
- ▶ **All shelves are compatible**
for the optimisation of working procedures
- ▶ **Height adjustable**
shelving can be adjusted in intervals of 53 mm
- ▶ **Side rails**
prevent containers from sliding off
- ▶ **Single parts supply**
directly at the assembly point
- ▶ **First-in-First-out principle (FiFo)**
can be supplied with either shelves or glide rails
- ▶ **Cost reducing**

R 7000 on-line shelving with shelves

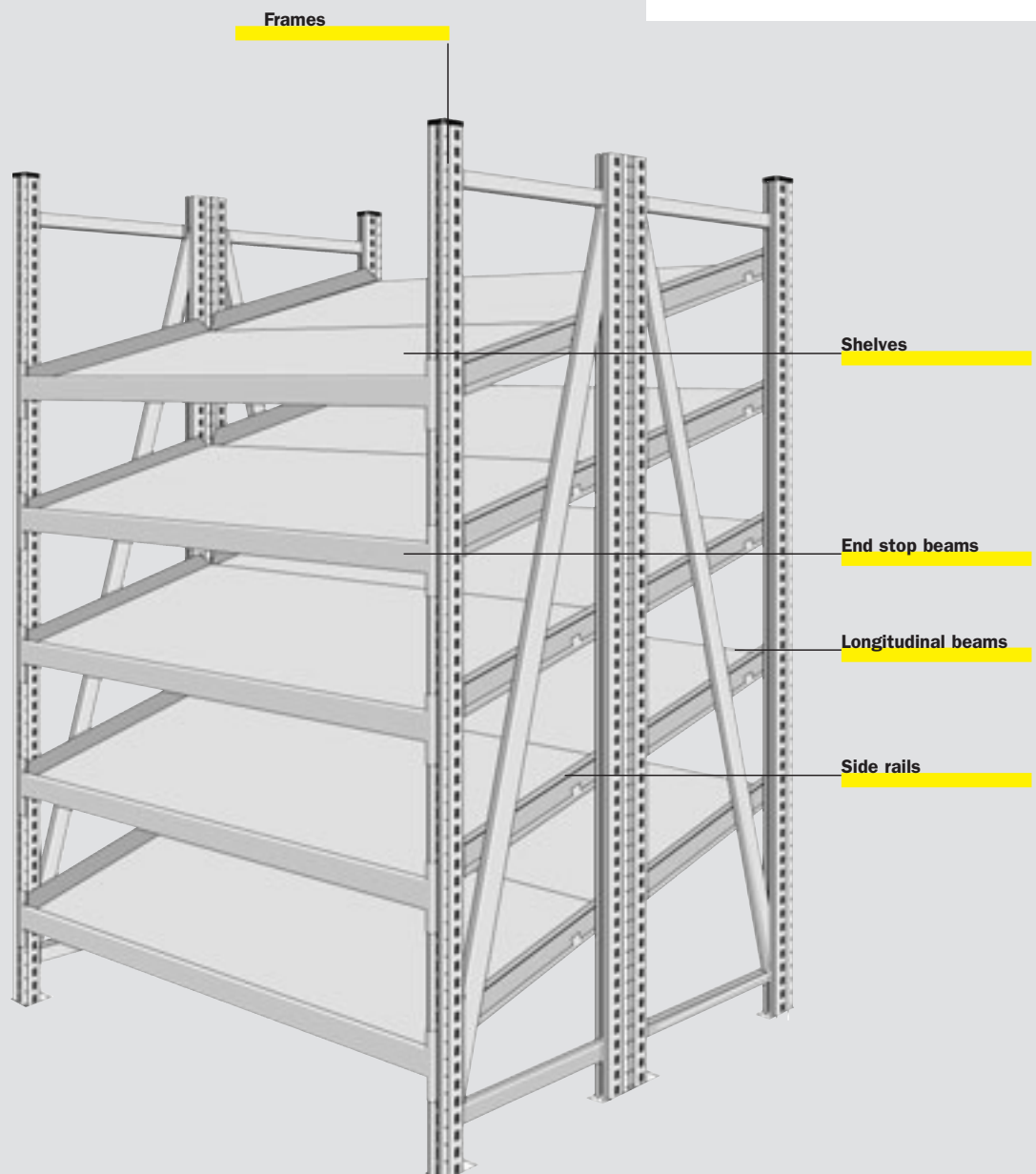
On-line shelving can accommodate any size and type of containers securely and therefore extremely versatile.

The high load bearing capacity of 2,5 t per bay, the flexibility and combination of base bay and extension bay design and the cost effective construction make the on-line shelving system one of the most popular in the SSI SCHAEFER range.

Free standing dividers can be accommodated at 41 mm intervals (not for bay width 870 mm).

Pre-assembled frames and system parts are joined bolt-free, which makes the system quick and easy to assemble.

End stop beams secure the stored goods on tilted shelves. The side rails provide smooth guidance for goods.



Single sided on-line unit “G” and “S”



On-line unit “G” with 5 flat storage levels (starter bay)

2 pre-assembled frames, 10 longitudinal beams, 5 shelves, 10 side rails, 1 load sign.

Item	Shelf depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
BR-740995-GF-G-5	400	995	200	78080
BR-741283-GF-G-5	400	1283	150	78400
BR-750995-GF-G-5	500	995	200	78160
BR-751283-GF-G-5	500	1283	150	78480
BR-760870-GF-G-5	600	870	150	78000
BR-760995-GF-G-5	600	995	200	78240
BR-761283-GF-G-5	600	1283	250	78560
BR-780995-GF-G-5	800	995	200	78320
BR-781283-GF-G-5	800	1283	250	78640

Extension bays

1 pre-assembled frame, 10 longitudinal beams, 5 shelves, 10 side rails.

Item	Shelf depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
BR-740995-AF-G-5	400	995	200	78090
BR-741283-AF-G-5	400	1283	150	78410
BR-750995-AF-G-5	500	995	200	78170
BR-751283-AF-G-5	500	1283	150	78490
BR-760870-AF-G-5	600	870	150	78010
BR-760995-AF-G-5	600	995	200	78250
BR-761283-AF-G-5	600	1283	250	78570
BR-780995-AF-G-5	800	995	200	78330
BR-781283-AF-G-5	800	1283	250	78650

Additional shelves

2 longitudinal beams, 1 shelf, 2 side rails.

Item	Shelf depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
BR-740995-ZF-G	400	995	200	78840
BR-741283-ZF-G	400	1283	150	79000
BR-750995-ZF-G	500	995	200	78880
BR-751283-ZF-G	500	1283	150	79040
BR-760870-ZF-G	600	870	150	78800
BR-760995-ZF-G	600	995	200	78920
BR-761283-ZF-G	600	1283	250	79080
BR-780995-ZF-G	800	995	200	78960
BR-781283-ZF-G	800	1283	250	79120



On-line unit “S” with 5 tilted storage levels (starter bay)

2 pre-assembled frames, 5 longitudinal beams and 5 end stop beams, 5 shelves, 10 side rails, 1 load sign.

Item	Shelf depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
BR-740995-GF-S-5	400	995	200	78100
BR-741283-GF-S-5	400	1283	150	78420
BR-750995-GF-S-5	500	995	200	78180
BR-751283-GF-S-5	500	1283	150	78500
BR-760870-GF-S-5	600	870	150	78020
BR-760995-GF-S-5	600	995	200	78260
BR-761283-GF-S-5	600	1283	250	78580
BR-780995-GF-S-5	800	995	200	78340
BR-781283-GF-S-5	800	1283	250	78660

Extension bays

1 pre-assembled frame, 5 longitudinal beams and 5 end stop beams, 5 shelves, 10 side rails.

Item	Shelf depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
BR-740995-AF-S-5	400	995	200	78110
BR-741283-AF-S-5	400	1283	150	78430
BR-750995-AF-S-5	500	995	200	78190
BR-751283-AF-S-5	500	1283	150	78510
BR-760870-AF-S-5	600	870	150	78030
BR-760995-AF-S-5	600	995	200	78270
BR-761283-AF-S-5	600	1283	250	78590
BR-780995-AF-S-5	800	995	200	78350
BR-781283-AF-S-5	800	1283	250	78670

Additional shelves

1 longitudinal beam, 1 end stop beam, 1 shelf, 2 side rails.

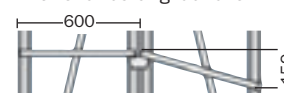
Item	Shelf depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
BR-740995-ZF-S	400	995	200	78850
BR-741283-ZF-S	400	1283	150	79010
BR-750995-ZF-S	500	995	200	78890
BR-751283-ZF-S	500	1283	150	79050
BR-760870-ZF-S	600	870	150	78810
BR-760995-ZF-S	600	995	200	78930
BR-761283-ZF-S	600	1283	250	79090
BR-780995-ZF-S	800	995	200	78970
BR-781283-ZF-S	800	1283	250	79130



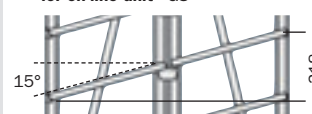
Double sided on-line unit “GS” and “SS”



- **All shelves are compatible**
for the optimisation of working procedures
- **Height adjustable**
the shelves are adjustable at 53 mm intervals
- **Side rails**
prevent containers from sliding off
- **Single parts supply**
directly at the assembly point
- **First-in-First-out principle**
can be supplied either with shelves or glide rails



Maximum shelf inclination for on-line unit “GS”



Maximum shelf inclination for on-line unit “SS”

On-line unit “GS” with 5 flat and 5 tilted storage levels (starter bay)

4 pre-assembled frames, 5 longitudinal beams and 5 end stop beams, 10 shelf brackets, 10 shelves, 20 side rails, 1 load sign.

Item	Shelf depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
BR-740995-GF-GS-5	800	995	200	78120
BR-741283-GF-GS-5	800	1283	150	78440
BR-750995-GF-GS-5	1000	995	200	78200
BR-751283-GF-GS-5	1000	1283	150	78520
BR-760870-GF-GS-5	1200	870	150	78040
BR-760995-GF-GS-5	1200	995	200	78280
BR-761283-GF-GS-5	1200	1283	250	78600
BR-780995-GF-GS-5	1600	995	200	78360
BR-781283-GF-GS-5	1600	1283	250	78680

Extension bays

2 pre-assembled frames, 5 longitudinal beams and 5 end stop beams, 10 shelf brackets, 10 shelves, 20 side rails.

Item	Shelf depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
BR-740995-AF-GS-5	800	995	200	78130
BR-741283-AF-GS-5	800	1283	150	78450
BR-750995-AF-GS-5	1000	995	200	78210
BR-751283-AF-GS-5	1000	1283	150	78530
BR-760870-AF-GS-5	1200	870	150	78050
BR-760995-AF-GS-5	1200	995	200	78290
BR-761283-AF-GS-5	1200	1283	250	78610
BR-780995-AF-GS-5	1600	995	200	78370
BR-781283-AF-GS-5	1600	1283	250	78690

Additional shelves

1 longitudinal beam and 1 end stop beam, 2 shelf brackets, 2 shelves, 4 side rails.

Item	Shelf depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
BR-740995-ZF-GS	800	995	200	78860
BR-741283-ZF-GS	800	1283	150	79020
BR-750995-ZF-GS	1000	995	200	78900
BR-751283-ZF-GS	1000	1283	150	79060
BR-760870-ZF-GS	1200	870	150	78820
BR-760995-ZF-GS	1200	995	200	78940
BR-761283-ZF-GS	1200	1283	250	79100
BR-780995-ZF-GS	1600	995	200	78980
BR-781283-ZF-GS	1600	1283	250	79140

On-line unit “SS” with 5 tilted storage levels (starter bay)

4 pre-assembled frames, 5 longitudinal beams and 5 end stop beams, 10 shelf brackets, 10 bracket adaptors, 10 shelves, 20 side rails, 1 load sign.

Item	Shelf depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
BR-740995-GF-SS-5	800	995	200	78140
BR-741283-GF-SS-5	800	1283	150	78460
BR-750995-GF-SS-5	1000	995	200	78220
BR-751283-GF-SS-5	1000	1283	150	78540
BR-760870-GF-SS-5	1200	870	150	78060
BR-760995-GF-SS-5	1200	995	200	78300
BR-761283-GF-SS-5	1200	1283	250	78620
BR-780995-GF-SS-5	1600	995	200	78380
BR-781283-GF-SS-5	1600	1283	250	78700

Extension bays

2 pre-assembled frames, 5 longitudinal beams and 5 end stop beams, 10 shelf brackets, 10 bracket adaptors, 10 shelves, 20 side rails.

Item	Shelf depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
BR-740995-AF-SS-5	800	995	200	78150
BR-741283-AF-SS-5	800	1283	150	78470
BR-750995-AF-SS-5	1000	995	200	78230
BR-751283-AF-SS-5	1000	1283	150	78550
BR-760870-AF-SS-5	1200	870	150	78070
BR-760995-AF-SS-5	1200	995	200	78310
BR-761283-AF-SS-5	1200	1283	250	78630
BR-780995-AF-SS-5	1600	995	200	78390
BR-781283-AF-SS-5	1600	1283	250	78710

Additional shelves

1 longitudinal beam and 1 end stop beam, 2 shelf brackets, 2 bracket adaptors, 2 shelves, 4 side rails.

Item	Shelf depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
BR-740995-ZF-SS	800	995	200	78870
BR-741283-ZF-SS	800	1283	150	79030
BR-750995-ZF-SS	1000	995	200	78910
BR-751283-ZF-SS	1000	1283	150	79070
BR-760870-ZF-SS	1200	870	150	78830
BR-760995-ZF-SS	1200	995	200	78950
BR-761283-ZF-SS	1200	1283	250	79110
BR-780995-ZF-SS	1600	995	200	78990
BR-781283-ZF-SS	1600	1283	250	79150

Single components



Undercarriage

Page **G9**

Single components for on-line shelving "G, S, GS, SS"

Item	Shelf depth (mm)	Height/length (mm)	Load (kg/bay)	Order no.
Frames				
RRL 7402 V	400	2170	2000	39950
RRL 7502 V	500	2170	2000	76610
RRL 7602 V	600	2170	2000	39200
RRL 7802 V	800	2170	2000	38900
Longitudinal beams				
LTR 7087	600	870		39240
LTR 7099	400 - 800	995		39250
LTR 7128	400 - 800	1283		39260
End stop beams				
ATR 7087	600	870		39210
ATR 74099	400	995		39980
ATR 7099	500 - 800	995		39220
ATR 74128	400	1283		39990
ATR 7128	500 - 800	1283		39230
Shelves				
ZB 4616 L	600	870	150	27451
ZB 4423 L	400	995	200	27020
ZB 4523 L	500	995	200	27040
ZB 4623 L	600	995	200	27080
ZB 4823 L	800	995	200	27170
ZB 9415 L	400	1283	150	38100
ZB 9515 L	500	1283	150	38110
ZB 9625 L	600	1283	250	38140
ZB 9825 L	800	1283	250	38280
Side rails				
SF 7404	400	40		39970
SF 7504	500	40		76620
SF 7604	600	40		39270
SF 7804	800	40		38920
Accessories				
ZBK 7000	Shelf brackets for models GS & SS			39280
KA 7000	Bracket adapter for model SS			39290
BRTS 7000	Load sign according to BGR 234* required			39070
* (formerly ZH 1/428)				



R 7000 on-line shelving with glide rails

On-line shelving with glide rails is especially suitable for C-KLT containers. Secure gliding of the C-KLT container on glide rails which engage in grooves in the base of the container.

The high load bearing capacity of 2 t per bay, the flexibility and combination of base bay and extension bay design and the cost effective construction make the on-line shelving system one of the most popular in the SSI SCHAEFER range. Due to their simple design these shelves

can be disassembled and be adapted at any time to changing space conditions both in depth and in width.

Pre-assembled frames and system parts are joined bolt-free, which makes the system quick and easy to assemble.

End stop beams secure the stored goods on the tilted lanes.

For the addition of light containers, there is a model with roller tracks available on request.





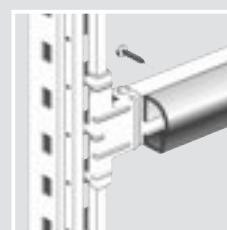
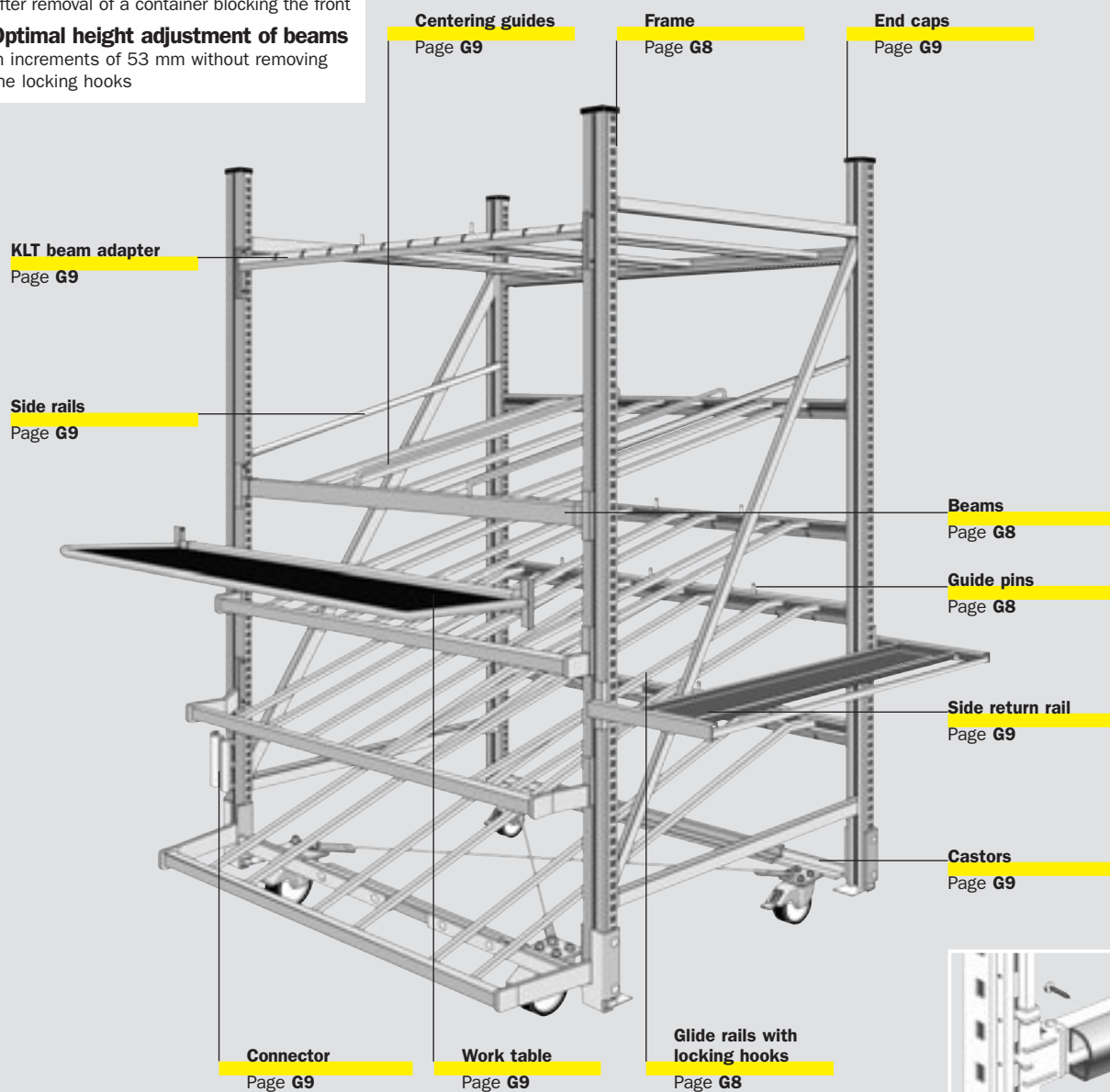
Frames
Horizontal beams
Bracket adapter
Glide rails

In addition

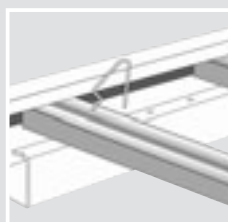
to the advantages of the on-line shelving R 7000 with shelves (compare page G2)

- ▶ **Independent guidance**
of containers with grooves in the base (KLT)
- ▶ **The glide rails begin at the replenishment side**
- ▶ **Acceleration section due to tilted rails**
the storage containers automatically glide to the picking face
- ▶ **Movement of slowed down storage containers**
after removal of a container blocking the front
- ▶ **Optimal height adjustment of beams**
in increments of 53 mm without removing the locking hooks

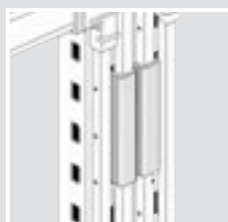
System design with glide rails



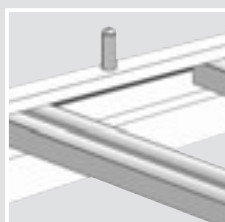
KLT beam adapter



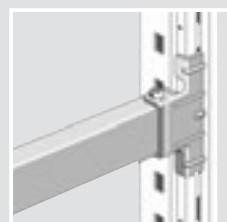
Glide rail with locking hooks



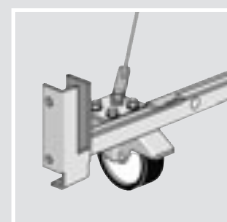
Connector



Guide pins



Beam



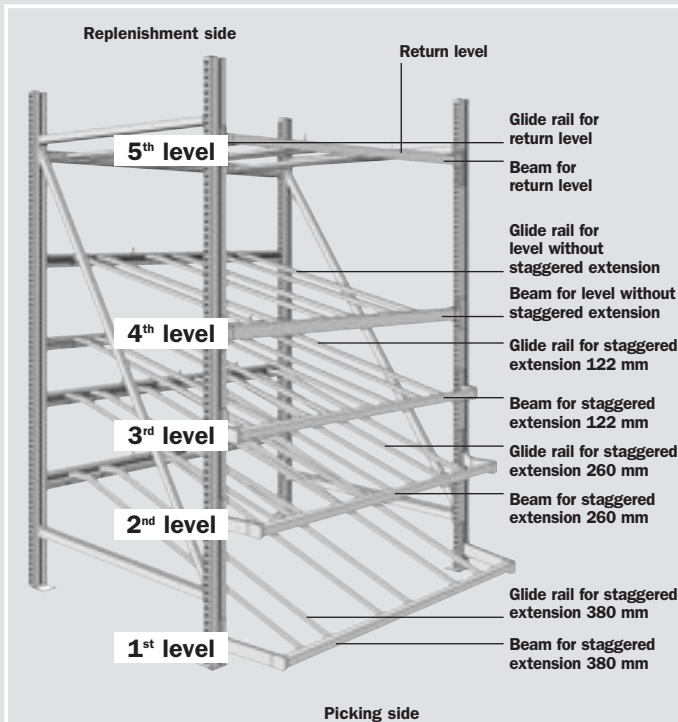
Undercarriage



Frames
Horizontal
beams

Glide rails
Adapters

Shelf unit with glide rails



Shelf unit with 5 storage levels

Item		Order no.
BRV 5/3-4G	Complete starter bay	94900
BRV 5/3-4A	Complete extension bay	94910

Complete shelving unit with glide rails

with 4 tilted picking beds and 1 horizontal return bed (top), clear bay width 1283 mm

Dimensions

starter bay: W 1403 x H 2170 mm (2 racking frames)
extension bay: W 1343 x H 2170 mm (1 racking frame)
depth: 1200 mm (reconfigurable to 1000, 900, 800 mm)
plus staggered extension:
in 1st level + 380 mm
in 2nd level + 260 mm
in 3rd level + 122 mm

Load capacity

2000 kg per shelving bay
30 kg per glide rail
250 kg per beam pair

Any length of shelving row can be formed

with 1 base bay and as many extension bays as needed



Different bay lengths for glide rail racking

on request

Single components

Item	Component	Unit per starter bay	Order no.
RRLV 71222	Shelving frame, depth 1200 mm	2	148000
TRV 71326T3	Beam for staggered extension 380 mm	1	148010
TRV 71326T2	Beam for staggered extension 260 mm	1	148020
TRV 71326T1	Beam for staggered extension 122 mm	1	148030
TRV 71326T0	Beam without staggered extension	7	148040
GLV 71610T3	Glide rail for staggered extension 380 mm	6	148050
GLV 71482T2	Glide rail for staggered extension 260 mm	8	148060
GLV 71335T1	Glide rail for staggered extension 122 mm	8	148070
GLV 71215	Glide rail without staggered extension	6	148080
GLV 71191R	Glide rail for return level	6	148090
BRE 71530	Guide pins	12	148100
BRTS 7000	Load sign	1	39070





Work tables
Undercarriage



Return rail

Accessories



Work table

The work table is mounted in the slots in the frame uprights and is ideally suited for pre-assembly work.

Item	Clear bay width (mm)	Order no.
BRT 71216 E	1283	148170



Side return rail

For the return of small containers. Can be used as an additional preparation level.

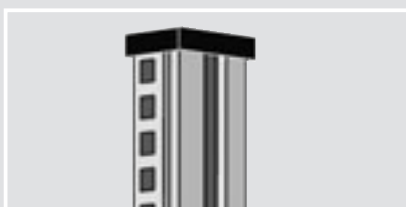
Item	Depth (mm)	Order no.
BR-R71216	1200	94920



Connector

Helps to align several bays arranged in a row.

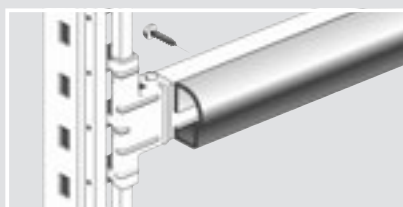
Item	Order no.
VT 7000	148190



End cap

Used as an end closure for the uprights. Made from high quality plastic.

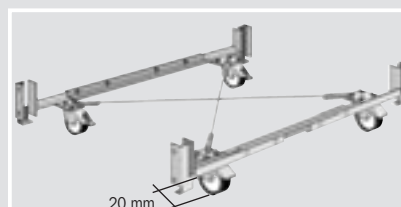
Item	Order no.
AK 7000	29350



KLT beam adapter

Cross beam adapters facilitate the location of KLT containers in the upper level.

Item	Order no.
TAV 71206	148110



Castors for glide rail racking

For trouble-free relocation of base units. Fitted with four swivel castors, of which two can be locked. Can be fitted to 1037 and 865 mm clear bay widths and to bay depths of 1000, 900 und 800 mm. Load per bay with undercarriage: 500 kg.

Item	Height (mm)	Order no.
FWV 71213	20	148140

Side rail

For safe guidance of containers in the frame area. Required for containers with a smooth base without guide grooves.

Item	Order no.
SF 71200	148420
SF 71200R	148430

Brake rubber

For insertion in the guide rails at the picking side to act as a brake for the containers.

Item	Order no.
BG 70100	148130

Castors for modular shelving systems

For trouble-free relocation of base units. Fitted with four swivel castors, of which two can be locked. To be bolted with an adapter plate directly under the uprights. Supplied with one beam and 4 frame connectors for reinforcement as well as one beam. Also included are 2 sliding clips made from plastic. Load per bay with undercarriage: 500 kg.

Item	Bay length (mm)	Height (mm)	Order no.
FW 70870	870	155	79200
FW 70995	995	155	79210
FW 701283	1283	155	79220

Centering guides

For secure guidance of containers in the centre area. Required for containers with smooth base without guide grooves.

Item		Order no.
MF 71200T3	For staggered extension 122 mm	148370
MF 71200T2	For staggered extension 260 mm	148380
MF 71200T1	For staggered extension 380 mm	148390
MF 71200	For levels without staggered extension	148400
MF 71200R	For return levels	148410

Label holders and labels

Item	Finish	Length (mm)	Height (mm)	Unit	Order no.
EH 4085	Label holder	85	26	50	27800
EH 4135	Label holder	135	26	50	27810
EH 4490	Label holder	490	26	50	27820
EHE 4085	Labels	85	24	100	28050
EHE 4135	Labels	135	24	100	28060
EHE 4490	Labels	490	24	100	28070

KDR – the versatile live storage shelving system

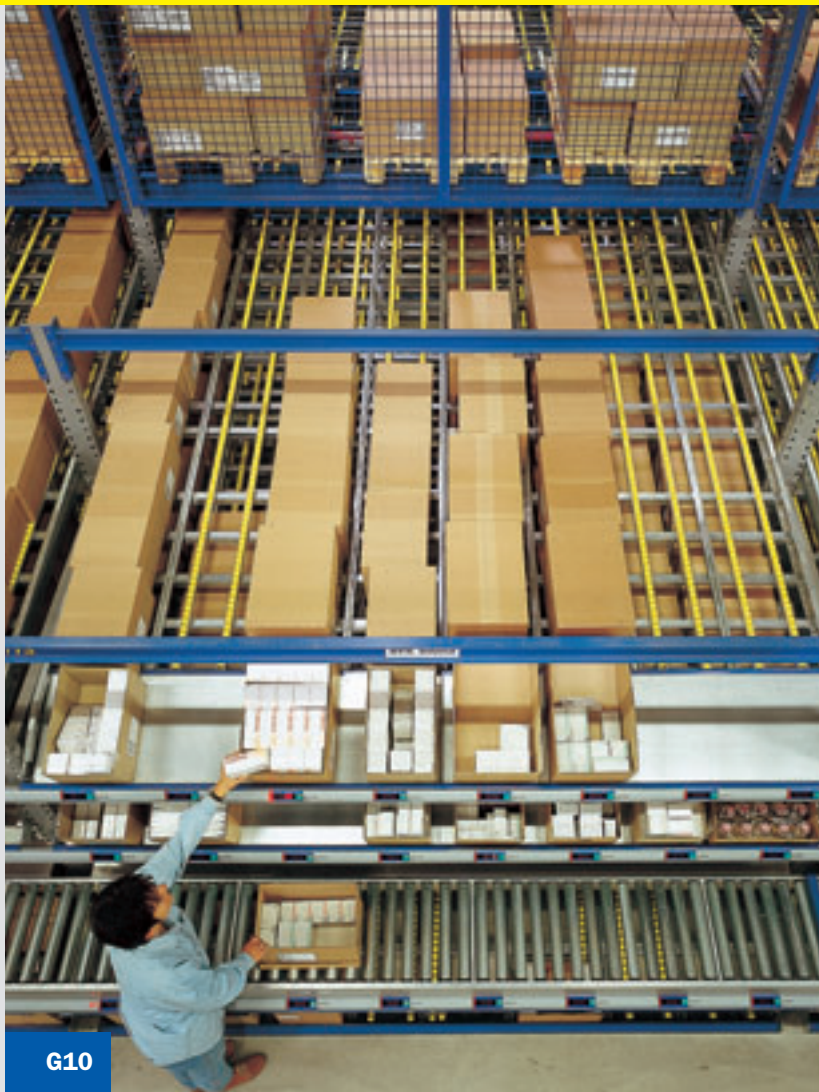
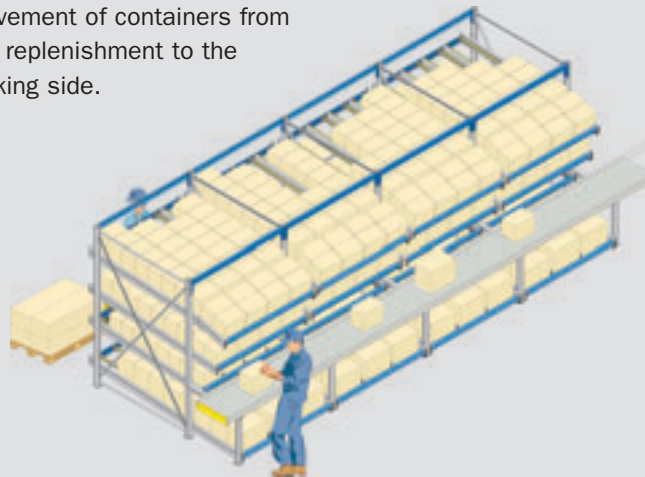
Secure and stable upright frame combined with reinforcing cross beams form a “racking frame” to house entire flow bed units. The flow beds can be modified quickly and without screws using adjustable hooks at a module pitch of 6,25 mm (upright types P63/P65) or 12,5 mm (upright types P73/P93) in height and inclination and in the horizontal position at a pitch of 25 mm.

Every ergonomic requirement can be met by designing the flow bed in a stepped shape, with discharge plates or an angled design.

Transverse-motion conveyors can be connected in a cost-effective way thanks to supports positioned on the uprights.

Robust roller tracks in different designs guarantee the friction-free movement of containers from the replenishment to the picking side.

By using different dividing rail systems, guides (channels) can be created to precisely match the containers.



KDR system design

GALVANISED

GENTIAN BLUE



Frames
Glide rails
Brackets
Adapters



RAL 5010

Horizontal
beams

- **High load capacity**
and high stability due to sturdy uprights of 60, 75 and 90 mm thickness
- **Ideal height and inclination adjustment**
of the flow bed to fit the item being handled with a slot pitch of only e.g. 6,25 mm as well as the rollers and dividing rails in increments of only 5 mm
- **Bolt-free anti-lifting device**
- **Flexible and modular bolt-free system**
facilitates easy adjustment to your individual requirements
- **Roller tracks with ideal running properties**
can be supplied with 5 kg and 12 kg load bearing capacity
- **Compatible**
with other SSI SCHAEFER racking systems
- **Simple connection**
to conveying installations
- **Extensive accessory range**

Starter bay and extension bay designs

The stationary version is available in starter and extension bay designs.

Anti lifting
devices

Reinforcing
cross beams

Dividing rails

Roller tracks

Side profiles

Frame

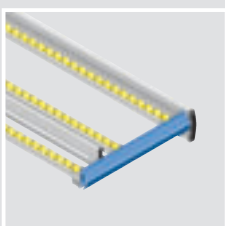
Flow bed
Tilted

Flow beds
Flat/tilted

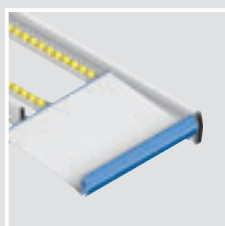
Flow bed
Flat type

Conveyor supports

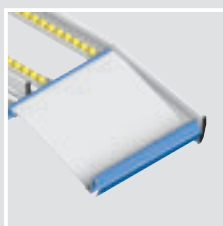
Label holders



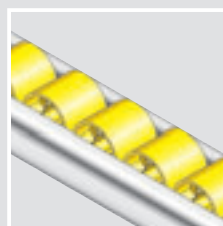
Flow bed
Flat



Flow bed
Flat/tilted



Flow bed
Tilted



Roller track



Anti lifting devices

Live Storage Shelving KDR/KLT – the system for KLT containers



More information on KDR technology

on request



GENTIAN BLUE

GALVANISED



Horizontal
beams
Cross beams
(front and back)



Frame
Discharge
plate
Side profiles

- **High load capacity**
and high stability due to sturdy uprights
of 60, 75 and 90 mm thickness
- **Ideal height and inclination adjustment**
of the flow bed to fit the item being handled
with a slot pitch of only e.g. 6,25 mm as well
as the rollers and dividing rails in increments
of only 5 mm
- **Bolt-free anti-lifting device**
- **Flexible and modular bolt-free system**
facilitates easy adjustment to your
individual requirements
- **Roller tracks with ideal
running properties**
can be supplied with 5 kg and 12 kg load
bearing capacity
- **Compatible**
with other SSI SCHAEFER racking systems
- **Simple connection**
to conveying installations
- **Extensive accessory range**

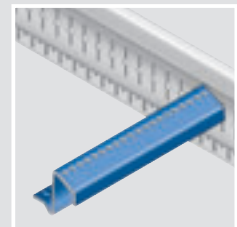
Starter bay design

The mobile units are installed in the starter bay design.

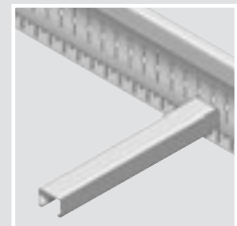
For containers with a "honeycomb base" (C-KLTs with grooves) and for containers with a pronounced stacking rim, there is a special KLT version specifically designed to meet these specific requirements.



Cross beams front



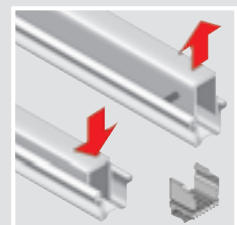
Cross beam connection, tilted



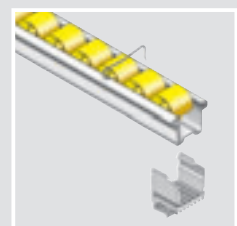
Internal cross beam connection



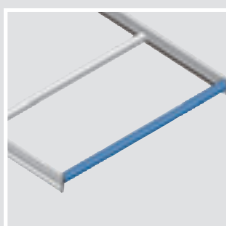
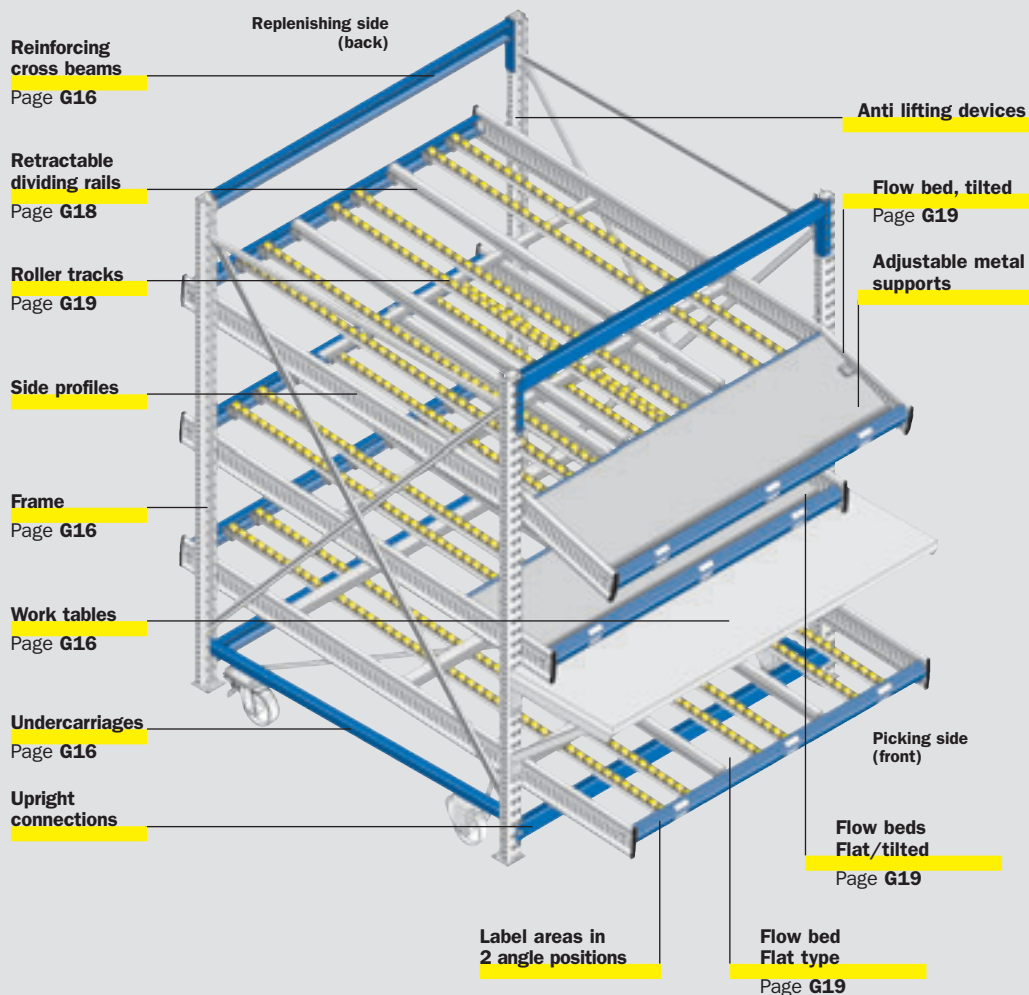
KLT cross beam connection back



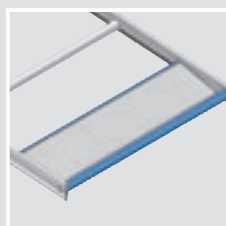
Retractable dividing rail with docking clip



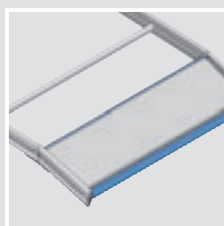
Roller track with brake clip and brake strap



Flow bed Flat



Flow bed Flat/tilted



Flow bed Tilted



Anti lifting device

Cap

Live Storage Shelving KDR/KLT – in conductive design (ESD) to protect high-value, electronic components



Protection against electrostatic charges

Special demands are placed on shelving technology to protect against electrostatic charges. The essential legal basis here is EN 61340-5-1:2001 which states that all individual measures when handling these sensitive components should work together in harmony.

This applies in particular to packaging of electronic components, transport conditions, shelving technology, conductive flooring and the earth potential, and not least also the protective clothing of staff working in ESD areas.



i More information on KDR technology
in conductive design (ESD)

on request



Fixed castor, conductive



Dividing rails and conductive roller tracks



Swivel castor with stop

GENTIAN BLUE

GALVANISED

Horizontal
beamsFrames
Cross beam connections
Undercarriage beams
Discharge plates

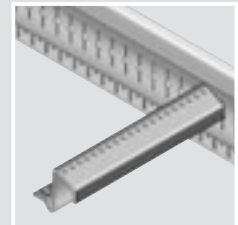
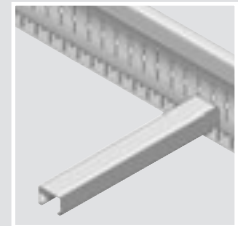
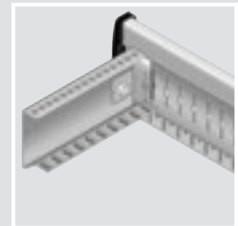
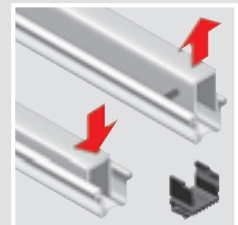
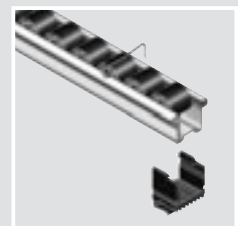
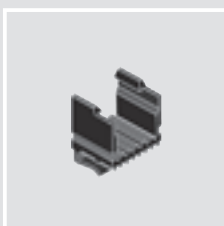
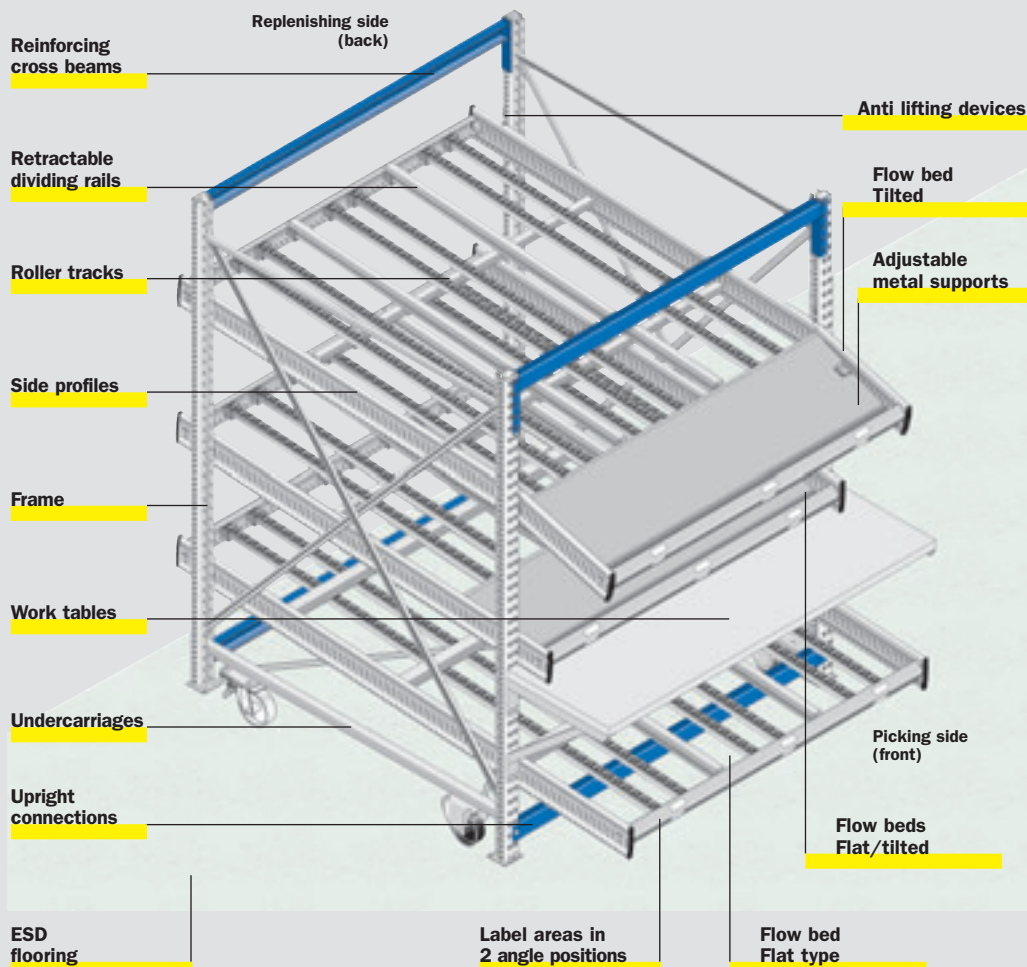
- ▶ **High load bearing capacity**
and high stability due to sturdy uprights of 60, 75 and 90 mm
- ▶ **Ideal height and inclination adjustment**
of the flow bed to fit the item being handled with a slot pitch of only e.g. 6,25 mm as well as the rollers and dividing rails in increments of only 5 mm
- ▶ **Bolt-free anti-lifting device**
- ▶ **Flexible and modular bolt-free system**
for simply adjustment for your individual requirements
- ▶ **Roller tracks with ideal running properties**
with 12 kg load bearing capacity
- ▶ **Highly conductive rollers**
black, with steel axles
- ▶ **Compatible**
with other SSI SCHAEFER shelving systems
- ▶ **Simple connection**
to conveying installations
- ▶ **Extensive accessory range**
- ▶ **Tested and certified quality**
by TÜV Rheinland



KDR/KLT system in ESD design – with undercarriage



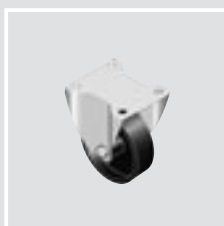
Cross beams front

Cross beam connection,
tiltedInternal cross beam
connectionKLT cross beam
connection backRetractable dividing rail
with docking clipRoller track with expanding
lock and docking clip

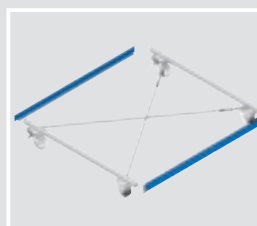
Docking clip, conductive



Roller track, conductive

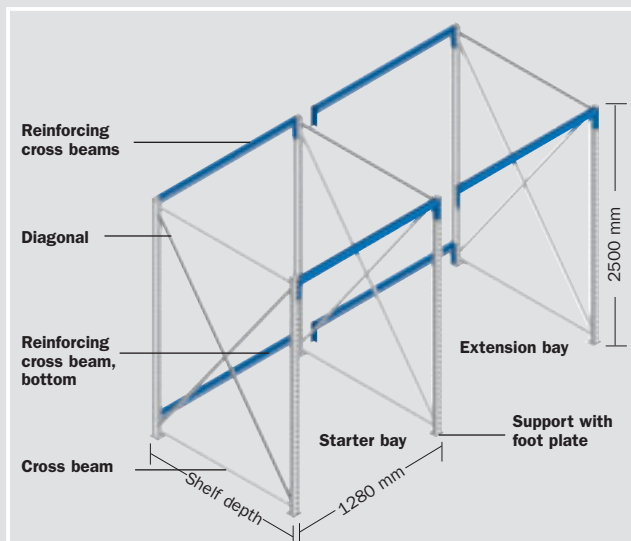


Fixed castor, conductive



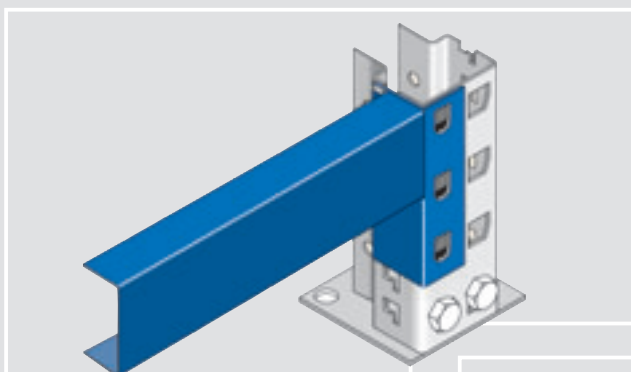
Undercarriage, conductive

System components



Starter bays and extension bays

Starter bays consist of 2 frames and 3 horizontal beams; extension bays consist of 1 frame and 3 horizontal beams.

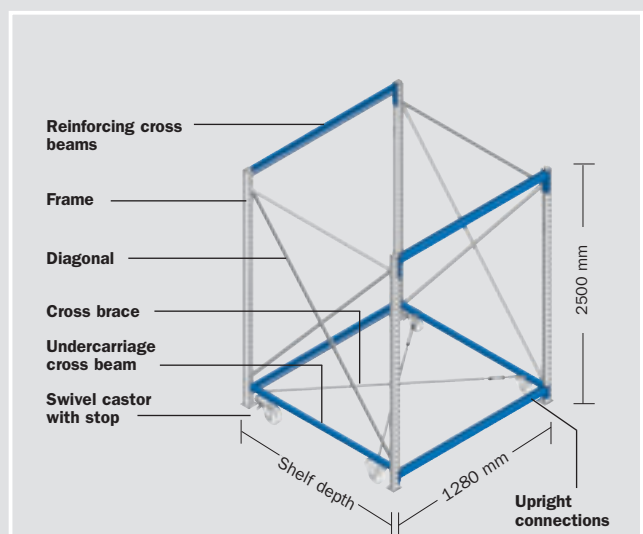
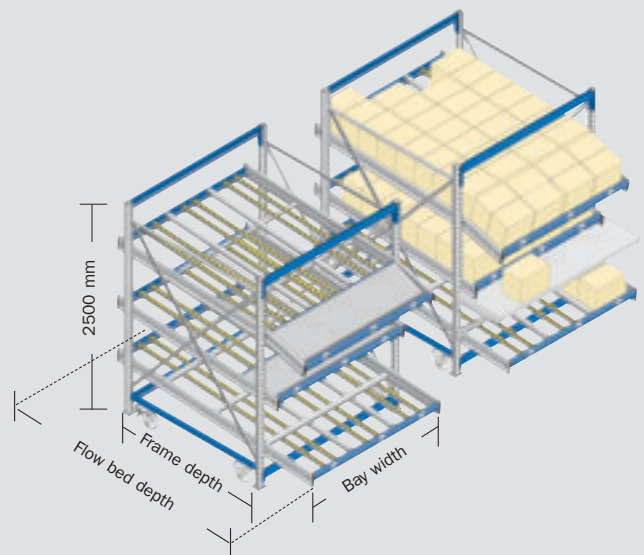


Reinforcing cross beams (U profile) for upright profile P 63, P 65 and P 73

Reinforcing cross beams and supports form a separate unit. This enables the load bearing rack structure to be separated from the storage levels. This enables one bed to be adjusted without emptying the complete rack before hand.

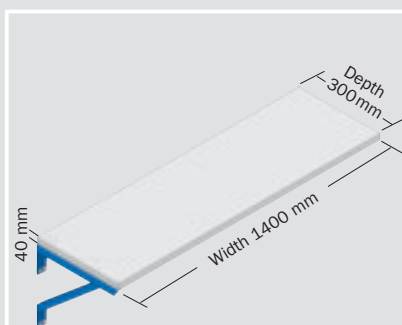
The cross beams serve only to give rigidity to the rack structure and are not designed to accommodate pallets. The assembly of additional reinforcing beams at the back is carried out in accordance with static requirements.

Surface painted: gentian blue, RAL 5010.



Starter bay with undercarriage

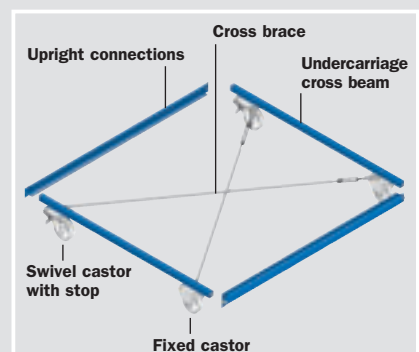
Consisting of 2 frames and 2 cross beams, 2 upright connectors, 2 undercarriage beams, 1 cross brace, 2 fixed castors and 2 swivel castors with stop. Load per bay with undercarriage: 1600 kg.



Work table

Suited for pre-assembly work or as shelf, 2 cantilever arm shelves and 1 multiplex board, untreated surface, 40 mm strong.

Surface cantilever arm painted finish: gentian blue, RAL 5010.



Undercarriage

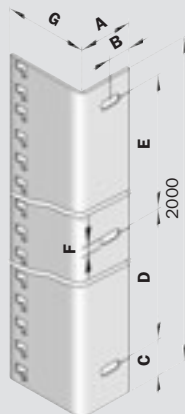
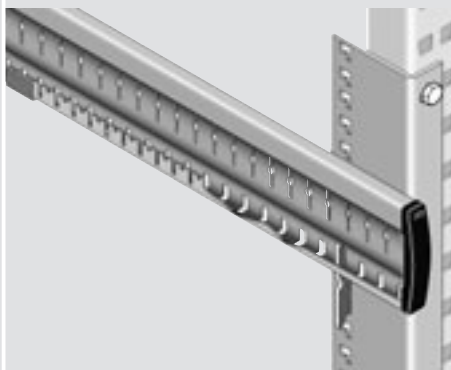
For trouble-free relocation of base units.

Consists of 2 upright connectors, 2 undercarriage beams, 1 cross beam connector, 2 fixed castors and 2 swivel castors with stop. Load bearing capacity per bay with undercarriage: max. 1600 kg.

Surface painted: gentian blue, RAL 5010.

- Can be combined with existing pallet racking
- Shorter routes
- Time savings
- Improved ergonomics and fast access
- Clear product range
- Automatic follow-on of goods
- First-in-First-out
- Separate replenishment and picking processes

KDR adapter solutions for pallet racking dividing rails



Support adapter left

Flow bed Flat/tilted

Flow bed Flat

Support adapter right

Overall depth of racking frame

Support adapter

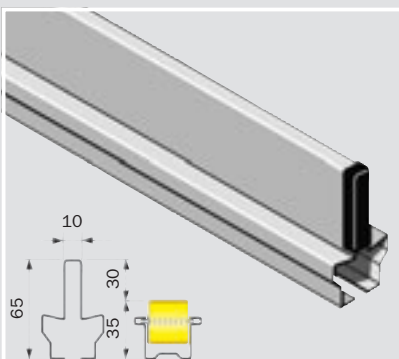
For fixing to the uprights on existing pallet racking. For simple and fast retrofitting with live storage shelving. The profiles of the support adapters are adjusted individually to the pallet racking uprights.

Item on request.

Please include the following dimensions and your existing shelving manufacturer/type in your enquiry:

Dimensions A (mm) B (mm) C (mm) D (mm) E (mm) F (mm) G (mm)

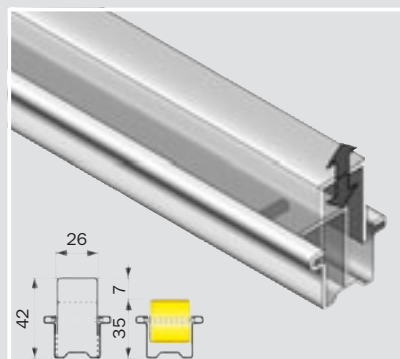
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Standard dividing rails

Made from steel, prevent two neighbouring storage units blocking one another. They can be adjusted in a pitch of 5,0 mm and have safety stops on both sides to prevent hand injuries.

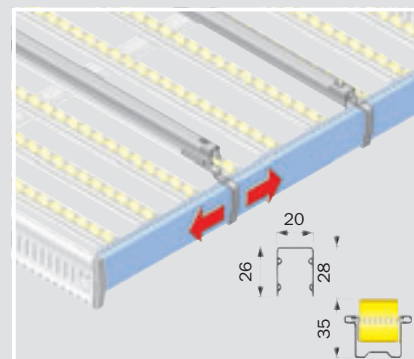
Surface: galvanised



Retractable dividing rails

For the universal use of KLT containers.

Surface: galvanised



Multi dividing rails

Multi dividing rails can be adjusted horizontally in a 10 mm pitch. Ideal in combination with a moving carpet for frequently changing stored goods.

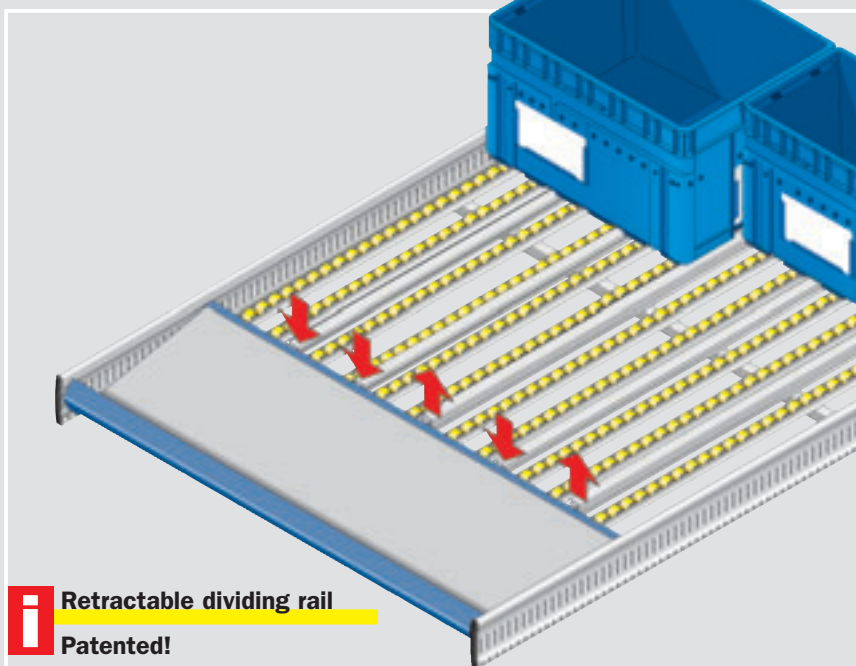
Surface: galvanised

i More information on KDR technology

on request

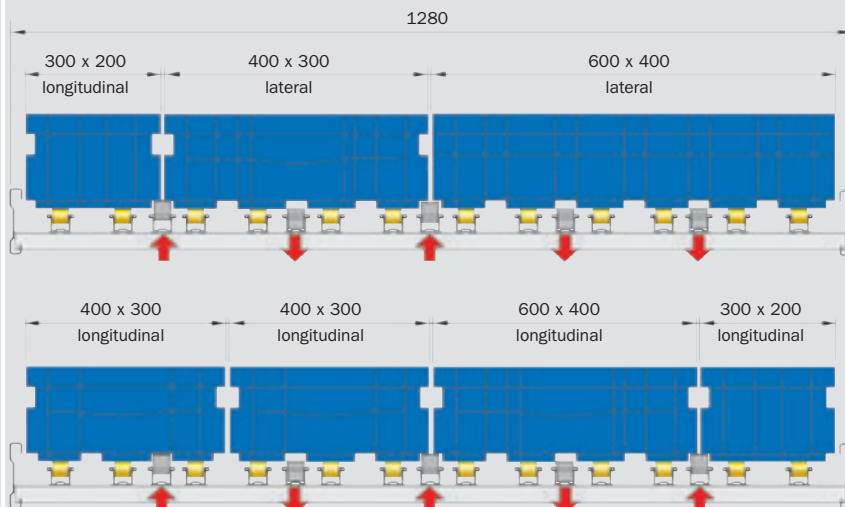
Horizontal
beamsFrames
Glide rails
Brackets
Adapters

KLT flow bed with retractable dividing rail



i Retractable dividing rail
Patented!

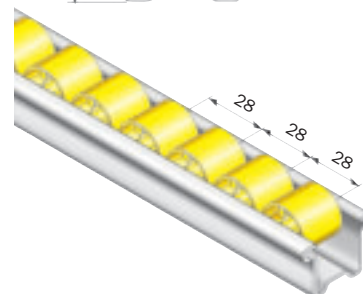
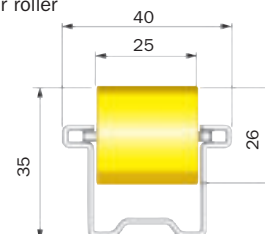
Example for a clear bay width of 1280 mm



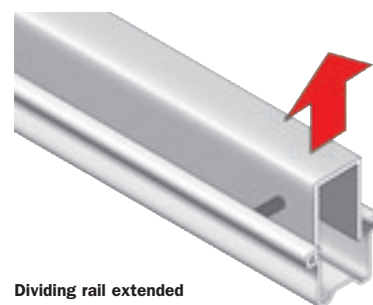
Containers of different dimensions can also be mixed on one level by retracting or extending the dividing rail.



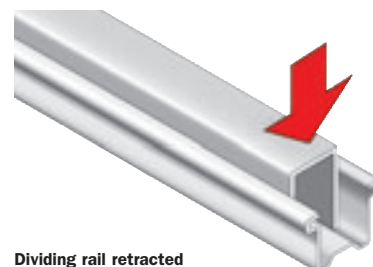
- **Channel widths that always fit**
for 200/400 mm system containers or 300/600 mm module widths by using dividing rails that can be retracted quickly and without tools. It is not necessary to retract the dividing rails and roller tracks
- **Shelf dimensions to fit**
all KLT container sizes
- **Lightweight assembly and adjustable thanks to the bolt-free system**
- **No conversion required**
can be used as conventional live storage shelving
- **System profiles to fit**
prevents the container base becoming hooked up
- **Incline and height adjustment**
in a pitch of 6,25 mm
- **No depth restrictions**
when setting the gripper curve
- **Flow bed with plug-in anti-lifting device**
- **Expanding lock for roller track**
- **Roller track choices**
also with steel axle, 12 kg load capacity per roller



► **Retractable dividing rail**



Dividing rail extended



Dividing rail retracted

YELLOW YELLOW BLACK ESD



Plastic axle Steel axle Steel axle

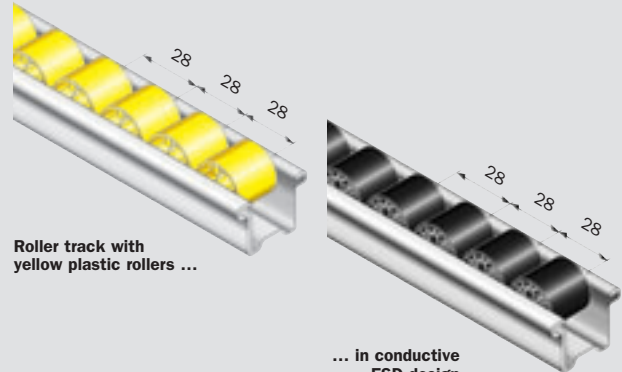
- **Reinforced rail profile**
with reinforced spreading resistor made from galvanised sheet steel
- **Stable and durable rollers**
made from high quality plastic, roller pitch 28 mm
- **Honeycombed reinforcement of the rollers**
for very good form stability and good running properties
- **High load bearing capacity**
5 kg per roller, for model with steel axle 12 kg per roller
- **Can also be used in refrigerated areas up to -30° C**
- **Long service life**

Roller tracks

The roller load bearing capacity for the model with plastic axle is 5 kg, and 12 kg for the steel axle version.

We would be pleased to quote for lengths over 50 metres.

Item	Design/ Rollers with	Order no.
K-R 28 K	Plastic axle	K-R28K — —
K-R 28 S	Steel axle	— K-R28S —
K-R 28 S-ESD	Steel axle	— — K-R28SESD



Roller track with yellow plastic rollers ...

... in conductive ESD design

Item	Length (mm)	Order no.
K EH 0880	780	442518
K EH 1080	980	442538
K EH 1280	1180	442558
K EH 1350	1250	442565
K EH 1800	1700	442610
K EH 2200	2100	442650
K EH 2700	2600	442700

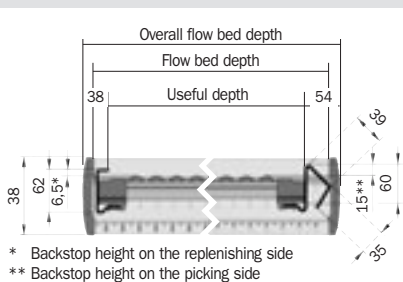
Label holder

Self-adhesive plastic label holder, total height 33 mm (for label height 30 mm). Without push-in labels.

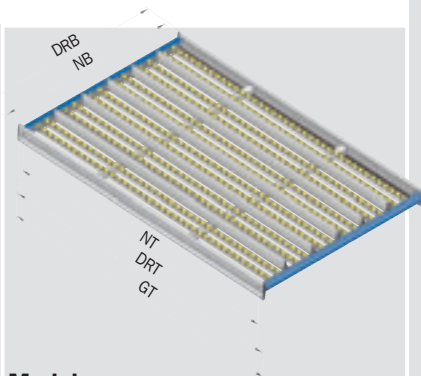
Other models available on request.



Flow bed with roller tracks and dividing rails — Example configurations

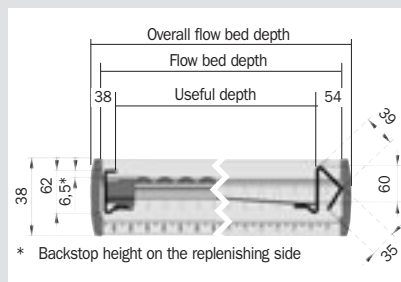


* Backstop height on the replenishing side
** Backstop height on the picking side

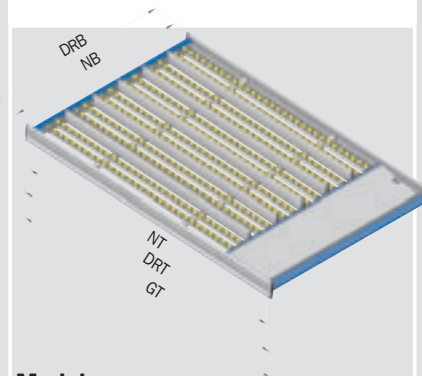


**Model
Flat K-D**

Fitted with 12 roller tracks and 5 retractable dividing rails, for example, incl. adjustable hooks.

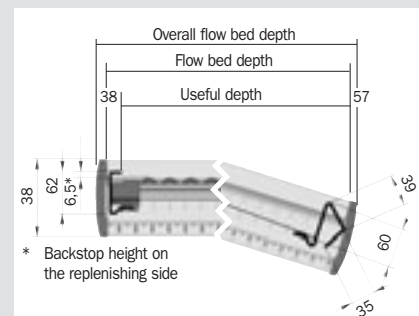


* Backstop height on the replenishing side

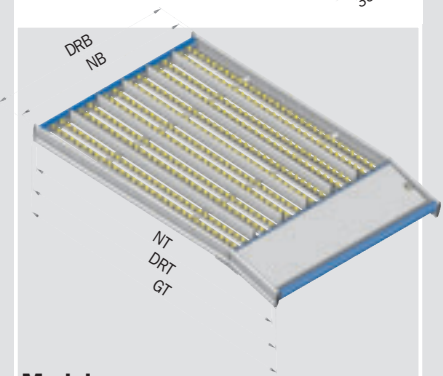


**Model
Flat/tilted K-DGK**

Fitted with 12 roller tracks and 5 retractable dividing rails, for example, incl. adjustable hooks.



* Backstop height on the replenishing side



**Model
Tilted K-DK**

Fitted with 12 roller tracks and 5 retractable dividing rails, for example, incl. adjustable hooks.

Different applications for KDR – example applications

The advantages of live storage shelving systems:

- ▶ Rapid order picking, clear and compact lay-out, increased automation and reduction in the requirement for access aisles by up to 85%.
- ▶ Reduction in the requirement for access aisles increases storage capacity.
- ▶ First-in-First-out (FiFo) means no outdated products left on the racks. The parallel roller tracks ensure that the stored items always roll automatically to the picking face.
- ▶ Compact storage and high visibility reduce the margin for error in order picking.
- ▶ Clear division of replenishment and picking functions prevents any interruption during order picking.
- ▶ Short, ergonomically designed access aisles.
- ▶ Problem-free connection to conveyor installations.
- ▶ Easy handling with roller tracks.



Illustration bottom: Pick-by-light reduces the error rate and increases the picking speed in the electronics industry



Illustration top: Live storage shelving with integrated material handling and pick-by-light in the publishing industry
 Illustration bottom: Live storage shelving with integrated material handling and pick-by-light in the pharmaceutical industry



On-line racking BR 400 for heavy load containers

Reducing costs by optimizing work patterns is the aim in all sectors of industry. For companies with assembly line or group production in particular, a smooth-running materials handling and storage is absolutely essential.

The on-line racking designed according to the First-in-First-out principle (FiFo) ensure a problem-free workflow at the assembly site.

Containers stored at an angle in different sizes permit ergonomic working.

The basis for this is the PR 350 racking system. Two supports are welded to solid foot plates and connected using horizontal and diagonal braces to form a high load frame. In combination with longitudinal beams, this creates the basis for racking installations with a high load capacity.

The precision profiling and perforation of the racking supports in a height pitch of 50:50 mm ensures the problem-free interaction of all system elements.

- ▶ **Frame with support reinforcement**
for high loads up to 10.000 kg, made from cold rolled, high strength steel
- ▶ **Frame profile**
U 80/50/4 with reinforcement
- ▶ **Welded frame**
- ▶ **Perforation**
in 50:50 mm pitch
- ▶ **Finish**
painted grey, RAL 7037
- ▶ **Solid and robust construction**
- ▶ **Support width 80 mm**
- ▶ **Simple assembly**
with few components
- ▶ **Material thickness at least 4 to 5 mm**
depending on the load bearing capacity of the racking
- ▶ **4 floor anchors**
with dowelled anchors for height stability

All requirements for modern storage systems can be realised using BR 400 on-line racking.



► **Guard**

should normally be used to reinforce the frame (height 750 mm, 175 kN impact protection). However, the suspension option of the horizontal beams must be observed. It may be possible to ignore this consultation with the relevant trade association or industry supervisory body



► **Galvanised mesh panel and flow bed**

► **Hot-rolled profiles with mesh panels**
for horizontal container storage

► **Specially developed inclined inserts**
for containers with high loads

► **Shelf made of sheet steel**
equipped with rows of slots front and back to accommodate dividers. Galvanised, height 40 mm, with 2 longitudinal reinforcements

► **Side beams with back stop**
can be adjusted in a 50 mm pitch

► **Can be retrofitted with KDR flow bed**
with support adapters (technical details from page G17)

System design BR 400

Side beams

Page G33

Frame

Page G30

Mesh back panels

Page G31

Mesh panels

Page G31

Load sign

Page G33

Inclined inserts

Page G30

Longitudinal beams

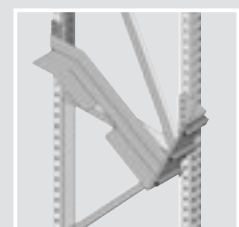
Page G30

Buffer

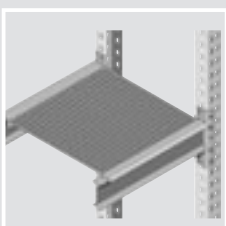
Page G33

Frame reinforcements

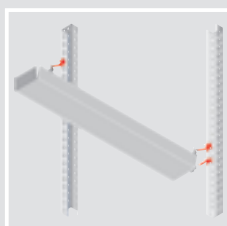
Page G30



Inclined inserts



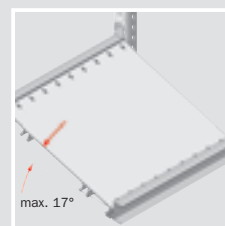
Mesh panel



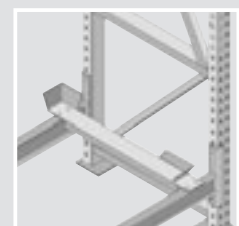
Side beam



Frame reinforcement



Shelf with U profile beam



Depth support

On-line racking BR 400

— Complete racking



Corner protector on request

Complete racking with 2 longitudinal beam levels, starter bay BR-I

Including mesh panel, end stop, mesh back panel and load sign. Frame height 2520 mm.

Item	Rack depth (mm)	Rack length (mm)	Profile beam	Bay load max. (kg)	Order no.
BR-I.1-G	900	1340	INP 80	3000	304000
BR-I.2-G		1900	INP 100	4200	304010
BR-I.3-G		2300	INP 100	3500	304020
BR-I.4-G		2700	INP 100	3500	304030
BR-I.5-G		3900	INP 140	4500	304040
BR-I.6-G		4900	INP 160	4500	304050
BR-I.7-G	1300	1340	INP 80	3000	304060
BR-I.8-G		1900	INP 100	4200	304070
BR-I.9-G		2300	INP 100	3500	304080
BR-I.10-G		2700	INP 100	3500	304090
BR-I.11-G		3900	INP 140	4500	304100
BR-I.12-G		4900	INP 160	4500	304110

Extension bay BR-I

Including mesh panel, end stop, mesh back panel and load sign.

Item	Rack depth (mm)	Rack length (mm)	Profile beam	Bay load max. (kg)	Order no.
BR-I.1-A	900	1340	INP 80	3000	304005
BR-I.2-A		1900	INP 100	4200	304015
BR-I.3-A		2300	INP 100	3500	304025
BR-I.4-A		2700	INP 100	3500	304035
BR-I.5-A		3900	INP 140	4500	304045
BR-I.6-A		4900	INP 160	4500	304055
BR-I.7-A	1300	1340	INP 80	3000	304065
BR-I.8-A		1900	INP 100	4200	304075
BR-I.9-a		2300	INP 100	3500	304085
BR-I.10-A		2700	INP 100	3500	304095
BR-I.11-A		3900	INP 140	4500	304105
BR-I.12-A		4900	INP 160	4500	304115



GREY

GALVANISED



RAL 7037

- **Highly stable design**
for tough use with forklift trucks
- **Guard**
up to 175 kN impact load



Corner protector on request

Complete racking with 1 longitudinal beam level, starter bay BR-II

Including mesh panel, end stop, mesh back panel, front-to-back support and load sign. Frame height 3620 mm.

Item	Rack depth (mm)	Rack length (mm)	Profile beam	Bay load max. (kg)	Order no.
BR-II.1-G	900	1340	INP 80	3000	304120
BR-II.2-G		1900	INP 100	4200	304130
BR-II.3-G		2300	INP 100	3500	304140
BR-II.4-G		2700	INP 100	3500	304150
BR-II.5-G		3900	INP 140	4500	304160
BR-II.6-G		4900	INP 160	4500	304170
BR-II.7-G	1300	1340	INP 80	3000	304180
BR-II.8-G		1900	INP 100	4200	304190
BR-II.9-G		2300	INP 100	3500	304200
BR-II.10-G		2700	INP 100	3500	304210
BR-II.11-G		3900	INP 140	4500	304220
BR-II.12-G		4900	INP 160	4500	304230
BR-II.13-G	1600	2300	INP 100	3500	304240
BR-II.14-G		2700	INP 100	3500	304250

Extension bay BR-II

Including mesh panel, end stop, mesh back panel, front-to-back support and load sign.

Item	Rack depth (mm)	Rack length (mm)	Profile beam	Bay load max. (kg)	Order no.
BR-II.1-A	900	1340	INP 80	3000	304125
BR-II.2-A		1900	INP 100	4200	304135
BR-II.3-A		2300	INP 100	3500	304145
BR-II.4-A		2700	INP 100	3500	304155
BR-II.5-A		3900	INP 140	4500	304165
BR-II.6-A		4900	INP 160	4500	304175
BR-II.7-A	1300	1340	INP 80	3000	304185
BR-II.8-A		1900	INP 100	4200	304195
BR-II.9-A		2300	INP 100	3500	304205
BR-II.10-A		2700	INP 100	3500	304215
BR-II.11-A		3900	INP 140	4500	304225
BR-II.12-A		4900	INP 160	4500	304235
BR-II.13-A	1600	2300	INP 100	3500	304245
BR-II.14-A		2700	INP 100	3500	304255

On-line racking BR 400 – Complete racking



Corner protector on request

Complete racking with 2 longitudinal beam levels, starter bay BR-III

Including mesh panel, end stop, mesh back panel and load sign.
Frame height 3620 mm.

Item	Rack depth (mm)	Rack length (mm)	Profile beam	Bay load max. (kg)	Order no.
BR-III.1-G	900	1340	INP 80	3000	304260
BR-III.2-G		1900	INP 100	4200	304270
BR-III.3-G		2300	INP 100	3500	304280
BR-III.4-G		2700	INP 100	3500	304290
BR-III.5-G		3900	INP 140	4500	304300
BR-III.6-G		4900	INP 160	4500	304310
BR-III.7-G	1300	1340	INP 80	3000	304320
BR-III.8-G		1900	INP 100	4200	304330
BR-III.9-G		2300	INP 100	3500	304340
BR-III.10-G		2700	INP 100	3500	304350
BR-III.11-G		3900	INP 140	4500	304360
BR-III.12-G		4900	INP 160	4500	304370
BR-III.13-G	1600	2300	INP 100	3500	304380
BR-III.14-G		2700	INP 100	3500	304390

Extension bay BR-III

Including mesh panel, end stop, mesh back panel and load sign.

Item	Rack depth (mm)	Rack length (mm)	Profile beam	Bay load max. (kg)	Order no.
BR-III.1-A	900	1340	INP 80	3000	304265
BR-III.2-A		1900	INP 100	4200	304275
BR-III.3-A		2300	INP 100	3500	304285
BR-III.4-A		2700	INP 100	3500	304295
BR-III.5-A		3900	INP 140	4500	304305
BR-III.6-A		4900	INP 160	4500	304315
BR-III.7-A	1300	1340	INP 80	3000	304325
BR-III.8-A		1900	INP 100	4200	304335
BR-III.9-A		2300	INP 100	3500	304345
BR-III.10-A		2700	INP 100	3500	304355
BR-III.11-A		3900	INP 140	4500	304365
BR-III.12-A		4900	INP 160	4500	304375
BR-III.13-A	1600	2300	INP 100	3500	304385
BR-III.14-A		2700	INP 100	3500	304395



Corner protector on request

Complete racking with 3 longitudinal beam levels, starter bay BR-IV

Including mesh panel, end stop, mesh back panel and load sign.
Frame height 3620 mm.

Item	Rack depth (mm)	Rack length (mm)	Profile beam	Bay load max. (kg)	Order no.
BR-IV.1-G	900	1340	INP 80	3000	304400
BR-IV.2-G		1900	INP 100	4200	304410
BR-IV.3-G		2300	INP 100	3500	304420
BR-IV.4-G		2700	INP 100	3500	304430
BR-IV.5-G		3900	INP 140	4500	304440
BR-IV.6-G		4900	INP 160	4500	304450
BR-IV.7-G	1300	1340	INP 80	3000	304460
BR-IV.8-G		1900	INP 100	4200	304470
BR-IV.9-G		2300	INP 100	3500	304480
BR-IV.10-G		2700	INP 100	3500	304490
BR-IV.11-G		3900	INP 140	4500	304500
BR-IV.12-G		4900	INP 160	4500	304510

Extension bay BR-IV

Including mesh panel, end stop, mesh back panel and load sign.

Item	Rack depth (mm)	Rack length (mm)	Profile beam	Bay load max. (kg)	Order no.
BR-IV.1-A	900	1340	INP 80	3000	304405
BR-IV.2-A		1900	INP 100	4200	304415
BR-IV.3-A		2300	INP 100	3500	304425
BR-IV.4-A		2700	INP 100	3500	304435
BR-IV.5-A		3900	INP 140	4500	304445
BR-IV.6-A		4900	INP 160	4500	304455
BR-IV.7-A	1300	1340	INP 80	3000	304465
BR-IV.8-A		1900	INP 100	4200	304475
BR-IV.9-A		2300	INP 100	3500	304485
BR-IV.10-A		2700	INP 100	3500	304495
BR-IV.11-A		3900	INP 140	4500	304505
BR-IV.12-A		4900	INP 160	4500	304515

On-line racking BR 400

— Complete racking



Complete racking with 3 longitudinal beam levels, starter bay BR-V

Including mesh panel, end stop, mesh back panel and load sign. Frame height 4820 mm.

Item	Rack depth (mm)	Rack length (mm)	Profile beam	Bay load max. (kg)	Order no.
BR-V.1-G	900	1340	INP 80	3000	304520
BR-V.2-G		1900	INP 100	4200	304530
BR-V.3-G		2300	INP 100	3500	304540
BR-V.4-G		2700	INP 100	3500	304550
BR-V.5-G		3900	INP 140	4500	304560
BR-V.6-G		4900	INP 160	4500	304570
BR-V.7-G	1300	1340	INP 80	3000	304580
BR-V.8-G		1900	INP 100	4200	304590
BR-V.9-G		2300	INP 100	3500	304600
BR-V.10-G		2700	INP 100	3500	304610
BR-V.11-G		3900	INP 140	4500	304620
BR-V.12-G		4900	INP 160	4500	304630

Extension bay BR-V

Including mesh panel, end stop, mesh back panel and load sign.

Item	Rack depth (mm)	Rack length (mm)	Profile beam	Bay load max. (kg)	Order no.
BR-V.1-A	900	1340	INP 80	3000	304525
BR-V.2-A		1900	INP 100	4200	304535
BR-V.3-A		2300	INP 100	3500	304545
BR-V.4-A		2700	INP 100	3500	304555
BR-V.5-A		3900	INP 140	4500	304565
BR-V.6-A		4900	INP 160	4500	304575
BR-V.7-A	1300	1340	INP 80	3000	304585
BR-V.8-A		1900	INP 100	4200	304595
BR-V.9-A		2300	INP 100	3500	304605
BR-V.10-A		2700	INP 100	3500	304615
BR-V.11-A		3900	INP 140	4500	304625
BR-V.12-A		4900	INP 160	4500	304635



Complete racking with 1 longitudinal beam level and 1 inclined insert, starter bay BR-VI

Including end stop, inclined insert and load sign. Frame height 2520 mm.

Item	Rack depth (mm)	Rack length (mm)	Profile beam	Bay load max. (kg)	Order no.
BR-VI.1-G	900	1340	INP 80	3000	304640
BR-VI.2-G	700	940	INP 80	3000	304650

Extension bay BR-VI

Including end stop, inclined insert and load sign.

Item	Rack depth (mm)	Rack length (mm)	Profile beam	Bay load max. (kg)	Order no.
BR-VI.1-A	900	1340	INP 80	3000	304645
BR-VI.2-A	700	940	INP 80	3000	304655



Complete racking with 1 longitudinal beam level and 1 inclined insert, starter bay BR-VII

Including mesh panel, end stop, mesh back panel, inclined insert and load sign. Frame height 2520 mm.

Item	Rack depth (mm)	Rack length (mm)	Profile beam	Bay load max. (kg)	Order no.
BR-VII.1-G	900	1340	INP 80	3000	304660
BR-VII.2-G	700	940	INP 80	3000	304670

Extension bay BR-VII

Including mesh panel, end stop, mesh back panel, inclined insert and load sign.

Item	Rack depth (mm)	Rack length (mm)	Profile beam	Bay load max. (kg)	Order no.
BR-VII.1-A	900	1340	INP 80	3000	304665
BR-VII.2-A	700	940	INP 80	3000	304675



Complete racking with 2 longitudinal beam levels and 1 inclined insert, starter bay BR-VIII

Including mesh panel, end stop, mesh back panel, inclined insert and load sign. Frame height 3620 mm.

Item	Rack depth (mm)	Rack length (mm)	Profile beam	Bay load max. (kg)	Order no.
BR-VIII.1-G	900	1340	INP 80	3000	304680
BR-VIII.2-G	700	940	INP 80	3000	304690

Extension bay BR-VIII

Including mesh panel, end stop, mesh back panel, inclined insert and load sign.

Item	Rack depth (mm)	Rack length (mm)	Profile beam	Bay load max. (kg)	Order no.
BR-VIII.1-A	900	1340	INP 80	3000	304685
BR-VIII.2-A	700	940	INP 80	3000	304695



Complete racking with 1 longitudinal beam level and 1 inclined insert, starter bay BR-VIII

Including mesh panel, end stop, mesh back panel, inclined insert and load sign. Frame height 3620 mm.

Item	Rack depth (mm)	Rack length (mm)	Profile beam	Bay load max. (kg)	Order no.
BR-VIII.1-G	900	1340	INP 80	3000	304700
BR-VIII.2-G	700	940	INP 80	3000	304710

Extension bay BR-VIII

Including mesh panel, end stop, mesh back panel, inclined insert and load sign.

Item	Rack depth (mm)	Rack length (mm)	Profile beam	Bay load max. (kg)	Order no.
BR-VIII.1-A	900	1340	INP 80	3000	304705
BR-VIII.2-A	700	940	INP 80	3000	304715

On-line racking BR 400 – Complete racking



Complete racking with 1 longitudinal beam level, starter bay BR-IX

Including mesh panel, end stop, mesh back panel and load sign. Frame height 2520 mm.

Item	Rack depth (mm)	Rack length (mm)	Profile beam	Bay load max. (kg)	Order no.
BR-IX.1-G	900	1340	INP 80	3000	304720
BR-IX.2-G		1900	INP 100	4200	304730
BR-IX.3-G		2300	INP 100	3500	304740
BR-IX.4-G		2700	INP 100	3500	304750
BR-IX.5-G		3900	INP 140	4500	304760
BR-IX.6-G		4900	INP 160	4500	304770
BR-IX.7-G	1300	1340	INP 80	3000	304780
BR-IX.8-G		1900	INP 100	4200	304790
BR-IX.9-G		2300	INP 100	3500	304800
BR-IX.10-G		2700	INP 100	3500	304810
BR-IX.11-G		3900	INP 140	4500	304820
BR-IX.12-G		4900	INP 160	4500	304830

Extension bay BR-IX

Including mesh panel, end stop, mesh back panel and load sign.

Item	Rack depth (mm)	Rack length (mm)	Profile beam	Bay load max. (kg)	Order no.
BR-IX.1-A	900	1340	INP 80	3000	304725
BR-IX.2-A		1900	INP 100	4200	304735
BR-IX.3-A		2300	INP 100	3500	304745
BR-IX.4-A		2700	INP 100	3500	304755
BR-IX.5-A		3900	INP 140	4500	304765
BR-IX.6-A		4900	INP 160	4500	304775
BR-IX.7-A	1300	1340	INP 180	3000	304785
BR-IX.8-A		1900	INP 100	4200	304795
BR-IX.9-A		2300	INP 100	3500	304805
BR-IX.10-A		2700	INP 100	3500	304815
BR-IX.11-A		3900	INP 140	4500	304825
BR-IX.12-A		4900	INP 160	4500	304835

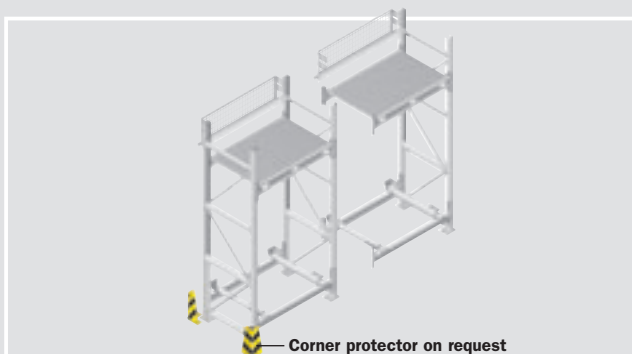
On-line racking BR 400

– Complete racking

Rack dimensions

Container	Container dim. L x W x H (mm)	Rack dim. L* x D x H (mm)	Rack type (e. g.)
Large heavy goods	1240 x 840 x 675	1340 x 900 x 3625	BR-VIII.1
Small heavy goods	840 x 640 x 615	940 x 700 x 3625	BR-VIII.2
Full wall	1230 x 830 x 970	1340 x 900 x 3625	BR-VIII.3
Mesh rack	2000 x 1200 x 1010	2300 x 1300 x 3625	BR-II.9
Mesh rack, long	2200 x 1200 x 1010	2700 x 1300 x 3625	BR-II.10
Mesh rack, wide	2000 x 1400/1600 x 1010	2300 x 1600 x 3625	BR-II.13
Mesh rack, long/wide or special	2200 x 1400 x 1010	2700 x 1600 x 3625	BR-II.14
2x mesh rack or special	2200 x up to 1600 x 1010	4900 x 1300 x 3625	BR-II.12

* Interior dimensions; each
plus support left and right,
80 mm (starter bay)



Complete racking with 1 longitudinal beam level, 1 inclined insert and front-to-back support – starter bay X

Including mesh panel, end stop, mesh back panel, inclined insert, front-to-back support and load sign. Frame height 2520 mm.

Item	Rack depth (mm)	Rack length (mm)	Profile beam	Bay load max. (kg)	Order no.
BR-X.1-G	900	1340	INP 80	3000	304840
BR-X.2-G	700	940	INP 80	3000	304850

Extension bay BR-X

Including mesh panel, end stop, mesh back panel, inclined insert, front-to-back support and load sign.

Item	Rack depth (mm)	Rack length (mm)	Profile beam	Bay load max. (kg)	Order no.
BR-X.1-A	900	1340	INP 80	3000	304845
BR-X.2-A	700	940	INP 80	3000	304855

**Brochure “BR 400 on-line
racking – the technology”**

on request



Complete racking with 2 longitudinal beam levels, starter bay BR-XI

Including mesh panel, end stop, mesh back panel and load sign. Frame height 2520 mm.

Item	Rack depth (mm)	Rack length (mm)	Profile beam	Bay load max. (kg)	Order no.
BR-XI.1-G	900	1340	INP 80	3000	304860
BR-XI.2-G	700	940	INP 80	3000	304870

Extension bay BR-XI

Including mesh panel, end stop, mesh back panel and load sign.

Item	Rack depth (mm)	Rack length (mm)	Profile beam	Bay load max. (kg)	Order no.
BR-XI.1-A	900	1340	INP 80	3000	304865
BR-XI.2-A	700	940	INP 80	3000	304875



Complete racking with 1 longitudinal beam level and 1 inclined insert, starter bay BR-XIA

Including mesh panel, end stop, mesh back panel, front-to-back support and load sign. Frame height 3620 mm.

Item	Rack depth (mm)	Rack length (mm)	Profile beam	Bay load max. (kg)	Order no.
BR-XIA.1-G	900	1340	INP 80	3000	304880
BR-XIA.2-G	700	940	INP 80	3000	304890

Extension bay BR-XIA

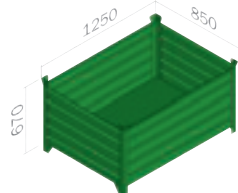
Including mesh panel, end stop, mesh back panel, front-to-back support and load sign.

Item	Rack depth (mm)	Rack length (mm)	Profile beam	Bay load max. (kg)	Order no.
BR-XIA.1-A	900	1340	INP 80	3000	304885
BR-XIA.2-A	700	940	INP 80	3000	304895

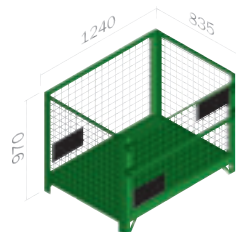


RAL 6011 SHEET STEEL

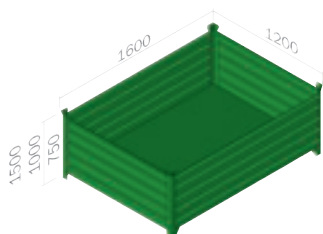
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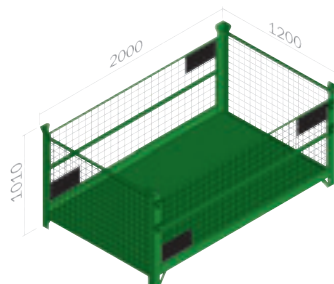
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Size 3



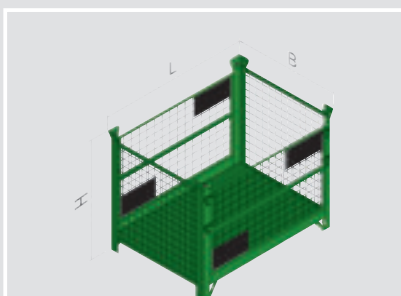
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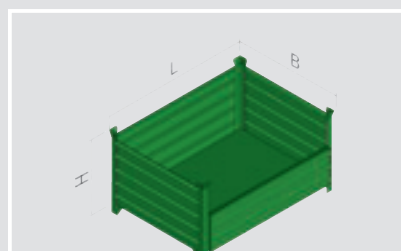
Size 5

A 3D perspective view of a rectangular box. The dimensions are labeled: L for length, B for breadth, and H for height.

Item	Exterior dim. L x W x H (mm)
With flap	850 x 650 x 670
With solid walls	850 x 650 x 670
With solid walls	850 x 550 x 670
With solid walls	850 x 550 x 370

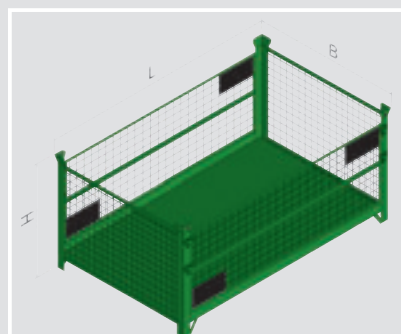


Item	Exterior dim. L x W x H (mm)
With wooden floor	1240 x 835 x 970
With sheet steel base	1240 x 835 x 970



Item	Exterior dim. L x W x H (mm)
With flap*	1250 x 850 x 970
With solid walls*	1250 x 850 x 670
With solid walls**	1250 x 850 x 670

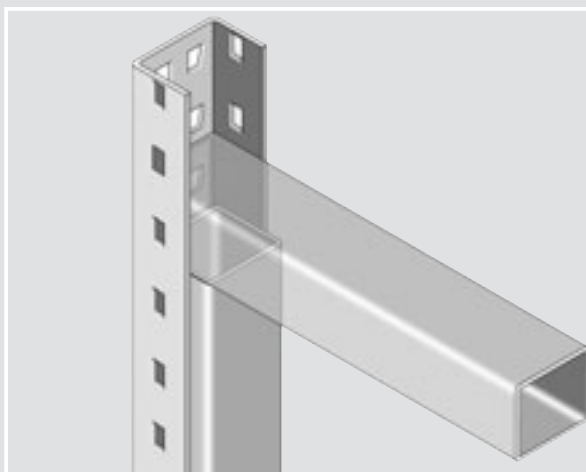
* galvanised ** painted



Item	Exterior dim. L x W x H (mm)
With wooden floor	2000 x 1200 x 1010
With sheet steel base	2000 x 1200 x 1010

from page **A84**

Rack components

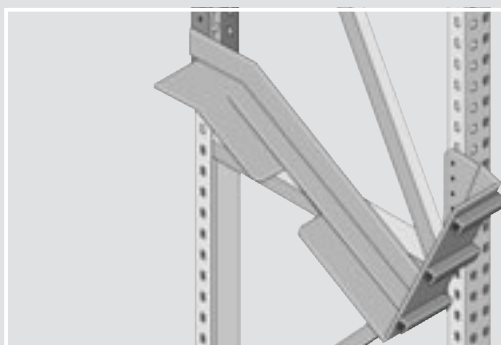


Frame

With frame reinforcement for loads up to 10.000 kg.
Made from cold rolled, high strength steel.
Frame reinforcement profile: U80/50/4.

Surface painted: grey, RAL 7037

Item	Rack depth (mm)	Rack height (mm)	Order no.
RNB 2507	700	2500	303000
RNB 2509	900	2500	303010
RNB 2513	1300	2500	303020
RNB 3607	700	3600	303030
RNB 3609	900	3600	303040
RNB 3613	1300	3600	303050
RNB 3616	1600	3600	303060
RNB 4809	900	4800	303070
RNB 4813	1300	4800	303080

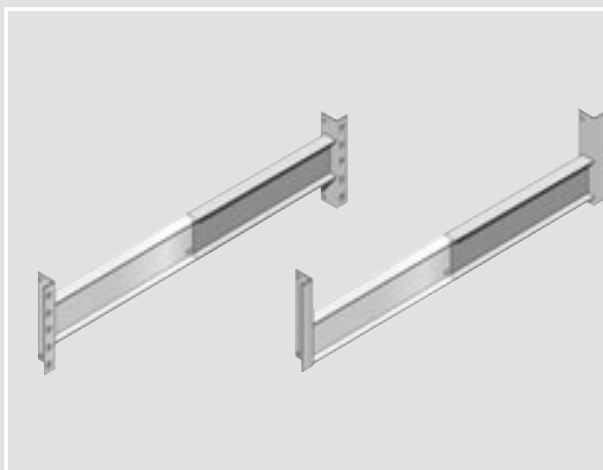


Inclined inserts

Made from flat welded steel, specially developed for containers with heavy loads.

Surface painted: grey, RAL 7037

Item	Rack depth (mm)	Clear bay width (mm)	Order no.
SCHR 0907	700	940	303800
SCHR 1309	900	1340	303810

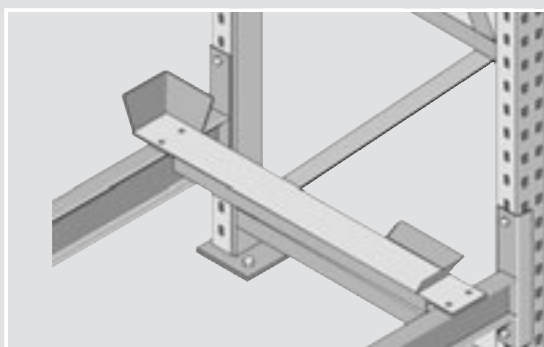


Longitudinal beams

Welded 5-hook connectors guarantee a positive and non-positive connection to the uprights, or as offset connectors for bolt fixing in the reinforced support area.

Surface painted: grey, RAL 7037

Item	Length (mm)	Profile beam	Load (Pair/kg)	Order no.
TRB 0908	940	INP 80	3000	303100
TRB 1308	1340	INP 80	3000	303110
TRB 1910	1900	INP 100	4200	303120
TRB 2310	2300	INP 100	3500	303130
TRB 2710	2700	INP 100	3500	303140
TRB 3914	3900	INP 140	4500	303150
TRB 4916	4900	INP 160	4500	303160
TRB 0910 U	940	INP 100	3000	303230
TRB 1310 U	1340	INP 100	3000	303240



Front-to-back supports

Are bolted using longitudinal beams.
Made from flat welded steel, with locators for containers.

Surface painted: grey, RAL 7037

Item	Rack depth (mm)	Order no.
QAB 70	700	on req.
QAB 90	900	on req.
QAB 13	1300	on req.

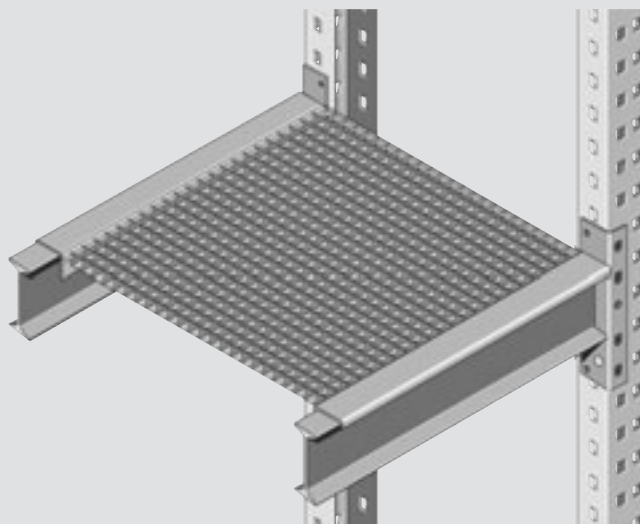
Accessories

Mesh panels

Are laid on top of the longitudinal beams. From clear bay width 2200 mm in two sections. Mesh size 30 x 30 mm.

Surface: galvanised

Item	Rack depth (mm)	Clear bay width (mm)	Order no.
GIRO 0907	700	940	303500
GIRO 1307		1340	303510
GIRO 1309	900	1340	303520
GIRO 1909		1900	303530
GIRO 2309		2300	303540
GIRO 2709		2700	303550
GIRO 3909		3900	303560
GIRO 4909		4900	303570
GIRO 1313	1300	1340	303580
GIRO 1913		1900	303590
GIRO 2313		2300	303600
GIRO 2713		2700	303610
GIRO 3913		3900	303620
GIRO 4913		4900	303630
GIRO 2316	1600	2300	303640
GIRO 2716		2700	303650



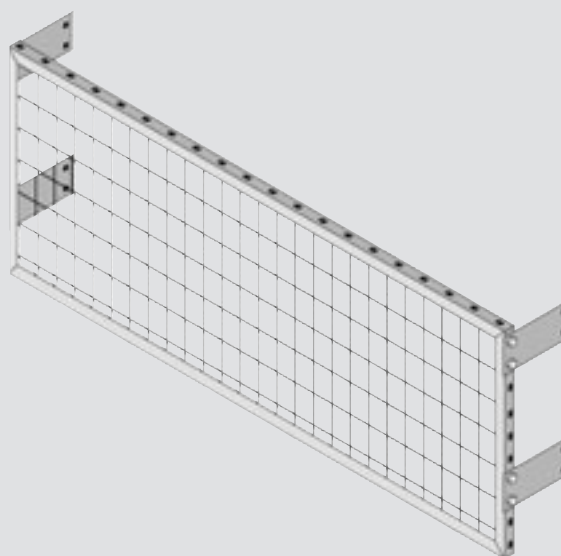
Mesh back panels

The back of free-standing racking must be clad in order to prevent goods from falling and/or to keep them securely in place. Each mesh segment consists of a stable angle profile frame with welded mesh.

Mesh width 50 x 50 mm, including fixing materials.

Surface painted: grey, RAL 7037

Item	Clear bay width (mm)	Mesh segment height (mm)	Order no.
GRB 0903	940	300	303250
GRB 1303	1340	300	303260
GRB 1903	1900	300	303270
GRB 2303	2300	300	303280
GRB 2703	2700	300	303290
GRB 3903	3900	300	303300
GRB 4903	4900	300	303310
GRB 0905	940	500	303320
GRB 1305	1340	500	303330
GRB 1905	1900	500	303340
GRB 2305	2300	500	303350
GRB 2705	2700	500	303360
GRB 3905	3900	500	303370
GRB 4905	4900	500	303380
GRB 1309	1340	900	303400
GRB 1909	1900	900	303410
GRB 2309	2300	900	303420
GRB 2709	2700	900	303430
GRB 3909	3900	900	303440
GRB 4909	4900	900	303450



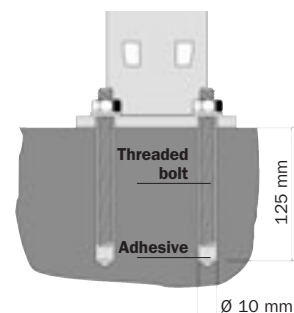


RAL 7037



RAL 1021

► Fixing the foot plate

**More information on
on-line racking BR 400**

on request

Accessories



End stops

Required if the distance between the loading aid and the loading unit is less than 100 mm. End stops prevent the loading units falling out accidentally.

Surface painted: grey, RAL 7037

Item	Clear bay width (mm)	Profile	Order no.
DSB 09	940	U 120/60/4	303710
DSB 13	1340	U 120/60/4	303720
DSB 19	1900	U 120/60/4	303730
DSB 23	2300	U 120/60/4	303740
DSB 27	2700	U 120/60/4	303750
DSB 39	3900	U 120/60/4	303760
DSB 49	4900	U 120/60/4	303770

Floorguide rails

Prevent the loading units moving out of position.

Surface painted: bright yellow, RAL 1021

Item	Clear bay width (mm)	Profile	Order no.
BS 09	940	L 60/6	303660
BS 13	1340	L 60/6	303670

Anti-twist devices

Above a clear bay width of 3900 mm, an anti-twist rod is bolted between the longitudinal beams to increase stability and to avoid the longitudinal beams being moved out of position.

Surface painted: grey, RAL 7037

Item	Rack depth (mm)	Profile	Order no.
VD 09	900	C 40/30/8/1,5	303780
VD 13	1300	C 40/30/8/1,5	303790



SIGNAL YELLOW



MARKING

► Safety regulations

stationary racks, which are served by monorail cranes, must be sufficiently secured at the corner areas also at passages against damage of the frame

► Identification labelling requirements

in accordance with the industry safety regulations, all racking installations have to be labeled with the relevant load signs

Racking system:
Construction year:
Type of rack: Longitudinal beam racking
Order confirmation no.:

Racking height: mm
 (Height to top beam level)
Frame depth: mm
No. of storage levels:
Height to first beam level: mm

Upright profile:

Level	clear entry	profile	compartment load
1	mm		kg
2	mm		kg
3	mm		kg
4	mm		kg

max. weight/pallet: kg
 max. usable bay load: kg

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Load sign

Made from aluminum, incl. fixing materials.

Item	Width (mm)	Height (mm)	Order no.
PRTS 7050 LTR	420	600	992305

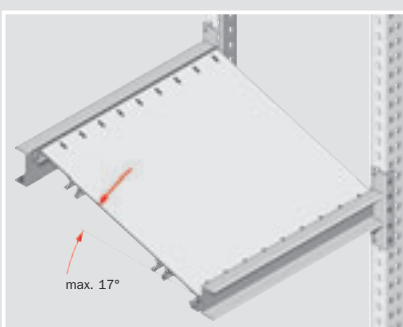
Load sign (no illustr.)

Made from self-adhesive PVC.

Item	Width (mm)	Height (mm)	Order no.
TS 0615	60	150	157300

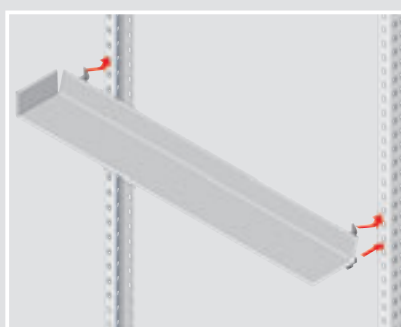
More safety accessories

Page D21



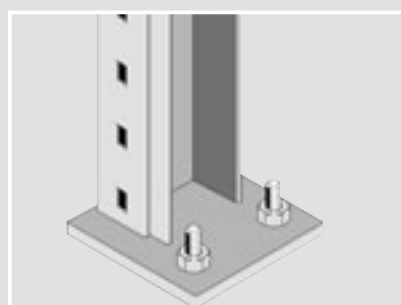
Shelf with U profile beam

Shelves made from profiled sheet steel with longitudinal reinforcement. Equipped with rows of slots to accommodate dividers, slot spacing 41 mm. Distance between slots 50 mm. The shelves are laid on top of the welded on L-profiles, between the beams. An inclination of the shelves of max. 17° is therefore possible. Surface shelf: galvanised.



Side beam

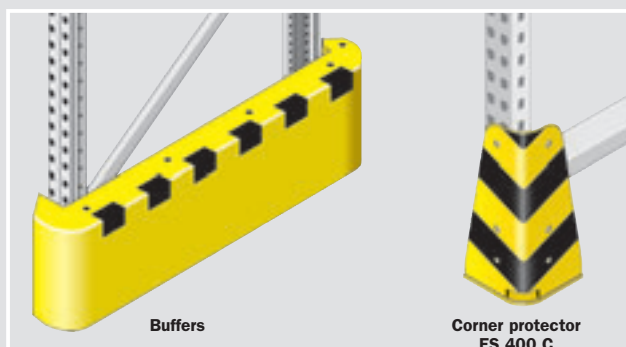
Side beams with end stop and welded-on hooks are inserted sideways into the frames and can be adjusted in increments of 50 mm. The hooks are especially designed to facilitate easy adjustment without the aid of tools and to prevent accidental movement. The hooks are especially designed to fit securely in uprights to prevent any accidental movement. The inclined side profile permits the secure storage of the containers. The back-stop prevents the stored goods sliding over the edge. Surface painted: grey, RAL 7037.



Foot plate

Frame with welded foot plate. The frame must be anchored using M 12 threaded anchors to guarantee the stability of the on-line racking.

Safety accessories



Buffers

Buffers should be used where racking is in particular danger of being hit by fork lift trucks, e.g. access aisles or aisles which are frequently used.

400 mm high, 100 mm wide, including anchor bolts.

Item	For rack depth (mm)	Order no.
RS 854 B	850	157870
RS 1054 B	1050	157880
RS 1254 B	1250	157890
RS 1804 B	1800	157900
RS 2204 B	2200	157910
RS 2354 B	2350	157920
RS 2604 B	2600	157930

Corner protector

Robust angle channel section with sturdy floor plate and two anchor bolts to fix the protector to the hall floor.

Item	Height (mm)	Order no.
ES 400 C	400	157390

Accessories

on request