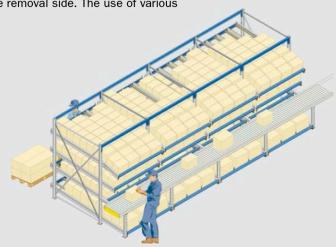
KDR – the live storage shelving system with diverse options

Stable and sturdy frames connected to reinforcing beams create a "rack scaffold" for fitting complete live storage shelving units. The height and angle of the flow beds can be quickly adjusted without screws using adjusting hooks in steps of 6.25 mm (post type P63/P65) or 12.5 mm (post type P73/P93) and also horizontally in 25 mm steps.

The staircase design of the flow beds with outfeed panels or enabled geometry can fulfill all ergonomic requirements. Transverse transport conveyors can be connected cost-effectively using underlays placed on the supports.

Robust roller strips in various designs guarantee problem-free movement of the containers from the supply to the removal side. The use of various separating strip systems enables the configuration of guides (channels) for the specific container types.





► High load capacity and high rigidity due to sturdy support, 60, 75 and 90 mm thick

System hole pattern in the support profiles with adjustment spacing 50 : 50 mm

▶ The best height and gradient

adjustment of the flow bed to the storage goods due to the small hole pattern, e.g. 6.25 mm

- Plug-in anti-lifting device
- Flexible and modular bold-free system due to adjustable rolls and partitions for configuring channels with a spacing of 5 mm
- Roller tracks for smooth conveying optionally with a load capacity of 5 kg and

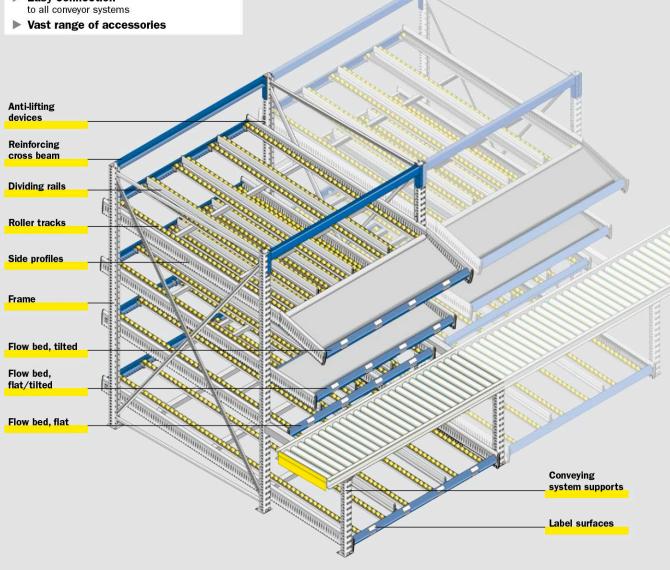
Can be combined with other SSI SCHAEFER rack systems **Easy connection** to all conveyor systems Vast range of accessories

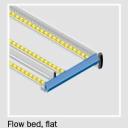


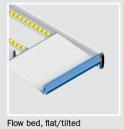
KDR system design – stationary

Starter and extension bay construction

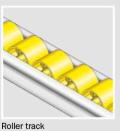
The stationary design is available with either the starter or extension bay construction Entering the supports to the floor prevents the fields from slipping and provides additional stability.













KDR/KLT live storage works – the system for KLT containers









High load capacity and high rigidity due to sturdy support, 60, 75 and 90 mm thick

System hole pattern in the support profiles with adjustment spacing 50:50 mm

▶ The best height and gradient adjustment

of the flow bed to the storage goods due to the small hole pattern, e.g. 6.25 mm

- ▶ Plug-in anti-lifting device
- ► Flexible and modular bold-free system due to adjustable rolls and partitions for configuring channels with a spacing of 5 mm
- Roller tracks for smooth conveying optionally with a load capacity of 5 kg and 12 kg

Supply side

- Can be combined with other SSI SCHAEFER rack systems
- **Easy connection** to all conveyor systems

Reinforcing cross beams

page G20

Retractable

dividing rails

Roller tracks

Side profiles

Frame page G20

Work tables page G20

Undercarriages

page G20 Upright connectors

page G21

page G23

Vast range of accessories

KDR/KLT with undercarriage

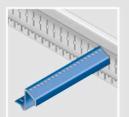
Starter bay construction

The movable units are constructed using starter bays.

For containers with a "honeycomb base" (C-KLTs with grooves) and containers with a large stacking rim, there is a KLT model for the special requirements.



Lateral connectors, front



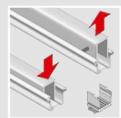
Lateral connectors, tilted



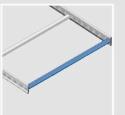
Lateral connectors, internal



Lateral connectors, rear KLT



Retractable dividing rail with



Flow bed, flat

Flow bed, flat/tilted



Label surfaces with 2 angle settings



Anti-lifting devices

Flow bed, tilted

metal supports

Removal side

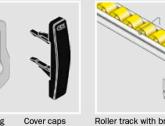
(front)

Flow bed, flat/tilted

page G23

Flow bed, flat page G23

page **G23 Adjustable**



Roller track with brake clip and brake strap

KDR/KLT live storage shelving – conductive design (ESD) for protecting high-quality electronic components



Further information about KDR equipment with a conductive design (ESD)

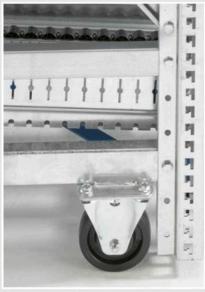
on request

Protection against electrostatic discharge

Protection against electrostatic discharge creates special requirements for shelving equipment. According to EN 61340-5-1:2001 it is essential that all of the individual measures for handling these s ensitive components are effectively coordinated with each other.

In particular, this applies to the packaging of the electronic components, the transport containers, the shelving equipment, the conduct of flooring or the Echo potential bonding and, not least, the protective clothing worn by the employees working in ESD areas.





Fixed castor, conductive



Dividing rails and conductive roller tracks



Swivel castor with stopper





- High load capacity and high rigidity due to sturdy support, 60, 75 and 90 mm thick
- ▶ System hole pattern in the support profiles with adjustment spacing 50:50 mm
- The best height and gradient adjustment

of the flow bed to the storage goods due to the small hole pattern, e.g. 6.25 mm

- ▶ Plug-in anti-lifting device
- ► Flexible and modular bold-free system

due to adjustable rolls and partitions for configuring channels with a spacing of 5 mm

Supply side

Roller tracks for smooth conveying

with a load capacity of 12 kg

Highly conductive rollers black, with steel axles

Reinforcing cross beam

Retractable

dividing rails

Roller tracks

Side profiles

Frame

Undercarriages

Upright connectors

ESD

floor

Work tables

Can be combined with other SSI SCHAEFER rack systems

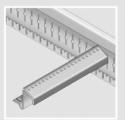
- **Easy connection** to all conveyor systems
- Vast range of accessories
- **Quality tested and certified** by TÜV Rheinland



KDR/KLT system design for ESD version with undercarriage



Lateral connectors, front



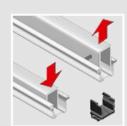
Lateral connectors, tilted



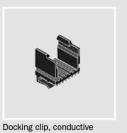
Lateral connectors, internal



Lateral connectors, rear KLT



Retractable dividing rail with





Roller track, conductive



Label surfaces with 2 angle settings



Removal side

(front)

Flow bed, flat/tilted

Flow bed, flat

Anti-lifting devices

Flow bed, tilted

Adjustable metal supports

Undercarriage, conductive



Roller track with brake clip and brake strap

KDR live storage shelving with European dimensions - complete shelving units for container sizes 300 x 400 mm / 200 x 300 mm





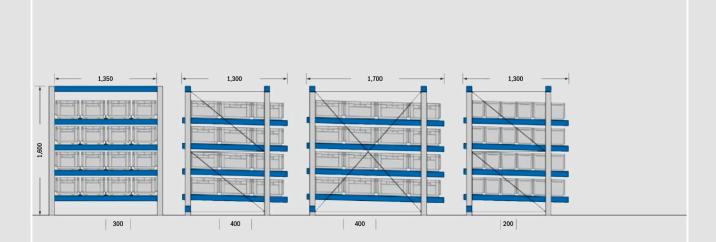
Frame (internal)

Stable

sturdy stand frame, 3 reinforcing cross beams per field, floor fixing

Rollers

with plastic axles, load capacity 5 kg per individual roller



KDR complete shelving system starter bays

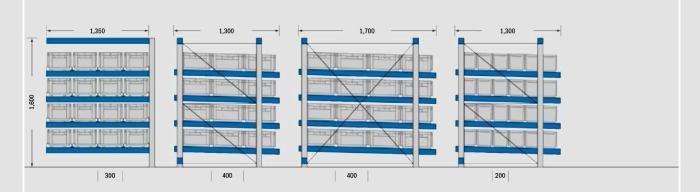
Consisting of 2 frames and 3 reinforcing cross beams.

Equipment for each shelving field:

- 4 flat flow beds above each other;
- 8 roller tracks per flow bed, 28 mm divisions;
- 3 standard dividing rails per flow bed.

Clear field width 1,350 mm, clear channel width 310 mm, total width 1,470 mm, height 1,600 mm

Item	Total depth (mm)	Load capacity live storage level (kg)	Flow bed version	Order no.
K-GF-1350-1300-4-BG01	1,300	180	Flat	464300
K-GF-1350-1700-4-BG01	1,700	270	Flat	464310
additional flow beds				
K-DLR-1350-1300-BG01	1,300	180	Flat	464320
K-DLR-1350-1700-BG01	1,700	270	Flat	464330



KDR complete shelving system extension bays

Consisting of 1 frames and 3 reinforcing cross

Equipment for each shelving field:

- 4 tilted flow beds above each other;
- 8 roller tracks per flow bed, 28 mm divisions;
- 3 standard dividing rails per flow bed.

Clear field width 1,350 mm, clear channel width 310 mm, total width 1,410 mm, height 1,600 mm

Item	Total depth (mm)	Load capacity live storage level (kg)	Flow bed version	Order no.
K-AF-1350-1300-4-BG01	1,300	180	Flat	464340
K-AF-1350-1700-4-BG01	1,700	270	Flat	464350
additional flow beds				
K-DLR-1350-1300-BG01	1,300	180	Flat	464320
K-DLR-1350-1700-BG01	1,700	270	Flat	464330

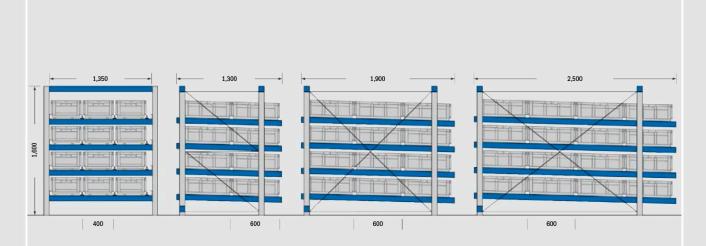
Order no. = on stock

Boxes / containers

Flow bed, flat

angle adjustable in 6.25 mm states depth adjustable in 25 mm steps, can also be used as a return level

KDR live storage shelving with European dimensions - complete shelving units for container sizes 600 x 400 mm



Clear field width 1,350 mm, clear channel width 410 mm, total width 1,470 mm, height 1,600 mm

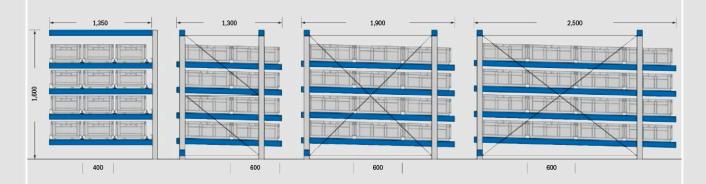
Item	Total depth (mm)	Load capacity live storage level (kg)	Flow bed version	Order no.
K-GF-1350-1300-4-BG02	1,300	180	Flat	464360
K-GF-1350-1900-4-BG02	1,900	270	Flat	464370
K-GF-1350-2500-4-BG02	2,500	360	Flat	464380
additional flow beds				
K-DLR-1350-1300-BG02	1,300	180	Flat	464390
K-DLR-1350-1900-BG02	1,900	270	Flat	464400
K-DLR-1350-2500-BG02	2,500	360	Flat	464410

KDR complete shelving system starter bays

Consisting of 2 frames and 3 reinforcing cross beams.

Equipment for each shelving field:

- 4 tilted flow beds above each other;
- 6 roller tracks per flow bed, 28 mm divisions;
- 3 standard dividing rails per flow bed.



Clear field width 1,350 mm, clear channel width 410 mm, total width 1,410 mm, height 1,600 mm

Item	Total depth (mm)	Load capacity live storage level (kg)	Flow bed version	Order no.
K-AF-1350-1300-4-BG02	1,300	180	Flat	464420
K-AF-1350-1900-4-BG02	1,900	270	Flat	464430
K-AF-1350-2500-4-BG02	2,500	360	Flat	464440
additional flow beds				
K-DLR-1350-1300-BG02	1,300	180	Flat	464390
K-DLR-1350-1900-BG02	1,900	270	Flat	464400
K-DLR-1350-2500-BG02	2,500	360	Flat	464410

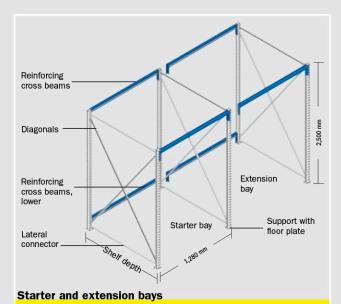
KDR complete shelving system extension bays

Consisting of 1 frames and 3 reinforcing cross

Equipment for each shelving field:

- 4 tilted flow beds above each other; 6 roller tracks per flow bed, 28 mm divisions;
- 3 standard dividing rails per flow bed.

System components

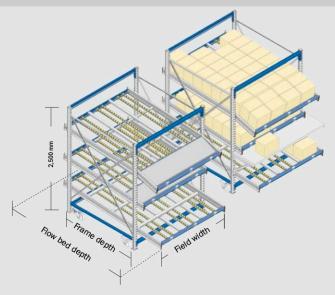


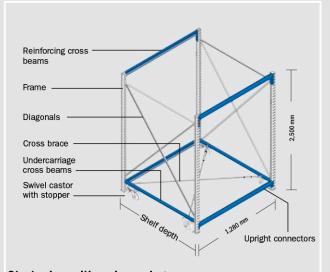
Starter bays consisting of 2 frames and 3 horizontal beams; extension bays consisting of 1 frame and 3 horizontal beams.

Cover caps

High-quality black plastic. Attached to the rack frames as an end piece.

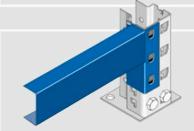






Starter bay with undercarriage

Consisting of 2 frames and 2 cross beams, 2 upright connectors, 2 undercarriage cross beam, 1 cross brace, 2 fixed and 2 swivel castors with stoppers. Load capacity per rack field with undercarriage max. 1,600 kg.

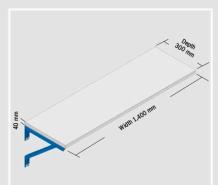


Reinforcing cross beam (U-profile) for support profiles P 63, P 65 and P 73

Reinforcing cross beams and supports form a separate unit. This separates the supporting shelving construction from the live storage levels. As a consequence, a level can be adjusted without having to first empty the entire shelving.

The cross beams only serve to reinforce the bracket construction and are not intended for storing pallets. Additional reinforcing cross beams at the rear are fitted on the rear in accordance with the static

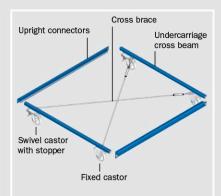
Surface finish: Gentian Blue, RAL 5010.



Work table

For pre-assembly or storage. 2 cantilever supports and 1 multiplex board, 40 mm thick.

Cantilever surface finish: Gentian Blue, RAL 5010.



Undercarriage

Enables easy relocation of starter bays.

Equipped with 2 upright connectors, 2 undercarriage cross beam, 1 cross brace, 2 fixed castors and 2 swivel castors with stoppers.

Load capacity per shelving field with undercarriage: max. 1,600 kg.

Surface finish: Gentian Blue, RAL 5010.

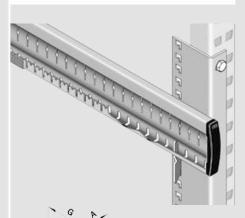
KDR adapter solutions for pallet

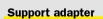
racking systems, partition strips

Pallet racking

Can be combined with existing pallet racking systems

- **Shorter paths**
- Time savings
- Better ergonomics and rapid access
- Clear product range
- Goods automatically resupply
- First-in-First-out
- Separate supply and removal procedures





For fastening on rack supports of existing pallet racking systems - PR 350 and third-party brands. For quick and easy retrofitting with flow beds.

Flow bed, flat

The profiles of the support adapters are individually adapted to the pallet racking stands. Articles upon request.

flat/tilted

When submitting an inquiry, please specify the following dimensions and existing rack brand/type:

Dimensions

A (mm)

Support adapter, left

B (mm)

C (mm)

D (mm)

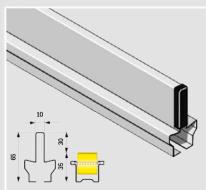
Support adapter, right

E (mm)

F (mm)

Total rack frame depth

G (mm)



Standard dividing rails

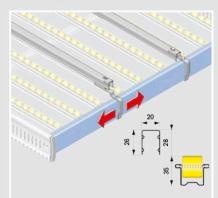
Made of steel, prevent two stored items running next to each other from jamming. They can be adjusted in 5.0 mm steps and are equipped with protective plugs to prevent hand injuries.

Surface, galvanized.



Recessed dividing rails

For the universal use of KLT containers. Surface, galvanized



Multi dividing rails/clips

Multi dividing rails can be adjusted horizontally in 10 mm steps. Ideal in combination with a roller carpet for frequently changing storage items.

Surface, galvanized

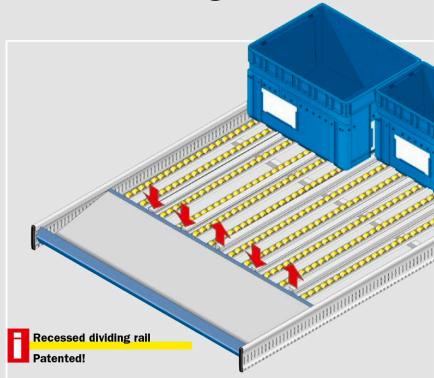


Further information about the KDR equipment

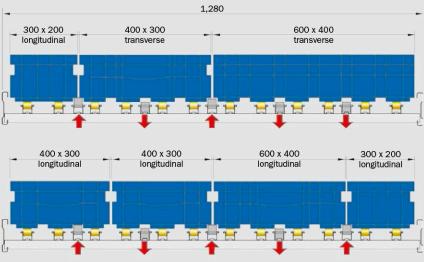
on request

Frame Glide rails Brackets

KLT flow bed with resist dividing rail



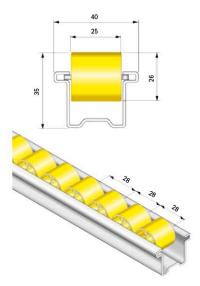
Example for clear field width of 1,280 mm



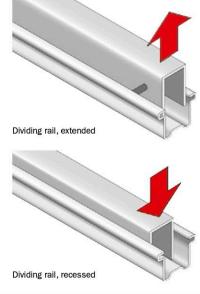
Retracting or extending the dividing rail enables containers with different dimensions to be mixed on one level



- ▶ Always the right channel widths for system containers with 200/400 mm or 300/600 mm standard dimensions through the use of partition strips that can be recessed quickly and without using tools. There is no need to move the partition or roller tracks.
- Harmonized rack dimensions for all KLT container sizes
- Easy assembly and adjustment using the bold-free system
- Usable without conversion as a conventional live storage shelving
- ► Harmonized system profiles prevent the container base from jamming
- ► Gradient and height adjustment in 6.25 mm steps
- Without depth restriction when adjusting the gripping curve
- ► Flow bed with plug-in anti-lifting device
- Locking spreader for roller tracks
- Roller tracks optionally with steel axle, 12 kg load capacity per roller



► Recessed dividing rail



DR live storag

Roller tracks and label holders

oxes /

odular elving

ongspan acking

> Pallet racking

Cantilever racking

Mezzanines / platforms

On-line shelvin KDR shelving

Semi-automat solutions

Logistics systems

Appendix

Rigid rail profile with spreading reinforcement made of galvanized sheet steel

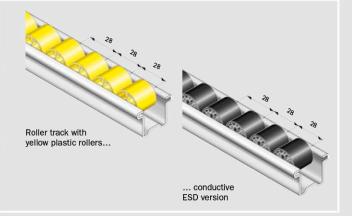
- Sturdy and durable rollers made of high quality plastic, roller spacing 28 mm
- ► Honeycomb-shaped roller reinforcing for very good shape stability and smooth conveying
- High load capacity
 5 kg per roller or 12 kg per roller for the version with a steel axle
- Also usable in deep-freeze areas down to -30° C
- Long service life

Roller tracks

The roller load capacity is 5 kg for the version with a plastic axle and 12 kg for versions with a steel axle. The roller tracks are available in lengths from 195 to 6,495 mm in 25 mm steps.

We are happy to provide you with prices above 50 m on request.

Item	Version/ rollers with	Order no.	6
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



Item	Length (mm)	Order no.
K-EH-0880	780	442518
K-EH-1080	980	442538
K-EH-1280	1,180	442558
K-EH-1350	1,250	442565
K-EH-1800	1,700	442610
K-EH-2200	2,100	442650
K-EH-2700	2,600	442700

Label holder
Self-adhesive plastic label holders, total height 33 mm (for label height 30 mm). Without label inserts.

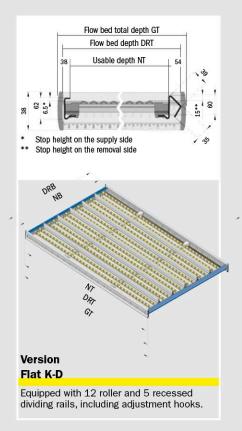
Other versions available on request.

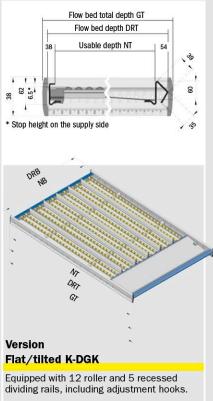


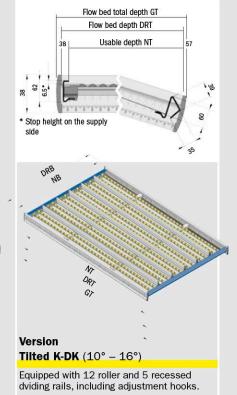


Order no. = on stock

Flow beds with roller tracks and dividing rails – configuration examples







Various areas of use for KDR – application examples

The advantages of live storage shelvings:

- ▶ Rapid order picking by shortening the access paths, organized, clear, more compact storage, increased automation and reduction of movement paths by 85%.
- ► Larger storage capacity in the same area by eliminating shelving aisles.
- No out-of-date goods thanks to the first-in-first-out principle (FiFo). The stored goods always roll automatically to the removal side on roller strips that act as rails.
- ► Fewer order picking mistakes due to compact product overview.
- Clear separation of supply and removal procedures; order picking is never interrupted by supply activities.
- ► Short, ergonomic access paths.
- Easy connection to conveying and handling technology.
- ► Easy handling due to the use of rollers.





