

CANTILEVER RACKING SYSTEMS

2022

Extract from general catalog

Chapter D

ssi-schaefer.com



SSI SCHÄFER


Cantilever racking for long material storage

When it comes to storing long or bulky goods, cantilever racking systems are the right solution. A wide range of products can be stored: light plastic tubes, heavier steel pipes and profiles, timber boards up to massive coils.

Perfectly tailored: SSI SCHAEFER's expert consultants help to develop concepts for special long materials or particular site conditions.

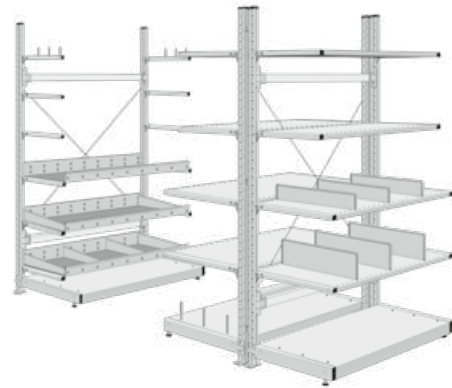
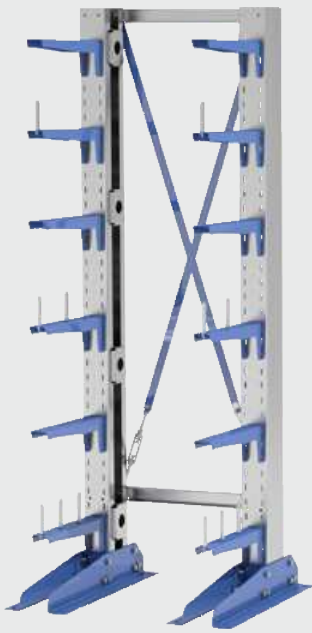
Cantilever rack uprights can be supplied for single- or double-sided storage. Any required row length can be done.

Adjustable cantilever arms allow easy adaption to different storage heights and load requirements. SSI SCHAEFER may offer diverse accessories, depending on the goods to be stored.

 Information regarding **inspection requirements**
for **rack systems**

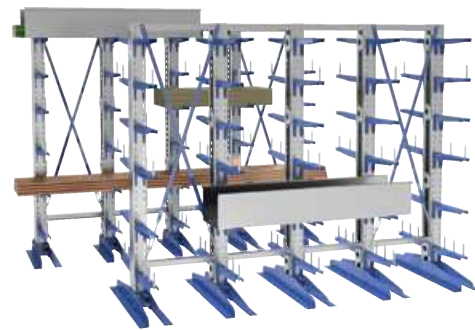
Chapter **F**, page **F4**





KR 3000 cantilever racking

page D4



KRM cantilever racking

page D8



KRS cantilever racking

page D12

Modular shelving

Longspan racking

Pallet racking

Cantilever racking

On-line shelving/ KDR shelving

Customer Service & Support

Overview of cantilever racking systems

| KR 3000 cantilever racking | |
|--|--|
| Areas of use | On-line shelving and storage of light and bulky materials |
| Advantages | <ul style="list-style-type: none"> ▶ Assembly with dividing pins, shelves or storage trays ▶ Double-row racks constructed out of free-standing racks placed back-to-back and 3 frame connectors ▶ Unique upright profile ▶ Beams are installed without any play due to the conical grooves on both short sides |
| System | ▶ Free upright design |
| Design | ▶ Expansion bay design; proportionally reduces the carrying capacity per rack bay |
| System hole pattern | ▶ 53 : 53 mm |
| Load-bearing capacity | ▶ up to 150 kg per side and upright, incl. base, up to 50 kg per cantilever arm |
| Support profiles/ horizontal braces | ▶ Galvanized |
| Cantilever arms | ▶ Galvanized |
| Shelves | ▶ Light silver |



from pages

D4

KRM cantilever racking

Storage of pipes, profiles or long, bulky materials

- ▶ Easy assembly with only a few components
- ▶ Single- or double-face racks
- ▶ Attachable cantilever arms, enabling adjustment without tools
- ▶ Robust construction
- ▶ Solid foot plate
- ▶ Bolted upright design
- ▶ Bolting system: Uprights are bolted together horizontal braces to form rack rows and reinforced with cross braces in every 4th bay
- ▶ 50 : 50 mm
- ▶ up to 2,300 kg per upright side with uniform height division
- ▶ Galvanized
- ▶ Painted RAL 5010, Gentian Blue



D8

KRS cantilever racking

Storage of heavy, bulky materials and goods. Universally usable inside buildings, for manual or automatic operation, stationary or mobile installations possible

- ▶ Easy assembly with only a few components
- ▶ Single- or double-face racks
- ▶ Bolted cantilever arms
- ▶ Robust construction
- ▶ Bolted upright design
- ▶ Bolting system: Uprights are bolted together horizontal braces to form rack rows and reinforced with cross braces in every 4th bay
- ▶ 100 : 100 mm
- ▶ up to 14,000 kg per upright side with uniform height division
- ▶ Painted RAL 7037, Dust Gray
- ▶ Painted RAL 5010, Gentian Blue



D12

Modular shelving

Longspan racking

Pallet racking

Cantilever racking

On-line shelving/ KDR shelving

Customer Service & Support

KR 3000 cantilever racking



The KR 3000 cantilever rack system from SSI SCHAEFER allows for quick and smooth location adjustments. Each side can support loads up to 300 kg with the starter bay design.

The cantilever arms with an insertion angle of 10° can be adjusted in 53 mm steps. They can be fitted with divider pins or serve as a supports for shelves and storage trays.

All rack levels can support loads of up to 100 kg with the starter bay design.

The double-row rack is made of racks positioned one behind the other. Additionally, they are stabilized with two frame connectors. The racks can also be configured with expansion bay design. In this case, it must be considered that the load carrying capacity of each rack bay decreases proportionally.





KR 3000 system design

- ▶ **Load-bearing capacity**
Up to 150 kg per side and upright, incl. base, up to 50 kg per cantilever arm
- ▶ **Height adjustable in steps of 53 mm**
Cantilever brackets with insertion angle of 10°
- ▶ **System design**
Cantilever racking construction
- ▶ **Expansion bay design**
Proportionally reduces the load capacity per rack bay
- ▶ **Areas of use**
On-line shelving and storage of light and bulky materials
- ▶ **Can be equipped with divider pins, shelves or storage trays**
- ▶ **Double-row racks**
Constructed out of racks placed next to each other and 3 frame connectors
- ▶ **Special upright profile**
- ▶ **Beams are installed without any play**
due to the conical grooves on both short sides



Cantilever upright with foot profile

Dividing pins
page D7

Cantilever arms
page D7

Tray (without divider)
page D7

Tray (with divider)
page D7

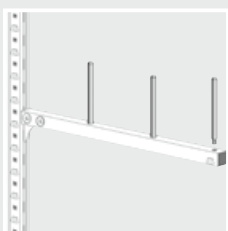
Beams

Cross brace

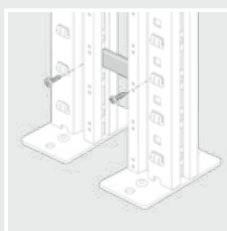
Frame connector
page D7

Free-standing dividers
Chapter A, page A12

Base shelf

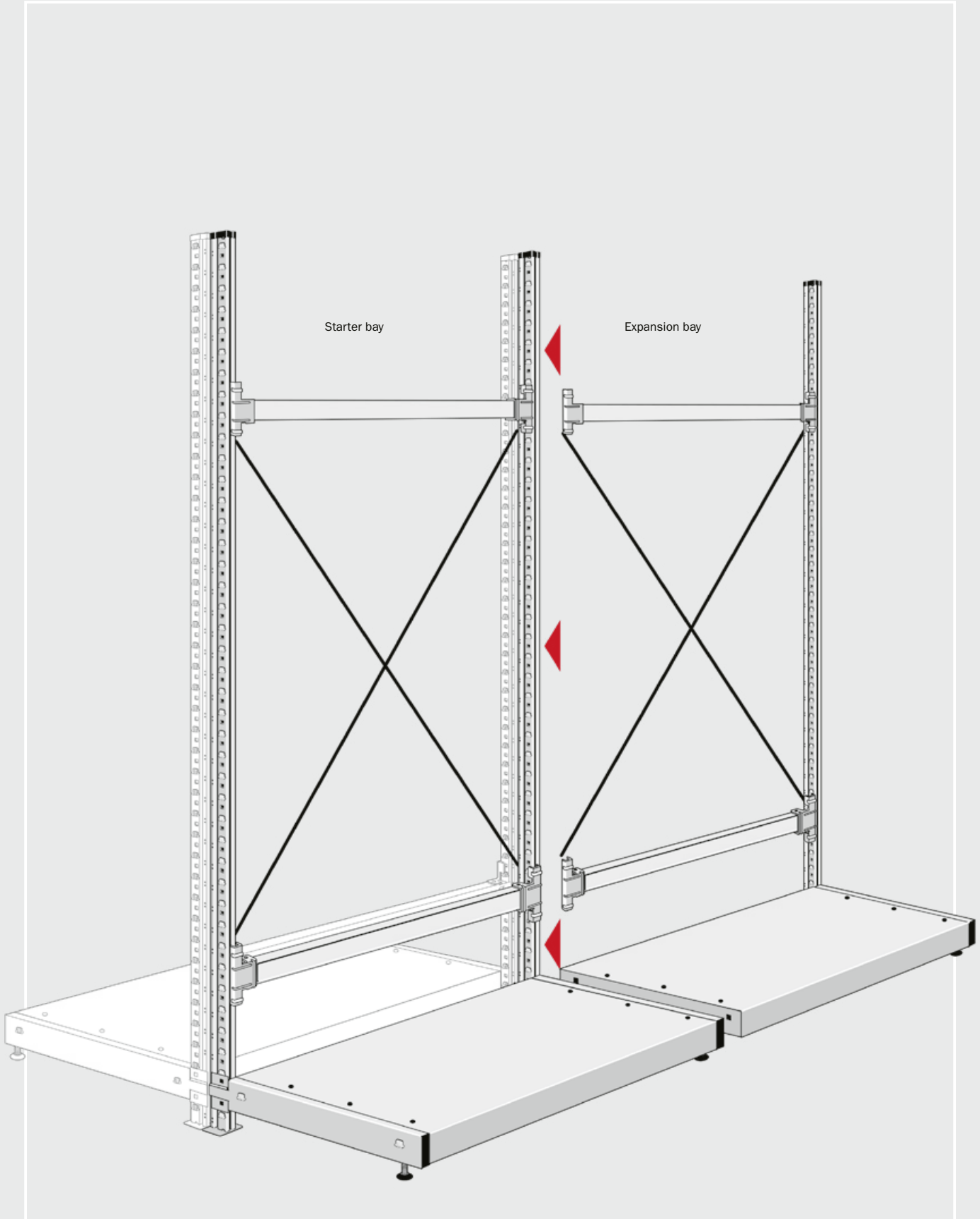


Dividing pins



Frame connector

Rack components



Rack components and accessories

LIGHT SILVER

GALVANIZED



Shelves



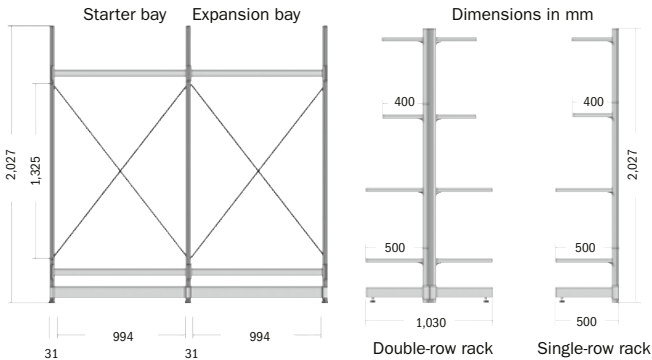
Dividing pins
Cantilever brackets
Frame connector
Trays

► **Shelves**

The maximum load-carrying capacity can only be used with the starter bay design

► **Starter bay/expansion bay**

Clear bay width 994 mm



Starter bay

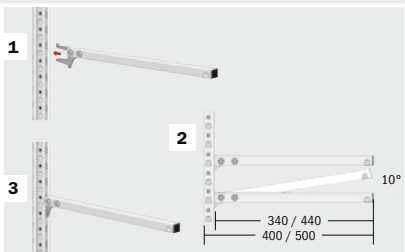
2 uprights with foot – single sided, 2 beams, 1 cross brace, 1 base shelf.

| Item | Width (mm) | Height (mm) | Order no. |
|------------|------------|-------------|-----------|
| FR 31020 G | 994 | 2,027 | 145690 |

Expansion bay

1 upright with foot – single sided, 2 beams, 1 cross brace, 1 base shelf.

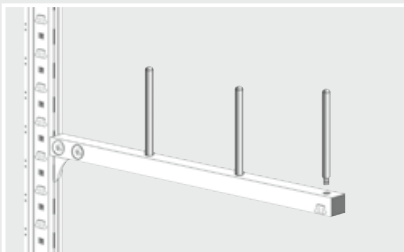
| Item | Width (mm) | Height (mm) | Order no. |
|------------|------------|-------------|-----------|
| FR 31020 A | 994 | 2,027 | 145700 |



Cantilever arms

Sheet steel, galvanized. For attaching shelves and trays. Load capacity 50 kg.

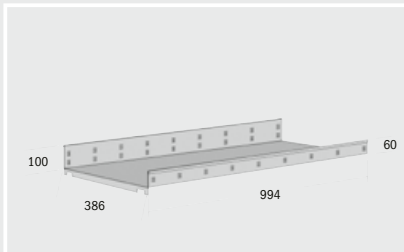
| Item | Rack depth (mm) | Usable depth (mm) | Order no. |
|----------|-----------------|-------------------|-----------|
| KK 34050 | 400 | 340 | 145740 |
| KK 35050 | 500 | 440 | 145760 |



Dividing pins

Steel, galvanized. Dividing pins for partitioning the cantilever arms.

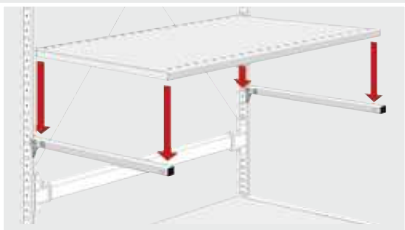
| Item | Order no. |
|----------|-----------|
| AST 3100 | 145770 |



Tray

Sheet steel, galvanized. External depth 400 mm, internal 386 mm. Load-bearing capacity of 50 kg per storage level.

| Item | Order no. |
|--------------|---------------|
| LW 31010 | Tray 145790 |
| LWT 386/2386 | Divider 18220 |

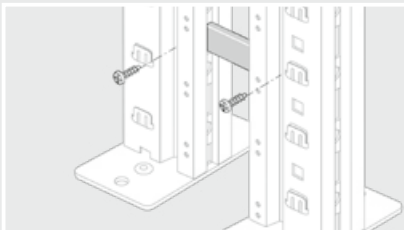


Shelves

Sheet steel, powder-coated light silver. 30 mm high. The shelves feature rows of slots with a 41 mm spacing. Free-standing dividers can be inserted into the slots for lengthwise partitioning.

Note: The maximum load capacity can only be used with the starter bay design.

| Item | Rack depth (mm) | Order no. |
|-----------|-----------------|-----------|
| ZB 4413 L | 400 | 27010 |
| ZB 4513 L | 500 | 27030 |

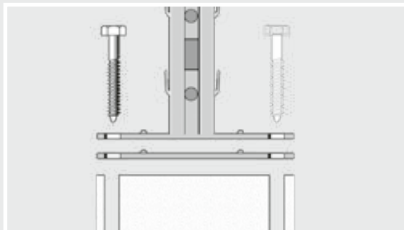


Frame connector

Sheet steel, galvanized. For connecting double-row rack bays. 30 mm spacing.

Incl. fixing kit.

| Item | Order no. |
|---------|-----------|
| RV 3030 | 147090 |



Floor fixing

Screw anchor for anchoring the racks to the floor.

| Item | Order no. |
|------------|-----------|
| HUS3-H6x60 | 6671728 |

Order no. = on stock

Clear bay width 1,282 mm and further accessories

on request

Modular shelving

Longspan racking

Pallet racking

Cantilever racking

On-line shelving/ KDR shelving

Customer Service & Support

Cantilever racking for light to medium loads

No tools are required to adjust the position of the cantilever arms. The hooked cantilever arms allow quick adaption to periodically varying heights of goods to be stored. The KRM cantilever racking system is the right choice for single- or double-sided storage, partitioning the cantilever arm or using storage trays.



GALVANIZED



Cantilever upright

GENTIAN BLUE



Feet,
Cantilever arms

RAL 5010

- ▶ **Load-bearing capacity**
Up to 2,300 kg per rack side with uniform height division
- ▶ **System hole pattern**
adjustable in steps of 50 mm
- ▶ **Bolting system**
Uprights are connected by horizontal braces and reinforced by cross braces every 4th rack bay
- ▶ **On-line racking and storage**
of pipes, profiles or long, bulky materials
- ▶ **Easy assembly**
with only a few components
- ▶ **Single- or double-sided racks**
- ▶ **Hooked-in cantilever arms**
enable tool-free height adjustment
- ▶ **Robust construction**
- ▶ **Sturdy base**

KRM system design



Cantilever arms
page D10



Dividing pins
page D11

Storage trays
page D11

Cantilever upright
(single-sided)
page D10

Horizontal braces
page D10

Cantilever uprights
(double-sided)
page D10

Cross braces
page D11



Load sign



Cantilever arm



Dividing pins



Storage tray



Horizontal brace



KRM cantilever uprights and accessories

GALVANIZED



Cantilever upright

GENTIAN BLUE



Feet, Cantilever arms

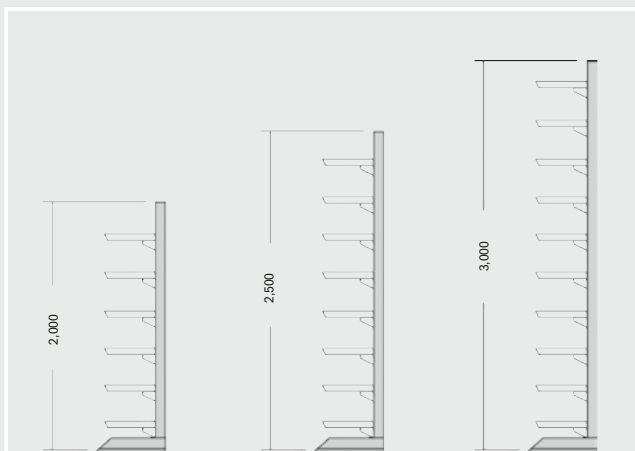
RAL 5010

Uprights

Load specification below applicable at uniform height distribution of cantilever arms

Cantilever arms

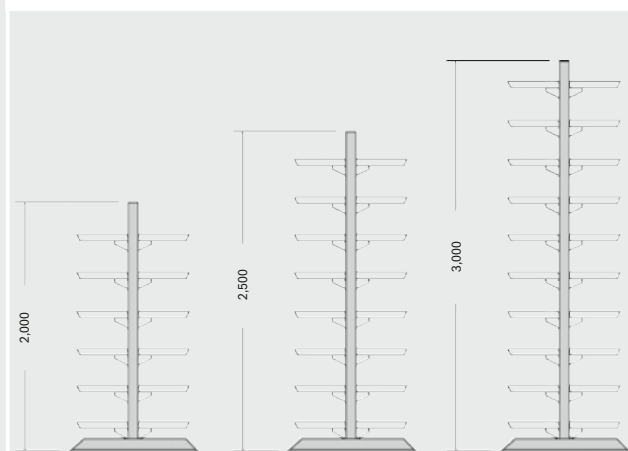
Load specification below applicable at uniformly distributed load



Uprights, single-sided

Steel, galvanized. Height adjustment pattern 50 : 50 mm, foot profiles made of angled profiles in Gentian Blue RAL 5010 allowing an uniform distribution of the load on the floor. 2 horizontal braces are required to connect the cantilever uprights.

| Item | Upright height (mm) | Usable depth (mm) | Total depth (mm) | Load (kg) | Order no. |
|----------------|---------------------|-------------------|------------------|-----------|-----------|
| KRM-KASE200400 | 2,000 | 400 | 700 | 2,300 | 6689906 |
| KRM-KASE200500 | | 500 | 800 | 1,900 | 6689907 |
| KRM-KASE200600 | | 600 | 900 | 1,650 | 6689908 |
| KRM-KASE200800 | | 800 | 1,100 | 1,200 | 6689909 |
| KRM-KASE250400 | 2,500 | 400 | 700 | 2,150 | 6689910 |
| KRM-KASE250500 | | 500 | 800 | 1,750 | 6689911 |
| KRM-KASE250600 | | 600 | 900 | 1,500 | 6689912 |
| KRM-KASE250800 | | 800 | 1,100 | 1,000 | 6689913 |
| KRM-KASE300400 | 3,000 | 400 | 700 | 2,000 | 6689914 |
| KRM-KASE300500 | | 500 | 800 | 1,600 | 6689915 |
| KRM-KASE300600 | | 600 | 900 | 1,350 | 6689916 |
| KRM-KASE300800 | | 800 | 1,100 | 950 | 6689917 |



Uprights, double-sided

Steel, galvanized. Height adjustment pattern 50 : 50 mm, foot profiles made of angled profiles in Gentian Blue RAL 5010 allowing an uniform distribution of the load on the floor. 2 horizontal braces are required to connect the cantilever uprights.

| Item | Upright height (mm) | Usable depth (mm) | Total depth (mm) | Load (kg/side) | Order no. |
|----------------|---------------------|-------------------|------------------|----------------|-----------|
| KRM-KASD200400 | 2,000 | 400 | 1,040 | 2,300 | 6689918 |
| KRM-KASD200500 | | 500 | 1,240 | 1,900 | 6689919 |
| KRM-KASD200600 | | 600 | 1,440 | 1,650 | 6689920 |
| KRM-KASD200800 | | 800 | 1,840 | 1,200 | 6689921 |
| KRM-KASD250400 | 2,500 | 400 | 1,040 | 2,150 | 6689922 |
| KRM-KASD250500 | | 500 | 1,240 | 1,750 | 6689923 |
| KRM-KASD250600 | | 600 | 1,440 | 1,500 | 6689924 |
| KRM-KASD250800 | | 800 | 1,840 | 1,000 | 6689925 |
| KRM-KASD300400 | 3,000 | 400 | 1,040 | 2,000 | 6689926 |
| KRM-KASD300500 | | 500 | 1,240 | 1,600 | 6689927 |
| KRM-KASD300600 | | 600 | 1,440 | 1,350 | 6689928 |
| KRM-KASD300800 | | 800 | 1,840 | 950 | 6689929 |



Horizontal braces

Steel, galvanized. 2 horizontal braces required to connect cantilever uprights.

| Item | Center distance (mm) | Order no. |
|----------|----------------------|-----------|
| KRM-LV06 | 600 | 6689930 |
| KRM-LV08 | 800 | 6689931 |
| KRM-LV10 | 1,000 | 6689932 |
| KRM-LV12 | 1,250 | 6689933 |
| KRM-LV15 | 1,500 | 6689934 |



Cantilever arms

Steel, painted: Gentian Blue, RAL 5010. Adjustable without tools, adjusting pattern 50 : 50 mm, including holes for dividing pins.

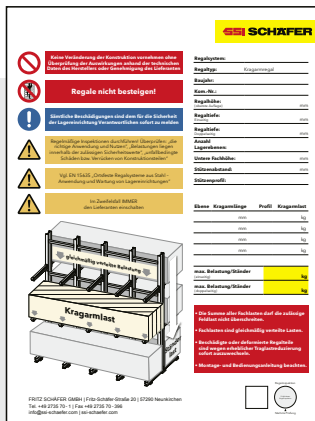
| Item | Cantilever arm length (mm) | Load (kg) | Order no. |
|-----------|----------------------------|-----------|-----------|
| KRM-KA400 | 400 | 350 | 6689902 |
| KRM-KA500 | 500 | 300 | 6689903 |
| KRM-KA600 | 600 | 250 | 6689904 |
| KRM-KA800 | 800 | 180 | 6689905 |

Order no. = on stock

KRM accessories

Mandatory labeling

The regulations of the trade associations demand labeling of rack installations with all the necessary load specifications



Load signs

| Item | Width (mm) | Height (mm) | Type | Order no. |
|-----------|------------|-------------|-----------------------------|-----------|
| KRTS 7050 | 450 | 600 | Aluminum, incl. fixing kit. | on req.* |
| TS 0615 | 60 | 150 | PVC adhesive film | on req.* |

* The technical data necessary for the load sign would be researched on hourly base and invoiced together with load sign cost.

Floor anchor

Cantilever racks are fixed to floor by expansion anchors to ensure stability. For single-sided cantilever racking 6, for double-sided cantilever racking 6 pieces are required.



| Item | Order no. |
|----------------------------------|-----------|
| BA 10 SL M 10 expansion anchor | 67030 |



Dividing pins

Steel, galvanized. Made of tube profile, including screw fastening.

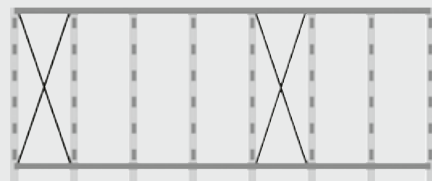
| Item | Usable height (mm) | Order no. |
|---------|--------------------|-----------|
| KED 105 | 50 | 124250 |
| KED 110 | 100 | 124260 |
| KED 115 | 150 | 124270 |



Storage trays

Sheet steel, galvanized, 250 mm high. For storing of residual pieces, plastic pipes, hoses, etc.

| Item | For usable depth/ cantilever arm length (mm) | Internal width (mm) | Length (mm) | Panel thickness (mm) | Order no. |
|----------|--|---------------------|-------------|----------------------|-----------|
| KLW 1542 | 400 | 360 | 1,500 | 2.0 | 124510 |
| KLW 2042 | | | 2,000 | 2.0 | 124130 |
| KLW 2043 | | | 2,000 | 3.0 | 124520 |
| KLW 2543 | | | 2,500 | 3.0 | 124530 |
| KLW 1552 | 500 | 460 | 1,500 | 2.0 | 124540 |
| KLW 1553 | | | 1,500 | 3.0 | 124550 |
| KLW 2053 | | | 2,000 | 3.0 | 124560 |
| KLW 2553 | | | 2,500 | 3.0 | 124570 |
| KLW 1563 | 600 | 560 | 1,500 | 3.0 | 124580 |
| KLW 2063 | | | 2,000 | 3.0 | 124210 |
| KLW 2563 | | | 2,500 | 3.0 | 124590 |



Cross braces

Steel, painted: Gentian Blue, RAL 5010. Cross braces are required for every fourth rack bay in order to stabilize the racks. Includes fixing kit.

| Item | Center distance (mm) | Upright height (mm) | Order no. |
|---------------|----------------------|---------------------|-----------|
| KRM-KVB200060 | 600 | 2,000 | 6689935 |
| KRM-KVB250060 | | 2,500 | 6689940 |
| KRM-KVB300060 | | 3,000 | 6689945 |
| KRM-KVB200080 | 800 | 2,000 | 6689936 |
| KRM-KVB250080 | | 2,500 | 6689941 |
| KRM-KVB300080 | | 3,000 | 6689946 |
| KRM-KVB200100 | 1,000 | 2,000 | 6689937 |
| KRM-KVB250100 | | 2,500 | 6689942 |
| KRM-KVB300100 | | 3,000 | 6689947 |
| KRM-KVB200125 | 1,250 | 2,000 | 6689938 |
| KRM-KVB250125 | | 2,500 | 6689943 |
| KRM-KVB300125 | | 3,000 | 6689948 |
| KRM-KVB200150 | 1,500 | 2,000 | 6689939 |
| KRM-KVB250150 | | 2,500 | 6689944 |
| KRM-KVB300150 | | 3,000 | 6689949 |

Modular shelving

Longspan racking

Pallet racking

Cantilever racking

On-line shelving/ KDR shelving

Customer Service & Support

Cantilever racking for medium to heavy loads



Cantilever racking for medium and heavy loads is utilized for an extensive range of warehousing applications. The requirements are diverse. As such, the storage system has to be adapted to goods and not vice versa.

The KRS system has limitless versatility with regard to dimensions and capacity. The usage options range from manual to automated operation, stationary or mobile.

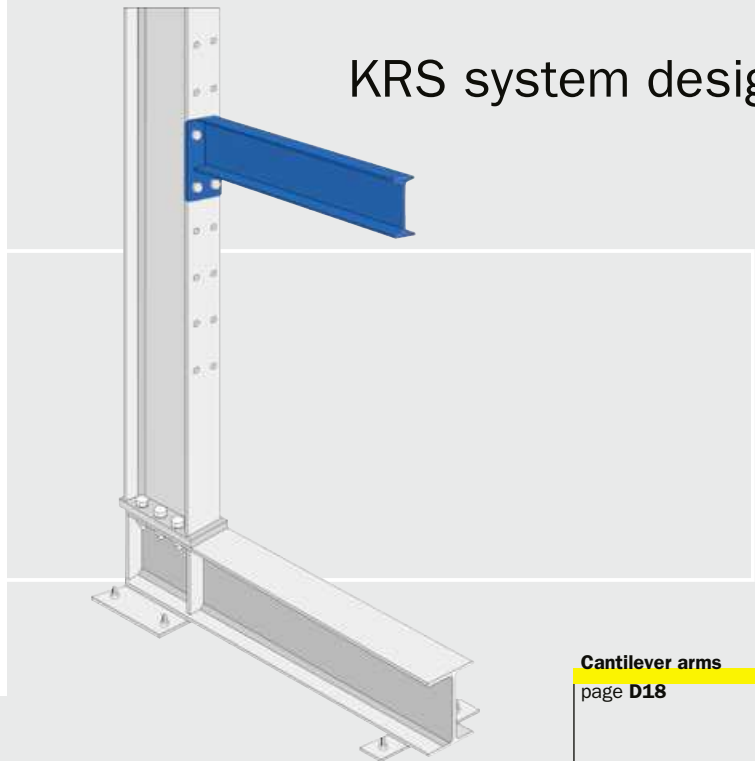


DUST GRAY GENTIAN BLUE RAPESEED YELLOW GALVANIZED

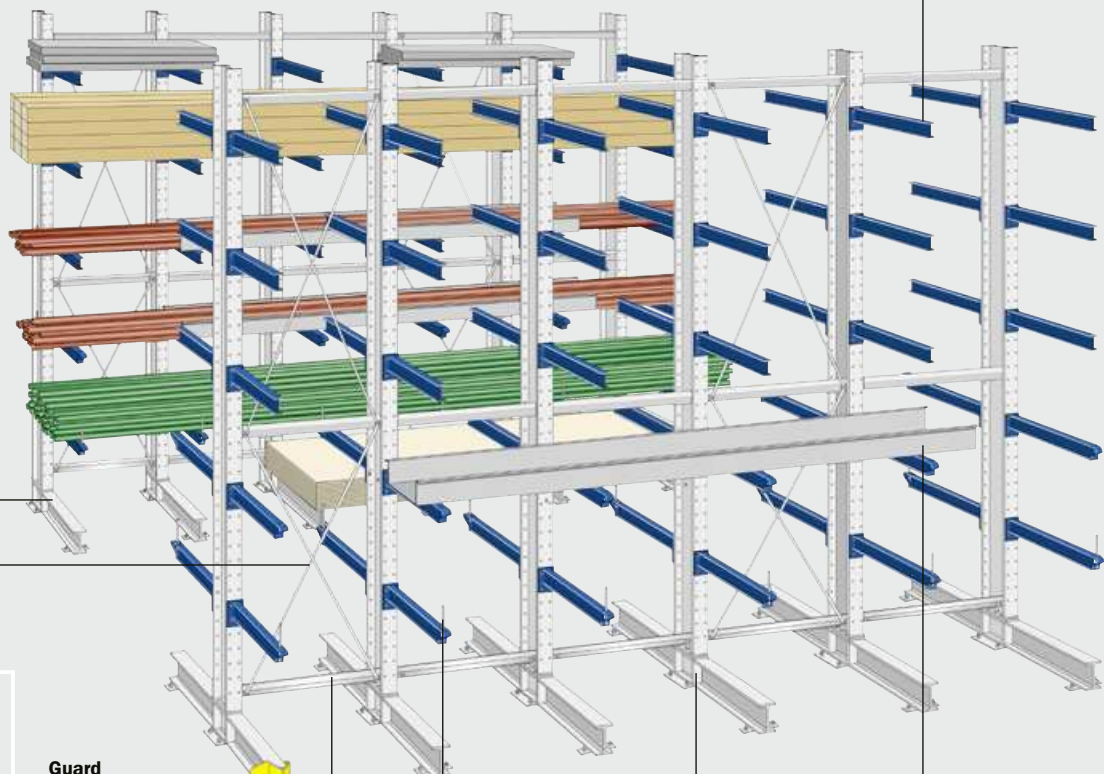


- ▶ **Load-bearing capacity**
up to 14,000 kg per rack side with uniform height division
- ▶ **Height adjustment pattern**
adjustable in steps of 100 mm
- ▶ **Upright design made of bolted uprights and foot profiles**
Can also be retrofitted by replacing the foot profiles – between single and double-face designs
- ▶ **Bolting system**
upright profiles are bolted together with horizontal braces to form rack rows and reinforced with cross braces in every 4th rack bay
- ▶ **Storage**
of heavy, bulky materials and goods
- ▶ **Universally usable**
for manual or automated operation, stationary or mobile installations possible
- ▶ **Easy assembly**
with only a few components
- ▶ **Single- or double-sided racks**
- ▶ **Bolted cantilever arms**
- ▶ **Robust construction**

KRS system design



Cantilever arms
page D18



Cantilever upright (single-sided)
page D14 – D15

Cross braces
page D20

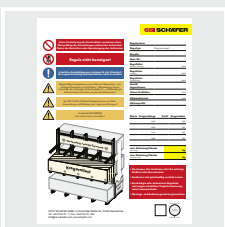
Guard
page D20

Horizontal braces
page D20

End stop
page D21

Cantilever upright (double-sided)
page D16 – D17

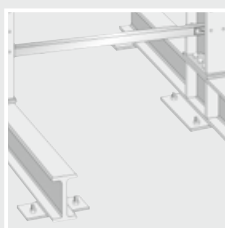
Storage trays
page D19



Load sign



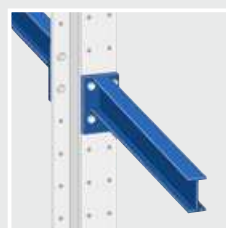
Guard



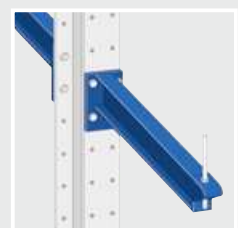
Horizontal braces



Storage tray



Bolted cantilever arm



Cantilever arm with end stop

Modular shelving

Longspan racking

Pallet racking

Cantilever racking

On-line shelving/ KDR shelving

Customer Service & Support



DUST GRAY



Cantilever upright

RAL 7037

KRS single-sided cantilever uprights

► High stability

the upright and foot profiles are made of solid, hot rolled IPE profiles and are bolted together to create a stable cantilever upright. The foot profiles safely transfer the loads to the floor.

The structural design is effected according to EN and FEM and corresponds to the provisions of the German standard of DG-UV 108-007.

► Height adjustment pattern

with adjustment spacing 100 : 100 mm

► Material and finish

steel, painted: Dust Gray, RAL 7037

► Cantilever uprights

Load specifications apply to each side of the rack in the case of uniform height distribution of the cantilever arms



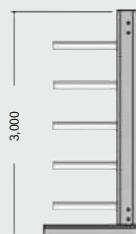
Other upright heights and usage depths

on request



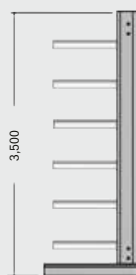
Upright height 2,500 mm

| Item | Usable depth (mm) | Total depth (mm) | Upright profile | Load (kg) | Order no. |
|-------------|-------------------|------------------|-----------------|-----------|-----------|
| KSEX 250418 | 400 | 640 | IPE 180 | 6,110 | 661280 |
| KSEX 250618 | 600 | 840 | IPE 180 | 4,800 | 661282 |
| KSEX 250818 | 800 | 1,040 | IPE 180 | 3,900 | 661283 |
| KSEX 251018 | 1,000 | 1,240 | IPE 180 | 3,340 | 661284 |
| KSEX 251218 | 1,250 | 1,490 | IPE 180 | 2,610 | 661285 |



Upright height 3,000 mm

| | | | | | |
|-------------|-------|-------|---------|-------|--------|
| KSEX 300418 | 400 | 640 | IPE 180 | 5,300 | 661287 |
| KSEX 300420 | | 660 | IPE 200 | 7,140 | 661308 |
| KSEX 300618 | 600 | 840 | IPE 180 | 4,170 | 661289 |
| KSEX 300620 | | 860 | IPE 200 | 5,730 | 661310 |
| KSEX 300818 | 800 | 1,040 | IPE 180 | 3,560 | 661290 |
| KSEX 300820 | | 1,060 | IPE 200 | 4,750 | 661311 |
| KSEX 301018 | 1,000 | 1,240 | IPE 180 | 3,025 | 661291 |
| KSEX 301020 | | 1,260 | IPE 200 | 4,155 | 661312 |
| KSEX 301218 | 1,250 | 1,490 | IPE 180 | 2,280 | 661292 |
| KSEX 301220 | | 1,510 | IPE 200 | 3,375 | 661313 |



Upright height 3,500 mm

| | | | | | |
|-------------|-------|-------|---------|-------|--------|
| KSEX 350618 | 600 | 840 | IPE 180 | 4,690 | 661294 |
| KSEX 350620 | | 860 | IPE 200 | 6,515 | 661315 |
| KSEX 350622 | | 880 | IPE 220 | 8,520 | 661336 |
| KSEX 350818 | 800 | 1,040 | IPE 180 | 3,380 | 661295 |
| KSEX 350820 | | 1,060 | IPE 200 | 5,000 | 661316 |
| KSEX 350822 | | 1,080 | IPE 220 | 7,000 | 661337 |
| KSEX 351018 | 1,000 | 1,240 | IPE 180 | 2,590 | 661296 |
| KSEX 351020 | | 1,260 | IPE 200 | 3,830 | 661317 |
| KSEX 351022 | | 1,280 | IPE 220 | 5,510 | 661338 |
| KSEX 351218 | 1,250 | 1,490 | IPE 180 | 1,965 | 661297 |
| KSEX 351220 | | 1,510 | IPE 200 | 2,910 | 661318 |
| KSEX 351222 | | 1,530 | IPE 220 | 4,185 | 661339 |
| KSEX 351518 | 1,500 | 1,740 | IPE 180 | 1,535 | 661298 |
| KSEX 351520 | | 1,760 | IPE 200 | 2,295 | 661319 |
| KSEX 351522 | | 1,780 | IPE 220 | 3,310 | 661340 |
| KSEX 352018 | 2,000 | 2,240 | IPE 180 | 1,010 | 661300 |
| KSEX 352020 | | 2,260 | IPE 200 | 1,530 | 661321 |
| KSEX 352022 | | 2,280 | IPE 220 | 2,230 | 661342 |

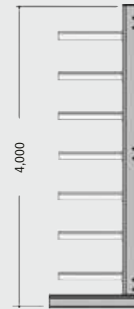
Order no. = on stock

► **Floor anchor**
see page D19

KRS single-sided cantilever uprights

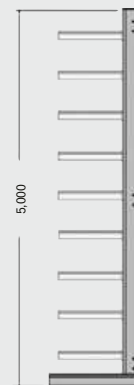
Upright height 4,000 mm

| Item | Usable depth (mm) | Total depth (mm) | Upright profile | Load (kg) | Order no. |
|-------------|-------------------|------------------|-----------------|-----------|-----------|
| KSEX 400620 | 600 | 860 | IPE 200 | 5,980 | 661322 |
| KSEX 400622 | | 880 | IPE 220 | 8,400 | 661343 |
| KSEX 400624 | | 900 | IPE 240 | 10,700 | 661371 |
| KSEX 400820 | 800 | 1,060 | IPE 200 | 4,360 | 661323 |
| KSEX 400822 | | 1,080 | IPE 220 | 6,250 | 661344 |
| KSEX 400824 | | 1,100 | IPE 240 | 8,800 | 661372 |
| KSEX 401020 | 1,000 | 1,260 | IPE 200 | 3,360 | 661324 |
| KSEX 401022 | | 1,280 | IPE 220 | 4,830 | 661345 |
| KSEX 401024 | | 1,300 | IPE 240 | 6,810 | 661373 |
| KSEX 401220 | 1,250 | 1,510 | IPE 200 | 2,550 | 661325 |
| KSEX 401222 | | 1,530 | IPE 220 | 3,670 | 661346 |
| KSEX 401224 | | 1,550 | IPE 240 | 5,200 | 661374 |
| KSEX 401520 | 1,500 | 1,760 | IPE 200 | 2,020 | 661326 |
| KSEX 401522 | | 1,780 | IPE 220 | 2,920 | 661347 |
| KSEX 401524 | | 1,800 | IPE 240 | 4,140 | 661375 |
| KSEX 402020 | 2,000 | 2,260 | IPE 200 | 1,340 | 661328 |
| KSEX 402022 | | 2,280 | IPE 220 | 1,960 | 661349 |
| KSEX 402024 | | 2,300 | IPE 240 | 2,810 | 661377 |



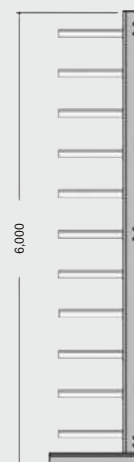
Upright height 5,000 mm

| | | | | | |
|-------------|-------|-------|---------|--------|--------|
| KSEX 500622 | 600 | 880 | IPE 220 | 6,670 | 661357 |
| KSEX 500624 | | 900 | IPE 240 | 9,360 | 661385 |
| KSEX 500627 | | 930 | IPE 270 | 14,010 | 661420 |
| KSEX 500822 | 800 | 1,080 | IPE 220 | 4,880 | 661358 |
| KSEX 500824 | | 1,100 | IPE 240 | 6,870 | 661386 |
| KSEX 500827 | | 1,130 | IPE 270 | 10,260 | 661421 |
| KSEX 501022 | 1,000 | 1,280 | IPE 220 | 3,780 | 661359 |
| KSEX 501024 | | 1,300 | IPE 240 | 5,350 | 661387 |
| KSEX 501027 | | 1,330 | IPE 270 | 7,960 | 661422 |
| KSEX 501222 | 1,250 | 1,530 | IPE 220 | 2,890 | 661360 |
| KSEX 501224 | | 1,550 | IPE 240 | 4,090 | 661388 |
| KSEX 501227 | | 1,580 | IPE 270 | 6,140 | 661423 |
| KSEX 501522 | 1,500 | 1,780 | IPE 220 | 2,280 | 661361 |
| KSEX 501524 | | 1,800 | IPE 240 | 3,250 | 661389 |
| KSEX 501527 | | 1,830 | IPE 270 | 4,910 | 661424 |
| KSEX 502022 | 2,000 | 2,280 | IPE 220 | 1,550 | 661363 |
| KSEX 502024 | | 2,300 | IPE 240 | 2,230 | 661391 |
| KSEX 502027 | | 2,330 | IPE 270 | 3,400 | 661426 |



Upright height 6,000 mm

| | | | | | |
|-------------|-------|-------|---------|--------|--------|
| KSEX 600624 | 600 | 900 | IPE 240 | 7,590 | 661399 |
| KSEX 600627 | | 930 | IPE 270 | 11,420 | 661434 |
| KSEX 600824 | 800 | 1,100 | IPE 240 | 5,640 | 661400 |
| KSEX 600827 | | 1,130 | IPE 270 | 8,360 | 661435 |
| KSEX 600830 | | 1,160 | IPE 300 | 12,140 | 661463 |
| KSEX 601024 | 1,000 | 1,300 | IPE 240 | 4,370 | 661401 |
| KSEX 601027 | | 1,330 | IPE 270 | 6,570 | 661436 |
| KSEX 601030 | | 1,360 | IPE 300 | 9,530 | 661464 |
| KSEX 601224 | 1,250 | 1,550 | IPE 240 | 3,350 | 661402 |
| KSEX 601227 | | 1,580 | IPE 270 | 5,050 | 661437 |
| KSEX 601230 | | 1,610 | IPE 300 | 7,390 | 661465 |
| KSEX 601524 | 1,500 | 1,800 | IPE 240 | 2,690 | 661403 |
| KSEX 601527 | | 1,830 | IPE 270 | 4,070 | 661438 |
| KSEX 601530 | | 1,860 | IPE 300 | 5,940 | 661466 |
| KSEX 602024 | 2,000 | 2,300 | IPE 240 | 1,820 | 661405 |
| KSEX 602027 | | 2,330 | IPE 270 | 2,790 | 661440 |
| KSEX 602030 | | 2,360 | IPE 300 | 4,120 | 661468 |



Modular shelving

Longspan racking

Pallet racking

Cantilever racking

On-line shelving/ KDR shelving

Customer Service & Support

KRS double-sided cantilever uprights



DUST GRAY



Cantilever upright

► **High stability**

the upright and foot profiles are made of solid, hot rolled IPE profiles and are bolted together to create a stable cantilever upright. The foot profiles safely transfer the loads to the floor.

The structural design is effected according to EN and FEM and corresponds to the provisions of the German standard of DG-UV 108-007.

► **Height adjustment pattern**

with adjustment spacing 100 : 100 mm

► **Material and finish**

steel, painted: Dust Gray, RAL 7037

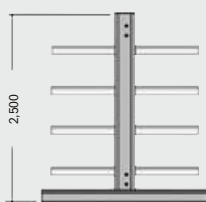
► **Cantilever uprights**

Load specifications apply to each side of the rack in the case of uniform height distribution of the cantilever arms



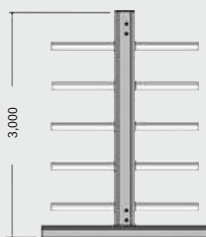
Other upright heights and usage depths

on request



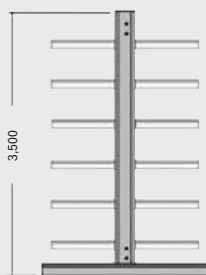
Upright height 2,500 mm

| Item | Usable depth (mm) | Total depth (mm) | Upright profile | Load (kg/side) | Order no. |
|-------------|-------------------|------------------|-----------------|----------------|-----------|
| KSDX 250418 | 400 | 1,100 | IPE 180 | 6,290 | 661532 |
| KSDX 250618 | 600 | 1,500 | IPE 180 | 4,940 | 661534 |
| KSDX 250818 | 800 | 1,900 | IPE 180 | 4,050 | 661535 |
| KSDX 251018 | 1,000 | 2,300 | IPE 180 | 3,470 | 661536 |
| KSDX 251218 | 1,250 | 2,800 | IPE 180 | 2,710 | 661537 |



Upright height 3,000 mm

| | | | | | |
|-------------|-------|-------|---------|-------|--------|
| KSDX 300418 | 400 | 1,100 | IPE 180 | 5,450 | 661539 |
| KSDX 300420 | | 1,120 | IPE 200 | 7,350 | 661560 |
| KSDX 300618 | 600 | 1,500 | IPE 180 | 4,290 | 661541 |
| KSDX 300620 | | 1,520 | IPE 200 | 5,900 | 661562 |
| KSDX 300818 | 800 | 1,900 | IPE 180 | 3,700 | 661542 |
| KSDX 300820 | | 1,920 | IPE 200 | 4,940 | 661563 |
| KSDX 301018 | 1,000 | 2,300 | IPE 180 | 3,140 | 661543 |
| KSDX 301020 | | 2,320 | IPE 200 | 4,320 | 661564 |
| KSDX 301218 | 1,250 | 2,800 | IPE 180 | 2,390 | 661544 |
| KSDX 301220 | | 2,820 | IPE 200 | 3,540 | 661565 |



Upright height 3,500 mm

| | | | | | |
|-------------|-------|-------|---------|-------|--------|
| KSDX 350618 | 600 | 1,500 | IPE 180 | 4,870 | 661546 |
| KSDX 350620 | | 1,520 | IPE 200 | 6,710 | 661567 |
| KSDX 350622 | | 1,540 | IPE 220 | 8,770 | 661588 |
| KSDX 350818 | 800 | 1,900 | IPE 180 | 3,480 | 661547 |
| KSDX 350820 | | 1,920 | IPE 200 | 5,150 | 661568 |
| KSDX 350822 | | 1,940 | IPE 220 | 7,210 | 661589 |
| KSDX 351018 | 1,000 | 2,300 | IPE 180 | 2,690 | 661548 |
| KSDX 351020 | | 2,320 | IPE 200 | 3,980 | 661569 |
| KSDX 351022 | | 2,340 | IPE 220 | 5,730 | 661590 |
| KSDX 351218 | 1,250 | 2,800 | IPE 180 | 2,040 | 661549 |
| KSDX 351220 | | 2,820 | IPE 200 | 3,020 | 661570 |
| KSDX 351222 | | 2,840 | IPE 220 | 4,350 | 661591 |
| KSDX 351518 | 1,500 | 3,300 | IPE 180 | 1,610 | 661550 |
| KSDX 351520 | | 3,320 | IPE 200 | 2,410 | 661571 |
| KSDX 351522 | | 3,340 | IPE 220 | 3,475 | 661592 |
| KSDX 352018 | 2,000 | 4,300 | IPE 180 | 1,080 | 661552 |
| KSDX 352020 | | 4,320 | IPE 200 | 1,630 | 661573 |
| KSDX 352022 | | 4,340 | IPE 220 | 2,380 | 661594 |

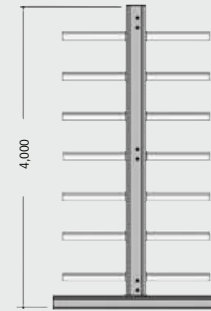
Order no. = on stock

► **Floor anchor**
see page D19

KRS double-sided cantilever uprights

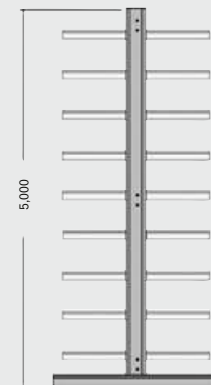
Upright height 4,000 mm

| Item | Usable depth (mm) | Total depth (mm) | Upright profile | Load (kg/side) | Order no. |
|-------------|-------------------|------------------|-----------------|----------------|-----------|
| KSDX 400620 | 600 | 1,520 | IPE 200 | 6,150 | 661574 |
| KSDX 400622 | | 1,540 | IPE 220 | 8,650 | 661595 |
| KSDX 400624 | | 1,560 | IPE 240 | 11,020 | 661623 |
| KSDX 400820 | 800 | 1,920 | IPE 200 | 4,490 | 661575 |
| KSDX 400822 | | 1,940 | IPE 220 | 6,430 | 661596 |
| KSDX 400824 | | 1,960 | IPE 240 | 9,060 | 661624 |
| KSDX 401020 | 1,000 | 2,320 | IPE 200 | 3,490 | 661576 |
| KSDX 401022 | | 2,340 | IPE 220 | 5,020 | 661597 |
| KSDX 401024 | | 2,360 | IPE 240 | 7,080 | 661625 |
| KSDX 401220 | 1,250 | 2,820 | IPE 200 | 2,650 | 661577 |
| KSDX 401222 | | 2,840 | IPE 220 | 3,810 | 661598 |
| KSDX 401224 | | 2,860 | IPE 240 | 5,400 | 661626 |
| KSDX 401520 | 1,500 | 3,320 | IPE 200 | 2,120 | 661578 |
| KSDX 401522 | | 3,340 | IPE 220 | 3,060 | 661599 |
| KSDX 401524 | | 3,360 | IPE 240 | 4,340 | 661627 |
| KSDX 402020 | 2,000 | 4,320 | IPE 200 | 1,430 | 661580 |
| KSDX 402022 | | 4,340 | IPE 220 | 2,090 | 661601 |
| KSDX 402024 | | 4,360 | IPE 240 | 3,000 | 661629 |



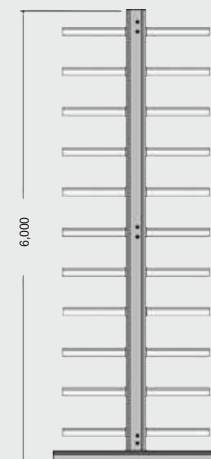
Upright height 5,000 mm

| | | | | | |
|--------------|-------|-------|---------|--------|--------|
| KSDX 500622 | 600 | 1,540 | IPE 220 | 6,870 | 661609 |
| KSDX 500624 | | 1,560 | IPE 240 | 9,670 | 661637 |
| KSDX 500627 | | 1,590 | IPE 270 | 14,410 | 661672 |
| KSDX 500822 | 800 | 1,940 | IPE 220 | 5,020 | 661610 |
| KSDX 500824 | | 1,960 | IPE 240 | 7,070 | 661638 |
| KSDX 500827 | | 1,990 | IPE 270 | 10,560 | 661673 |
| KSDX 501022 | 1,000 | 2,340 | IPE 220 | 3,930 | 661611 |
| KSDX 501024 | | 2,360 | IPE 240 | 5,560 | 661639 |
| KSDX 501027 | | 2,390 | IPE 270 | 8,270 | 661674 |
| KSDX 501222 | 1,250 | 2,840 | IPE 220 | 3,005 | 661612 |
| KSDX 501224 | | 2,860 | IPE 240 | 4,250 | 661640 |
| KSDX 501227 | | 2,890 | IPE 270 | 6,380 | 661675 |
| KSDX 501522 | 1,500 | 3,340 | IPE 220 | 2,390 | 661613 |
| KSDX 501524 | | 3,360 | IPE 240 | 3,410 | 661641 |
| KSDXN 501527 | | 3,390 | IPE 270 | 5,150 | 661676 |
| KSDX 502022 | 2,000 | 4,340 | IPE 220 | 1,650 | 661615 |
| KSDX 502024 | | 4,360 | IPE 240 | 2,380 | 661643 |
| KSDX 502027 | | 4,390 | IPE 270 | 3,630 | 661678 |



Upright height 6,000 mm

| | | | | | |
|-------------|-------|-------|---------|--------|--------|
| KSDX 600624 | 600 | 1,560 | IPE 240 | 7,810 | 661651 |
| KSDX 600627 | | 1,590 | IPE 270 | 11,760 | 661686 |
| KSDX 600824 | 800 | 1,960 | IPE 240 | 5,800 | 661652 |
| KSDX 600827 | | 1,990 | IPE 270 | 8,610 | 661687 |
| KSDX 600830 | | 2,020 | IPE 300 | 12,500 | 661715 |
| KSDX 601024 | 1,000 | 2,360 | IPE 240 | 4,540 | 661653 |
| KSDX 601027 | | 2,390 | IPE 270 | 6,830 | 661688 |
| KSDX 601030 | | 2,420 | IPE 300 | 9,910 | 661716 |
| KSDX 601224 | 1,250 | 2,860 | IPE 240 | 3,480 | 661654 |
| KSDX 601227 | | 2,890 | IPE 270 | 5,250 | 661689 |
| KSDX 601230 | | 2,920 | IPE 300 | 7,680 | 661717 |
| KSDX 601524 | 1,500 | 3,360 | IPE 240 | 2,820 | 661655 |
| KSDX 601527 | | 3,390 | IPE 270 | 4,270 | 661690 |
| KSDX 601530 | | 3,420 | IPE 300 | 6,230 | 661718 |
| KSDX 602024 | 2,000 | 4,360 | IPE 240 | 1,940 | 661657 |
| KSDX 602027 | | 4,390 | IPE 270 | 2,980 | 661692 |
| KSDX 602030 | | 4,420 | IPE 300 | 4,405 | 661720 |



Modular shelving

Longspan racking

Pallet racking

Cantilever racking

On-line shelving/ KDR shelving

Customer Service & Support

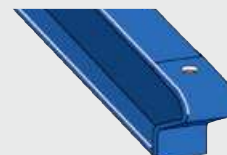


KRS cantilever arms

► **Cantilever arms**
Load specifications apply for uniformly distributed loads

Cantilever arms for IPE 180 and IPE 200 upright profiles

Steel, painted: Gentian Blue, RAL 5010. With welded top plate, optionally with or without deflector. Adjustment 100 : 100 mm.



Without deflector

| Item | Usable depth (mm) | Cantilever arm profile | Load (kg) | Order no. |
|-------------|-------------------|------------------------|-----------|-----------|
| KASX 0408.2 | 400 | INP 80 | 1,445 | 661036 |
| KASX 0410.2 | | INP 100 | 2,415 | 661054 |
| KASX 0608.2 | 600 | INP 80 | 1,030 | 661038 |
| KASX 0610.2 | | INP 100 | 1,755 | 661056 |
| KASX 0808.2 | 800 | INP 80 | 810 | 661039 |
| KASX 0810.2 | | INP 100 | 1,370 | 661057 |
| KASX 1008.2 | 1,000 | INP 80 | 640 | 661040 |
| KASX 1010.2 | | INP 100 | 1,120 | 661058 |
| KASX 1208.2 | 1,250 | INP 80 | 505 | 661041 |
| KASX 1210.2 | | INP 100 | 885 | 661059 |
| KASX 1508.2 | 1,500 | INP 80 | 380 | 661042 |
| KASX 1510.2 | | INP 100 | 730 | 661060 |
| KASX 2008.2 | 2,000 | INP 80 | 215 | 661044 |
| KASX 2010.2 | | INP 100 | 470 | 661062 |

With deflector

| Item | Usable depth (mm) | Cantilever arm profile | Load (kg) | Order no. |
|--------------|-------------------|------------------------|-----------|-----------|
| KASX 0408.2R | 400 | INP 80 | 1,445 | 661045 |
| KASX 0410.2R | | INP 100 | 2,415 | 661063 |
| KASX 0608.2R | 600 | INP 80 | 1,030 | 661047 |
| KASX 0610.2R | | INP 100 | 1,755 | 661065 |
| KASX 0808.2R | 800 | INP 80 | 810 | 661048 |
| KASX 0810.2R | | INP 100 | 1,370 | 661066 |
| KASX 1008.2R | 1,000 | INP 80 | 640 | 661049 |
| KASX 1010.2R | | INP 100 | 1,120 | 661067 |
| KASX 1208.2R | 1,250 | INP 80 | 505 | 661050 |
| KASX 1210.2R | | INP 100 | 885 | 661068 |
| KASX 1508.2R | 1,500 | INP 80 | 380 | 661051 |
| KASX 1510.2R | | INP 100 | 730 | 661069 |
| KASX 2008.2R | 2,000 | INP 80 | 215 | 661053 |
| KASX 2010.2R | | INP 100 | 470 | 661071 |

Cantilever arms for IPE 220 – IPE 300 upright profiles

Steel, painted: Gentian Blue, RAL 5010. With welded top plate, optionally with or without deflector. Adjustment 100 : 100 mm.

Without deflector

| Item | Usable depth (mm) | Cantilever arm profile | Load (kg) | Order no. |
|-------------|-------------------|------------------------|-----------|-----------|
| KASX 0408.3 | 400 | INP 80 | 1,445 | 661108 |
| KASX 0410.3 | | INP 100 | 2,415 | 661126 |
| KASX 0608.3 | 600 | INP 80 | 1,030 | 661110 |
| KASX 0610.3 | | INP 100 | 1,755 | 661128 |
| KASX 0612.3 | | INP 120 | 2,720 | 661144 |
| KASX 0614.3 | | INP 140 | 3,035 | 661158 |
| KASX 0808.3 | 800 | INP 80 | 810 | 661111 |
| KASX 0810.3 | | INP 100 | 1,370 | 661129 |
| KASX 0812.3 | | INP 120 | 2,150 | 661145 |
| KASX 0814.3 | | INP 140 | 3,125 | 661159 |
| KASX 1008.3 | 1,000 | INP 80 | 640 | 661112 |
| KASX 1010.3 | | INP 100 | 1,120 | 661130 |
| KASX 1012.3 | | INP 120 | 1,755 | 661146 |
| KASX 1014.3 | | INP 140 | 2,585 | 661160 |
| KASX 1208.3 | 1,250 | INP 80 | 505 | 661113 |
| KASX 1210.3 | | INP 100 | 885 | 661131 |
| KASX 1212.3 | | INP 120 | 1,420 | 661147 |
| KASX 1214.3 | | INP 140 | 2,110 | 661161 |
| KASX 1508.3 | 1,500 | INP 80 | 380 | 661114 |
| KASX 1510.3 | | INP 100 | 730 | 661132 |
| KASX 1512.3 | | INP 120 | 1,170 | 661148 |
| KASX 1514.3 | | INP 140 | 1,755 | 661162 |
| KASX 2008.3 | 2,000 | INP 80 | 215 | 661116 |
| KASX 2010.3 | | INP 100 | 470 | 661134 |
| KASX 2012.3 | | INP 120 | 850 | 661150 |
| KASX 2014.3 | | INP 140 | 1,285 | 661164 |

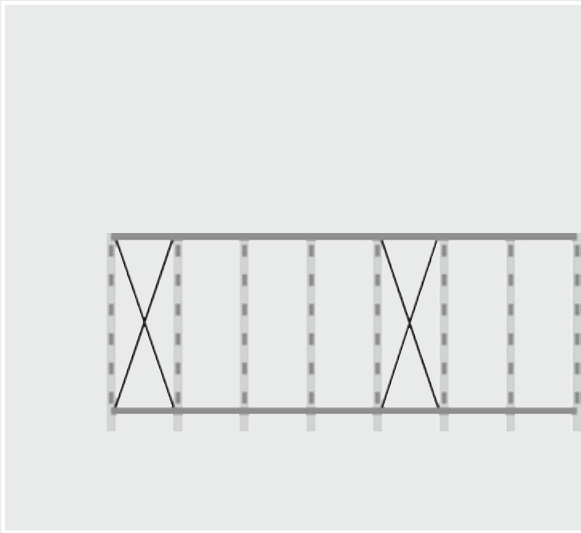
With deflector

| Item | Usable depth (mm) | Cantilever arm profile | Load (kg) | Order no. |
|--------------|-------------------|------------------------|-----------|-----------|
| KASX 0408.3R | 400 | INP 80 | 1,445 | 661117 |
| KASX 0410.3R | | INP 100 | 2,415 | 661135 |
| KASX 0608.3R | 600 | INP 80 | 1,030 | 661119 |
| KASX 0610.3R | | INP 100 | 1,755 | 661137 |
| KASX 0612.3R | | INP 120 | 2,720 | 661151 |
| KASX 0614.3R | | INP 140 | 3,035 | 661165 |
| KASX 0808.3R | 800 | INP 80 | 810 | 661120 |
| KASX 0810.3R | | INP 100 | 1,370 | 661138 |
| KASX 0812.3R | | INP 120 | 2,150 | 661152 |
| KASX 0814.3R | | INP 140 | 3,125 | 661166 |
| KASX 1008.3R | 1,000 | INP 80 | 640 | 661121 |
| KASX 1010.3R | | INP 100 | 1,120 | 661139 |
| KASX 1012.3R | | INP 120 | 1,755 | 661153 |
| KASX 1014.3R | | INP 140 | 2,585 | 661167 |
| KASX 1208.3R | 1,250 | INP 80 | 505 | 661122 |
| KASX 1210.3R | | INP 100 | 885 | 661140 |
| KASX 1212.3R | | INP 120 | 1,420 | 661154 |
| KASX 1214.3R | | INP 140 | 2,110 | 661168 |
| KASX 1508.3R | 1,500 | INP 80 | 380 | 661123 |
| KASX 1510.3R | | INP 100 | 730 | 661141 |
| KASX 1512.3R | | INP 120 | 1,170 | 661155 |
| KASX 1514.3R | | INP 140 | 1,755 | 661169 |
| KASX 2008.3R | 2,000 | INP 80 | 215 | 661125 |
| KASX 2010.3R | | INP 100 | 470 | 661143 |
| KASX 2012.3R | | INP 120 | 850 | 661157 |
| KASX 2014.3R | | INP 140 | 1,285 | 661171 |

Order no. = on stock



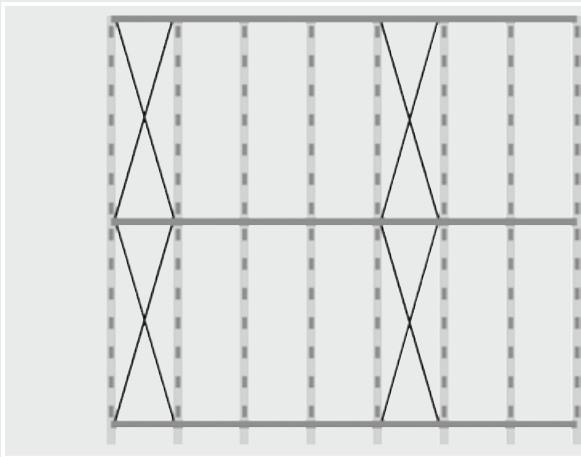
KRS accessories



Single-piece cross braces

Steel, painted: Dust gray, RAL 7037. Cross braces are required for every fourth rack bay in order to stabilize the racks. Includes fixing kit.

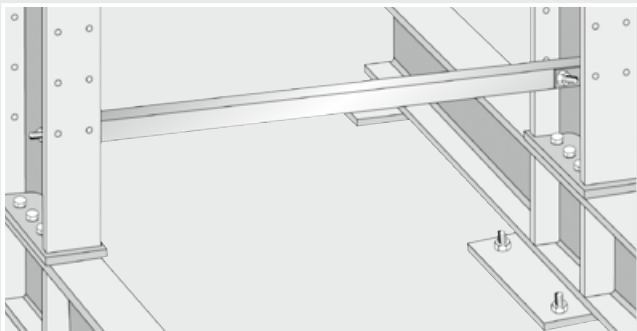
| Item | Center distance (mm) | Upright height (mm) | Order no. |
|------------|----------------------|---------------------|-----------|
| KVBX 25081 | 800 | 2,500 | 6680971 |
| KVBX 30081 | | 3,000 | 6680976 |
| KVBX 35081 | | 3,500 | 6680982 |
| KVBX 25101 | 1,000 | 2,500 | 6680972 |
| KVBX 30101 | | 3,000 | 6680977 |
| KVBX 35101 | | 3,500 | 6680983 |
| KVBX 25121 | 1,250 | 2,500 | 6680973 |
| KVBX 30121 | | 3,000 | 6680978 |
| KVBX 35121 | | 3,500 | 6680984 |
| KVBX 25151 | 1,500 | 2,500 | 6680974 |
| KVBX 30151 | | 3,000 | 6680979 |
| KVBX 35151 | | 3,500 | 6680985 |



Two-piece cross braces

Steel, painted: Dust gray, RAL 7037. Cross braces are required for every fourth rack bay in order to stabilize the racks. Includes fixing kit.

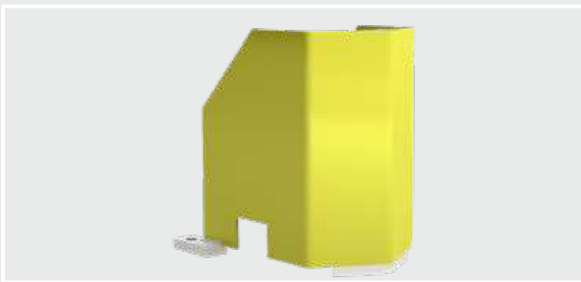
| | | | |
|------------|-------|-------|---------|
| KVBX 40082 | 800 | 4,000 | 6680988 |
| KVBX 50082 | | 5,000 | 6681000 |
| KVBX 60082 | | 6,000 | 6681012 |
| KVBX 40102 | 1,000 | 4,000 | 6680989 |
| KVBX 50102 | | 5,000 | 6681001 |
| KVBX 60102 | | 6,000 | 6681013 |
| KVBX 40122 | 1,250 | 4,000 | 6680990 |
| KVBX 50122 | | 5,000 | 6681002 |
| KVBX 60122 | | 6,000 | 6681014 |
| KVBX 40152 | 1,500 | 4,000 | 6680991 |
| KVBX 50152 | | 5,000 | 6681003 |
| KVBX 60152 | | 6,000 | 6681015 |



Horizontal braces

Steel, galvanized. Horizontal braces are required to connect cantilever uprights. Up to upright height 3,500 mm, 2 horizontal braces, above upright height 4,000 mm 3 horizontal braces are required.

| Item | Center distance (mm) | Order no. |
|---------|----------------------|-----------|
| KLVX 08 | 800 | 661031 |
| KLVX 10 | 1,000 | 661032 |
| KLVX 12 | 1,250 | 661033 |
| KLVX 15 | 1,500 | 661034 |



Guard

Steel, painted: Rapeseed Yellow, RAL 1021. For the foot profiles of the cantilever upright, to protect the tires of the storage-retrieval devices. U-shaped, including floor anchors.

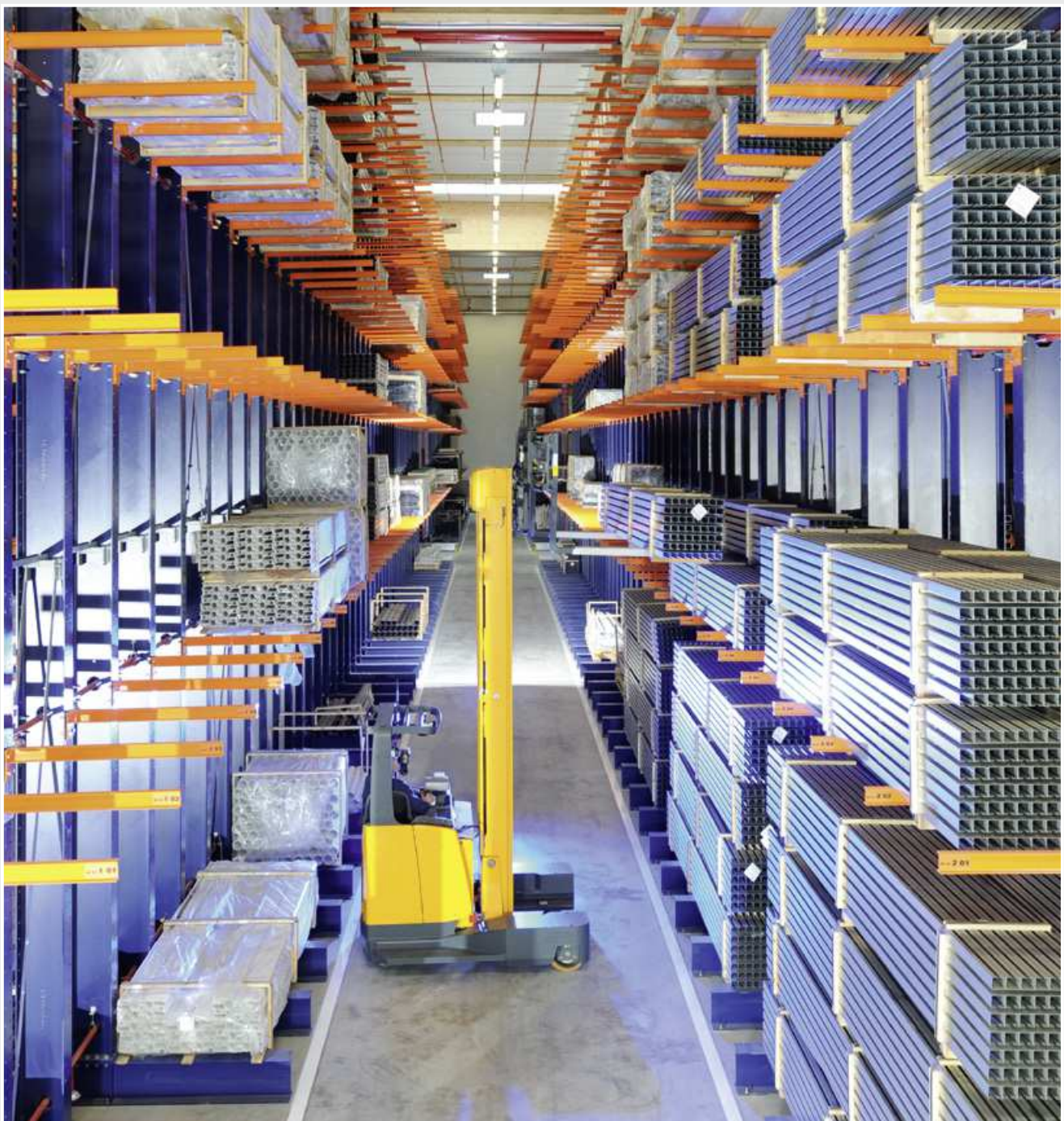
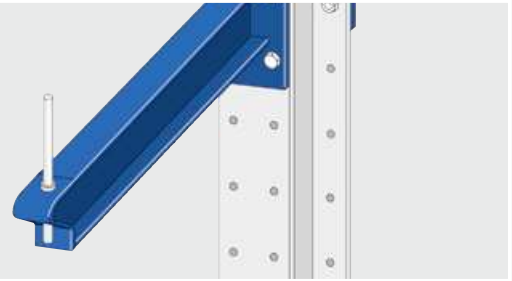
| Item | Height (mm) | Width (mm) | Order no. |
|--------|-------------|------------|-----------|
| AS 180 | 180 | 150 | 8009449 |
| AS 280 | 280 | 160 | 8009446 |

Order no. = on stock

End stop

For cantilever arms with deflector, plug-in, painted: Dust gray, RAL 7037.

| Item | Usable height (mm) | Order no. |
|---------|--------------------|-----------|
| KEA 105 | 50 | 162500 |
| KEA 110 | 100 | 162510 |
| KEA 115 | 150 | 162520 |



Modular shelving

Longspan racking

Pallet racking

Cantilever racking

On-line shelving/ KDR shelving

Customer Service & Support