

2025/2026

Greater Efficiency With a System

Products and solutions for
intra-company material flow

[ssi-schaefer.com](https://www.ssi-schaefer.com)

The logo for SSI SCHAEFER, featuring the letters 'SSI' in a stylized red font followed by 'SCHAEFER' in a bold black font, all set against a yellow background.

SSI SCHAEFER

Intralogistics Solutions From a Single Source



As one of the world's leading providers of solutions in all areas of intralogistics, at SSI SCHAEFER we empower our customers through innovative products, technologies and software to increase the efficiency and sustainability of storage, picking and transport processes.

From fully automated warehouses with customized service and maintenance programs, to robotics and automated guided vehicles, as well as manual and semi-automated systems, such as work stations, racks and bins, at SSI SCHAEFER we offer economical intralogistics solutions with industry expertise to both SMEs and multinational corporations from a single source.

SSI SCHAEFER stands for quality and durability. That's why we guarantee worldwide that our shelving systems - from boltless to cantilever racks - are free from

material and manufacturing defects for 5 years from the date of purchase. Rely on proven stability and first-class craftsmanship!

We have also become one of the largest providers of software for intra-company material flow. The extensive software portfolio covers all operations from warehouse management to material flow control, and offers comprehensive possibilities for holistic, sustainable resource management with modern real-time analyses, smart data processing and optimization algorithms.



Products, Solutions and Services

- Shelving systems, platform systems
- Pallet, wide span, cantilever and mobile racks
- Flow racks and on-line shelving
- Vertical lift modules
- Bin and pallet conveying system
- Automated warehouse solutions
- WAMAS logistics software
- Automated guided vehicles
- Preventive and reactive services
- Lifecycle management
- Warehouse safety management

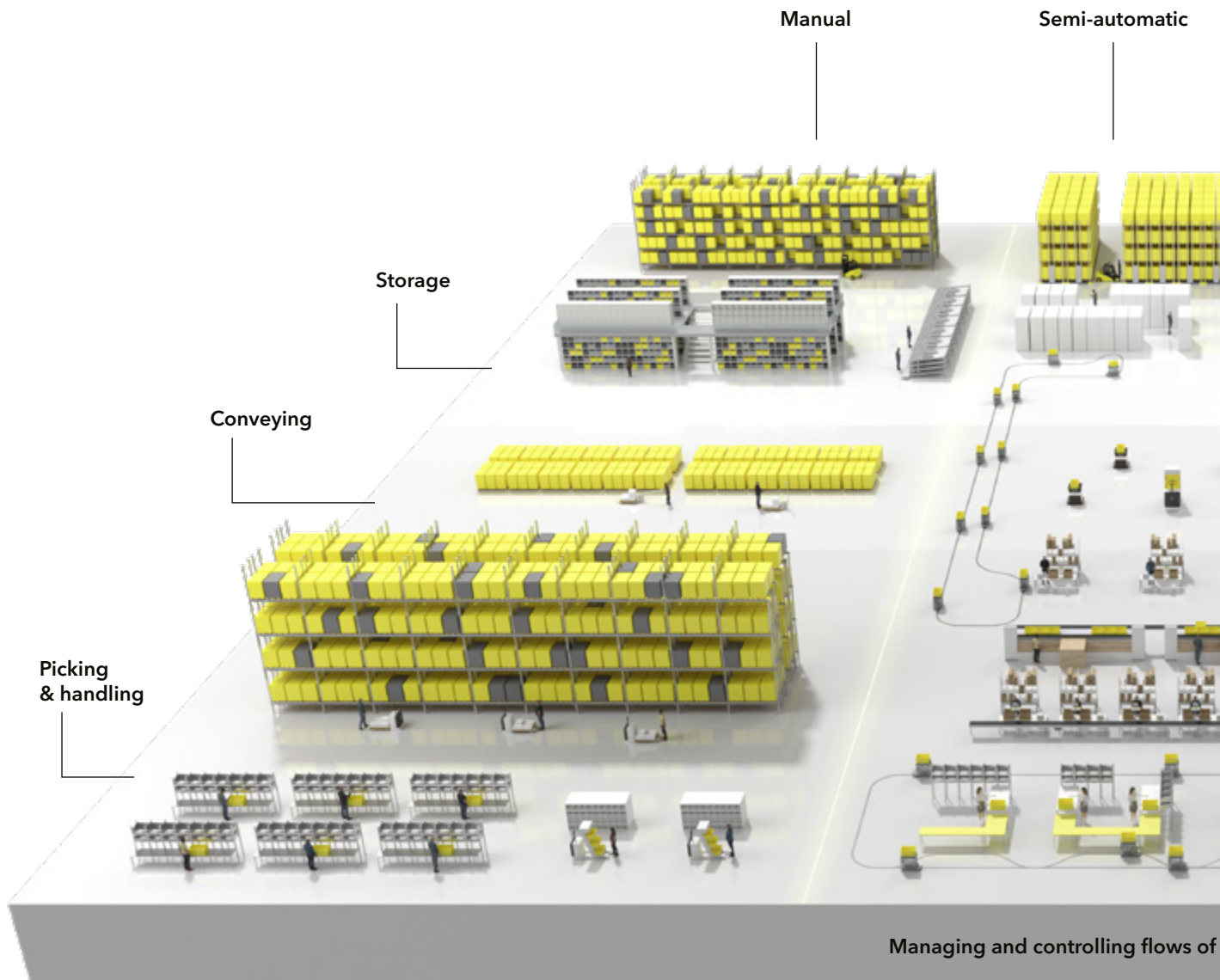
Everything in Balance - Scalable Solutions for Growing Demands

The smart logistics solutions from SSI SCHAEFER are designed in such a way that all the components work together smoothly and interact in sync with one another.

While in most cases a few racks may be sufficient initially for storing products, as product ranges grow this can quickly lead to capacity bottlenecks. Goods

may be deposited wherever there is space and then it can take more work to find them again. With our intralogistics solutions, we create transparency, constant availability and fast order processing that will impress your customers.

All the components in the SSI SCHAEFER modular system can be flexibly adapted and variably combined,

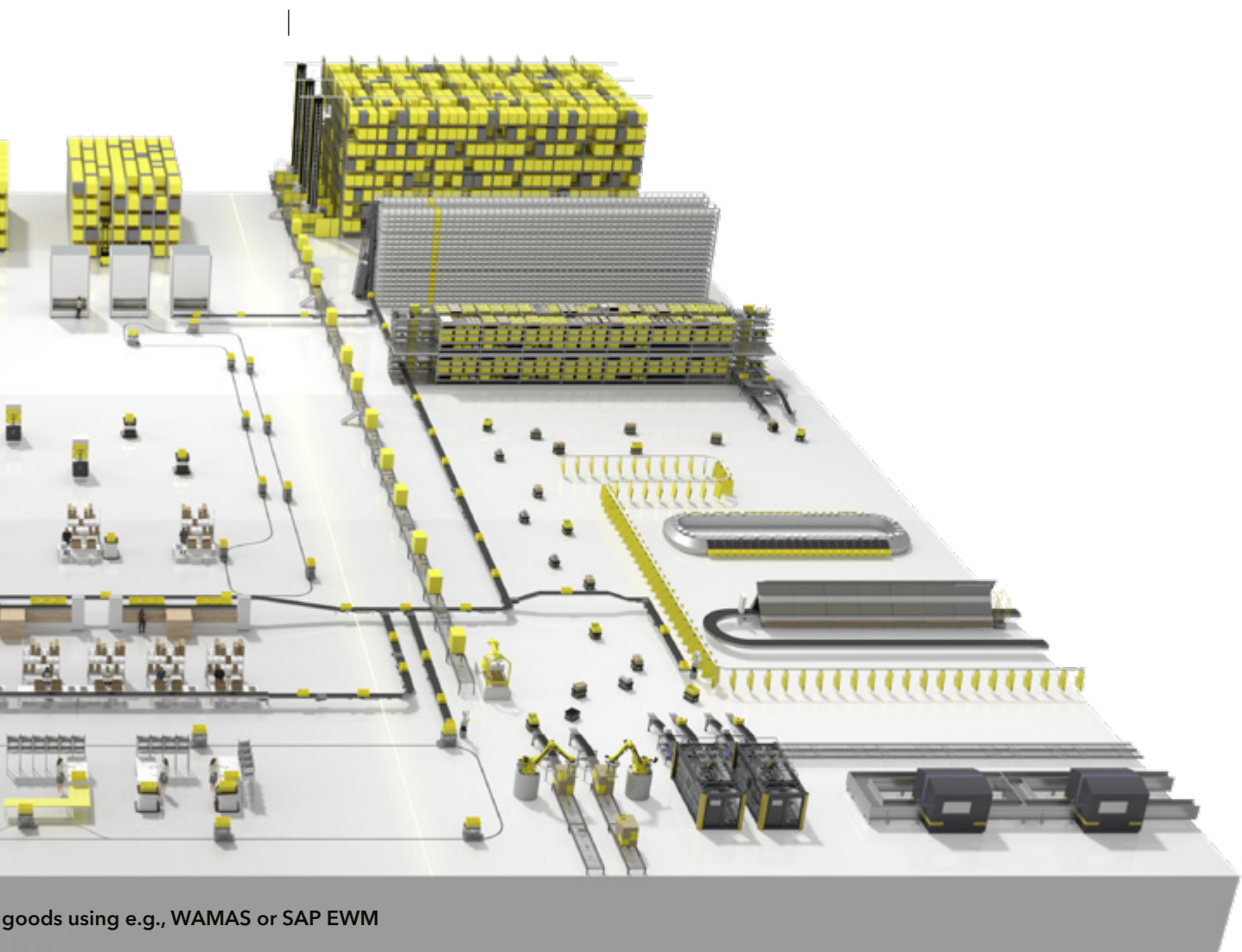


which means that solutions for intralogistics optimally tailored to SMEs are available at every stage of business development. This helps to ensure process efficiency in a consistent and sustainable way.

Our experts will support you from the initial idea and the analysis phase to the implementation of the jointly

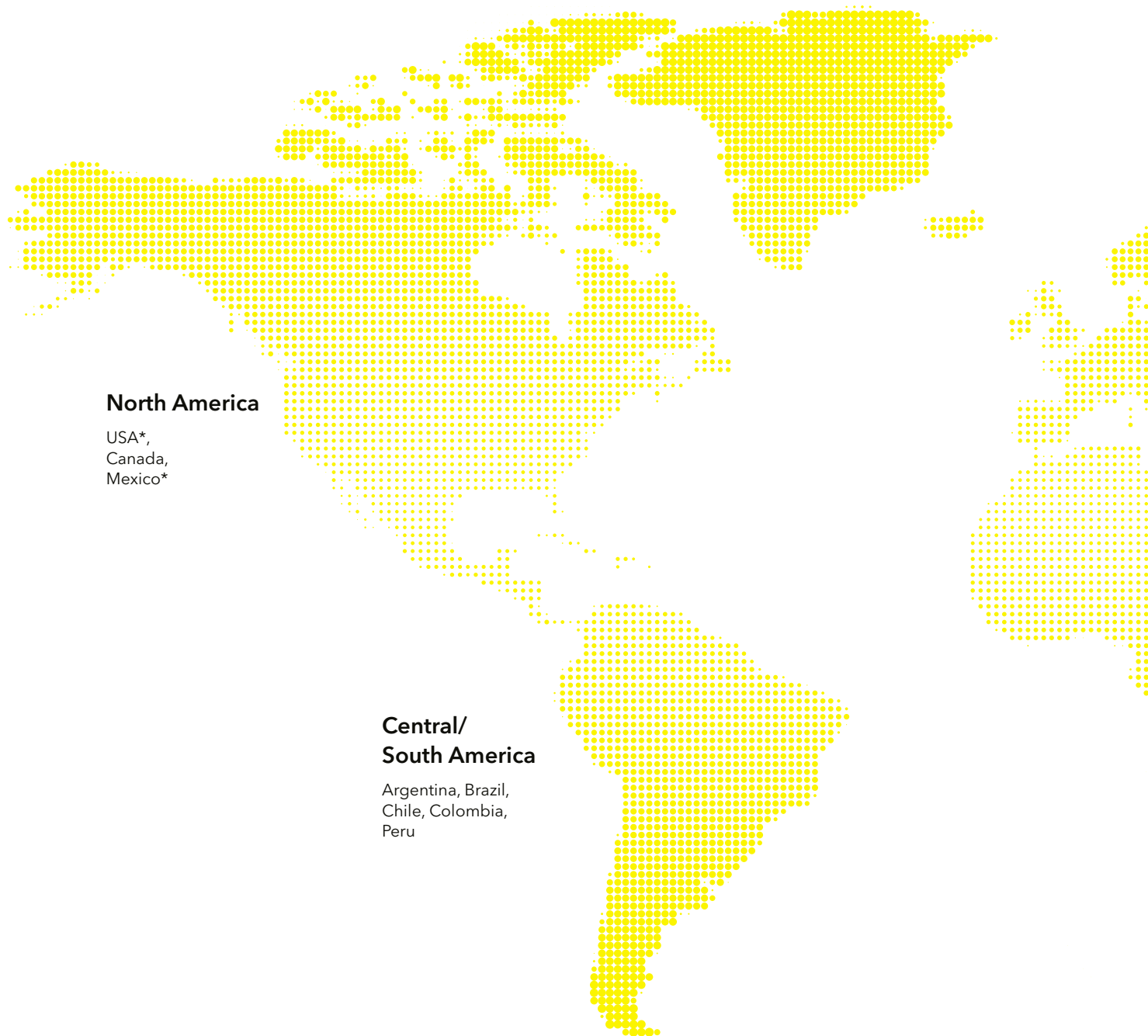
developed solution and even beyond. Even if your business models change, we are on hand at all times with advice, support and scalable systems.

Fully automatic



goods using e.g., WAMAS or SAP EWM

Worldwide Presence – Customer Proximity



Always close by: With around 80 operating companies and a workforce of approximately 8,600 employees, SSI SCHAEFER is a global group and one of the world's leading providers of modular warehouse and logistics systems.

Around the globe, SSI SCHAEFER develops innovative concepts and solutions in its customers' sectors to shape the very future of intralogistics.

* Production sites

Europe

Germany*, Austria*, Czech Republic*, Belgium, Denmark, Finland, France, Hungary, Italy, Latvia, Netherlands, Norway, Poland, Romania, Russia, Sweden, Switzerland, Slovakia, Slovenia, Spain, Turkey, Ukraine, United Kingdom

Asia

Singapore, Malaysia*, China, Hong Kong, India, Indonesia, Philippines, South Korea, Thailand, Taiwan, Vietnam

Middle East

United Arab Emirates, Saudi Arabia

Australia

Africa

South Africa

Your contact to SSI SCHAEFER



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Our contact page in the internet



Innovator, Manufacturer and Long-Term Partner

From standard products to complex solutions:
Welcome to SSI SCHAEFER.

Think Tomorrow.

SSI SCHAEFER

A	Shelving Systems	Shelving Systems
B	Wide Span Rack Systems	Wide Span Racks
C	Pallet Rack Systems	Pallet Racks
D	Cantilever Rack Systems	Cantilever Racks
E	On-Line Shelving/Live Storage Racks	On-Line Shelving/ Live Storage Racks
F	System Platforms	System Platforms
G	Dynamic Storage	Dynamic Storage
H	Automated Logistics Solutions	Automated Logistics Solutions
I	Logistics Systems	Logistics Systems
J	Customer Service & Support	Customer Service & Support
K	Software	Software



Shelving Systems for All Applications

Saving space and time are the most important criteria in warehouse management. Whether for single or multi-tier systems, SSI SCHAEFER offers sophisticated, variable and flexible shelving systems of the highest quality for a wide range of potential applications.

Simple and fast installation plus comprehensive expert advice form the foundation for a price-performance ratio that speaks for itself. And the proof of this can be seen in thousands of warehouses around the world.

With appropriate configuration, it is easy to expand the R 3000 shelving system into multi-tier platform systems, provided that this equipment option is ordered with the initial delivery of ground-level racks.

On-site consultation with your SSI SCHAEFER specialist consultant is essential to ensure you select the right system for your needs.

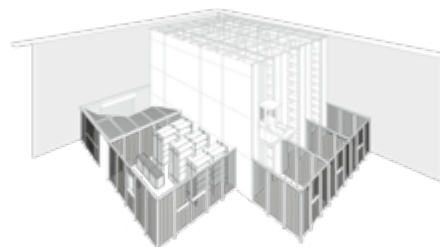


Contents



■ R 3000 shelving systems

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■ Universal accessories

Page **A24**



Information on **inspection requirements**
for rack installations

Chapter J, page J6

All load values specified apply for evenly distributed loads.

Overview of Shelving System



R 3000 shelving systems

Applications	<ul style="list-style-type: none"> ■ Light to heavy, small and medium-volume goods, bulky items, rack platforms
Advantages	<ul style="list-style-type: none"> ■ Fully organizable thanks to extensive accessories ■ Euro dimension modularity ■ Multi-tier design and rack platforms can also be retrofitted ■ GS mark
System	<ul style="list-style-type: none"> ■ Frame system with push-fit construction for fast installation
Design	<ul style="list-style-type: none"> ■ Frame system, 2 bay lengths, 5 rack depths, various heights
Load capacity	<ul style="list-style-type: none"> ■ Up to max. 3,500 kg per bay field
System grid	<ul style="list-style-type: none"> ■ Lug grid with 53 mm steps
Upright surface	<ul style="list-style-type: none"> ■ Galvanized
Shelf surface	<ul style="list-style-type: none"> ■ Galvanized/Light Silver
From page	A4



Shelving Systems
Wide Span Racks
Pallet Racks
Cantilever Racks
On-Line Shelving/ Live Storage Racks
System Platforms
Dynamic Storage
Automated Logistics Solutions
Logistics Systems
Customer Service & Support
Software



R 3000 - The Multi-Functional Rack System

R 3000 - The multi-functional rack system for all warehouse tasks. The frame system design and variable push-fit system has no fixed bottom, top and intermediate shelves or beams, thereby providing full design freedom for the rack bays in a 53-mm grid.

With the R 3000, the usual distinction between shelving systems, wide span racks and cantilever racks no longer applies. In other words, there is one system for everything - easily expandable and fully adjustable. This gives your warehouse maximum flexibility to adapt to changing needs.

The fully closed profile on the rack upright features grooves on both front sides, so longitudinal beams and cross braces can be installed without play. The long sides have pushed-out lugs for installing shelves. Cutouts on the front and long sides allow platform support elements to be attached problem-free. Shelves and beams are available in bay lengths of 994 and 1,282 mm, and can be positioned as required for different compartment sizes.

Multi-tier rack installations can be created using standardized components, allowing you to make optimal use of the available ceiling height. Thanks to its high load capacity, the R 3000 shelving system is particularly well suited for building multi-tier rack systems with accessible intermediate platforms.





Shelving Systems

Wide Span Racks

Pallet Racks

Cantilever Racks

On-Line Shelving/
Live Storage Racks

System Platforms

Dynamic Storage

Automated
Logistics Solutions

Logistics Systems

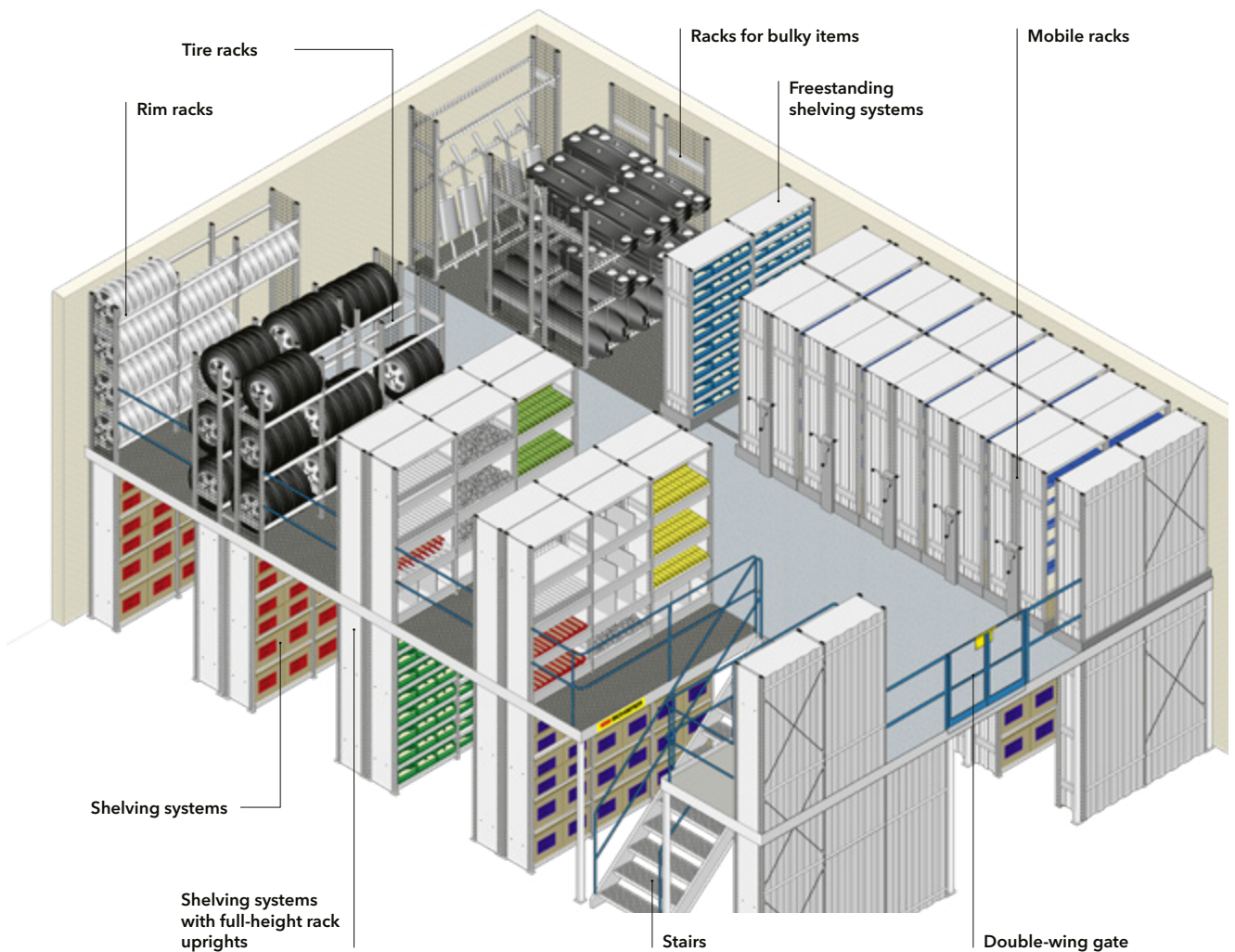
Customer
Service & Support

Software

Multi-Tier Rack Systems

The rack frames (unassembled) are available in a range of different heights for single and multi-tier designs. They are assembled and erected on site and fitted with attachable shelves or beams and cross braces for stability.

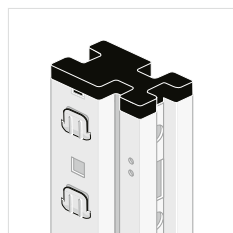
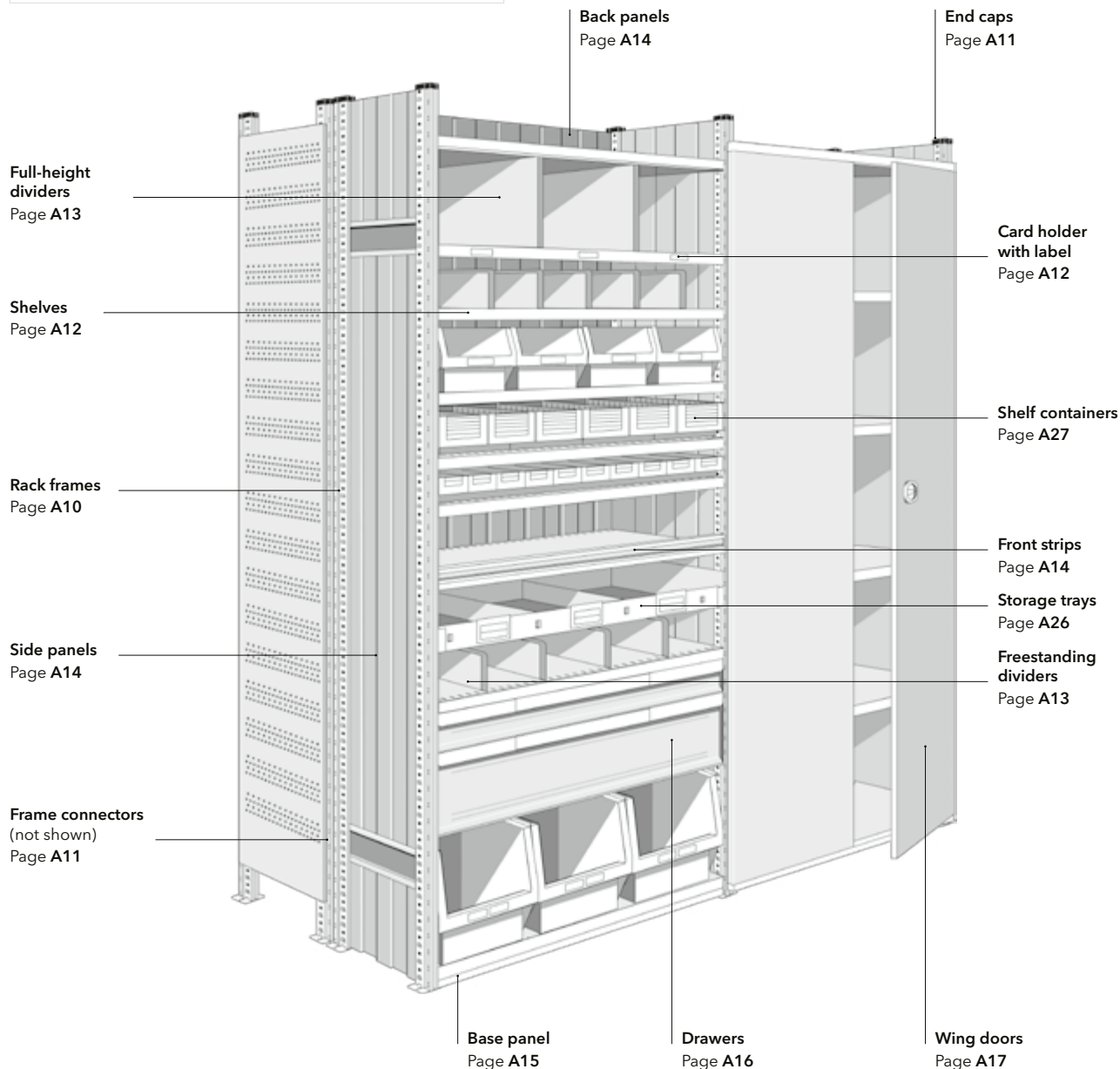
A standard platform height of 2,310 mm with a decking thickness of 30 mm provides sufficient headroom for sprinklers, air-conditioning units, lighting, etc. after installation. The platform height can be adjusted in 53 mm steps.





- **Push-fit construction for fast installation**
Bay lengths 994 and 1,282 mm;
rack depths 300, 400, 500, 600 and 800 mm;
various heights for single and multi-tier design
- **Frame profiles**
with lug grid with 53 mm steps
- **Slotted rack uprights**
with slot spacing of 26.5 mm available on request
- **Fully organizable**
with an extensive range of accessories, such as
shelves, beams, chipboard shelves, back and side
panels, drawers and doors
- **High load capacity up to max. 3,500 kg
per bay**
- **Multi-tier rack systems**
can also be retrofitted

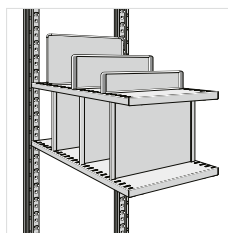
Equipment Options



End caps



Shelves



Dividers



Side panels



Drawers

R 3000 Shelving System – Starter and Extension Bays



R 3000 starter bays with 5 shelf levels, 1,960 mm high

2 pre-assembled rack frames, 5 shelves, 30 mm high, cross brace, underlay material, screw anchors, end caps and rack nameplate.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load (kg)		Order no.
			per shelf	per bay	
FBR3310195050V-GF	300	994	100	1,500	1055214
FBR3410195050V-GF	400	994	100	1,500	1055211
FBR3510195050V-GF	500	994	100	1,500	1055215
FBR3610195050V-GF	600	994	100	1,500	1055216
FBR3313195075V-GF	300	1,282	150	1,500	1055230
FBR3413195075V-GF	400	1,282	150	1,500	1055231
FBR3513195075V-GF	500	1,282	150	1,500	1055232
FBR3613195075V-GF	600	1,282	150	1,500	1055233

Extension bays

1 pre-assembled rack frame, 5 shelves, 30 mm high, underlay material, screw anchors and end caps. Without cross brace.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load (kg)		Order no.
			per shelf	per bay	
FBR3310195050V-AF	300	994	100	1,500	1055217 ^{*1}
FBR3410195050V-AF	400	994	100	1,500	1055218 ^{*1}
FBR3510195050V-AF	500	994	100	1,500	1055219 ^{*1}
FBR3610195050V-AF	600	994	100	1,500	1055223 ^{*1}
FBR3313195075V-AF	300	1,282	150	1,500	1055234 ^{*2}
FBR3413195075V-AF	400	1,282	150	1,500	1055235 ^{*2}
FBR3513195075V-AF	500	1,282	150	1,500	1055236 ^{*2}
FBR3613195075V-AF	600	1,282	150	1,500	1055237 ^{*2}

A cross brace must be fitted in the first and every third rack bay in order to stabilize the racks.
*1 = 1 cross brace KV 31013 - Order no. 1055531; *2 = 1 cross brace KV 31313 - Order no. 1042017.

R 3000 starter bays with 5 shelf levels, 2,278 mm high

2 pre-assembled rack frames, 5 shelves, 30 mm high, cross brace, underlay material, screw anchors, end caps and rack nameplate.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load (kg)		Order no.
			per shelf	per bay	
FBR3310225050V-GF	300	994	100	1,500	1055242
FBR3410225050V-GF	400	994	100	1,500	1055243
FBR3510225050V-GF	500	994	100	1,500	1055244
FBR3610225050V-GF	600	994	100	1,500	1055245
FBR3810225100V-GF	800	994	200	1,500	1055253
FBR3313225075V-GF	300	1,282	150	1,500	1055258
FBR3413225075V-GF	400	1,282	150	1,500	1055259
FBR3513225075V-GF	500	1,282	150	1,500	1055260
FBR3613225075V-GF	600	1,282	150	1,500	1055261
FBR3813225125V-GF	800	1,282	250	1,500	1055268

Extension bays

1 pre-assembled rack frame, 5 shelves, 30 mm high, underlay material, screw anchors and end caps. Without cross brace.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load (kg)		Order no.
			per shelf	per bay	
FBR3310225050V-AF	300	994	100	1,500	1055246 ^{*1}
FBR3410225050V-AF	400	994	100	1,500	1055247 ^{*1}
FBR3510225050V-AF	500	994	100	1,500	1055248 ^{*1}
FBR3610225050V-AF	600	994	100	1,500	1055249 ^{*1}
FBR3810225100V-AF	800	994	200	1,500	1055257 ^{*1}
FBR3313225075V-AF	300	1,282	150	1,500	1055262 ^{*2}
FBR3413225075V-AF	400	1,282	150	1,500	1055263 ^{*2}
FBR3513225075V-AF	500	1,282	150	1,500	1055264 ^{*2}
FBR3613225075V-AF	600	1,282	150	1,500	1055265 ^{*2}
FBR3813225125V-AF	800	1,282	250	1,500	1055271 ^{*2}

A cross brace must be fitted in the first and every third rack bay in order to stabilize the racks.
*1 = 1 cross brace KV 31013 - Order no. 1055531; *2 = 1 cross brace KV 31313 - Order no. 1042017.

R 3000 starter bays with 6 shelf levels, 2,490 mm high

2 pre-assembled rack frames, 6 shelves, 30 mm high, cross brace, underlay material, screw anchors, end caps and rack nameplate.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load (kg)		Order no.
			per shelf	per bay	
FBR3310256060V-GF	300	994	100	1,250	1055272
FBR3410256060V-GF	400	994	100	1,250	1055273
FBR3510256060V-GF	500	994	100	1,250	1055274
FBR3610256060V-GF	600	994	100	1,250	1055275
FBR3810256120V-GF	800	994	200	1,250	1055283
FBR3313256090V-GF	300	1,282	150	1,250	1055288
FBR3413256090V-GF	400	1,282	150	1,250	1055289
FBR3513256090V-GF	500	1,282	150	1,250	1055290
FBR3613256090V-GF	600	1,282	150	1,250	1055291
FBR3813256150V-GF	800	1,282	250	1,800	1055331

Extension bays

1 pre-assembled rack frame, 6 shelves, 30 mm high, underlay material, screw anchors and end caps. Without cross brace.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load (kg)		Order no.
			per shelf	per bay	
FBR3310256060V-AF	300	994	100	1,250	1055276 ^{*1}
FBR3410256060V-AF	400	994	100	1,250	1055277 ^{*1}
FBR3510256060V-AF	500	994	100	1,250	1055278 ^{*1}
FBR3610256060V-AF	600	994	100	1,250	1055279 ^{*1}
FBR3810256120V-AF	800	994	200	1,250	1055287 ^{*1}
FBR3313256090V-AF	300	1,282	150	1,250	1055325 ^{*2}
FBR3413256090V-AF	400	1,282	150	1,250	1055326 ^{*2}
FBR3513256090V-AF	500	1,282	150	1,250	1055327 ^{*2}
FBR3613256090V-AF	600	1,282	150	1,250	1055328 ^{*2}
FBR3813256150V-AF	800	1,282	250	1,800	1055334 ^{*3}

A cross brace must be fitted in the first and every third rack bay in order to stabilize the racks.
*1 = 1 cross brace KV 31013 - Order no. 1055531; *2 = 1 cross brace KV 31313 - Order no. 1042017;
*3 = 1 cross brace KV 31309 - Order no. 1052192 (2 pcs. are required).

R 3000 Shelving System – Starter and Extension Bays



R 3000 starter bays with 7 shelf levels, 2,967 mm high

2 pre-assembled rack frames, 7 shelves, 30 mm high, cross brace, underlay material, screw anchors, end caps and rack nameplate.

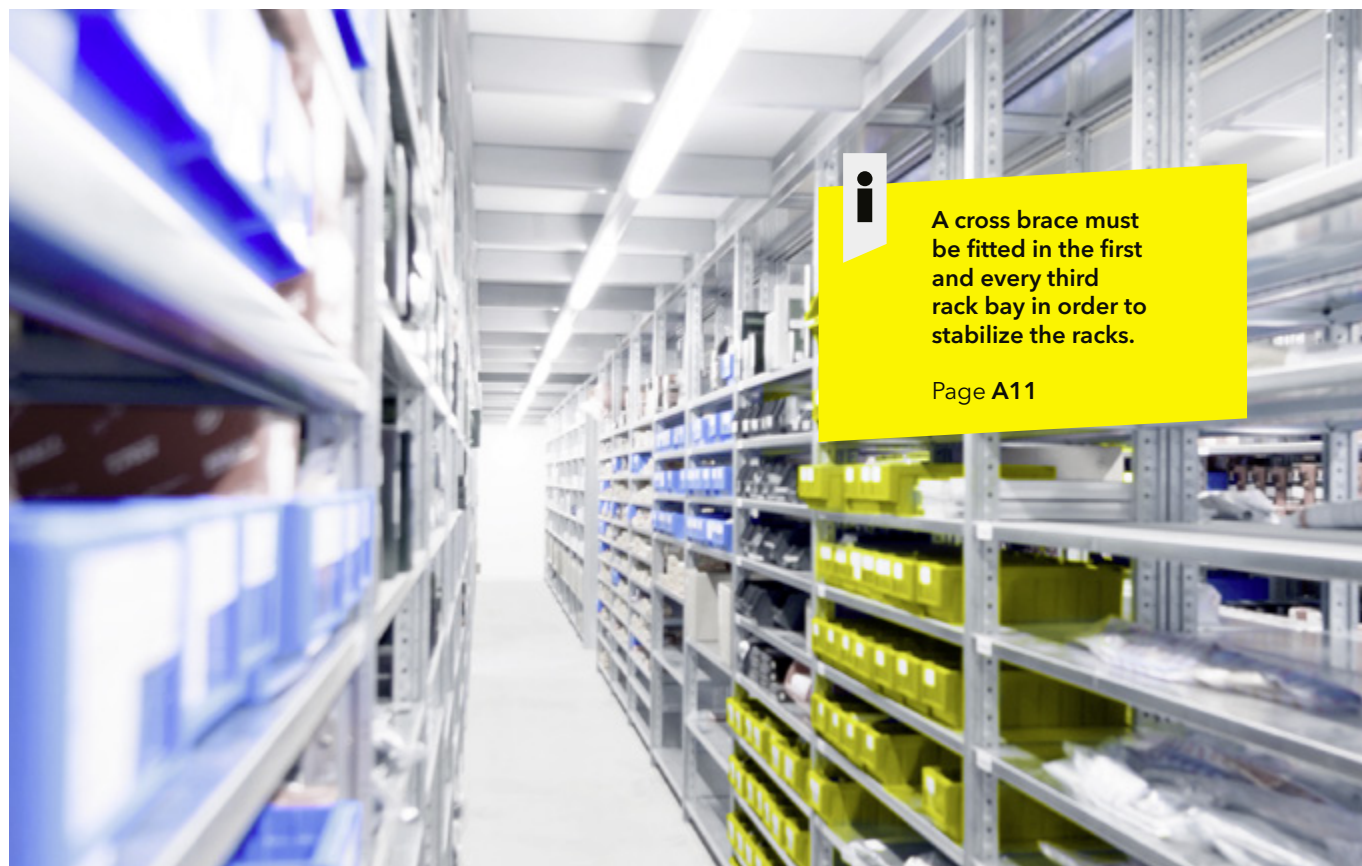
Item	Usable depth (mm)	Clear bay width (mm)	Max. load (kg)		Order no.
			per shelf	per bay	
FBR3310307070V-GF	300	994	100	1,500	1055335
FBR3410307070V-GF	400	994	100	1,500	1055336
FBR3510307070V-GF	500	994	100	1,500	1055337
FBR3610307070V-GF	600	994	100	1,500	1055338
FBR3810307140V-GF	800	994	200	1,500	1055346
FBR3313307105V-GF	300	1,282	150	1,500	1055351
FBR3413307105V-GF	400	1,282	150	1,500	1055352
FBR3513307105V-GF	500	1,282	150	1,500	1055353
FBR3613307105V-GF	600	1,282	150	1,500	1055354
FBR3813307175V-GF	800	1,282	250	3,500	1055361

Extension bays

1 pre-assembled rack frame, 7 shelves, 30 mm high, underlay material, screw anchors and end caps. Without cross brace.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load (kg)		Order no.
			per shelf	per bay	
FBR3310307070V-AF	300	994	100	1,500	1055339*1
FBR3410307070V-AF	400	994	100	1,500	1055340*1
FBR3510307070V-AF	500	994	100	1,500	1055341*1
FBR3610307070V-AF	600	994	100	1,500	1055342*1
FBR3810307140V-AF	800	994	200	1,500	1055350*1
FBR3313307105V-AF	300	1,282	150	1,500	1055355*2
FBR3413307105V-AF	400	1,282	150	1,500	1055356*2
FBR3513307105V-AF	500	1,282	150	1,500	1055357*2
FBR3613307105V-AF	600	1,282	150	1,500	1055358*2
FBR3813307175V-AF	800	1,282	250	3,500	1055364*2

A cross brace must be fitted in the first and every third rack bay in order to stabilize the racks.
 *1 = 1 cross brace KV 31013 - Order no. 1055531 (2 pcs. are required);
 *2 = 1 cross brace KV 31313 - Order no. 1042017 (2 pcs. are required).

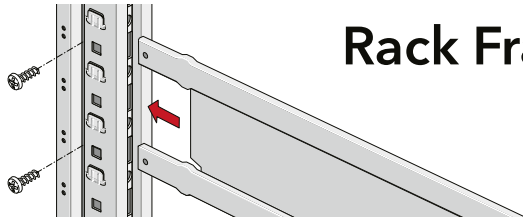


A cross brace must be fitted in the first and every third rack bay in order to stabilize the racks.

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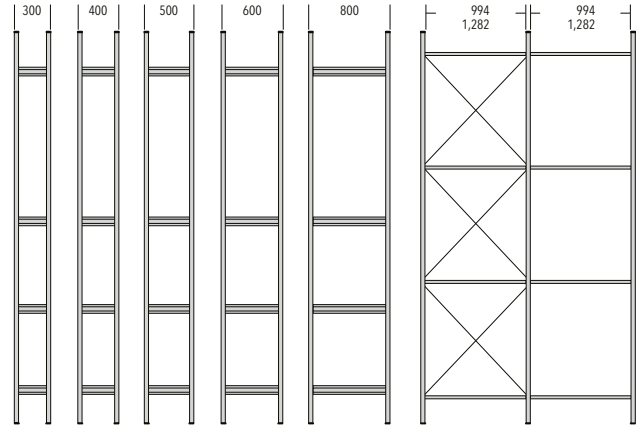
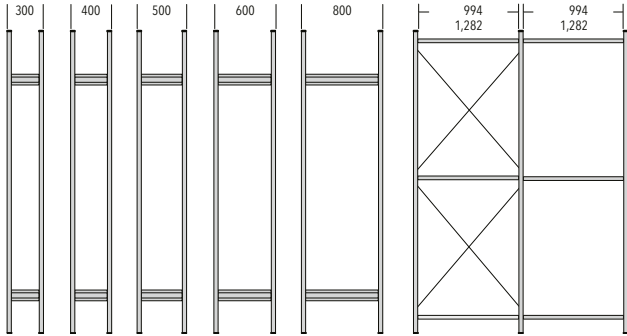


Rack Frame System



Lug grid

The lug grid on the R 3000's upright profile allows it to be fitted with a wide assortment of accessories. The heights of the shelves can be easily adjusted in a grid with 53 mm steps - they are simply fitted on the lugs on the upright.



Rack frames for single-tier design

Galvanized sheet steel. The specified loads are guide values that depend on various parameters.

Item	Rack depth (mm)	Bay load (kg) for cross brace height (mm)		Order no.
		2 x 901	1 x 1,325	
Height 2,278 mm				
RR 33322-V-M	300	1,900	1,500	1057408
RR 34322-V-M	400	1,900	1,500	1057407
RR 35322-V-M	500	1,900	1,500	1057409
RR 36322-V-M	600	1,900	1,500	1057410
RR 38322-V-M	800	1,900	1,500	1057411

Rack frames for multi-tier design

Galvanized sheet steel. The specified loads are guide values that depend on various parameters.

Item	Rack depth (mm)	Bay load (kg)	Order no.
RR 33522-V-M	300	3,500	1057422
RR 34522-V-M	400	3,500	1057423
RR 35522-V-M	500	3,500	1057424
RR 36522-V-M	600	3,500	1057425
RR 38522-V-M	800	3,500	1057426

Item	Rack depth (mm)	Bay load (kg) for cross brace height (mm)		Order no.
		2 x 901	1 x 1,325	
Height 2,490 mm				
RR 33325-V-M	300	1,800	1,250	1057412
RR 34325-V-M	400	1,800	1,250	1057413
RR 35325-V-M	500	1,800	1,250	1057414
RR 36325-V-M	600	1,800	1,250	1057415
RR 38325-V-M	800	1,800	1,250	1057416

Item	Rack depth (mm)	Bay load (kg)	Order no.
RR 33525-V-M	300	3,500	1057427
RR 34525-V-M	400	3,500	1057428
RR 35525-V-M	500	3,500	1057429
RR 36525-V-M	600	3,500	1057430
RR 38525-V-M	800	3,500	1057431

Item	Rack depth (mm)	Bay load (kg) for cross brace height (mm)		Order no.
		2 x 901	2 x 1,325	
Height 2,967 mm				
RR 33330-V-M	300	-	1,500	1057417
RR 34330-V-M	400	-	1,500	1057418
RR 35330-V-M	500	-	1,500	1057419
RR 36330-V-M	600	-	1,500	1057420
RR 38330-V-M	800	-	1,500	1057421

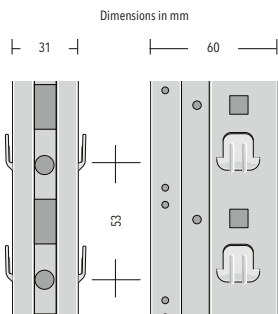
Item	Rack depth (mm)	Bay load (kg)	Order no.
RR 33530-V-M	300	3,500	1057432
RR 34530-V-M	400	3,500	1057433
RR 35530-V-M	500	3,500	1057434
RR 36530-V-M	600	3,500	1057435
RR 38530-V-M	800	3,500	1057436



Heights 6,836 and 9,115 mm

on request

Item	Rack depth (mm)	Bay load (kg)	Order no.
RR 33545-V-U	300	3,500	1057196
RR 34545-V-U	400	3,500	1057197
RR 35545-V-U	500	3,500	1057198
RR 36545-V-U	600	3,500	1057199
RR 38545-V-U	800	3,500	1057200



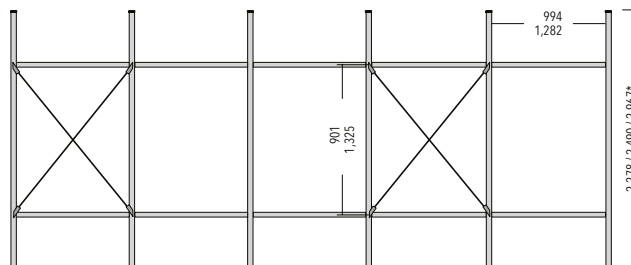
Rack Components and Accessories

Cross braces

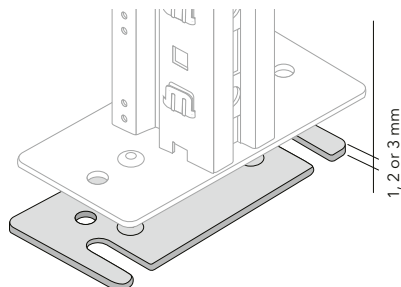
A cross brace must be fitted to the back of the first and every other third rack bay to stabilize the racks.

Notice: Shelves or Wire mesh shelves must be installed near the cross brace connecting points.

Item	Bay length (mm)	Cross brace height (mm)	Order no.
KV 31009	994	901	1052191
KV 31013		1,325	1055531
KV 31309	1,282	901	1052192
KV 31313		1,325	1042017



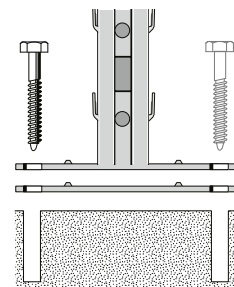
* with a height of 2,967 mm, 2 cross braces 1,325 mm above each other must be used



Shim plates

Galvanized sheet steel. To compensate for minor unevenness in the floor.

Item	Thickness (mm)	Order no.
UP3001-V	1	1057106
UP3002-V	2	1057537
UP3003-V	3	1057539



Floor mounting

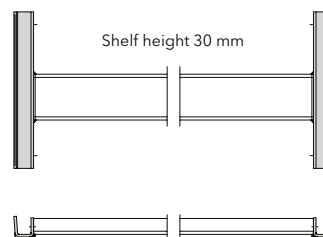
Screw anchors for securing the rack uprights to the floor.

Item	Order no.
HUS3-H6x60	1036114

Horizontal braces

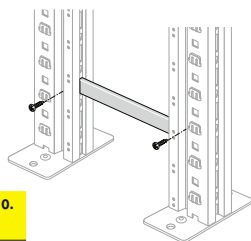
Sheet steel, painted Light Silver. Used for longitudinal bracing as an alternative to cross braces if these hinder pass-through storage when using double-sided racks or if single-sided racks need to be accessed from both sides. A minimum frame distance of 30 mm is required for double-sided racks to ensure that the height can be adjusted retrospectively. In each rack bay in a rack line, both the lower and upper shelves must be fitted with two horizontal braces (for rack heights up to 2,967 mm). The interlocking connection with the upright guarantees high stability. **Bay load capacity on request!**

Item	Bay length (mm)	Shelf height (mm)	Order no.
LV 3103	994	30	1042628
LV 3133	1,282	30	1042629



Frame connectors

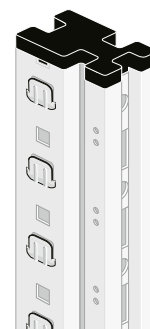
Galvanized sheet steel. For connecting two rack bays back-to-back in a row. Frame spacing at least 6 mm. Incl. fixing kit.



Item	Frame distance (mm)	Order no.
RV 3006	6	1042919
RV 3030	30	1055064
RV 3050	50	1042920
RV 3100	100	1055318
RV 3300	300	1044699

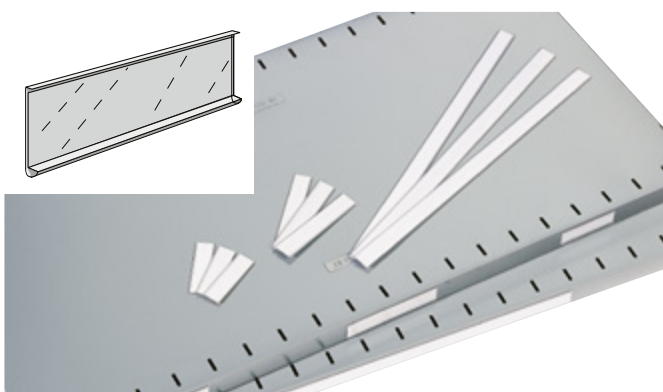
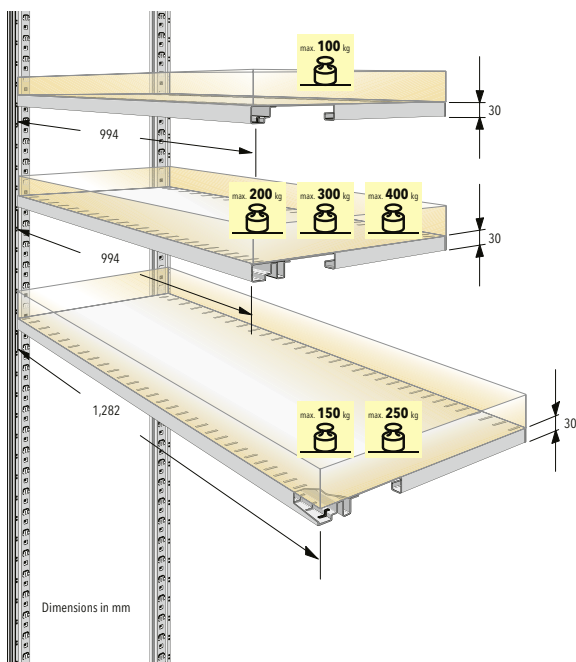
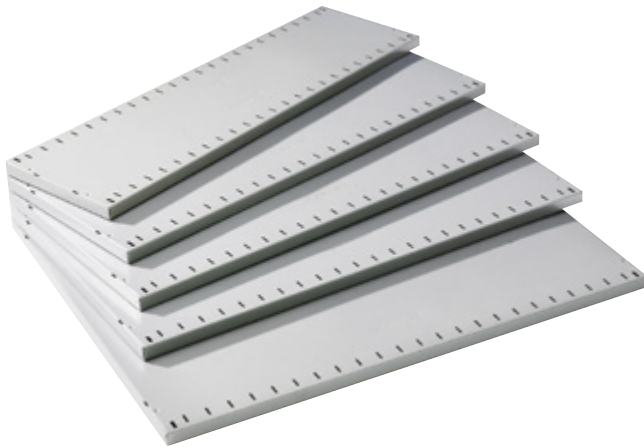
End cap

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



Item	Order no.
AK 3000	1041887

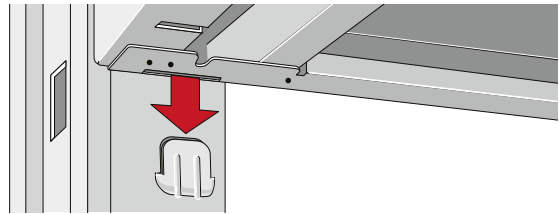
Shelves



Shelves

Sheet steel, either painted Light Silver or galvanized, 30 mm high. For dividing the rack bays into compartments of variable heights. Rows of slots at the front and the back for fitting vertical dividers. Slot spacing 41 mm. In double-sided racks, offset arrangements also enable shelves to have different heights.

Painted shelves on request



On the SSI SCHAEFER shelves, the front edge overlaps the longitudinal edge. In conjunction with the additional welding points, this gives the shelf a high load-bearing capacity, makes it resistant to torsion and provides additional stability.

Shelves for bay length 994 mm, height 30 mm

Galvanized sheet steel.

Item	Rack depth (mm)	Floor load capacity max. (kg)	Edge design	Surface	Order no.
ZB 4313 V	300	100	N	Galvanized	1041233
ZB 4413 V	400	100	N	Galvanized	1041996
ZB 4423 V		200	V	Galvanized	1057488
ZB 4513 V	500	100	N	Galvanized	1041997
ZB 4523 V		200	V	Galvanized	1055965
ZB 4533 V		300	V	Galvanized	1056958
ZB 4543 V		400	V	Galvanized	1057395
ZB 4613 V	600	100	N	Galvanized	1041998
ZB 4623 V		200	V	Galvanized	1056964
ZB 4633 V		300	V	Galvanized	1057396
ZB 4643 V		400	V	Galvanized	1056967
ZB 4823 V	800	200	V	Galvanized	1057398

Shelves for bay length 1,282 mm, height 30 mm

Galvanized sheet steel.

Item	Rack depth (mm)	Floor load capacity max. (kg)	Edge design	Surface	Order no.
ZB 1301308 V	300	150	V	verzinkt	1042842
ZB 9415 V	400	150	V	Galvanized	1057620
ZB 9515 V	500	150	V	Galvanized	1056251
ZB 9525 V		250	V	Galvanized	1057490
ZB 9615 V	600	150	V	Galvanized	1041999
ZB 9625 V		250	V	Galvanized	1056883
ZB 9825 V	800	250	V	Galvanized	1056252

Card holders

Self-adhesive, for the identification of storage locations.

Item	L x H (mm)	PU	Order no.
EH 4085	85 x 25	50	1055482
EH 4135	135 x 25	50	1042385
EH 4490	490 x 25	50	1054856
EH 4980	980 x 25	25	1042381
EH 9125	1,250 x 25	25	1055207

Labels

Item	L x H (mm)	PU	Order no.
EHE 4085	85 x 24	100	1056923
EHE 4135	135 x 24	100	1055483
EHE 4490	490 x 24	100	1055220



Full-Height and Freestanding Dividers

Freestanding dividers for 30 mm-high shelves

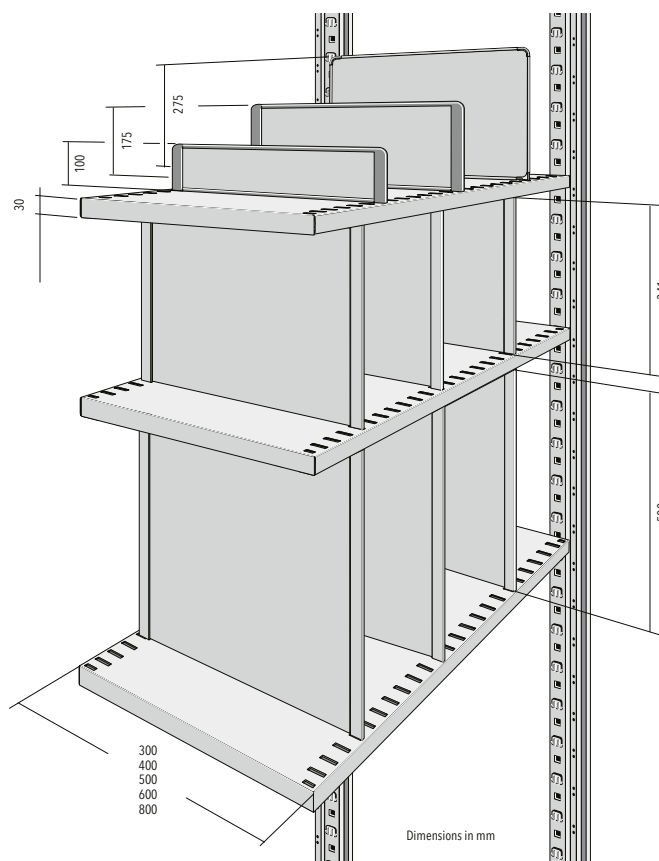
Galvanized sheet steel. These dividers can be inserted into the slots in the shelf regardless of the height of the compartment and can also be combined with front strips.

Item	Rack depth (mm)	Divider height (mm)	Connector type	Order no.
TRF-K 4310	300	100	Plastic connectors	1044708
TRF-K 4317	300	175	Plastic connectors	1055053
TRF-K 4410	400	100	Plastic connectors	1055473
TRF-K 4417	400	175	Plastic connectors	1055545
TRF-D 4427	400	275	Wire connectors	1055661
TRF-K 4510	500	100	Plastic connectors	1055474
TRF-K 4517	500	175	Plastic connectors	1044712
TRF-D 4527	500	275	Wire connectors	1055469
TRF-K 4610	600	100	Plastic connectors	1044715
TRF-K 4617	600	175	Plastic connectors	1055055
TRF-D 4627	600	275	Wire connectors	1055651
TRF-D 4810	800	100	Wire connectors	1055652
TRF-D 4817	800	175	Wire connectors	1055470

Full-height dividers

Galvanized sheet steel, for clear compartment heights of 341 mm and 500 mm.

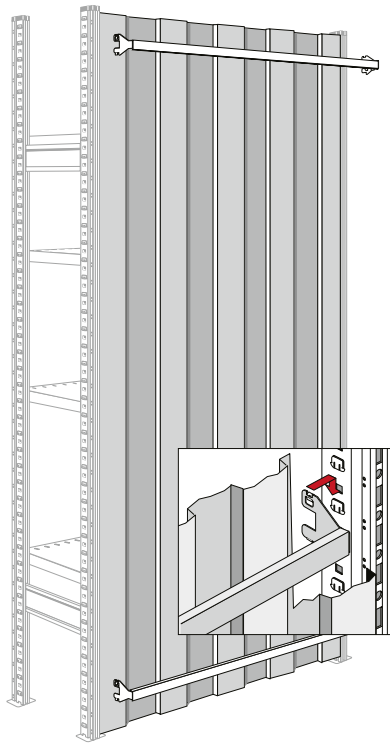
Item	Rack depth (mm)	Divider height (mm)	Order no.
TR 4340	300	341	1042677
TR 4440	400	341	1055658
TR 4450	400	500	1055659
TR 4540	500	341	1045239
TR 4550	500	500	1042726
TR 4640	600	341	1042678
TR 4650	600	500	1055660



Rack Components and Accessories

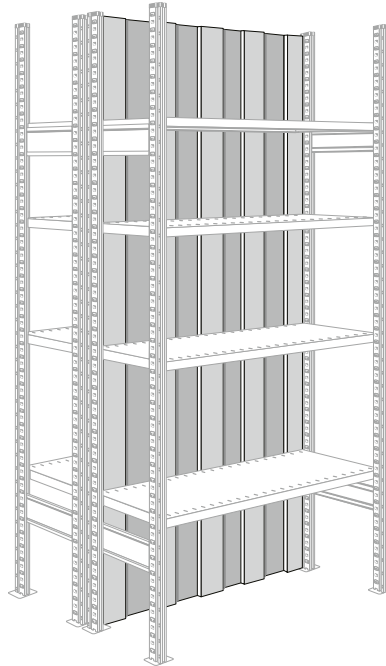


U-profile strips
We recommend U-profile strips when using internal and external back panels (type RWI/RWA).



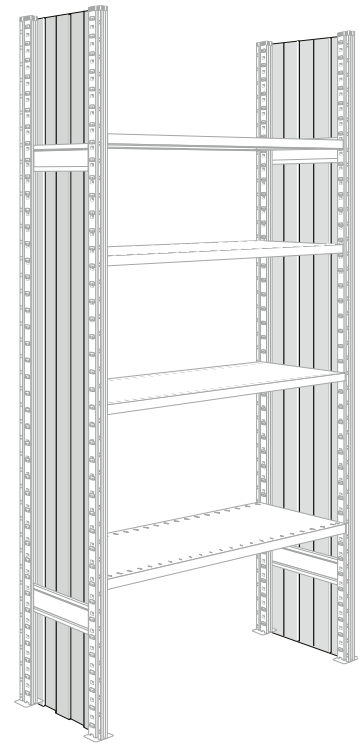
Outer back panels

Galvanized sheet steel. The three-part back panels lean against the shelves. The retaining beams slide over the back panel sections and engage with the lugs on the rack uprights.



Inner back panels

Galvanized sheet steel. For insertion between two racks. These slot together like panels and are held in place by the shelves.



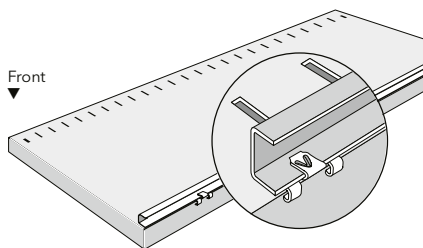
Side panels

Galvanized sheet steel. The side panel leans between the rack uprights and the partition bars and is clamped between the partition bar and the shelves.

Item	Height (mm)	Order no.
For bay length 994 mm, 3-part		
RWA 31022	2,278	1042134
RWA 31025	2,490	1054679
RWA 31030	2,967	1054681
For bay length 1,282 mm, 3-part		
RWA 31322	2,278	1055306
RWA 31325	2,490	1042610
RWA 31330	2,967	1055756

Item	Height (mm)	Order no.
For bay length 994 mm, 3-part		
RWI 31022-V	2,278	1063237
RWI 31025-V	2,490	1063238
RWI 31030-V	2,967	1062244
For bay length 1,282 mm, 3-part		
RWI 31322-V	2,278	1063240
RWI 31325-V	2,490	1063241
RWI 31330-V	2,967	1063242

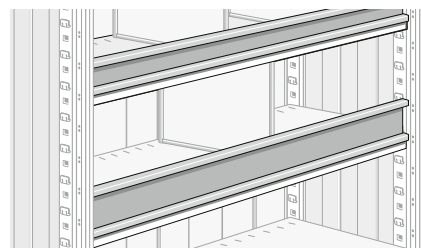
Item	Rack depth (mm)	Order no.
For height 2,278 mm		
SWI 3322-V	300	1057918
SWI 3422-V	400	1057922
SWI 3522-V	500	1057925
SWI 3622-V	600	1057928
SWI 3822-V	800	1057931
For height 2,490 mm		
SWI 3325-V	300	1057919
SWI 3425-V	400	1057923
SWI 3525-V	500	1057926
SWI 3625-V	600	1057929
SWI 3825-V	800	1057932
For height 2,967 mm		
SWI 3330-V	300	1057920
SWI 3430-V	400	1057924
SWI 3530-V	500	1057927
SWI 3630-V	600	1057930
SWI 3830-V	800	1057933



Push-through protection strips

Galvanized sheet steel. Prevent containers, for example, from being pushed through, incl. three clips.

Item	Bay length (mm)	Order no.
DSL 4102	994	1041907
DSL 9131	1,282	1042054



Front strips

Sheet steel, galvanized; for storing loose small parts. Particularly useful in conjunction with dividers, and side and back panels.

Item	Bay length (mm)	Strip height (mm)	Order no.
VL 4001	994	40	1055718
VL 4000		85	1042384
VL 9001	1,282	40	1042052
VL 9000		85	1042053

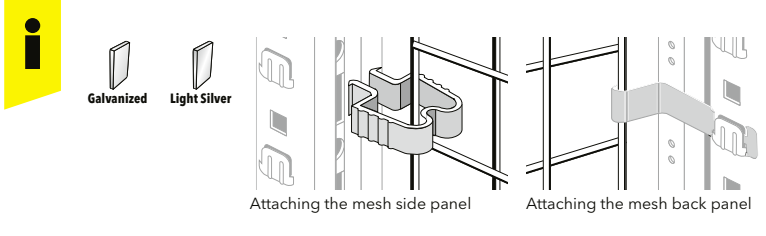
U-profile strips

We recommend using U-profile strips when using dividers and back panels made from solid sheet metal (type RWI/RWA).

U-profile strips, single

Can be used as an installation aid at the bottom or an end piece at the top.

Item	For bay length (mm)	Order no.
RWUE 3100	994	1050433
RWUE 3130	1,282	1050435



Accessories

Shelving Systems

Wide Span Racks

Pallet Racks

Cantilever Racks

On-Line Shelving/
Live Storage Racks

System Platforms

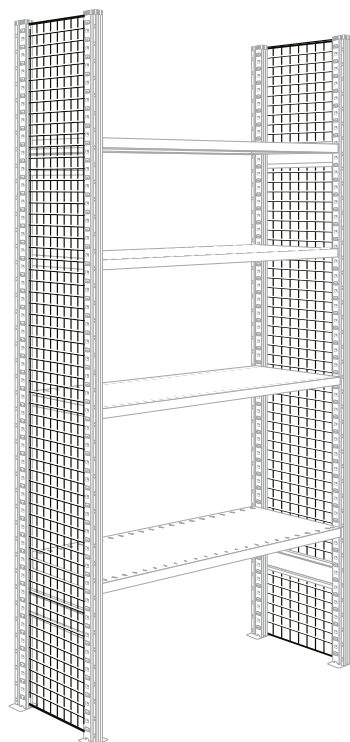
Dynamic Storage

Automated
Logistics Solutions

Logistics Systems

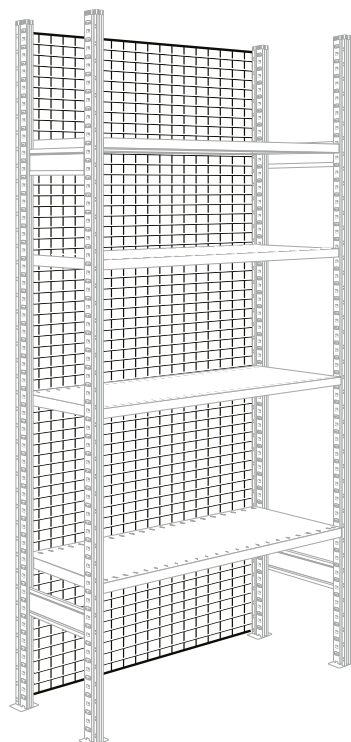
Customer
Service & Support

Software



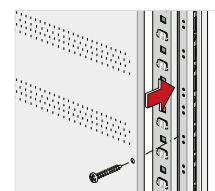
Mesh side panels

Steel wire, painted Light Silver. The panels are attached to the rack uprights using clips. Incl. fixing kit.

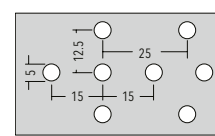


Mesh back panels

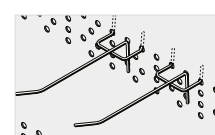
Steel wire, painted Light Silver. The panels are attached to the rack upright lugs using retaining springs. Incl. fixing kit.



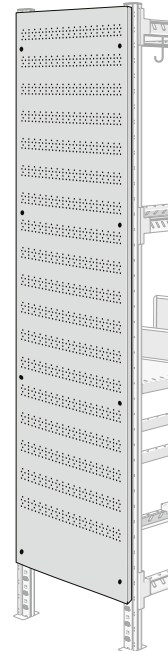
Attached with screws to the uprights



Euro hole pattern, dimensions in mm



Perforated plate hook



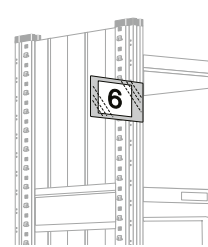
Outer side panels, perforated

Galvanized sheet steel. Incl. fixing kit.

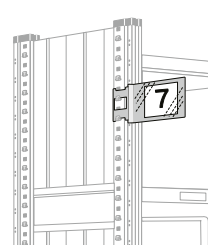
Item	Rack depth (mm)	Order no.
For height 2,278 mm		
SWG 3322	300	1054687
SWG 3422	400	1042618
SWG 3522	500	1045179
SWG 3622	600	1055526
SWG 3822	800	1045181
For height 2,490 mm		
SWG 3325	300	1042670
SWG 3425	400	1055525
SWG 3525	500	1045180
SWG 3625	600	1042673
SWG 3825	800	1055527
For height 2,967 mm, 2-part		
SWG 3330	300	1042617
SWG 3430	400	1042671
SWG 3530	500	1042672
SWG 3630	600	1054689
SWG 3830	800	1042674

Item	Height (mm)	Order no.
For bay length 994 mm		
RWG 31022	2,278	1055310
RWG 31025	2,490	1054684
RWG 31030	2,967/pair	1055524
For bay length 1,282 mm		
RWG 31322	2,278	1054685
RWG 31325	2,490	1042613
RWG 31330	2,967/pair	1054686

Item	Rack depth (mm)	Order no.
Height 2,000 mm		
SWA 3420	400	1045182
SWA 3520	500	1042675
SWA 3620	600	1042620
Perforated plate hook		
LPH 100		1042669



Angled version



Straight version

Aisle signage

For longitudinal and lateral aisle labeling, with transparent film and removable labels. 1 PU = 10 pieces.

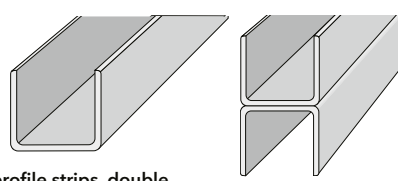
Item	Version	Order no.
GBQ	Straight version	1042651
GBL	Angled version	1042652



Base panels

Galvanized sheet steel. Covers the space between the shelves installed on the first lug and the floor.

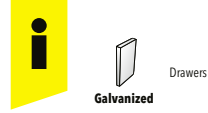
Item	Bay length (mm)	Panel height (mm)	Order no.
SO 3100-V	994	40	1063335
SO 3130-V	1,282	40	1063336



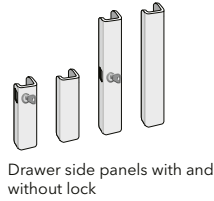
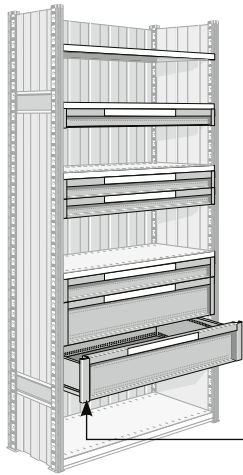
U-profile strips, double

As a connecting element for overlapping panel elements. Suitable for RWA/RWI.

Item	For bay length (mm)	Order no.
RWUD 3100	994	1050431
RWUD 3130	1,282	1050432



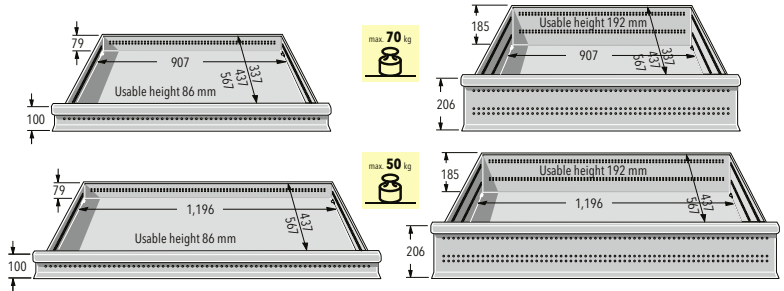
Drawers and Accessories



Drawer side panels with and without lock

Drawer stability

According to DGUV Information 208-061, in order to ensure stability for drawers without a safety brake, special safeguards must be implemented, e.g., by connecting the racks together or using suitable structural components.



Drawer side panels

Sheet steel, galvanized or painted Light Silver. Cover the gaps created between the rack uprights and drawers. Installed on the drawer front with Philips head screws on the left and right.

Each supplied as a complete kit for one drawer.

Item	For panel height (mm)	Version	Surface	Order no.
SBL-3100-V-Z	100	Without lock	Galvanized	1058271
SBL-3100-HS-Z		Without lock	Painted	1058272
SBL-3100-S-V-Z		With lock	Galvanized	1058276
SBL-3100-S-HS-Z		With lock	Painted	1058277
SBL-3200-V-Z	206	Without lock	Galvanized	1058274
SBL-3200-HS-Z		Without lock	Painted	1058275
SBL-3200-S-V-Z		With lock	Galvanized	1058279
SBL-3200-S-HS-Z		With lock	Painted	1058280

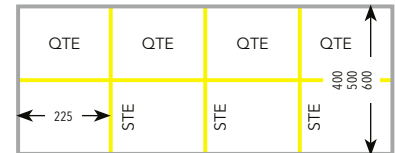
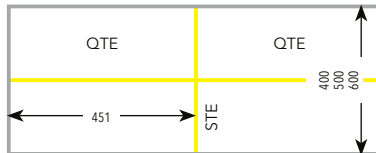
Drawers for bay length 994/1,282 mm

Sheet steel, galvanized, or option of panels painted Light Silver. Drawers can be used in combination with two-wing doors.

Item	Panel height (mm)	For bay length (mm)	For rack depth (mm)	Usable depth (mm)	Load max. (kg)	Order no.
ESCH 341010-V-Z	100	994	400	337	70	1058018
ESCH 351010-V-Z		994	500	437	70	1058020
ESCH 361010-V-Z		994	600	567	70	1058023
ESCH 341310-V-Z		1,282	400	337	50	1058025
ESCH 351310-V-Z		1,282	500	437	50	1058027
ESCH 361310-V-Z		1,282	600	567	50	1058029
ESCH 341020-V-Z	206	994	400	337	70	1058031
ESCH 351020-V-Z		994	500	437	70	1058033
ESCH 361020-V-Z		994	600	567	70	1058035
ESCH 341320-V-Z		1,282	400	437	50	1058037
ESCH 351320-V-Z		1,282	500	437	50	1058039
ESCH 361320-V-Z		1,282	600	567	50	1058041

Dividers and cross dividers

Pushed into plastic brackets that are connected to the rows of holes in the drawer fronts and side panels. For compartment widths 451, 225 and 112 mm; the compartment depths can be freely configured using adjustable cross dividers. Without cross dividers, the full drawer depth can be used, enabling custom compartment lengths.

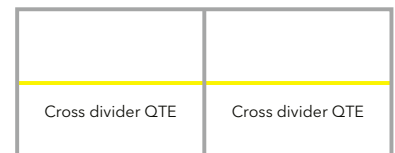
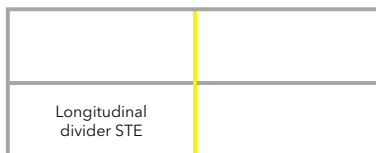
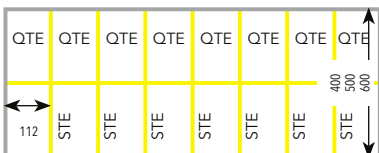


Quarter division, 1x STE and 2x QTE

Item	For drawer	Order no.
SE 4121	ESCH 341010	1042026
SE 4122	ESCH 341020	1042029
SE 5121	ESCH 351010	1042024
SE 5122	ESCH 351020	1042027
SE 6121	ESCH 361010	1042025
SE 6122	ESCH 361020	1042028

Eighth division, 3x STE and 4x QTE

Item	For drawer	Order no.
SE 4141	ESCH 341010	1042032
SE 4142	ESCH 341020	1042035
SE 5141	ESCH 351010	1042030
SE 5142	ESCH 351020	1042033
SE 6141	ESCH 361010	1042031
SE 6142	ESCH 361020	1042034



Sixteenth division, 7x STE and 8x QTE

Item	For drawer	Order no.
SE 4181	ESCH 341010	1042038
SE 4182	ESCH 341020	1042041
SE 5181	ESCH 351010	1042036
SE 5182	ESCH 351020	1042039
SE 6181	ESCH 361010	1042037
SE 6182	ESCH 361020	1042040

Longitudinal dividers

Item	Panel height (mm)	Order no.
STE 4010	100	1041990
STE 4020	206	1041991
STE 5010	100	1042048
STE 5020	206	1042049
STE 6010	100	1042050
STE 6020	206	1042051
QTE/STE	Divider holder	1045123

Cross dividers

Item	Division	Panel height (mm)	Order no.
QTE 1210	1/2	100	1042042
QTE 1220	1/2	206	1042043
QTE 1410	1/4	100	1042044
QTE 1420	1/4	206	1042045
QTE 1810	1/8	100	1042046
QTE 1820	1/8	206	1042047



Blue



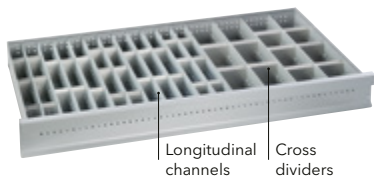
Light Silver

Pull-out shelves
Wing doors

Two-wing doors

The height of the lowest shelf must always be 30 mm. Side and back panels must be ordered separately for retrofitting.

Pull-Out Shelves, Drawer Dividers and Wing Doors



Longitudinal channels
Cross dividers

Combination A

12 longitudinal channels W 46.5 mm and 30 cross dividers; 4 longitudinal channels W 93 mm and 10 cross dividers.



Combination B

6 longitudinal channels W 46.5 mm and 24 cross dividers; 3 longitudinal channels W 93 mm and 12 cross dividers; 2 longitudinal channels W 186 mm and 4 cross dividers.



Combination C

10 longitudinal channels W 93 mm and 20 cross dividers.

Item	Rack depth (mm)	Order no.
SU-3410-A	400	1063248
SU-3510-A	500	1062267
SU-3610-A	600	1063255

Item	Rack depth (mm)	Order no.
SU-3410-B	400	1063253
SU-3510-B	500	1062268
SU-3610-B	600	1063256

Item	Rack depth (mm)	Order no.
SU-3410-C	400	1063254
SU-3510-C	500	1062269
SU-3610-C	600	1063257



Inserts

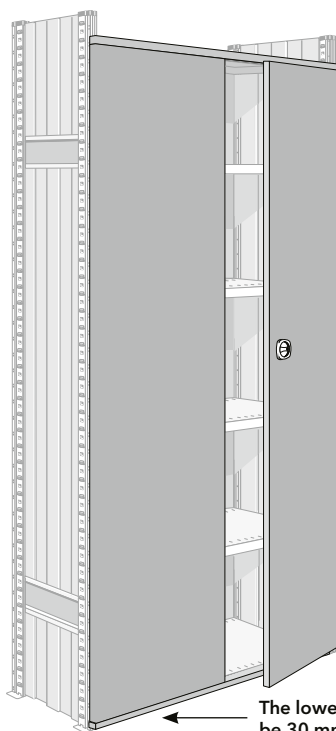
Polystyrene, blue, with handle with labeling option. Packaging units: EK 1: 58 pcs.; EK 2: 80 pcs.; EK 3: 120 pcs.; EK 111-N: 48 pcs.

Item	L x W x H (mm)	Order no.
EK 1	180 x 96 x 60	1000129
EK 2	90 x 96 x 60	1000132
EK 3	90 x 48 x 60	1000135
EK 111-N	137 x 87 x 96	1000216

Inserts, complete set

Only for ESCH 4510 drawer. 10x EK 1, 20x EK 2, 10x EK 3.

Item	Order no.
SET2501	1019516



The lowest shelf must always be 30 mm high.

Two-wing doors

For retrofitting in open rack bays with bay length 994 and 1,282 mm. Height 2,111 mm

To install the lower door fitting, the lowest shelf must always be 30 mm high.

The mounting material is not included in the scope of delivery and must be ordered separately.

Side and back panels must be ordered separately for retrofitting.

Item	For bay length (mm)	Order no.
FTR 4001	994	1042921
FTR 9001	1,282	1042734
BM-FTR-R3	Fixing kit	1042698

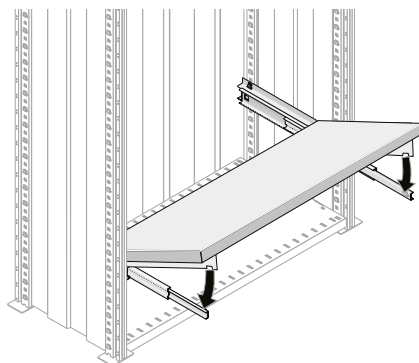


Side and back panels

Page A14

Additional shelves

From page A12



Pull-out shelves

Sheet steel, painted Light Silver. Complete set, incl. accessories. Compartment load: 70 kg (bay length 994 mm) and 50 kg (bay length 1,282 mm).

Item	Rack depth (mm)	Bay length (mm)	Order no.
AZB 40995	400	994	1055319
AZB 41283		1,282	1055791
AZB 50995	500	994	1042926
AZB 51283		1,282	1055537
AZB 60995	600	994	1045244
AZB 61283		1,282	1055538



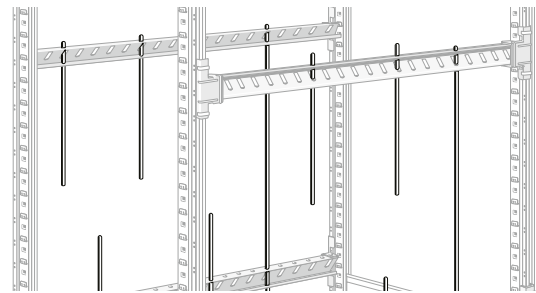
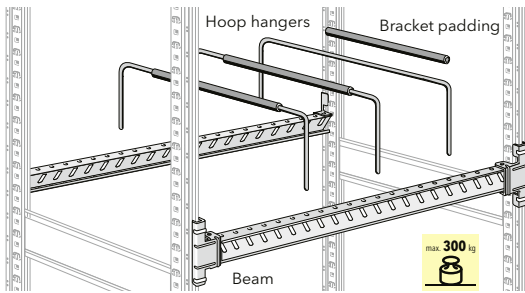
Beams
Tube divider
Push-in holder

Clothes rail set
Rail support
Bridging cross beam

Accessories for Storing Bulky Items

Beams

Used for longitudinal bracing as an alternative to cross braces. For each rack bay, at least two pairs of beams must be secured against lifting using the screws supplied.



Beams

Galvanized sheet steel. The height of the beams can be adjusted in 53 mm steps. Incl. anti-lifting device

Item	Beam length (mm)	Load/pair max. (kg)	Order no.
KTRZ 31036	994	300	1055749
KTRZ 31336	1,282	300	1055301
KTRZ 32036	2,019	300	1055750

Tube dividers

Galvanized sheet steel. The tubes are pushed through the holes in the beams and lock in place automatically.

Item	Tube divider length (mm)	Usable height (mm)	Order no.
KRA 4170	170		1042754
KRA 4300	300		1042755
KRA 4950	Glass parts holder	894	1042756
KRA 4105	Glass parts holder	1,000	1042757

Hoop hangers

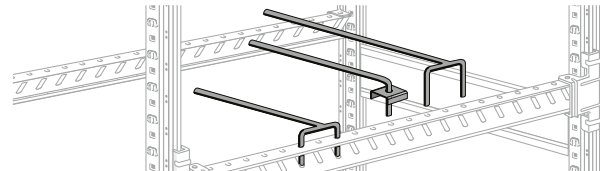
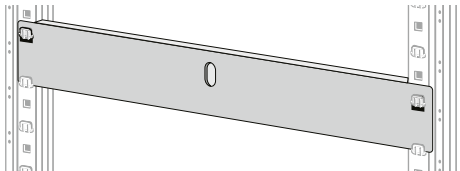
The KTB hangers are used to divide 500 and 800 mm-deep rack bays lengthwise. Height 330 mm.

Item	Frame depth (mm)	Order no.
KTB 50	500	1031724
KTB 80	800	1031725
KTBS50	Bracket padding for 500 mm	2003455
KTBS80	Bracket padding for 800 mm	2003456

Terodaem protective underlay (not shown)

To be stuck onto the beams for the protection of sensitive metal parts. Self-adhesive, 932 mm long, 2 mm thick.

Item	Designation	Order no.
KRT 3102	Terodaem underlay, perforated	1042707



Rail support

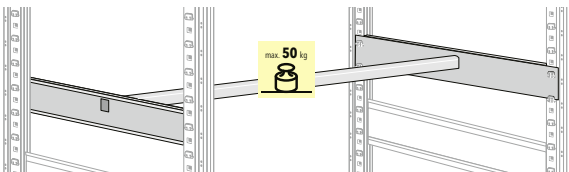
Galvanized sheet steel. For separating bays in upright frames.

Item	For rack depth (mm)	Order no.
AL 3400	400	1042762
AL 3500	500	1042767
AL 3600	600	1042768
AL 3800	800	1042753

Bin dividers

Can be inserted into the holes in the beams.

Item	Usable length (mm)	For rack depth (mm)	Version with	Order no.
APH 340 E	340	400	1 connector	1041856
APH 340	340	400	2 connectors	1041855
APH 740	740	800	2 connectors	1041854



Clothes rail sets

Galvanized sheet steel. For hanging protective covers, foot mats, clothing, etc.

Item	L x D (mm)	Order no.
KST 3108	994 x 800	1042751
KST 3134	1,282 x 400	1042764
KST 3138	1,282 x 800	1042752



Further information on storing bulky items

on request

Accessories for Storing Bulky Items

Shelving Systems

Wide Span Racks

Pallet Racks

Cantilever Racks

On-Line Shelving/
Live Storage Racks

System Platforms

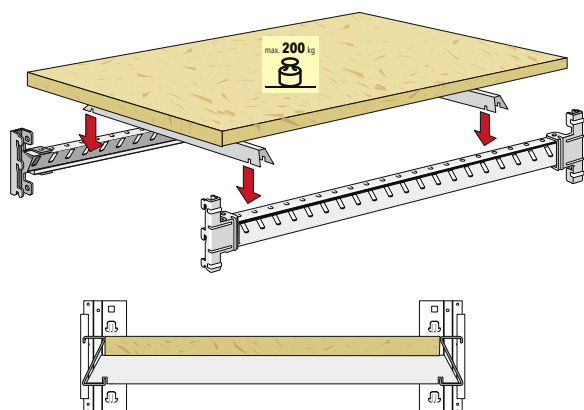
Dynamic Storage

Automated
Logistics Solutions

Logistics Systems

Customer
Service & Support

Software

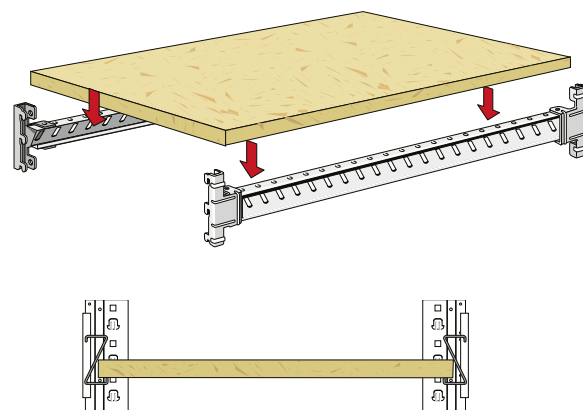


Chipboard shelves, equal height

For one and two-position racks made from 19 mm-high chipboard. They are placed on the longitudinal beams over the universal carrier thereby forming a unit of equal height. At the same time, the 19 mm-high longitudinal edge of the chipboard shelf is protected.

The beams are not included in the scope of delivery; please order separately (page A18).

Item	Frame depth (mm)	W x D x H (mm)	Order no.
For bay length 994 mm incl. 2 universal carriers			
KRHH 341020	400	985 x 317 x 19	2002098
KRHH 351020	500	985 x 417 x 19	2002099
KRHH 361020	600	985 x 517 x 19	1051989
KRHH 381020	800	985 x 717 x 19	1042199
For bay length 1,282 mm incl. 3 universal carriers			
KRHH 341320	400	1,273 x 317 x 19	2002100
KRHH 351320	500	1,273 x 417 x 19	2002101
KRHH 361320	600	1,273 x 517 x 19	2002102
KRHH 381320	800	1,273 x 717 x 19	1042197



Chipboard shelves, recessed

19 mm thick. Inserted recessed between beams to create a compartment.

The beams are not included in the scope of delivery; please order separately (page A18).

Item	Frame depth (mm)	W x D x H (mm)	Order no.
For bay length 994 mm			
KRAB 341020	400	985 x 355 x 19	2002115
KRAB 351020	500	985 x 455 x 19	1051987
KRAB 361020	600	985 x 555 x 19	1052007
KRAB 381020	800	985 x 755 x 19	1052008
For bay length 1,282 mm			
KRAB 341320	400	1,273 x 355 x 19	1051986
KRAB 351320	500	1,273 x 455 x 19	1051988
KRAB 361320	600	1,273 x 555 x 19	2002116
KRAB 381320	800	1,273 x 755 x 19	1052009

Universal carriers, single

For chipboard shelves of equal height.

Item	Frame depth (mm)	Order no.
UT 8400	400	1051982
UT 8500	500	1051984
UT 8600	600	1042201
UT 8800	800	1042200

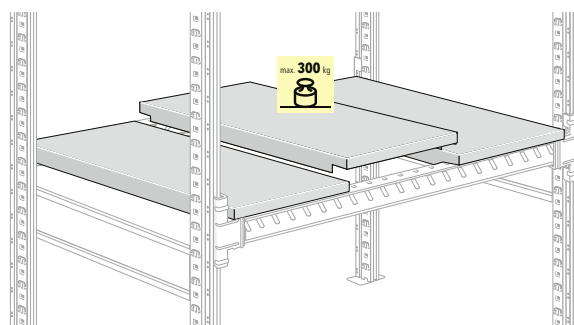


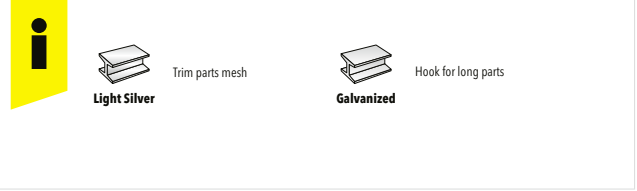
Sheet steel panel

Galvanized; single or multiple panels can be used to create enclosed covered sections within the rack. W 328 x D 800 mm.

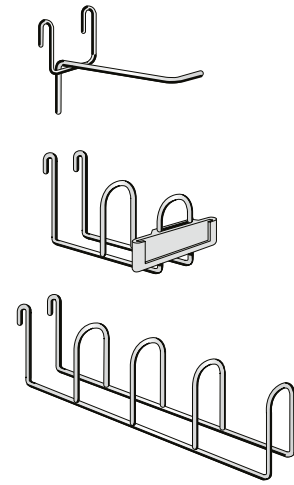
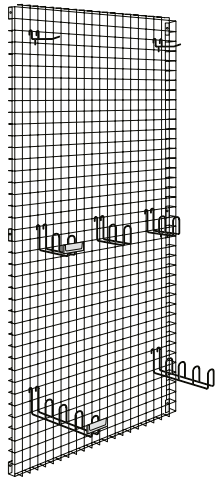
The beams are not included in the scope of delivery; please order separately (page A18).

Item	For bay length (mm)	Order no.
PA7834	994 (3x for bay 994 mm)	1041962





Panel and Long Material Storage



Trim parts mesh

Made from structural steel mesh, 50 x 50 x 4 mm, painted Light Silver. Incl. mounting clips.

Item	W x H (mm)	Order no.
ZR 210/W	1,055 x 2,050	1041756

Hooks for long parts

Steel wire, galvanized. Hook for storing long and trim parts, to be hooked into the trim parts mesh.

Item	Depth (mm)	Height (mm)	Version	Order no.
ZH 1	100	75	1 center bar	1042378
ZH 2	160	75	2 center bars	1042379
ZH 4	350	75	4 center bars	1042380



Card holder, labels and protective film

Item	Version	L x W (mm)	PU	Order no.
ZE 82	Plastic label frame	85 x 20	1	1041758
ZEE	Labeling cards for ZE 82		100	1041772
ZEF	Protective film		100	1041773



Further information on panel and long material storage

on request

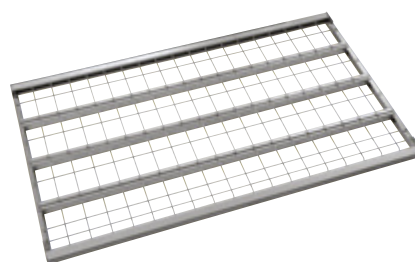
Water-Permeable Shelves, Racks for Storing Hazardous Materials



Project-specific solutions

We implement your requirements with regard to water and/or light permeability for your project using either perforated or wire mesh shelves.

Contact us for more information.



Wire mesh shelves

Edge and reinforcements made of galvanized sheet steel with overlaid, spot-welded galvanized wire mesh. Load capacity up to max. 250 kg. Water-permeability up to 70%; ideal for project-specific fire protection requirements. High light permeability for light working environments and air circulation. Powder-coated version on request.



Item	Rack depth (mm)	L x D x H (mm)	Load (kg)	Order no.
DGB 341010 V	400	994 x 400 x 30	100	1042100
DGB 341020 V	400	994 x 400 x 30	200	1042104
DGB 351010 V	500	994 x 500 x 30	100	1042101
DGB 351020 V	500	994 x 500 x 30	200	1042105
DGB 361010 V	600	994 x 600 x 30	100	1042102
DGB 361020 V	600	994 x 600 x 30	200	1042106
DGB 381020 V	800	994 x 800 x 30	200	1042107
DGB 341315 V	400	1,282 x 400 x 30	150	1042109
DGB 341325 V	400	1,282 x 400 x 30	250	1042113
DGB 351315 V	500	1,282 x 500 x 30	150	1042110
DGB 351325 V	500	1,282 x 500 x 30	250	1042114
DGB 361315 V	600	1,282 x 600 x 30	150	1042111
DGB 361325 V	600	1,282 x 600 x 30	250	1042115
DGB 381325 V	800	1,282 x 800 x 30	250	1042116



Similar to shown

Hazardous materials storage system

Rack with drip tray and floor grating shelves for storing potential water pollutants in accordance with the German Federal Water Act (WHG) and combustible materials pursuant to the Industrial Safety Regulation (BetrSichV, Betriebssicherheitsverordnung) and the substances on the Positive-Liquid list in accordance with DIN 6601. The dangerous goods rack can only be equipped with floor grating shelves and drip trays. It is not possible to use other accessories from the R 3000 system.

The drip tray is attached securely to the lowest shelf level, and is manufactured in accordance with the following test criteria:

- Building Regulations List A, Part 1, seq. no. 15.22 Edition 2002/2 of the German Institute for Structural Engineering
- Ordinance on Installations for the Handling of Substances Hazardous to Water (VawS)
- Section 19h of WHG in conjunction with VawS
- Directive on the Requirements for Drip Trays Made from Steel (StawaR)
- DIN 6600, DIN 6601, DIN 6625

Above-ground drip trays made of sheet steel S350GD + Z, liquid-tight welded, suitable for materials with a density of max. 1,000 kg/m³. A corresponding test certificate from RWTÜV has been issued. Compliance with the guidelines is documented by the identification plate on the tray and the relevant declaration of conformity.

Floor grating shelves

Item	Rack depth (mm)	L x D x H (mm)	Load (kg)	Order no.
G 4400	400	993 x 345 x 30	200	1051519
G 4500	500	993 x 445 x 30	200	1055539
G 4600	600	993 x 545 x 30	200	1055792
G 4800	800	993 x 745 x 30	200	1051520



Drip tray

on request

Wheel Storage

Wheel and rim storage is efficient when it is optimally tailored to the local conditions. This requires space-saving, flexible and safe systems. SSI SCHAEFER's wheel storage systems meet precisely those criteria.

Storing wheels and rims has never been this easy and convenient. The specially shaped wheel and rim beams simply slot into the pre-assembled upright frames without the need for screws and also provide additional rigidity for the rack bay. The individual levels can be adjusted in a grid of 53 x 53 mm steps whenever needed.

SSI SCHAEFER offers a range of wheel storage solutions: side by side in single and double-depth racks or in sets, one behind the other in channels.

Car dealerships and workshops are increasingly relying on complete service concepts to provide added value for their customers. This includes services such as storing the customers' wheels.

The wide range of reference systems we have installed tell their own story. SSI SCHAEFER will design the most economical, technically and ergonomically optimized system based on your specific application and usage scenario.

We will be happy to advise you - contact us!





Galvanized

Push-fit construction for fast installation

Clear bay lengths:
994 / 1,100 / 1,282 / 1,506 / 2,019 mm,
Rack heights:
2,278 / 2,490 / 2,967 mm
Rack depths: 400 mm

High load capacity up to max. 1,500 kg per bay

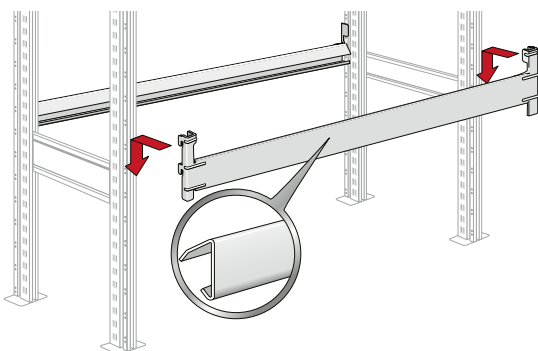
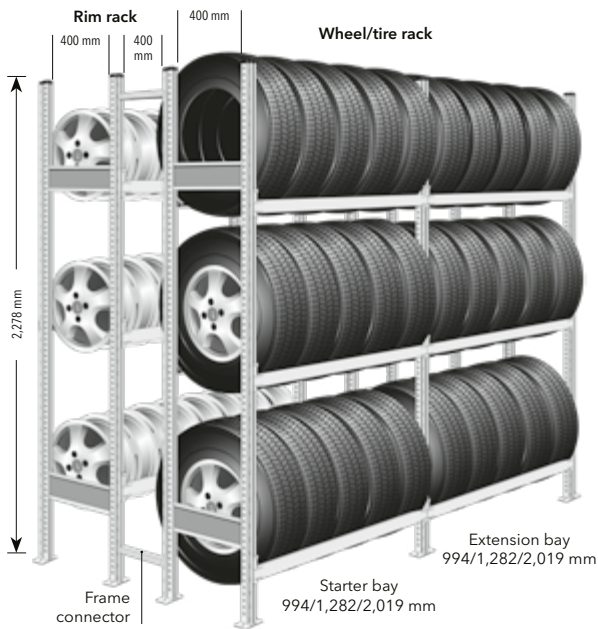
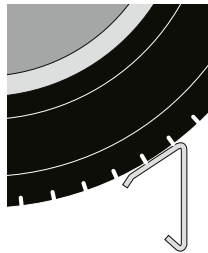
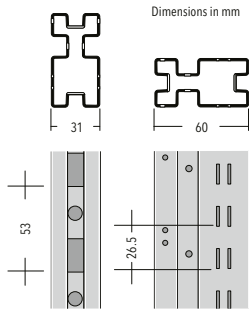
Additional storage space by using shelves. These are attached to the upright slots using shelf supports

Upright frames with slotted design

Adjustment grid:
Beams 53 x 53 mm
Shelves 26.5 x 26.5 mm

Protective storage

of wheels and rims thanks to smooth-edged upright frames (with no lugs) and special beam profile



Wheel and rim beams

Item	Clear bay length (mm)	Load/pair max. (kg)	Order no.
RTR 31015	994	100	1042665
RTR 31115	1,100	100	1042748
RTR 31315	1,282	100	1042704
RTR 31325	1,282	200	1042705
RTR 31525	1,506	200	1042709
RTR 32025	2,019	200	1042706
RTR-VS3400	Torsion bar for clear bay length 2,019 mm		1051913

Wheel Storage - Complete Racks/Individual Parts

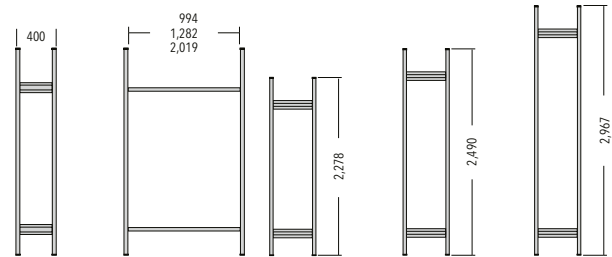
Complete racks for wheels and rims

For approx. 15/18 average-size wheels and tires per bay. Extra sturdy and flexible push-fit system. Galvanized sheet steel. Complete units consisting of: Starter bay: 2 pre-assembled frames and 6 beams (= 3 warehouse levels), 4 end caps and 4 floor mounts, underlay material and rack nameplate

Extension bay: 1 pre-assembled frame and 6 beams (= 3 warehouse levels), 2 end caps and 2 floor mounts, underlay material and rack nameplate.

Clear bay length: 994/1,282/2,019 x H 2,278 x D 400 mm
Adjustment grid: 53 x 53 mm

Item	Type	Bay length (mm)	Order no.
RFR34102233V-GF-G	Starter bay	994	1055365
RFR34102233V-AF-G	Extension bay	994	1055366
RFR34132236V-GF-G	Starter bay	1,282	1055408
RFR34132236V-AF-G	Extension bay	1,282	1055409
RFR34202236V-GF-G	Starter bay	2,019	1055410
RFR34202236V-AF-G	Extension bay	2,019	1055411

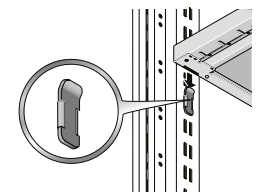


Rack frames, galvanized

Item	Rack height (mm)	Rack depth (mm)	Bay load max. (kg)	Order no.
RR34322-V-G-M	2,278	400	1,500	1057438
RR34325-V-G-M	2,490	400	1,500	1057439
RR34330-V-G-M	2,967	400	1,500	1057440

Shelf supports

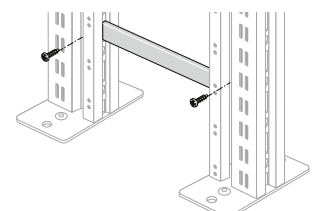
For installing the shelves on slotted frames. Four shelf supports are required for each shelf. Shelves from page A12.



Item	PU	Order no.
EHH-SB	1	1041477

Frame connectors

Galvanized sheet steel. For connecting two rack bays back-to-back in a row. Incl. fixing kit.



Item	For frame distance (mm)	Order no.
RV 3300	300	1044699
RV 3400	400	1052594

Shelving Systems

Wide Span Racks

Pallet Racks

Cantilever Racks

On-Line Shelving/
Live Storage Racks

System Platforms

Dynamic Storage

Automated
Logistics Solutions

Logistics Systems

Customer
Service & Support

Software

Accessories for R 3000 Shelving Systems

SSI SCHAEFER's accessories are designed to integrate effortlessly into all rack systems and make the ideal addition to any rack.

Thanks to their compatible dimensions, these elements can be combined to fit the individual rack bays, whatever their intended purpose.

Whether high bay racking or single or multi-tier rack and platform systems, SSI SCHAEFER's extensive range of accessories can be used to create the perfect storage system.

Because all parts fit together perfectly.



Storage Made Easy



Storage location label

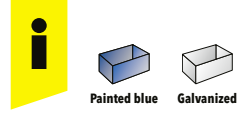
From page C18

Stairs, conveyor guide rails and lighting installations

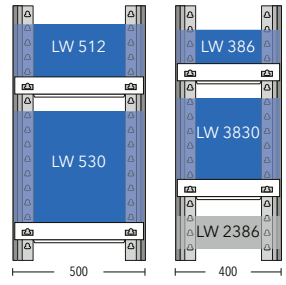
on request



Storage Trays for Bay Length 994 mm



- Easy assembly
- Organizable
can be divided into max. 12 compartments



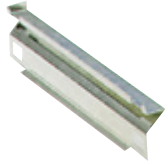
LW 386 storage tray for rack depth 400 and 800 mm
Steel, painted blue. Stackable with LW 3830.

Item		W x D x H (mm)/PU	Order no.
LW 386	LW 386 storage tray	980 x 386 x 120	1041755
LWT 386/2386	Divider, galvanized	1 piece	1041858
AP 4400/4800	Support profile	1 pair	1041908
EHK 75	Card holder	W 75 mm, 50 pcs.	1041822
EHKE 75	Labels	W 75 mm, 100 pcs.	1041823



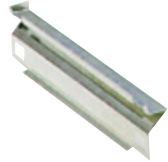
LW 512 storage tray for rack depth 500 and 1,000 mm
Steel, painted blue. Stackable.

Item		W x D x H (mm)/PU	Order no.
LW 512	LW 512 storage tray	980 x 486 x 120	1041798
LWT 512	Divider, galvanized	1 piece	1041799
AP 4500	Support profile	1 pair	1041800
EHK 75	Card holder	W 75 mm, 50 pcs.	1041822
EHKE 75	Labels	W 75 mm, 100 pcs.	1041823



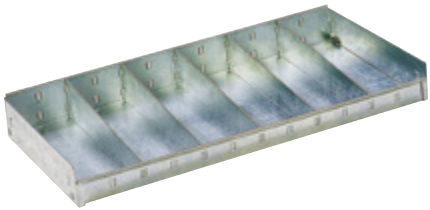
LW 530 storage tray for rack depth 500 and 1,000 mm
Steel, painted blue. Stackable.

Item		W x D x H (mm)/PU	Order no.
LW 530	LW 530 storage tray	980 x 486 x 300	1041796
LWT 530	Divider, galvanized	1 piece	1041797
AP 4500	Support profile	1 pair	1041800
EHK 75	Card holder	W 75 mm, 50 pcs.	1041822
EHK 85	Card holder	W 85 mm, 50 pcs.	1041792
EHK 135	Card holder	W 135 mm, 50 pcs.	1041793
EHKE 75	Labels	W 75 mm, 100 pcs.	1041823
EHKE 85	Labels	W 85 mm, 100 pcs.	1041794
EHKE 135	Labels	W 135 mm, 100 pcs.	1041795



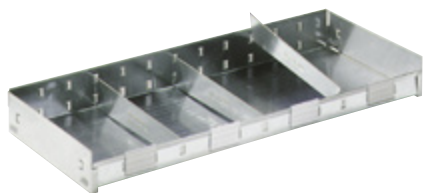
LW 3830 storage tray for rack depth 400 and 800 mm
Steel, painted blue. Stackable with LW 386.

Item		W x D x H (mm)/PU	Order no.
LW 3830	LW 3830 storage tray	980 x 386 x 300	1041766
LWT 3830	Divider, galvanized	1 piece	1041767
AP 4400/4800	Support profile	1 pair	1041908
EHK 75	Card holder	W 75 mm, 50 pcs.	1041822
EHK 85	Card holder	W 85 mm, 50 pcs.	1041792
EHKE 75	Labels	W 75 mm, 100 pcs.	1041823
EHKE 85	Labels	W 85 mm, 100 pcs.	1041794



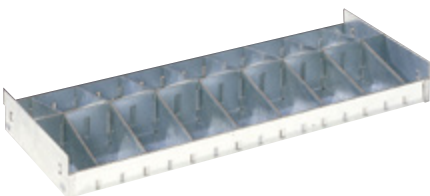
LW 512-Z storage tray for rack depth 500 mm
Steel, galvanized. For direct attachment.

Item		W x D x H (mm)/PU	Order no.
LW 512-Z	LW 512-Z storage tray	981 x 486 x 120	1041843
LWT 512-Z	Divider, galvanized	1 piece	1041845
EHK 75	Card holder	W 75 mm, 50 pcs.	1041822
EHKE 75	Labels	W 75 mm, 100 pcs.	1041823



LW 2386 storage tray for rack depth 400 mm
Steel, galvanized. For direct attachment.

Item		W x D x H (mm)/PU	Order no.
LW 2386	LW 2386 storage tray	980 x 386 x 100	1041857
LWT 386/2386	Divider, galvanized	1 piece	1041858
EHK 75	Card holder	W 75 mm, 50 pcs.	1041822
EHKE 75	Labels	W 75 mm, 100 pcs.	1041823



LW 2386-M storage tray for rack depth 400 mm
Steel, galvanized. For direct attachment.

Item		W x D x H (mm)/PU	Order no.
LW 2386-M	LW 2386-M storage tray	980 x 386 x 100	1041862
LWT 2386-M	Divider, galvanized	1 piece	1041863
EHK 75	Card holder	W 75 mm, 50 pcs.	1041822
EHKE 75	Labels	W 75 mm, 100 pcs.	1041823



- Designed for SSI SCHAEFER Shelving Systems
- Extensive range of organizational accessories
Labeling and partition options
(useful for large and small warehouses)

Sheet Steel Shelf Containers

Shelving Systems

Wide Span Racks

Pallet Racks

Cantilever Racks

On-Line Shelving/
Live Storage Racks

System Platforms

Dynamic Storage

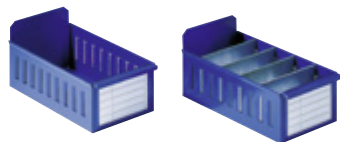
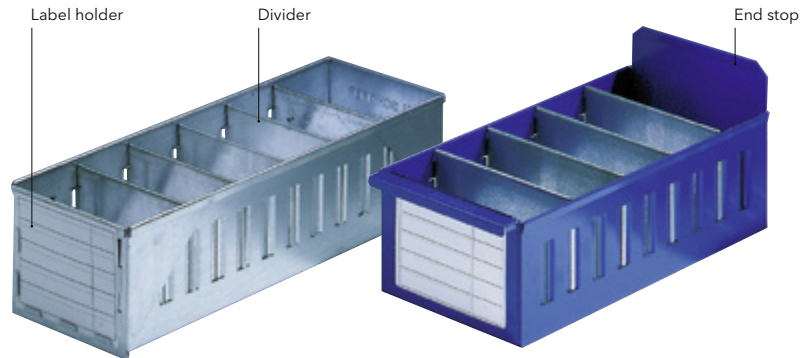
Automated
Logistics Solutions

Logistics Systems

Customer
Service & Support

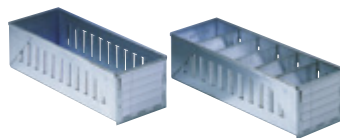
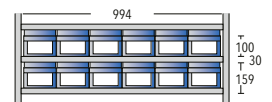
Software

Plastic shelf containers
on request



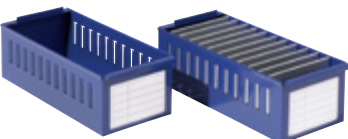
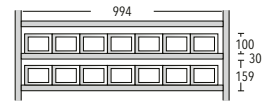
RK 301 shelf containers Steel, painted blue
Can be divided into max. 10 compartments, 6 containers per shelf.

Item	Description (W x D x H mm)	PU	Order no.
RK 301	Shelf container (162 x 317 x 100/137)	1 pc.	1041760
RKE 386	Labels for front	100 pcs.	1041748
RKF 386	Protective film	100 pcs.	1041771
RKT 335/301	Divider, galvanized	1 pc.	1041746



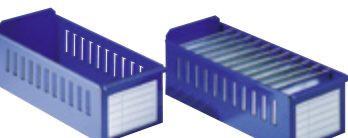
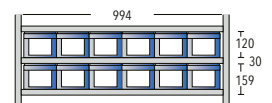
RK 2386 shelf containers Steel, galvanized
Can be divided into max. 12 compartments, 7 containers per shelf.

Item	Description (W x D x H mm)	PU	Order no.
RK 2386	Shelf container (136 x 393 x 100/107)	1 pc.	1064638
RKE 2386	Labels for front	100 pcs.	1041761
RKF 2386	Protective film	100 pcs.	1041762
RKT 2386	Divider, galvanized	1 pc.	1057326



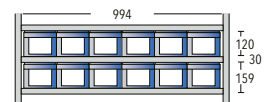
RK 4386 shelf containers Steel, painted blue
Can be divided into max. 12 compartments, 6 containers per shelf.

Item	Description (W x D x H mm)	PU	Order no.
RK 4386	Shelf container (162 x 398 x 120/137)	1 pc.	1041853
RKE 386	Labels for front	100 pcs.	1041748
RKF 386	Protective film	100 pcs.	1041771
RKT 386/ 512/4386	Divider, galvanized	1 pc.	1058252



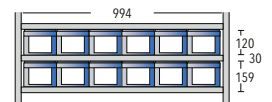
RK 386 shelf containers Steel, painted blue
Can be divided into max. 12 compartments, 6 containers per shelf.

Item	Description (W x D x H mm)	PU	Order no.
RK 386	Shelf container (162 x 404 x 120/137)	1 pc.	1041747
RKE 386	Labels for front	100 pcs.	1041748
RKF 386	Protective film	100 pcs.	1041771
RKT 386/ 512/4386	Divider, galvanized	1 pc.	1058252



RK 512 shelf containers Steel, painted blue
Can be divided into max. 16 compartments, 6 containers per shelf.

Item	Description (W x D x H mm)	PU	Order no.
RK 512	Shelf container (162 x 504 x 120/137)	1 pc.	1041844
RKE 386	Labels for front	100 pcs.	1041748
RKF 386	Protective film	100 pcs.	1041771
RKT 386/ 512/4386	Divider, galvanized	1 pc.	1058252



Safety Fence Systems

SSI SCHAEFER rack systems and the safety fence system are designed to be compatible. Universally usable for any application. With a standard element width and matching bay.

All wing door variants are fitted with anti-theft protection, are self-closing and prepared for lock cylinders.

Left-hinged doors can be converted into right-hinged doors with minimal effort.



Safety fence systems
on request



Similar to shown



Similar to shown

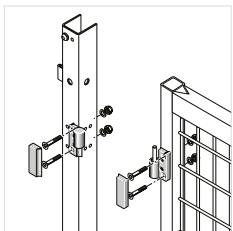
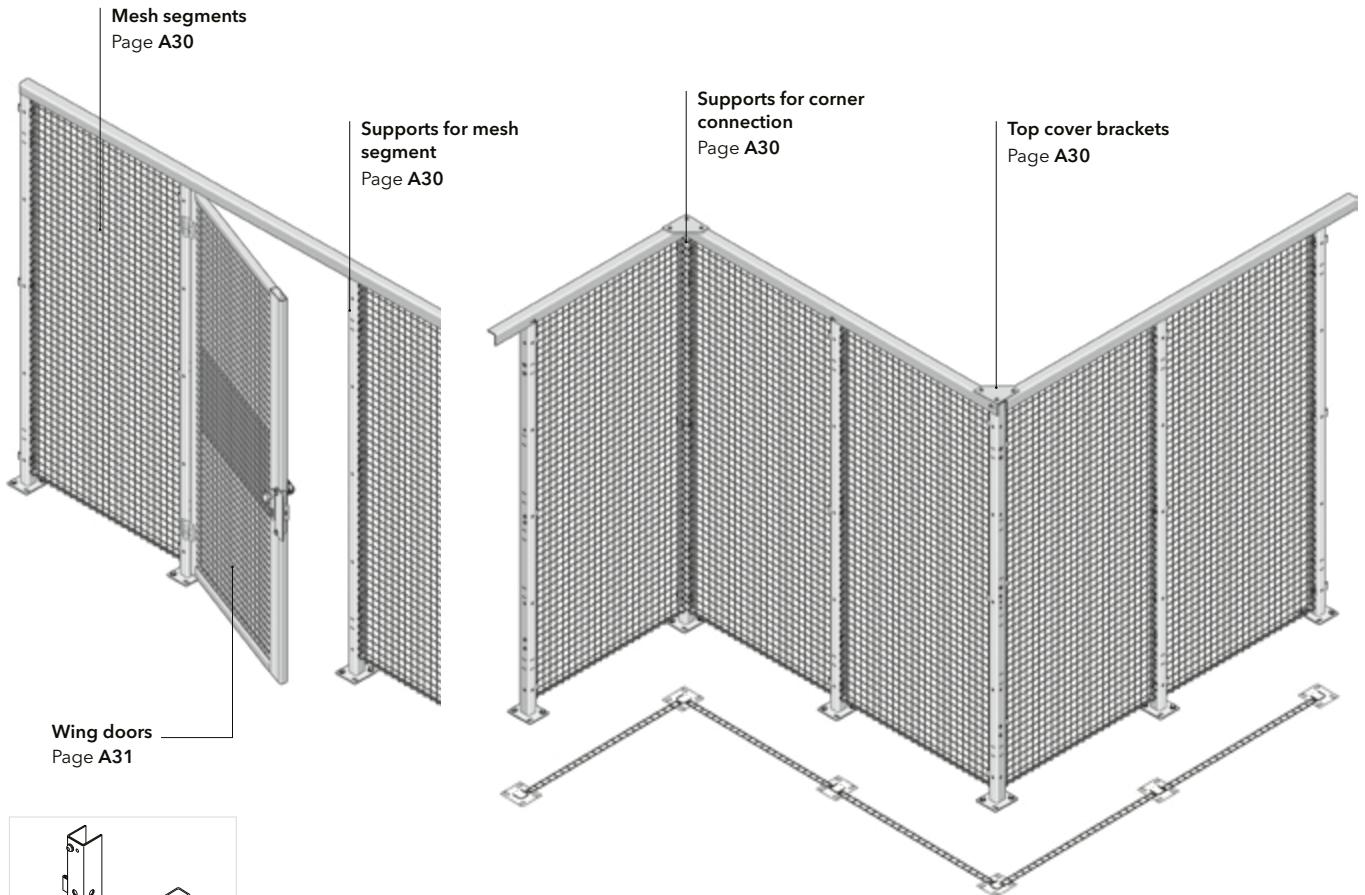


- **Structural steel mesh**
Wire thickness of 4 mm, folded at the sides
- **Mesh size**
40 x 40 mm, therefore suitable for machine protection as per DIN EN ISO 14120:2016-05
- **Surface**
High-quality stove-enamel finish
- **Supports**
Made of sturdy U-shaped cold profile 50/55/3 mm, pre-punched
Pre-drilled foot plates for floor mounting, incl. expansion anchors
- **Also available in RAL 7024**
- **Further colors**
galvanized and RAL 1018 available on request

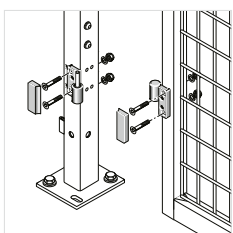


Similar to shown

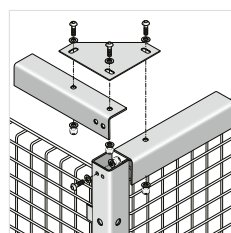
Safety Fence System Design



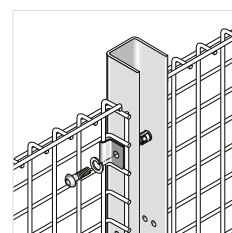
Top stop



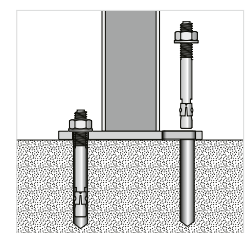
Bottom stop



Top end strips



Easy post connection



Floor mounting



Colza Yellow
RAL 1021

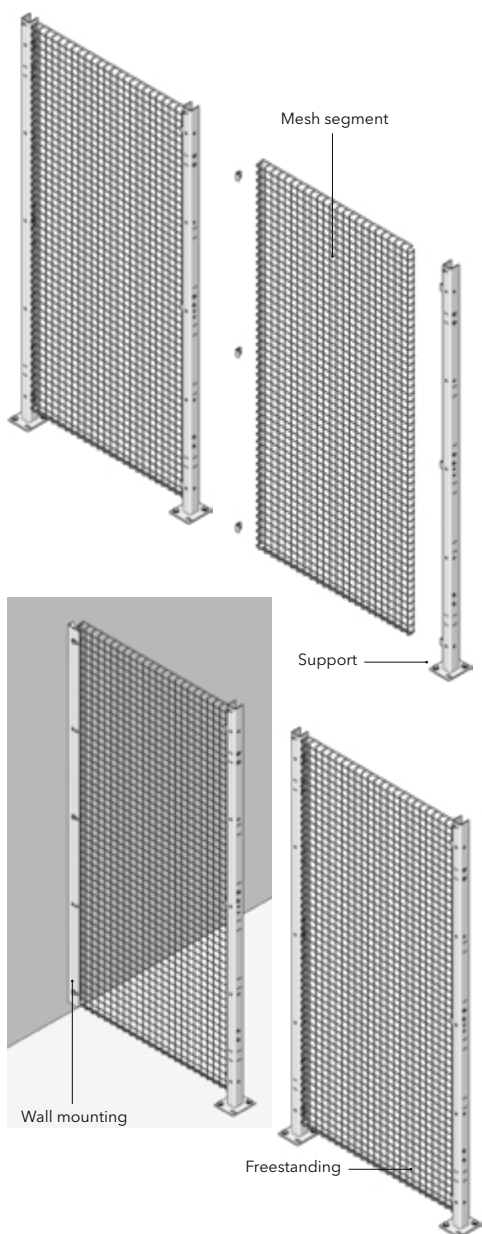
Gentian Blue
RAL 5010

Light Silver

■ Also available in RAL 7024

■ Further colors
galvanized and RAL 1018 available
on request

Mesh Segments



Mesh elements

Item	W x H (mm)	Order no.		
		Colza Yellow	Gentian Blue	Light Silver
ZAS-GEA 020	150 x 2,086	1053114	1053119	1053124
ZAS-GEA 040	350 x 2,086	1053113	1053118	1053123
ZAS-GEA 060	550 x 2,086	1053112	1053117	1053122
ZAS-GEA 080	750 x 2,086	1053111	1053116	1053121
ZAS-GEA 100	950 x 2,086	1053110	1053115	1053120

Supports

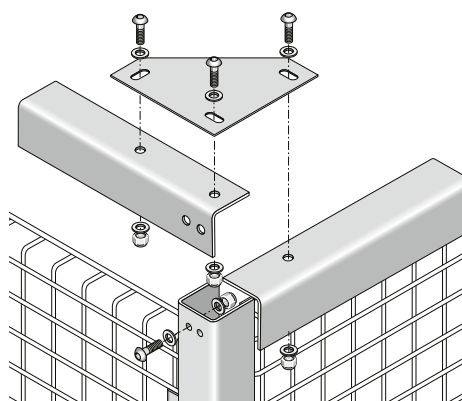
Item	Height (mm)	Order no.		
		Colza Yellow	Gentian Blue	Light Silver
Center support				
ZAS-SN-2193	2,193	1053395	1053396	1053397
Corner support				
ZAS-ESN-2193	2,193	1053399	1053400	1053401



Safety fence systems

on request

Accessories



Top cover brackets

Top end strips made of angled profile 50/50/3 mm are screwed onto the top of the divider supports for stabilization.

Item	L x W x H (mm)	Order no.		
		Colza Yellow	Gentian Blue	Light Silver
ZAS-AW215	2,150 x 50 x 50	1053362	1053363	1053364
ZAS-AW600	6,000 x 50 x 50	1053366	1053367	1053368

Single-wing doors

Suitable for DIN "left" and DIN "right". Two sturdy cover panels at the height of the lock. Includes stop and lock.

Item	Clear W x H (mm)	Order no.		
		Colza Yellow	Gentian Blue	Light Silver
Prepared for mortise lock				
ZAS-ETG85-ES	850 x 2,070	1053131	1053132	1053133
ZAS-ETG100-ES	1,000 x 2,070	1053143	1053144	1053145
With mortise lock with bolt lock				
ZAS-ETG85-ESR	850 x 2,070	1053135	1053136	1053137
ZAS-ETG100-ESR	1,000 x 2,070	1053147	1053148	1053149
With panic lock				
ZAS-ETG85-PS	850 x 2,070	1053139	1053140	1053141
ZAS-ETG100-PS	1,000 x 2,070	1053151	1053152	1053153
With panic bar, right				
ZAS-ETGPR85-PS	850 x 2,070	1053403	1053404	1053405
ZAS-ETGPR100-PS	1,000 x 2,070	1053415	1053416	1053417
With panic bar, left				
ZAS-ETGPL85-PS	850 x 2,070	1053407	1053408	1053409
ZAS-ETGPL100-PS	1,000 x 2,070	1053419	1053420	1053421

Two-wing doors

Two sturdy cover panels at the height of the lock. Includes stop and lock, prepared for on-site installation of a lock cylinder.

Item	W x H (mm)	Order no.		
		Colza Yellow	Gentian Blue	Light Silver
ZAS-ZTG100	2,000 x 2,070	1053155	1053156	1053157

Sliding door

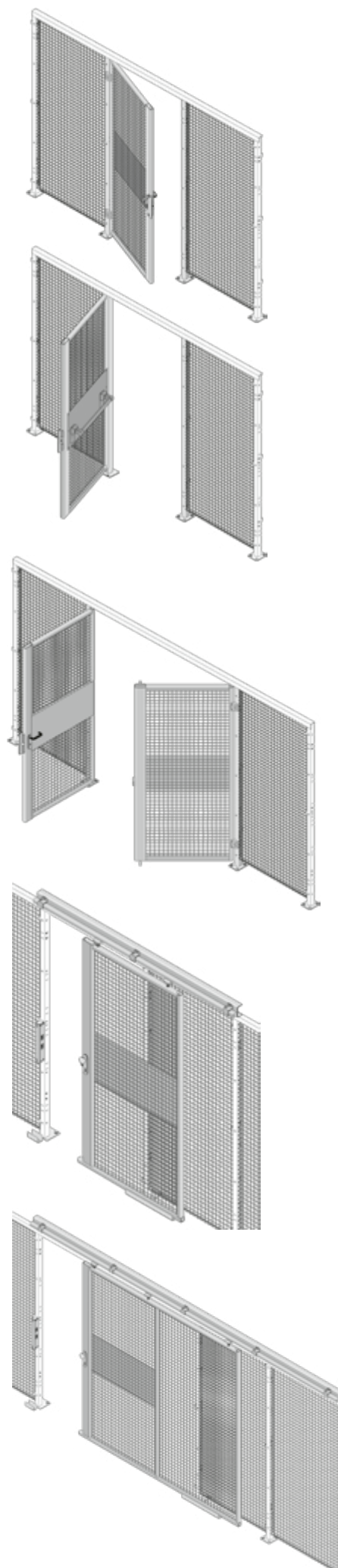
Two sturdy cover panels at the height of the lock. Includes stop and lock, prepared for on-site installation of a lock cylinder.

Item	W x H (mm)	Clear opening (mm)	Order no.		
			Colza Yellow	Gentian Blue	Light Silver
ZAS-STG85	1,110 x 2,110	750	1053459	1053460	1053461

Sliding gate

Two sturdy cover panels at the height of the lock. Includes stop and lock, prepared for on-site installation of a lock cylinder.

Item	W x H (mm)	Clear opening (mm)	Order no.		
			Colza Yellow	Gentian Blue	Light Silver
ZAS-STOG198	2,238 x 2,110	1,890	1053468	1053469	1053470



Shelving Systems

Wide Span Racks

Pallet Racks

Cantilever Racks

On-Line Shelving/
Live Storage Racks

System Platforms

Dynamic Storage

Automated
Logistics Solutions

Logistics Systems

Customer
Service & Support

Software



Wide Span Rack Systems

Warehousing and order picking requirements are becoming increasingly complex due to the diversity of products.

Wherever the very high load capacities of a pallet rack are not required, SSI SCHAEFER's wide span racks can meet your individual requirements for optimized storage technology with ease while creating plenty of space with only a small footprint. They are particularly useful for easy warehousing of bulky goods.

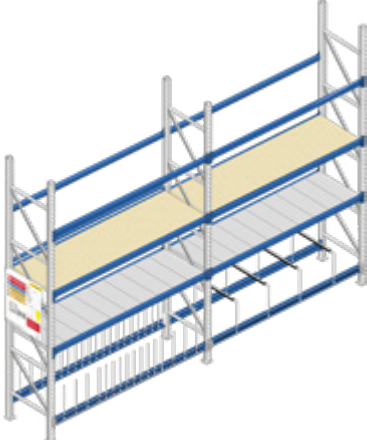




Contents



■ WR 3000 wide span racks Page **B4**



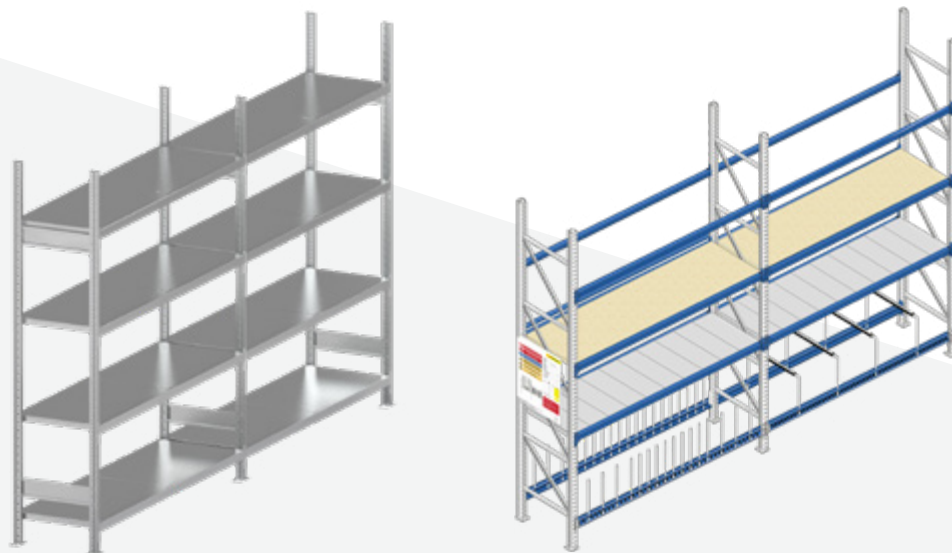
■ WR 600 wide span racks Page **B8**

i Information on **inspection requirements** for rack installations
Chapter J, page J6

All load values specified apply for evenly distributed loads.



Overview of Wide Span Rack Systems



WR 3000 wide span racks

WR 600 wide span racks

Applications	<ul style="list-style-type: none"> ■ Storage of large-volume storage goods with light and medium loads. 	<ul style="list-style-type: none"> ■ Storage of large-volume storage goods with light, medium and high loads.
Advantages	<ul style="list-style-type: none"> ■ Easy to install ■ Flexible thanks to quick adjustment ■ Can be expanded with components for the R 3000 shelving systems 	<ul style="list-style-type: none"> ■ Extensive range of compartment fittings ■ Covers a wide range of applications ■ Expandable at any time
System	<ul style="list-style-type: none"> ■ Frame system with push-fit construction for fast installation 	<ul style="list-style-type: none"> ■ Frame system with push-fit construction for fast installation
Design	<ul style="list-style-type: none"> ■ Frame system, 3 bay lengths, 4 rack depths, various heights 	<ul style="list-style-type: none"> ■ Frame system, 4 bay lengths, 4 rack depths, various heights
Load capacity	<ul style="list-style-type: none"> ■ Up to max. 2,000 kg per rack bay 	<ul style="list-style-type: none"> ■ Up to max. 3,500 kg per rack frame
System grid	<ul style="list-style-type: none"> ■ Lug grid with 53 mm steps 	<ul style="list-style-type: none"> ■ Lug grid with 50 mm steps
Upright surface	<ul style="list-style-type: none"> ■ Galvanized 	<ul style="list-style-type: none"> ■ Galvanized
Beam surface	<ul style="list-style-type: none"> ■ Galvanized 	<ul style="list-style-type: none"> ■ Galvanized/painted RAL 5010
From page	B4	B8

WR 3000 Rack Frames and Accessories

Rack frames

The upright profiles are made from cold-rolled, high-strength, galvanized steel and are connected by horizontal braces to create a stable frame.



Item	Frame depth (mm)	Order no.
Frame height 1,960 mm		
RR 34319-V-M	400	1057356
RR 35319-V-M	500	1057357
RR 36319-V-M	600	1057358
RR 38319-V-M	800	1057359

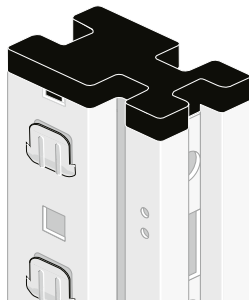
Item	Frame depth (mm)	Order no.
Frame height 2,278 mm		
RR 34322-V-M	400	1057407
RR 35322-V-M	500	1057409
RR 36322-V-M	600	1057410
RR 38322-V-M	800	1057411

Item	Frame depth (mm)	Order no.
Frame height 2,490 mm		
RR 34325-V-M	400	1057413
RR 35325-V-M	500	1057414
RR 36325-V-M	600	1057415
RR 38325-V-M	800	1057416

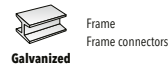
Item	Frame depth (mm)	Order no.
Frame height 2,967 mm		
RR 34530-V-M	400	1057433
RR 35530-V-M	500	1057434
RR 36530-V-M	600	1057435
RR 38530-V-M	800	1057436

End cap

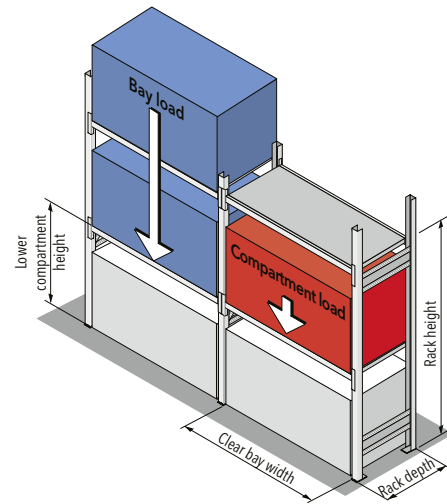
High-quality plastic, black. Attached to the rack uprights as an end piece.



Item	Order no.
AK 3000	1041887



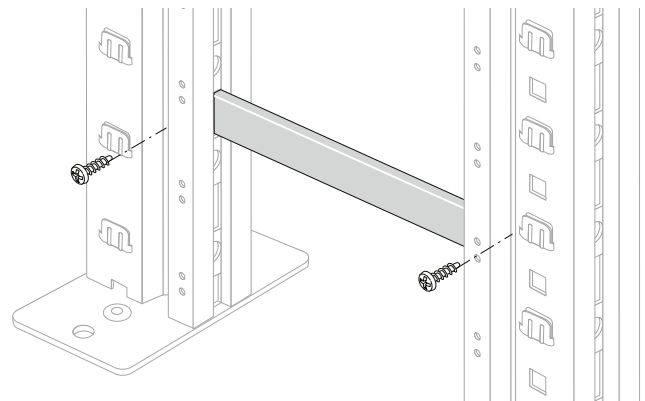
- **High load capacity**
up to max. 2,000 kg per rack bay, up to max. load of 400 kg per storage compartment
- **Large shelf compartment**
for large-volume storage goods, consists of rack frame, beams and shelves
- **Extension system**
3 bay lengths, 4 rack depths, various heights
- **System hole pattern 53 x 53 mm**
- **Extensive range of accessories**
Compatible with R 3000 shelving systems (Chapter A)



Load capacity of the rack bay

Rack height	1,960 mm	2,278 mm	2,490 mm	2,967 mm
Bay width	Bay load			
1,988 mm	1,600 kg	1,600 kg	1,600 kg	2,000 kg
2,276 mm	1,500 kg	1,500 kg	1,500 kg	2,000 kg
2,564 mm	1,250 kg	1,250 kg	1,250 kg	1,800 kg

Condition: Max. height of lower compartment 200 mm, max. compartment height 600 mm



Frame connectors

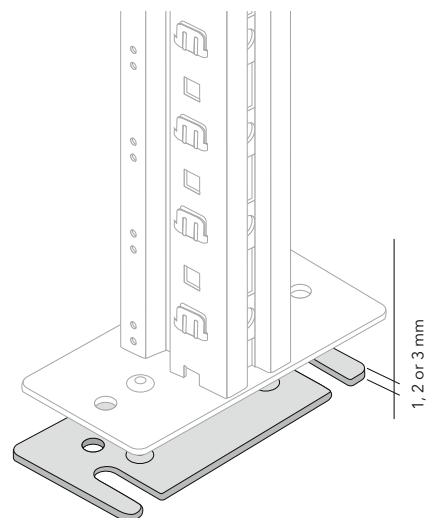
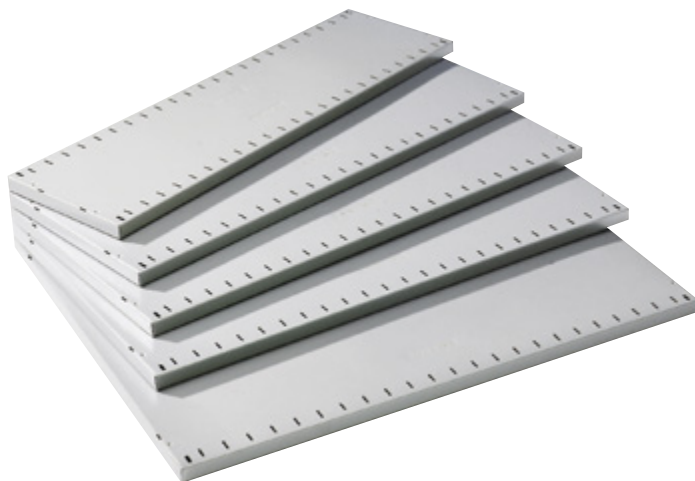
Galvanized sheet steel. For connecting two rack bays back-to-back in a row. Incl. fixing kit.

Item	Frame distance (mm)	Order no.
RV 3030	30	1055064
RV 3050	50	1042920
RV 3100	100	1055318
RV 3300	300	1044699



Galvanized

WR 3000 Accessories



Shelves

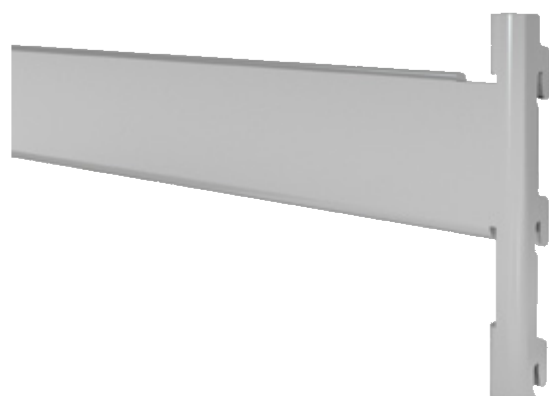
Galvanized sheet steel. The load values only apply in combination with longitudinal beams.

Item	Frame depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
ZB 341010 V	400	994	200	1056019
ZB 341315 V		1282	200	1056998
ZB 351010 V	500	994	200	1056020
ZB 351315 V		1282	200	1056022
ZB 361010 V	600	994	200	1057123
ZB 331315 V		1282	200	1056999
ZB 381020 V	800	994	200	1056021
ZB 381325 V		1282	200	1057155

Shim plates

Galvanized sheet steel. To compensate for minor unevenness in the floor.

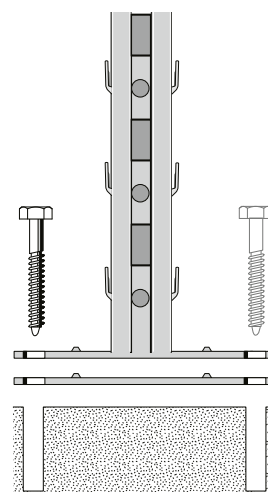
Item	Thickness (mm)	Order no.
UP3001-V	1	1057106
UP3002-V	2	1057537
UP3003-V	3	1057539



Longitudinal beams

Galvanized sheet steel.

Item	Frame depth (mm)	Max. load per shelf (kg)	Order no.
WR-LTR 3206 V	1,994	400	1053787
WR-LTR 3236 V	2,282	400	1053733
WR-LTR 3256 V	2,570	400	1055417



Floor mounting

Screw anchors for securing the rack uprights to the floor.

Item	Order no.
HUS3-H6x60	1036114

Shelving Systems

Wide Span Racks

Pallet Racks

Cantilever Racks

On-Line Shelving/
Live Storage Racks

System Platforms

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Automated
Logistics Solutions

Logistics Systems

Customer Service &
Support

Software

WR 3000 Single Racks



Complete WR 3000 racks with 3 compartment levels 1,960 mm high (starter bays)

2 pre-assembled frames, 6 longitudinal beams, 6 shelves, screw anchors, underlay material, end caps and rack nameplate.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per bay (kg)	Order no.
WR 34319203 G	400	1,994	1,600	1052194
WR 34319233 G		2,282	1,500	1052210
WR 34319253 G		2,570	1,250	1052226
WR 35319203 G	500	1,994	1,600	1052195
WR 35319233 G		2,282	1,500	1052211
WR 35319253 G		2,570	1,250	1052227
WR 36319203 G	600	1,994	1,600	1052196
WR 36319233 G		2,282	1,500	1052212
WR 36319253 G		2,570	1,250	1052228
WR 38319203 G	800	1,994	1,600	1052197
WR 38319233 G		2,282	1,500	1052213
WR 38319253 G		2,570	1,250	1052229

Extension bays

1 pre-assembled frame, 6 longitudinal beams, 6 shelves, screw anchors and end caps.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per bay (kg)	Order no.
WR 34319203 A	400	1,994	1,600	1052242
WR 34319233 A		2,282	1,500	1052258
WR 34319253 A		2,570	1,250	1052302
WR 35319203 A	500	1,994	1,600	1052243
WR 35319233 A		2,282	1,500	1052259
WR 35319253 A		2,570	1,250	1052303
WR 36319203 A	600	1,994	1,600	1052244
WR 36319233 A		2,282	1,500	1052260
WR 36319253 A		2,570	1,250	1052304
WR 38319203 A	800	1,994	1,600	1052245
WR 38319233 A		2,282	1,500	1052261
WR 38319253 A		2,570	1,250	1052305

Additional compartment levels

2 longitudinal beams, 2 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per bay (kg)	Order no.
WR-ZE 3420	400	1,994	400	1052278
WR-ZE 3423		2,282	400	1052282
WR-ZE 3425		2,570	400	1052286
WR-ZE 3520	500	1,994	400	1052279
WR-ZE 3523		2,282	400	1052283
WR-ZE 3525		2,570	400	1052287
WR-ZE 3620	600	1,994	400	1052280
WR-ZE 3623		2,282	400	1052284
WR-ZE 3625		2,570	400	1052288
WR-ZE 3820	800	1,994	400	1052281
WR-ZE 3823		2,282	400	1052285
WR-ZE 3825		2,570	400	1052289



Complete WR 3000 racks with 3 compartment levels 2,278 mm high (starter bays)

2 pre-assembled frames, 6 longitudinal beams, 6 shelves, screw anchors, underlay material, end caps and rack nameplate.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per bay (kg)	Order no.
WR 34322203 G	400	1,994	1,600	1052198
WR 34322233 G		2,282	1,500	1052214
WR 34322253 G		2,570	1,250	1052230
WR 35322203 G	500	1,994	1,600	1052199
WR 35322233 G		2,282	1,500	1052215
WR 35322253 G		2,570	1,250	1052231
WR 36322203 G	600	1,994	1,600	1052200
WR 36322233 G		2,282	1,500	1052216
WR 36322253 G		2,570	1,250	1052232
WR 38322203 G	800	1,994	1,600	1052201
WR 38322233 G		2,282	1,500	1052217
WR 38322253 G		2,570	1,250	1052233

Extension bays

1 pre-assembled frame, 6 longitudinal beams, 6 shelves, screw anchors and end caps.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per bay (kg)	Order no.
WR 34322203 A	400	1,994	1,600	1052246
WR 34322233 A		2,282	1,500	1052262
WR 34322253 A		2,570	1,250	1052306
WR 35322203 A	500	1,994	1,600	1052247
WR 35322233 A		2,282	1,500	1052263
WR 35322253 A		2,570	1,250	1052307
WR 36322203 A	600	1,994	1,600	1052248
WR 36322233 A		2,282	1,500	1052264
WR 36322253 A		2,570	1,250	1052308
WR 38322203 A	800	1,994	1,600	1052249
WR 38322233 A		2,282	1,500	1052265
WR 38322253 A		2,570	1,250	1052309

Additional compartment levels

2 longitudinal beams, 2 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per bay (kg)	Order no.
WR-ZE 3420	400	1,994	400	1052278
WR-ZE 3423		2,282	400	1052282
WR-ZE 3425		2,570	400	1052286
WR-ZE 3520	500	1,994	400	1052279
WR-ZE 3523		2,282	400	1052283
WR-ZE 3525		2,570	400	1052287
WR-ZE 3620	600	1,994	400	1052280
WR-ZE 3623		2,282	400	1052284
WR-ZE 3625		2,570	400	1052288
WR-ZE 3820	800	1,994	400	1052281
WR-ZE 3823		2,282	400	1052285
WR-ZE 3825		2,570	400	1052289

WR 3000 Single Racks



Complete WR 3000 racks with 4 compartment levels 2,490 mm high (starter bays)

2 pre-assembled frames, 8 longitudinal beams, 8 shelves, screw anchors, underlay material, end caps and rack nameplate.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per bay (kg)	Order no.
WR 34325204 G	400	1,994	1,600	1052202
WR 34325234 G		2,282	1,500	1052218
WR 34325254 G		2,570	1,250	1052234
WR 35325204 G	500	1,994	1,600	1052203
WR 35325234 G		2,282	1,500	1052219
WR 35325254 G		2,570	1,250	1052235
WR 36325204 G	600	1,994	1,600	1052204
WR 36325234 G		2,282	1,500	1052220
WR 36325254 G		2,570	1,250	1052236
WR 38325204 G	800	1,994	1,600	1052205
WR 38325234 G		2,282	1,500	1052221
WR 38325254 G		2,570	1,250	1052237

Extension bays

1 pre-assembled frame, 8 longitudinal beams, 8 shelves, screw anchors and end caps.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per bay (kg)	Order no.
WR 34325204 A	400	1,994	1,600	1052250
WR 34325234 A		2,282	1,500	1052294
WR 34325254 A		2,570	1,250	1052310
WR 35325204 A	500	1,994	1,600	1052251
WR 35325234 A		2,282	1,500	1052295
WR 35325254 A		2,570	1,250	1052311
WR 36325204 A	600	1,994	1,600	1052252
WR 36325234 A		2,282	1,500	1052296
WR 36325254 A		2,570	1,250	1052312
WR 38325204 A	800	1,994	1,600	1052253
WR 38325234 A		2,282	1,500	1052297
WR 38325254 A		2,570	1,250	1052313

Additional compartment levels

2 longitudinal beams, 2 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per bay (kg)	Order no.
WR-ZE 3420	400	1,994	400	1052278
WR-ZE 3423		2,282	400	1052282
WR-ZE 3425		2,570	400	1052286
WR-ZE 3520	500	1,994	400	1052279
WR-ZE 3523		2,282	400	1052283
WR-ZE 3525		2,570	400	1052287
WR-ZE 3620	600	1,994	400	1052280
WR-ZE 3623		2,282	400	1052284
WR-ZE 3625		2,570	400	1052288
WR-ZE 3820	800	1,994	400	1052281
WR-ZE 3823		2,282	400	1052285
WR-ZE 3825		2,570	400	1052289

Complete WR 3000 racks with 5 compartment levels 2,967 mm high (starter bays)

2 pre-assembled frames, 10 longitudinal beams, 10 shelves, screw anchors, underlay material, end caps and rack nameplate.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per bay (kg)	Order no.
WR 34530205 G	400	1,994	2,000	1052206
WR 34530235 G		2,282	2,000	1052222
WR 34530255 G		2,570	1,800	1052238
WR 35530205 G	500	1,994	2,000	1052207
WR 35530235 G		2,282	2,000	1052223
WR 35530255 G		2,570	1,800	1052239
WR 36530205 G	600	1,994	2,000	1052208
WR 36530235 G		2,282	2,000	1052224
WR 36530255 G		2,570	1,800	1052240
WR 38530205 G	800	1,994	2,000	1052209
WR 38530235 G		2,282	2,000	1052225
WR 38530255 G		2,570	1,800	1052241

Extension bays

1 pre-assembled frame, 10 longitudinal beams, 10 shelves, screw anchors and end caps.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per bay (kg)	Order no.
WR 34530205 A	400	1,994	2,000	1052254
WR 34530235 A		2,282	2,000	1052298
WR 34530255 A		2,570	1,800	1052314
WR 35530205 A	500	1,994	2,000	1052255
WR 35530235 A		2,282	2,000	1052299
WR 35530255 A		2,570	1,800	1052315
WR 36530205 A	600	1,994	2,000	1052256
WR 36530235 A		2,282	2,000	1052300
WR 36530255 A		2,570	1,800	1052316
WR 38530205 A	800	1,994	2,000	1052257
WR 38530235 A		2,282	2,000	1052301
WR 38530255 A		2,570	1,800	1052317

Additional compartment levels

2 longitudinal beams, 2 shelves.

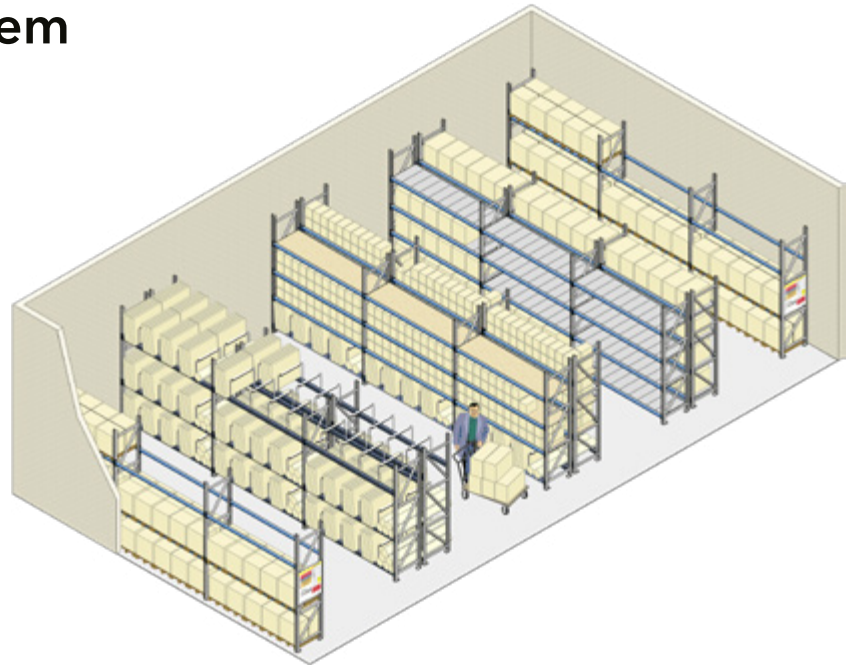
Item	Usable depth (mm)	Clear bay width (mm)	Max. load per bay (kg)	Order no.
WR-ZE 3420	400	1,994	400	1052278
WR-ZE 3423		2,282	400	1052282
WR-ZE 3425		2,570	400	1052286
WR-ZE 3520	500	1,994	400	1052279
WR-ZE 3523		2,282	400	1052283
WR-ZE 3525		2,570	400	1052287
WR-ZE 3620	600	1,994	400	1052280
WR-ZE 3623		2,282	400	1052284
WR-ZE 3625		2,570	400	1052288
WR-ZE 3820	800	1,994	400	1052281
WR-ZE 3823		2,282	400	1052285
WR-ZE 3825		2,570	400	1052289

WR 600 - The Perfect Wide Span Rack System

The flexible WR 600 wide span rack system with 50 x 50 mm system hole pattern handles all storage goods, location and warehouse tasks.

The frame system design with supporting profiles in three heights and four depths, and three different beam types in four lengths gives you freedom to design the rack bays how you want.

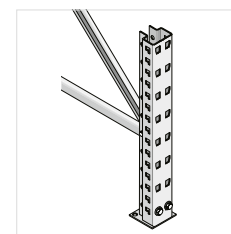
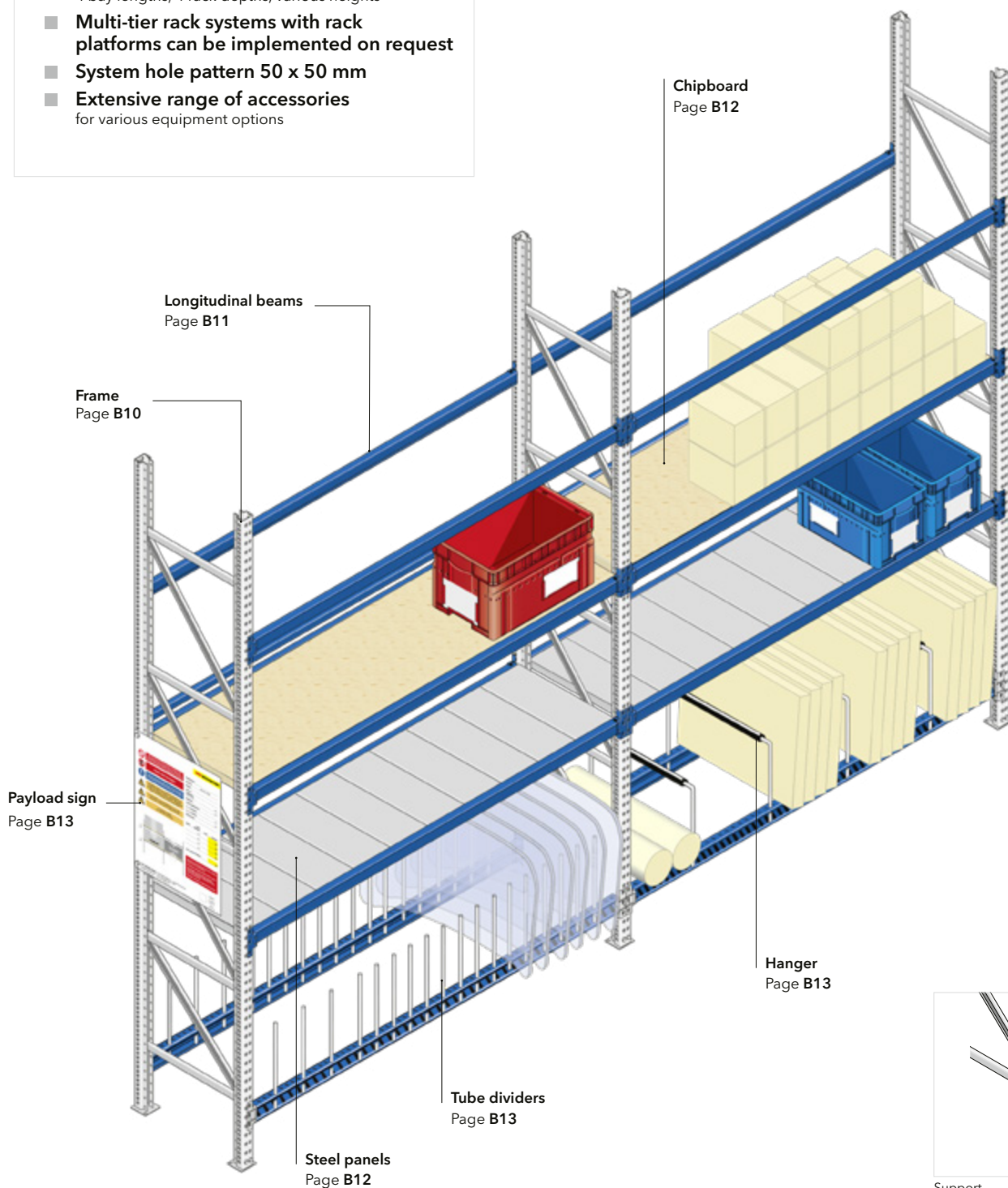
Standardized structural elements enable multi-tier design, making rack platforms possible.





- **High load capacity**
up to max. 3,500 kg per frame
- **Large shelf compartment**
for large-volume storage goods, consists of rack frame with bolted framework made from horizontal and diagonal braces and three different types of beam
- **Extension system**
4 bay lengths, 4 rack depths, various heights
- **Multi-tier rack systems with rack platforms can be implemented on request**
- **System hole pattern 50 x 50 mm**
- **Extensive range of accessories**
for various equipment options

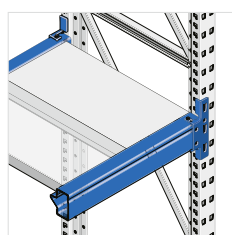
WR 600 System Design



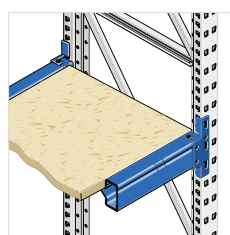
Support



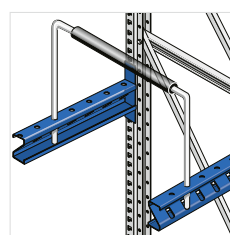
Payload sign



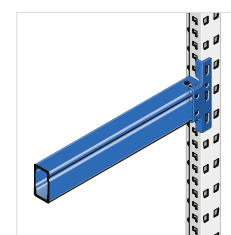
Steel panels, recessed



Chipboard, recessed



Hanger



Longitudinal beam



Frames
Longitudinal beams
Base shims



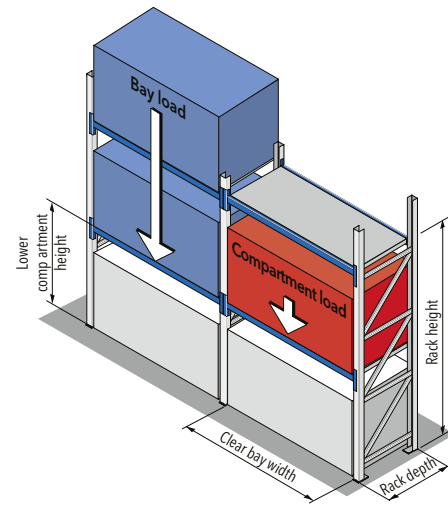
Longitudinal beams

WR 600 Frames and Accessories



Frame load capacity

The permissible load bearing capacity depends on the compartment height and the planned beam profile. The specified values apply for racks with at least two pairs of longitudinal beams per rack bay and rack lines with at least five rack bays.



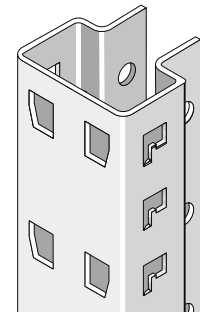
Compartment height	Frame load capacity
500 mm	3,500 kg
750 mm	3,000 kg
1,000 mm	2,700 kg
1,250 mm	2,300 kg
1,500 mm	1,800 kg



Frames

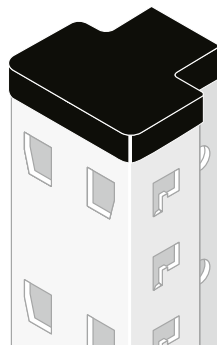
The upright profiles are made from cold-rolled, high-strength, galvanized steel and are connected by horizontal and diagonal braces to create a stable framework.

Delivered unassembled.



End cap

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



Item	Order no.
K-AKP 1	1033212

Item	Frame depth (mm)	Order no.
Frame height 2,200 mm		
R 61225	500	1008796
R 61226	600	1008799
R 61228	800	1008802
R 612211	1,100	1019321

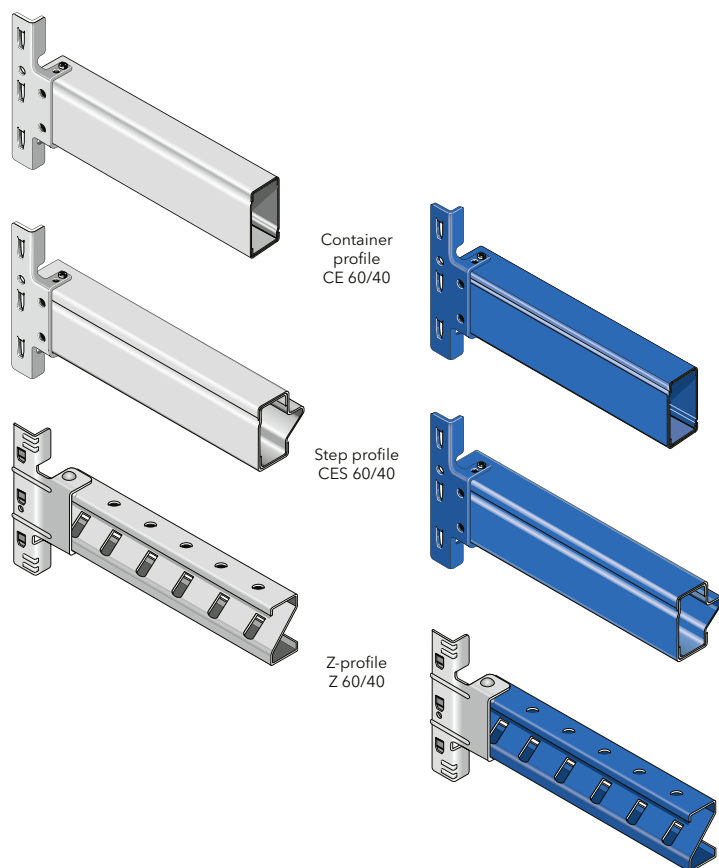
Item	Frame depth (mm)	Order no.
Frame height 2,500 mm		
R 61255	500	1008797
R 61256	600	1008800
R 61258	800	1008803
R 612511	1,100	1019322

Item	Frame depth (mm)	Order no.
Frame height 3,000 mm		
R 61305	500	1008798
R 61306	600	1008801
R 61308	800	1008804
R 613011	1,100	1019323



- Compatible with PR 600 pallet racks
Chapter C, from page C4

WR 600 Longitudinal Beams and Accessories

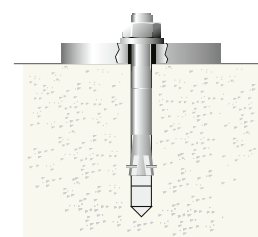


Longitudinal beams

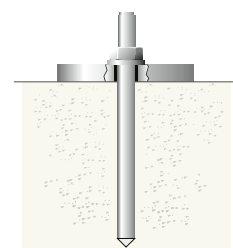
Bolted three-hook end stops guarantee an interlocking connection with the rack supports. Two fixing pins (included) per section are required to prevent unintentional removal.

Surface galvanized or painted (Gentian Blue, RAL 5010).

Item	Beam length (mm)	Load capacity per pair (kg)	PU	Order no.	
				Galvanized	Painted
Longitudinal beam, container profile CE 60/40					
TR4-150-064-25CE	1,500	600	1	1003169	-
TR4-180-064-25CE	1,800	600	1	1003171	-
TR4-220-064-30CE	2,200	600	1	1003181	-
TR4-270-064-30CE	2,700	600	1	1003183	-
TR4-150-064-25CEL	1,500	600	1	-	1003170
TR4-180-064-25CEL	1,800	600	1	-	1003172
TR4-220-064-30CEL	2,200	600	1	-	1003182
TR4-270-064-30CEL	2,700	600	1	-	1003184
Longitudinal beam, step profile CES 60/40					
TR4-150-064-25S	1,500	600	1	1003185	-
TR4-180-064-25S	1,800	600	1	1003187	-
TR4-220-064-30S	2,200	600	1	1003197	-
TR4-270-064-30S	2,700	600	1	1003199	-
TR4-150-064-25SL	1,500	600	1	-	1003186
TR4-180-064-25SL	1,800	600	1	-	1003188
TR4-220-064-30SL	2,200	600	1	-	1003198
TR4-270-064-30SL	2,700	600	1	-	1003200
Longitudinal beam, Z-profile Z 60/40					
TR 1506 Z-V	1,500	450	1	1002397	-
TR 1806 Z-V	1,800	400	1	1002398	-
TR 2206 Z-V	2,200	350	1	1002399	-
TR 2706 Z-V	2,700	200	1	1002400	-
TR 1506 Z-G	1,500	450	1	-	1002397
TR 1806 Z-G	1,800	400	1	-	1002398
TR 2206 Z-G	2,200	350	1	-	1002399
TR 2706 Z-G	2,700	200	1	-	1002400



Expansion anchor

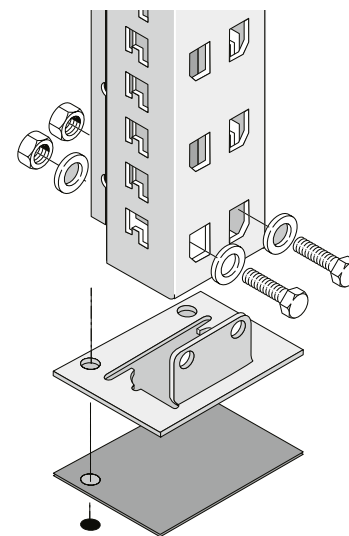


Adhesive anchor

Floor anchors

The frame needs to be anchored in order to ensure the stability of the wide span racks. M10 expansion anchors are used for a normal C20/25 concrete floor. For floors containing magnesium or where conformity with the German Federal Water Act (WHG) is required please speak to our specialist consultants.

Item		Order no.
BA 10 SL	Expansion anchor M10	1031632
BA 10 VA	Adhesive anchor M10	1031633



Base shim

To compensate for unevenness in the floor, galvanized.

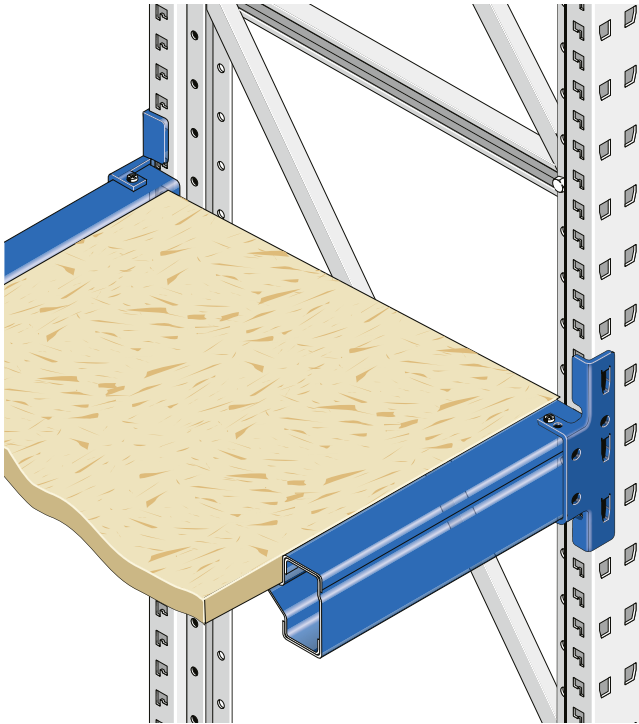
Item	Thickness (mm)	Order no.
AP 60.51	1	1003081



Steel panels

Galvanized

WR 600 Compartment Covers and Panels

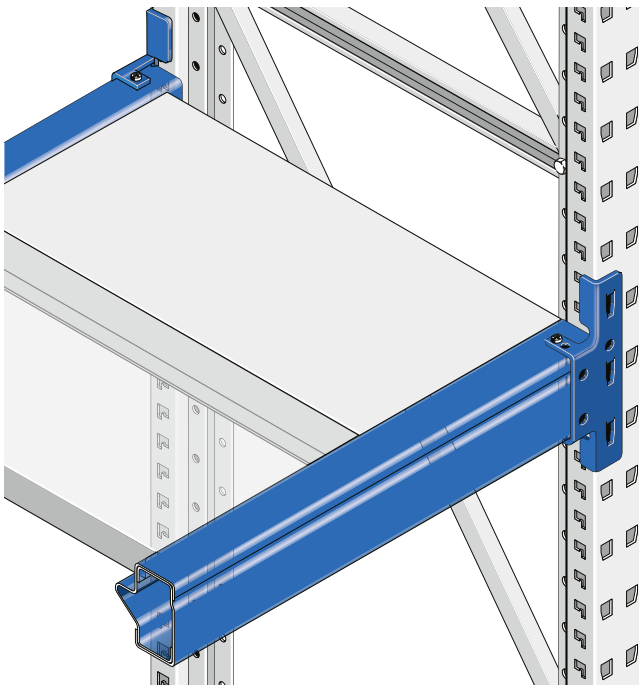


Chipboard for longitudinal beams with step profile

Compartment covers made from chipboard are inserted between the longitudinal beams. Quality: 22 mm, normal density.

The load values specified apply for evenly distributed loads.

Item	Frame depth (mm)	Beam length (mm)	Compartment load (kg)	Order no.
FSS 15-050-22-NA	500	1,500	560	1032620
FSS 18-050-22-NA		1,800	600	1032624
FSS 22-050-22-NA		2,200	600	1032628
FSS 27-050-22-NA		2,700	600	1032632
FSS 15-060-22-NA	600	1,500	370	1032621
FSS 18-060-22-NA		1,800	440	1032625
FSS 22-060-22-NA		2,200	540	1032629
FSS 27-060-22-NA		2,700	600	1032633
FSS 15-080-22-NA	800	1,500	190	1032622
FSS 18-080-22-NA		1,800	230	1032626
FSS 22-080-22-NA		2,200	280	1032630
FSS 27-080-22-NA		2,700	350	1032634
FSS 15-110-22-NA	1,100	1,500	100	1036255
FSS 18-110-22-NA		1,800	130	1036256
FSS 22-110-22-NA		2,200	150	1036257
FSS 27-110-22-NA		2,700	190	1036258



Steel panels for longitudinal beams with step profile

Steel panels made of Sendzimir galvanized sheet steel, with a width of 200 or 300 mm, can be inserted into the longitudinal beams with a step profile.

Load capacity per panel 150 kg with evenly distributed load.

Item	Frame depth (mm)	Beam length (mm)	Order no.
Complete panel sets - made from 200 mm and 300 mm panels			
FPS-15050	500	1,500	1002344
FPS-18050		1,800	1002345
FPS-22050		2,200	1002346
FPS-27050		2,700	1002347
FPS-15060	600	1,500	1002348
FPS-18060		1,800	1002349
FPS-22060		2,200	1002350
FPS-27060		2,700	1002351
FPS-15080	800	1,500	1002353
FPS-18080		1,800	1002354
FPS-22080		2,200	1002355
FPS-27080		2,700	1002356

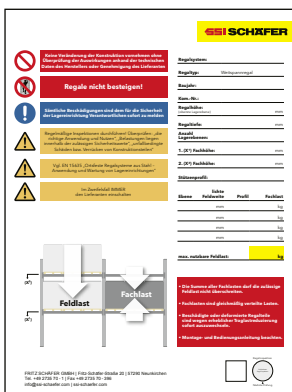
Item	Frame depth (mm)	Order no.
Individual steel panels - panel width 200 mm		
FPS 20-050-22-20A	500	1005126
FPS 20-060-22-20A	600	1005128
FPS 20-080-22-30A	800	1005130
FPS 20-110-22-30A	1,100	1019319

Item	Frame depth (mm)	Order no.
Individual steel panels - panel width 300 mm		
FPS 30-050-22-20A	500	1005127
FPS 30-060-22-20A	600	1005129
FPS 30-080-22-30A	800	1005131
FPS 30-110-22-30A	1,100	1019320



Labeling requirement

The regulations of the trade associations require rack facilities to be labeled with all the necessary load specifications.

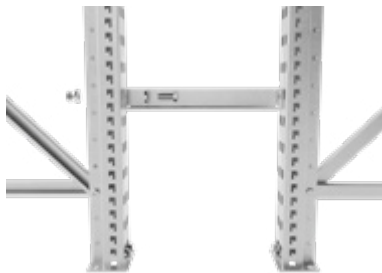


WR 600 Accessories

Spacers

Two single racks positioned one behind the other are connected with spacers to form double-sided racks.

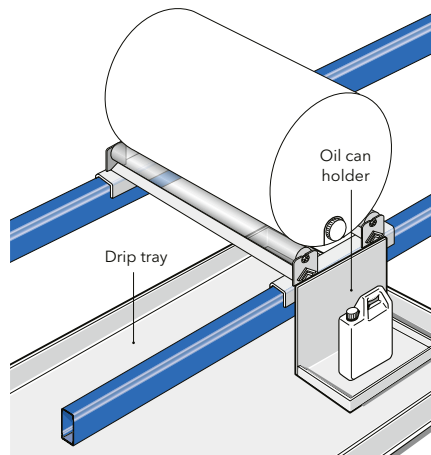
Surface painted: Galvanized.



Oil can holder

Can be inserted into the front of the drum supports, with support surface. Dimensions: 300 x 350 mm.

Surface painted: Dusty Gray, RAL 7037.



Item	Order no.
KT 30	1002370

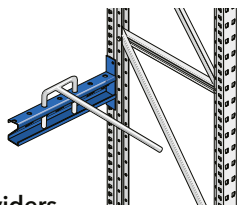
Payload signs

Item	Width (mm)	Height (mm)	Order no.
Made from aluminum, incl. fixing kit			
LSTS 7050	450	600	V980014*
Made from PVC adhesive film (not shown)			
TS 0615	60	150	1003252*

* The technical data is defined via a time sheet. It is offered and invoiced as part of the price of the sign.

Item	Distance (mm)	Order no.
D 50 F	50	2004339
D 100 F	100	2004340
D 150 F	150	2004341
D 200 F	200	2004342
D 250 F	250	2004343
D 300 F	300	2004344
D 350 F	350	2004345
D 400 F	400	2004346
D 450 F	450	2004347
D 500 F	500	2004348

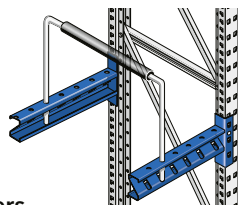
Storage location label and safety accessories
from page C13



Bin dividers

For upright storage of wooden beams, pipes, etc. Adjustment 50 x 50 mm, galvanized.

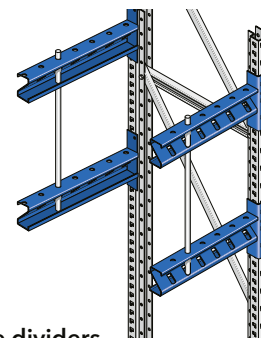
Item	Frame depth (mm)	Length (mm)	Order no.
APH 340	500	340	1041855
APH 740	800	740	1041854



Hangers

For dividing compartments of Z beams. Adjustment 50 x 50 mm, galvanized.

Item	Frame depth (mm)	Order no.
KTB 50	500	1031724
KTB 80	800	1031725
KTB-S50	Bracket padding for 500 mm	2003455
KTB-S80	Bracket padding for 800 mm	2003456



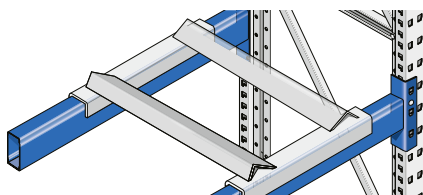
Tube dividers

For dividing compartments of Z beams. Adjustment 50 x 50 mm, galvanized.

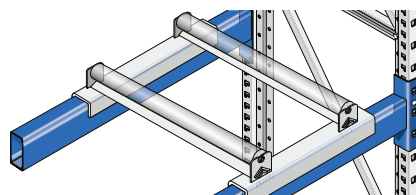
Item	Tube length (mm)	Order no.
KRA 4170	170	1042754
KRA 4300	300	1042755
KRA 4950	950	1042756
KRA 4105	1,050	1042757

Drum supports

Angled profile welded frame. For rotary drum supports with two ball bearing-mounted, galvanized steel rollers. For attachment to longitudinal beams. Surface painted: Dusty Gray, RAL 7037. Load capacity 210 kg.



Item	Frame depth (mm)	Order no.
Stationary		
FAS 80	800	1002371
FAS 110	1,100	1017848



Item	Frame depth (mm)	Order no.
Rotatable		
FAD 80	800	1002372
FAD 110	1,100	1017846



Pallet Racks - a Modular System With Limitless Versatility

SSI SCHAEFER's pallet racks are as practical as the Euro and industrial pallets themselves. Whether for flat pallets, cage pallets or other loading aids, beam racks for single or multiple storage locations allow a high level of mobility for quick goods turnover. Multi-place longitudinal beam rack systems can be found in all industries, from wholesale and spare parts warehouses to electronics and mechanical engineering and automotive manufacturing.

With suitable accessories, pallets or bins can be optimally stored, even with varying dimensions.





Contents



- PR 600 longitudinal beam racks Page **C4**
- Pallet rack accessories Page **C10**
- Safety accessories Page **C13**
- Pallet flow racks Page **C16**
- Warehouse and storing position labeling Page **C18**

All load values specified apply for evenly distributed loads.

Overview of Pallet Rack System



PR 600 longitudinal beam racks

Applications	<ul style="list-style-type: none"> ■ Pallet storage for medium and large-volume goods with medium to high load, e.g., for logistics service providers or in distribution warehouses
Advantages	<ul style="list-style-type: none"> ■ Lightweight and economical ■ Stable thanks to special shape ■ Precise dimension conformity
Design	<ul style="list-style-type: none"> ■ Bolted frame structure with longitudinal beams, 4 upright profiles in each of the 3 frame depths, 10 frame heights, 2 beam types, 7 bay lengths
Beam connection	<ul style="list-style-type: none"> ■ Push-fit system
System hole pattern	<ul style="list-style-type: none"> ■ 50 x 50 mm
Support widths	<ul style="list-style-type: none"> ■ 75, 90, 100, 120 mm
Frame load capacity	<ul style="list-style-type: none"> ■ Up to 30,000 kg
Beam load capacity	<ul style="list-style-type: none"> ■ Up to 4,500 kg per pair
Frame surface	<ul style="list-style-type: none"> ■ Galvanized
Beam surface	<ul style="list-style-type: none"> ■ Painted RAL 5010, Gentian Blue
From page	C4



Required safety equipment for racks according to DGUV Information 208-061

1.1 Row end frame height

Row end frames must be at least 500 mm higher than the top rack.

1.2 Transit routes

Transit routes must be covered (with chipboard, floor grating).
The minimum passage overhead clearance is 2,000 mm.

1.3 Safety distance

Observe a safety distance of at least 100 mm between the pallets in double-sided racks; push-through protection must be provided if the minimum safety distance cannot be met.

1.4 End frames

Freestanding end frames must have corner protection. This also applies to transit routes.

1.5 Single-sided racks

Freestanding single-sided racks where one side is not intended for loading or unloading must be equipped with features to prevent loading units from falling off, such as back panels.

1.6 Transposed stacking

Transposed stacking requires pallets or bins to be secured, e.g., by support beams, chipboard, or floor grating. This does not apply to stringer pallets.

1.7 Payload signs

All rack installations must have payload signs.



Technical regulations for pallet racking

2.1 Rack lines

A rack line must consist of at least three rack bays.

2.2 Beam levels

There must be at least two beam levels per rack bay.

2.3 Compartment heights

Compartment heights must not differ more than 200 mm.
The maximum compartment height is 2,500 mm.

2.4 Concrete quality of the hall floor

Minimum concrete quality of the hall floor:
C20/25 as per EN 1992. Concrete thickness 200 mm.



Information on **inspection requirements for rack installations**

Chapter J, page J6



PR 600 - the Modern Pallet Rack System

The PR 600 rack system boasts a wide range of versatile configuration options. A lot of designs are possible, to maximize warehouse capacity while taking up minimal space.

One advantage that often does not come into play until later is the ability to adapt the system to changing circumstances. The rack frames are bolted and designed for maximum loads.

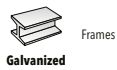
This is a modern pallet rack system - a versatile module for individual solutions.



■ Tested quality

PR 600 longitudinal beam racks bear the RAL-RG 614/2 quality seal. Compliance with the criteria for this seal is checked twice per year by an independent authority. This guarantees that both the material and the production meet the high quality requirements.





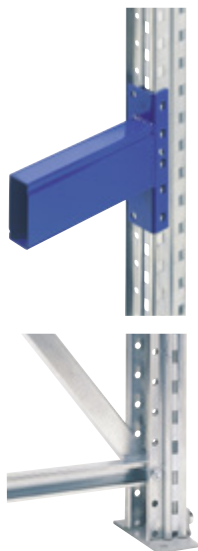
Frames



Longitudinal beams

PR 600 Frames and Longitudinal Beams

- **Maximum load capacity**
Frame load capacity up to 30,000 kg (with at least two INP 100 beam pairs per rack bay and five rack bays per rack line), beam load capacity up to 4,500 kg per pair
- **Lightweight and economical**
- **Stable thanks to special shape**
- **High-quality materials**
- **Precise dimension conformity**
- **System hole pattern**
spaced 50 x 50 mm
- **Support widths**
75, 90, 100, 120 mm
- **Simple design**
with just a few components
- **Bolted frame structure**



Mesh back panels
Page C14

Frames
Page C8

Fork spacers
Page C10

Angled profile support beams
Page C10

Payload sign
Page C15

Collision guards
Page C13

Floor grating on INP beam profile
Page C11

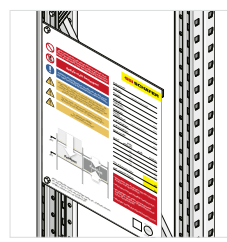
Longitudinal beams
Page C9

Chipboard, supported
Page C12

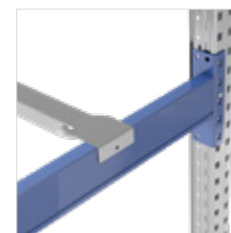
Steel panels on INP beam profile
Page C11



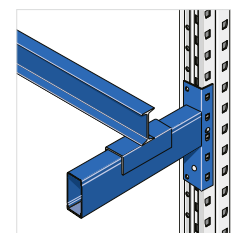
Corner protection



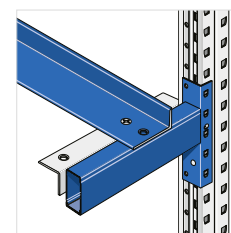
Payload sign



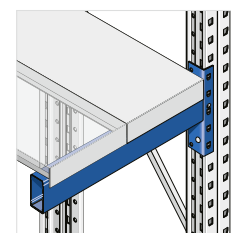
Support beam



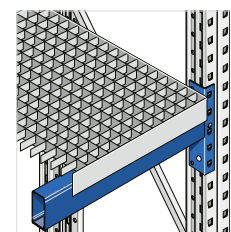
Fork spacer



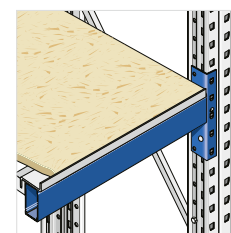
Angled profile support beams with locking bracket



Steel panel, supported



Floor grating, supported



Chipboard with edge protection, supported

Shelving Systems

Wide Span Racks

Pallet Racks

Cantilever Racks

On-Line Shelving/
Live Storage Racks

System Platforms

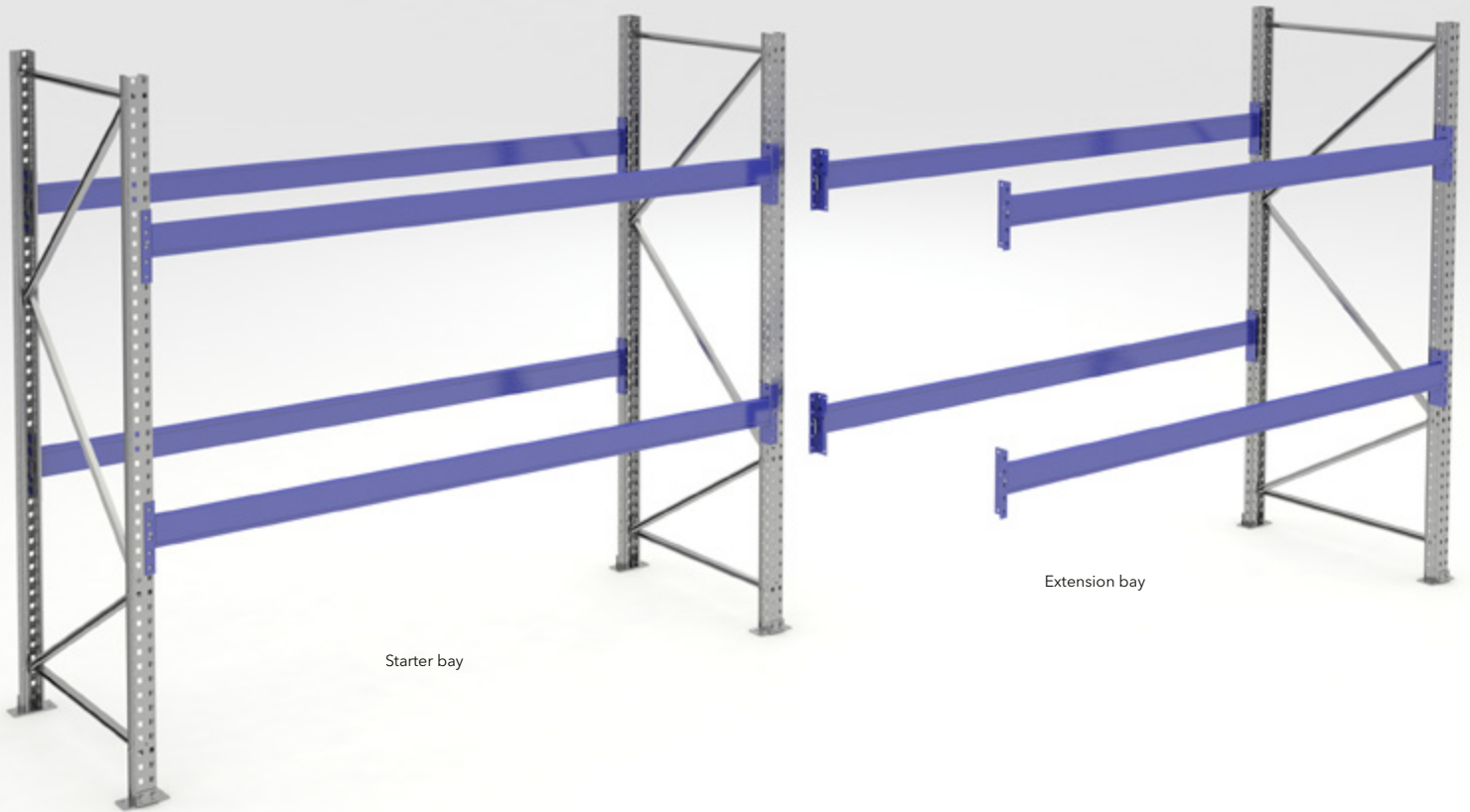
Dynamic Storage

Automated
Logistics Solutions

Logistics Systems

Customer
Service & Support

Software



PR 600 Pallet Rack – Starter and Extension Bays

The complete racks in the PR 600 pallet rack system are available in frame depths 850 mm and 1,100 mm and in different heights, which can accommodate up to five storage levels. The rack frames are bolted and designed for maximum loads.

The starter bay is supplied complete with frame, beams, two anchors/supports and two payload signs. It can be extended easily with extension bays in two widths (2,700 mm and 1,900 mm).

Frame depth 850 mm

Max. pallet weight (kg)	Frame height (mm)	No. of storage levels	Lower compartment height (mm)	Max. bay load (kg)	Beam height (mm)	Support width (mm)	Starter bay Clear bay width 2,700 mm including 2 payload signs and 2 anchors/supports	Extension bay Clear bay width 2,700 mm including 2 anchors/supports	Extension bay Clear bay width 1,900 mm including 2 anchors/supports
							Order no.	Order no.	Order no.
800	2,500	3	1,000	4,800	100	75	1017900	1017914	1017928
	3,600	3	1,500	4,800	100	75	1017902	1017916	1017930
	3,600	4	1,000	7,200	100	75	1017903	1017917	1017931
	4,700	3	1,950	4,800	100	75	1017904	1017918	1017932
	4,700	4	1,400	7,200	100	75	1017905	1017919	1017933
	5,800	4	1,700	7,200	100	75	1017906	1017920	1017934
	5,800	5	1,250	9,600	100	100	1017912	1017926	1017940
1,000	2,500	3	1,000	6,000	110	75	1017901	1017915	1017929
	3,600	3	1,500	6,000	110	100	1017907	1017921	1017935
	3,600	4	1,000	9,000	110	100	1017908	1017922	1017936
	4,700	3	1,950	6,000	110	100	1017909	1017923	1017937
	4,700	4	1,400	9,000	110	100	1017910	1017924	1017938
	5,800	4	1,700	9,000	110	100	1017911	1017925	1017939
	5,800	5	1,250	12,000	110	100	1017913	1017927	1017941



Support profiles



Longitudinal beams

Support profiles

made from cold-rolled, high-strength steel. High stability thanks to their special shape and bolted together with horizontal and diagonal braces to create a stable framework. Delivered unassembled.

System hole pattern 50 x 50 mm.

Massive foot plates ensure secure transfer of the loads to the floor.

Longitudinal beams

with five-hook end stops welded on. Guarantee an interlocking connection with the rack supports.

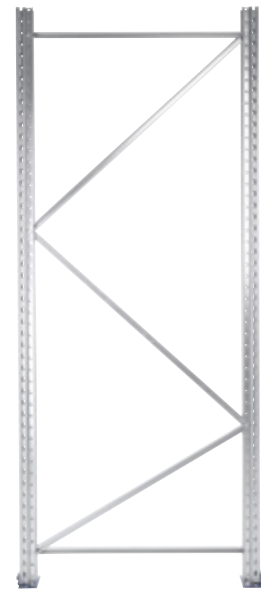
Height can be adjusted within the grid with system hole pattern 50 x 50 mm.

Two fixing pins (included in scope of delivery) per section are required to prevent unintentional removal.

The load values specified apply for evenly distributed loads.

Tested quality

PR 600 longitudinal beam racks bear the RAL-RG 614/2 quality seal. Compliance with the criteria for this seal is checked twice per year by an independent authority. This guarantees that both the material and the production meet the high quality requirements.



Shelving Systems

Wide Span Racks

Pallet Racks

Cantilever Racks

On-Line Shelving/
Live Storage Racks

System Platforms

Dynamic Storage

Automated
Logistics Solutions

Logistics Systems

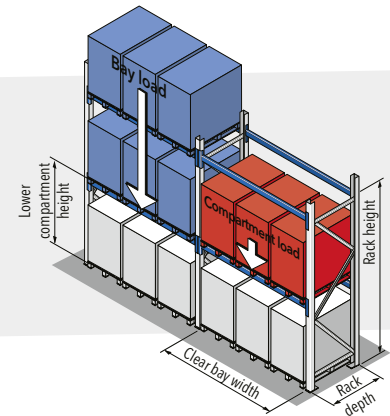
Customer
Service & Support

Software



Notice:

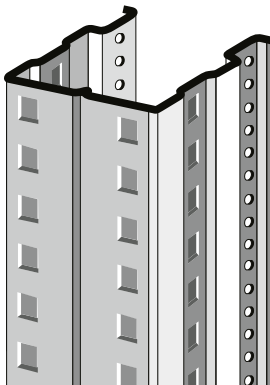
The lower compartment height must never be exceeded. The number of bays does not affect load-bearing capacity (Valid only for starter and extension bays on page C6 and C7). Additional levels are possible as long as the max. bay loads are observed. For more information on beams, see **page C9**. Note the safety accessories on **pages C13-C15**.



Frame depth 1,100 mm

Max. pallet weight (kg)	Frame height (mm)	No. of storage levels	Lower compartment height (mm)	Max. bay load (kg)	Beam height (mm)	Support width (mm)	Starter bay Clear bay width 2,700 mm including 2 payload signs and 2 anchors/supports	Extension bay Clear bay width 2,700 mm including 2 anchors/supports	Extension bay Clear bay width 1,900 mm including 2 anchors/supports
							Order no.	Order no.	Order no.
800	2,500	3	1,000	4,800	100	75	1017302	1017315	1017328
	3,600	3	1,500	4,800	100	75	1017304	1017317	1017330
	3,600	4	1,000	7,200	100	75	1017305	1017318	1017331
	4,700	3	1,950	4,800	100	75	1017306	1017319	1017332
	4,700	4	1,400	7,200	100	75	1017307	1017320	1017333
	5,800	4	1,700	7,200	100	75	1017308	1017321	1017334
	5,800	5	1,250	9,600	100	100	1017314	1017327	1017340
1,000	2,500	3	1,000	6,000	110	75	1017303	1017316	1017329
	3,600	3	1,500	6,000	110	100	1017309	1017322	1017335
	3,600	4	1,000	9,000	110	100	1017310	1017323	1017336
	4,700	3	1,950	6,000	110	100	1017311	1017324	1017337
	4,700	4	1,400	9,000	110	100	1017312	1017325	1017338
	5,800	4	1,700	9,000	110	100	1017313	1017326	1017339
	5,800	5	1,250	12,000	110	100	1017897	1017898	1017899

PR 600 Frames



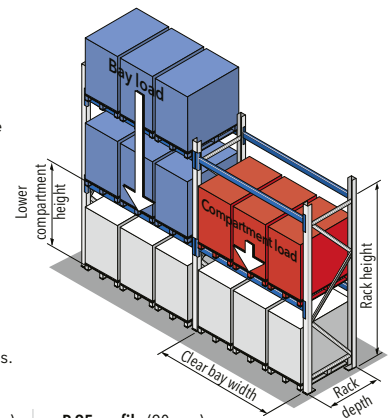
■ Frame load capacity

The permissible frame load (or bay load) depends on the compartment height and the planned beam profile. The specified values apply for racks with at least two pairs of longitudinal beams per rack bay, rack lines with at least five rack bays and CE 110 (for bay width 2,700 mm) and CE 140 (for bay width 3,600 mm) longitudinal beams. Values vary depending on the beam profile used.

The load table design is based on DIN EN 15512:2020.

Compartment heights over 2,500 mm require a separate structural analysis.

Please contact our specialist consultants for any questions.



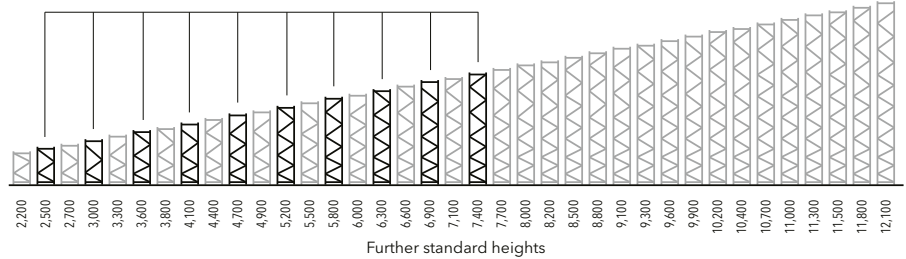
Support width	P 73 profile (75 mm)		P 93 profile (90 mm)		P 95 profile (90 mm)	
	Frame load capacity					
	Bay width		Bay width		Bay width	
Compartment height	2,700 mm	3,600 mm	2,700 mm	3,600 mm	2,700 mm	3,600 mm
750 mm	9,100 kg	8,750 kg	9,550 kg	9,650 kg	14,800 kg	13,700 kg
1,000 mm	7,900 kg	7,700 kg	9,250 kg	8,850 kg	13,400 kg	12,100 kg
1,250 mm	6,500 kg	6,450 kg	8,250 kg	8,000 kg	11,800 kg	11,150 kg
1,500 mm	6,650 kg	6,550 kg	8,050 kg	8,000 kg	11,350 kg	11,050 kg
1,750 mm	6,550 kg	6,050 kg	7,850 kg	7,950 kg	9,250 kg	10,800 kg
2,000 mm	5,350 kg	5,550 kg	7,550 kg	7,600 kg	9,450 kg	10,450 kg
2,250 mm	5,250 kg	5,200 kg	7,400 kg	7,400 kg	9,450 kg	10,350 kg
2,500 mm	5,000 kg	5,000 kg	6,600 kg	6,600 kg	9,250 kg	8,850 kg



Other frame profiles

on request

Catalog dimensions



P 73 profile

Item	Frame height (mm)	Order no.
Frame depth 850 mm		
RV1-773-0250-085	2,500	1003851
RV1-773-0300-085	3,000	1003852
RV1-773-0360-085	3,600	1003853
RV1-773-0410-085	4,100	1003854
RV1-773-0470-085	4,700	1003855
RV1-773-0520-085	5,200	1003856

Item	Frame height (mm)	Order no.
Frame depth 1,100 mm		
RV1-773-0250-110	2,500	1017295
RV1-773-0300-110	3,000	1017429
RV1-773-0360-110	3,600	1017296
RV1-773-0410-110	4,100	1017432
RV1-773-0470-110	4,700	1017297
RV1-773-0520-110	5,200	1017435

Item	Frame height (mm)	Order no.
Frame depth 1,250 mm		
RV1-773-0250-125	2,500	1003899
RV1-773-0300-125	3,000	1003900
RV1-773-0360-125	3,600	1003901
RV1-773-0410-125	4,100	1003902
RV1-773-0470-125	4,700	1003903
RV1-773-0520-125	5,200	1003904

P 93 profile

Item	Frame height (mm)	Order no.
Frame depth 850 mm		
RV1-973-0250-085	2,500	1003857
RV1-973-0300-085	3,000	1003858
RV1-973-0360-085	3,600	1003859
RV1-973-0410-085	4,100	1003860
RV1-973-0470-085	4,700	1003861
RV1-973-0520-085	5,200	1003862
RV1-973-0580-085	5,800	1003863
RV1-973-0630-085	6,300	1003864
RV1-973-0690-085	6,900	1003865
RV1-973-0740-085	7,400	1003866

Item	Frame height (mm)	Order no.
Frame depth 1,100 mm		
RV1-973-0250-110	2,500	1017461
RV1-973-0300-110	3,000	1017463
RV1-973-0360-110	3,600	1017465
RV1-973-0410-110	4,100	1017467
RV1-973-0470-110	4,700	1017469
RV1-973-0520-110	5,200	1017471
RV1-973-0580-110	5,800	1017473
RV1-973-0630-110	6,300	1017475
RV1-973-0690-110	6,900	1017477
RV1-973-0740-110	7,400	1017479

Item	Frame height (mm)	Order no.
Frame depth 1,250 mm		
RV1-973-0250-125	2,500	1003905
RV1-973-0300-125	3,000	1003906
RV1-973-0360-125	3,600	1003907
RV1-973-0410-125	4,100	1003908
RV1-973-0470-125	4,700	1003909
RV1-973-0520-125	5,200	1003910
RV1-973-0580-125	5,800	1003911
RV1-973-0630-125	6,300	1003912
RV1-973-0690-125	6,900	1003913
RV1-973-0740-125	7,400	1003914

P 95 profile

Item	Frame height (mm)	Order no.
Frame depth 850 mm		
RV1-975-0360-085	3,600	1003867
RV1-975-0410-085	4,100	1003868
RV1-975-0470-085	4,700	1003869
RV1-975-0520-085	5,200	1003870
RV1-975-0580-085	5,800	1003871
RV1-975-0630-085	6,300	1003872
RV1-975-0690-085	6,900	1003873
RV1-975-0740-085	7,400	1003874

Item	Frame height (mm)	Order no.
Frame depth 1,100 mm		
RV1-975-0360-110	3,600	1017502
RV1-975-0410-110	4,100	1017504
RV1-975-0470-110	4,700	1017506
RV1-975-0520-110	5,200	1017508
RV1-975-0580-110	5,800	1017510
RV1-975-0630-110	6,300	1017512
RV1-975-0690-110	6,900	1017514
RV1-975-0740-110	7,400	1017516

Item	Frame height (mm)	Order no.
Frame depth 1,250 mm		
RV1-975-0360-125	3,600	1003915
RV1-975-0410-125	4,100	1003916
RV1-975-0470-125	4,700	1003917
RV1-975-0520-125	5,200	1003918
RV1-975-0580-125	5,800	1003919
RV1-975-0630-125	6,300	1003920
RV1-975-0690-125	6,900	1003921
RV1-975-0740-125	7,400	1003922



Support profiles

Galvanized



Longitudinal beams

Gentian Blue
RAL 5010

Support profiles

made from cold-rolled, high-strength steel. High stability thanks to their special shape and bolted together with horizontal and diagonal braces to create a stable framework. Delivered unassembled.

System hole pattern 50 x 50 mm.

Massive foot plates ensure secure transfer of the loads to the floor.

Longitudinal beams

with five-hook end stops welded on. Guarantee an interlocking connection with the rack supports.

Height can be adjusted within the grid with system hole pattern 50 x 50 mm.

Two fixing pins (included in scope of delivery) per section are required to prevent unintentional removal.

The load values specified apply for evenly distributed loads.

The order numbers apply for one beam.

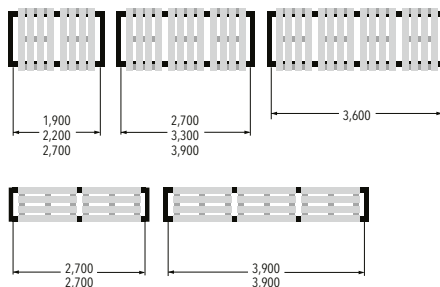
System dimensions for longitudinal beam racks

Storage along the depth

Pallet dimensions	Storage depth	Rack depth
800 x 1,200 mm	1,200 mm	1,100 mm
1,000 x 1,200 mm	1,200 mm	1,100 mm
1,200 x 1,200 mm	1,200 mm	1,100 mm

Storage along the length

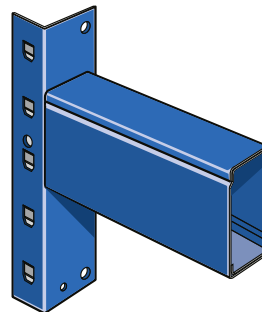
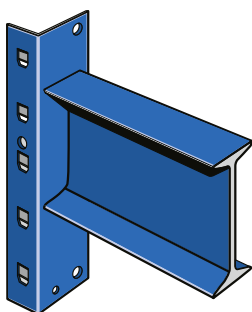
Pallet dimensions	Storage depth	Rack depth
800 x 1,200 mm	800 mm	850 mm
1,000 x 1,200 mm	1,000 mm	1,100 mm



Longitudinal Beams

Compatible with WR 600 wide span racks

Chapter B, from page B1



Longitudinal beams with INP profile

Item	Load/ pair (kg)	Profile type	Order no.
Length 1,900 mm			
TRV1-190-08-I	2,800	INP 80	1004484
TRV1-190-10-I	4,500	INP 100	1004500
Length 2,200 mm			
TRV1-220-08-I	2,500	INP 80	1004487
TRV1-220-10-I	4,200	INP 100	1004503
Length 2,700 mm			
TRV1-270-08-I	2,100	INP 80	1004492
TRV1-270-10-I	3,500	INP 100	1004508
TRV1-270-12-I	4,500	INP 120	1004530
Length 2,900 mm			
TRV1-290-08-I	1,900	INP 80	1004494
TRV1-290-10-I	3,300	INP 100	1004510
TRV1-290-12-I	4,500	INP 120	1004532
Length 3,300 mm			
TRV1-330-08-I	1,400	INP 80	1004498
TRV1-330-10-I	2,700	INP 100	1004514
TRV1-330-12-I	4,400	INP 120	1004536
Length 3,600 mm			
TRV1-360-10-I	2,300	INP 100	1004517
TRV1-360-12-I	3,900	INP 120	1004539
Length 3,900 mm			
TRV1-390-10-I	2,000	INP 100	1004520
TRV1-390-12-I	3,400	INP 120	1004542

Longitudinal beams with CE profile

Item	Load/ pair (kg)	Profile type	Order no.
Length 1,900 mm			
TRV1-190-084-30 CE	2,700	CE 80/40	1005173
TRV1-190-104-30 CE	3,600	CE 100/40	1005210*
TRV1-190-114-30 CE	4,000	CE 110/40	1005247
Length 2,200 mm			
TRV1-220-084-30 CE	2,200	CE 80/40	1005176
TRV1-220-104-30 CE	3,150	CE 100/40	1005213*
TRV1-220-114-30 CE	3,550	CE 110/40	1005250
Length 2,700 mm			
TRV1-270-084-30 CE	1,500	CE 80/40	1005181
TRV1-270-104-30 CE	2,500	CE 100/40	1005218*
TRV1-270-114-30 CE	3,000	CE 110/40	1005255
TRV1-270-124-30 CE	3,300	CE 120/40	1005292*
TRV1-270-144-30 CE	4,000	CE 140/40	1005325
Length 2,900 mm			
TRV1-290-084-30 CE	1,350	CE 80/40	1005183*
TRV1-290-104-30 CE	2,200	CE 100/40	1005220*
TRV1-290-114-30 CE	2,700	CE 110/40	1005257
TRV1-290-124-30 CE	3,100	CE 120/40	1005294*
TRV1-290-144-30 CE	3,750	CE 140/40	1005327
Length 3,300 mm			
TRV1-330-114-30 CE	2,100	CE 110/40	1005261
TRV1-330-124-30 CE	2,500	CE 120/40	1005298*
TRV1-330-144-30 CE	3,000	CE 140/40	1005331
Length 3,600 mm			
TRV1-360-114-30 CE	1,800	CE 110/40	1005264
TRV1-360-124-30 CE	2,200	CE 120/40	1005301*
TRV1-360-145-30 CE	2,900	CE 140/50	1004678
Length 3,900 mm			
TRV1-390-145-30 CE	2,500	CE 140/50	1004681

* Minimum order quantity on request.

Shelving Systems

Wide Span Racks

Pallet Racks

Cantilever Racks

On-Line Shelving/
Live Storage Racks

System Platforms

Dynamic Storage

Automated
Logistics Solutions

Logistics Systems

Customer
Service & Support

Software



Galvanized
Locking brackets
Spacers
Support beams

Fork spacers
Gentian Blue
RAL 5010

Accessories



Spacers

Two single racks positioned one behind the other are connected with spacers to form double-sided racks. Galvanized. The length of the spacers is the difference between the rack depth and the loading aid/loading unit, plus 100 mm.

Item	Distance (mm)	Order no.
D 50 F	50	2004339
D 100 F	100	2004340
D 150 F	150	2004341
D 200 F	200	2004342
D 250 F	250	2004343
D 300 F	300	2004344
D 350 F	350	2004345
D 400 F	400	2004346
D 450 F	450	2004347
D 500 F	500	2004348



Angled profile support beams for pallet and bin storage

For pickup of loading aids in pallet racks. Galvanized. Pallets and bins stored along the length and bins without a secure contact area on longitudinal beams require one pair of support beams per loading aid. Locking brackets are required to fix pallets and bins and secure them against shifting on the longitudinal beams (as shown above).

Item	Frame depth (mm)	Pallet/bin depth (mm)	Load (kg)	Order no. (pair)
Without back upturn				
TA-W-085-10	850	800	1,000	2005432
TA-W-110-10	1,100	1,000	1,000	2005434
TA-W-125-10	1,250	1,200	1,000	2005435
With back upturn 30 mm				
TA-W-085-10-A	850	800	1,000	2005436
TA-W-110-10-A	1,100	1,000	1,000	2005438
TA-W-125-10-A	1,250	1,200	1,000	2005439

Locking brackets for support beams

Fixing options for support beams, designed for Euro, industrial or DIN cage pallets. Galvanized.

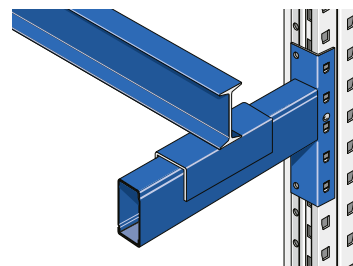
Item	Clear bay width (mm)	Order no. (pair)
AW19-R2	1,900	1017360
AW22-R2	2,200	1017361
AW27-R2	2,700	1017362
AW29-R2	2,900	1017364
AW36-R2	3,600	1017365
AW39-R2	3,900	1017366



Support beams

The support beams are placed between the main beams. Galvanized. The load values specified apply for evenly distributed loads. They are not suitable for point loads.

Item	Frame depth (mm)	Max. pallet weight with 2 support beams (kg)	Order no.
TA-C-085-10	850	1,000	1018754
TA-C-110-10	1,100	1,000	1018756



Fork spacers

For the storage of wooden panels, laminated cores, totes, bins or other large storage goods. Gentian Blue, RAL 5010. Ground clearance for forklifts 100 mm, max. load per piece 2,000 kg with an evenly distributed load.

Item	For frame depth (mm)	Order no.
QU 851	850	1003221
QU 1101	1,100	1016803
QU 1251	1,250	1003223

Accessories

Shelving Systems

Wide Span Racks

Pallet Racks

Cantilever Racks

On-Line Shelving/
Live Storage Racks

System Platforms

Dynamic Storage

Automated
Logistics Solutions

Logistics Systems

Customer
Service & Support

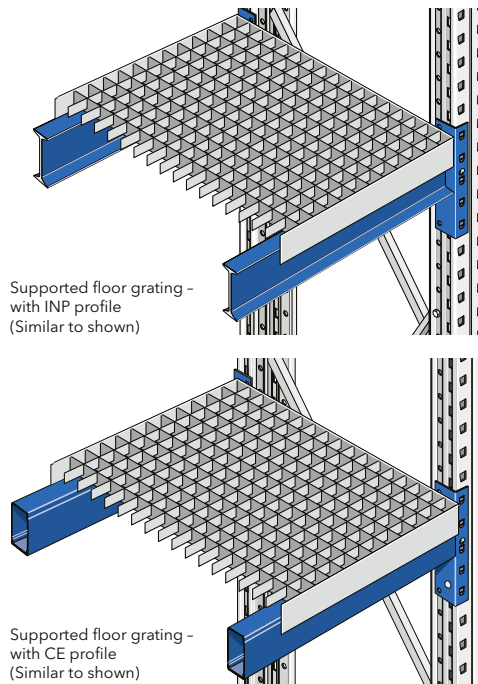
Software



Floor grating

Supported by and fixed to the longitudinal beams. Mesh size 66 x 44 mm. Galvanized. From clear bay width 2,200 mm in two parts. The load values specified apply for evenly distributed loads. Variants listed are not suitable for point loads. Further versions on request.

Item	Frame depth (mm)	Clear bay width (mm)	Support member height (mm)	Compartment load (kg)	Order no.
Supported floor grating for INP and CE beam profiles					
FGA19-085-30-630X	850	1,900	30	1,200	2006496
FGA19-110-35-640X	1,100	1,900	35	1,500	2006523
FGA19-125-40-640X	1,250	1,900	40	1,700	2006530
FGA22-085-30-630X	850	2,200	30	1,400	2006497
FGA22-110-35-640X	1,100	2,200	35	1,800	2006524
FGA22-125-40-640X	1,250	2,200	40	2,000	2006531
FGA27-085-30-630X	850	2,700	30	1,700	2006498
FGA27-110-35-640X	1,100	2,700	35	2,200	2006525
FGA27-125-40-640X	1,250	2,700	40	2,500	2006532
FGA29-085-30-630X	850	2,900	30	1,800	2006499
FGA29-110-35-640X	1,100	2,900	35	2,300	2006526
FGA29-125-40-640X	1,250	2,900	40	2,700	2006533
FGA33-085-30-630X	850	3,300	30	2,100	2006520
FGA33-110-35-640X	1,100	3,300	35	2,700	2006527
FGA33-125-40-640X	1,250	3,300	40	3,000	2006534
FGA36-085-30-630X	850	3,600	30	2,200	2006521
FGA36-110-35-640X	1,100	3,600	35	2,900	2006528
FGA36-125-40-640X	1,250	3,600	40	3,300	2006535
FGA39-085-30-630X	850	3,900	30	2,400	2006522
FGA39-110-35-640X	1,100	3,900	35	3,200	2006529
FGA39-125-40-640X	1,250	3,900	40	3,600	2006536



Sheet steel panels

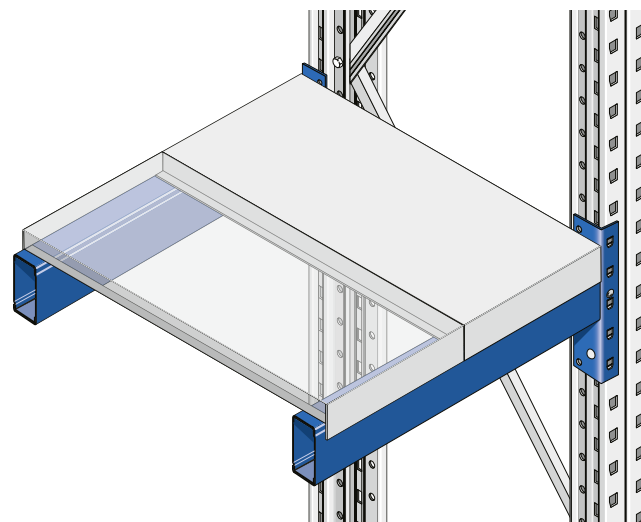
C-shaped bevel. Galvanized. Fixed along depth by front overlap over the beam. Can be used individually or in sets to create closed covers. The load values specified apply for evenly distributed loads.

Clear bay width (mm)	Panel width (mm)	No. of panels
1,900	300	5
	200	2
2,200	300	6
	200	2
2,700	300	9

Clear bay width (mm)	Panel width (mm)	No. of panels
2,900	300	9
	200	1
3,300	300	11
3,600	300	12
3,900	300	13

Item	For frame depth (mm)	Load (kg)	Order no.
Panel width 200 mm			
FPA 20-085-40-40X	850	680	1003781
FPA 20-110-40-40X	1,100	550	1018788
FPA 20-125-40-40X	1,250	460	1003783

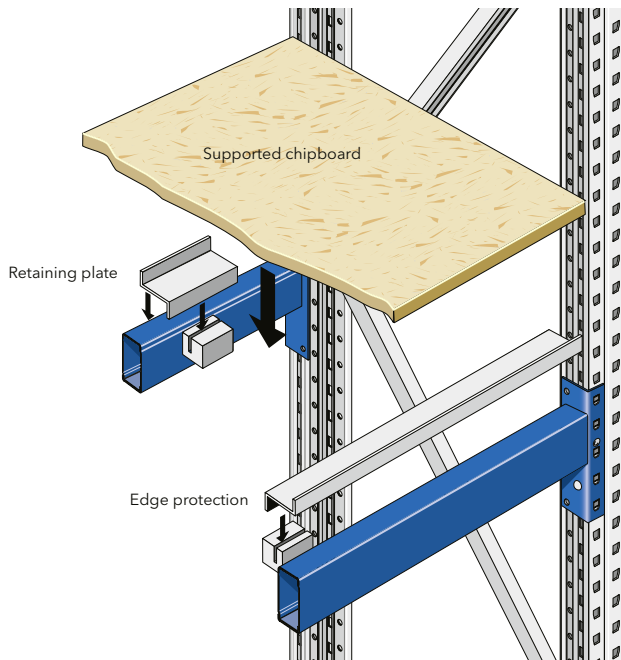
Item	For frame depth (mm)	Load (kg)	Order no.
Panel width 300 mm			
FPA 30-085-40-30X	850	340	1003777
FPA 30-085-40-50X		700	1003785
FPA 30-110-40-30X	1,100	200	1018789
FPA 30-110-40-50X		630	1018091
FPA 30-125-40-30X	1,250	190	1003779
FPA 30-125-40-50X		500	1003787



Accessories

Chipboard

Supported by longitudinal beams with INP or CE profile. Fixed against shifting with retaining plates. From clear bay width 3,300 mm in two parts. The load values specified apply for evenly distributed loads. Variants listed are not suitable for point loads. Further versions on request. Surface: natural.



Edge protection

For chipboard 38 mm and INP/CE longitudinal beams including spacer blocks. Galvanized.

Item	Clear bay width (mm)	Order no.
KN 1924	1,900	1003956
KN 2224	2,200	1003230
KN 2724	2,700	1003231
KN 2924	2,900	1003232
KN 3324	3,300	1003239
KN 3624	3,600	1003241
KN 3924	3,900	1003242

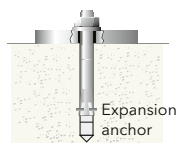
Retaining plate

For chipboard 38 mm and INP/CE longitudinal beams. Galvanized. Four retaining plates each are needed for clear bay widths 1,900 to 2,900 mm, and eight each for clear bay widths 3,300 to 3,900 mm.

Item	PU	Order no.
FSHB 24	Retaining plate, including spacer block (plastic) 1 pc.	1003228

Floor anchors

The frame needs to be anchored in order to ensure the stability of the pallet racks. M10 expansion anchors are used for a normal C20/25 concrete floor. For floors containing magnesium or where conformity with the German Federal Water Act (WHG) is required please speak to our specialist consultants.



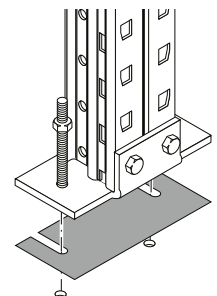
Item	Order no.
BA 10 SL	M10 expansion anchor 1031632
BA 10 VA	M10 adhesive anchor 1031633

Item	Frame depth (mm)	Clear bay width (mm)	Compartment load (kg)	Order no.
38 mm thick, normal density for INP and CE beam profiles				
FSA 19-085-38-NX	850	1,900	1,200	1033666
FSA 19-110-38-NX	1,100	1,900	900	1036350
FSA 19-125-38-NX	1,250	1,900	600	1033786
FSA 22-085-38-NX	850	2,200	1,400	1032579
FSA 22-110-38-NX	1,100	2,200	1,000	1036241
FSA 22-125-38-NX	1,250	2,200	700	1032607
FSA 27-085-38-NX	850	2,700	1,800	1032580
FSA 27-110-38-NX	1,100	2,700	1,200	1036243
FSA 27-125-38-NX	1,250	2,700	900	1032608
FSA 29-085-38-NX	850	2,900	1,900	1032581
FSA 29-110-38-NX	1,100	2,900	1,300	1036245
FSA 29-125-38-NX	1,250	2,900	1,000	1032609
FSA 33-085-38-NX	850	3,300	2,200	1032582
FSA 33-110-38-NX	1,100	3,300	1,500	1036247
FSA 33-125-38-NX	1,250	3,300	1,100	1032610
FSA 36-085-38-NX	850	3,600	2,400	1032583
FSA 36-110-38-NX	1,100	3,600	1,700	1036249
FSA 36-125-38-NX	1,250	3,600	1,200	1032611
FSA 39-085-38-NX	850	3,900	2,600	1032584
FSA 39-110-38-NX	1,100	3,900	1,800	1036251
FSA 39-125-38-NX	1,250	3,900	1,300	1032612

Item	Frame depth (mm)	Clear bay width (mm)	Compartment load (kg)	Order no.
38 mm thick, high density for INP and CE beam profiles				
FSA 19-085-38-HX	850	1,900	2,100	1033696
FSA 19-110-38-HX	1,100	1,900	1,300	1036390
FSA 19-125-38-HX	1,250	1,900	1,000	1033816
FSA 22-085-38-HX	850	2,200	2,400	1032586
FSA 22-110-38-HX	1,100	2,200	1,500	1036242
FSA 22-125-38-HX	1,250	2,200	1,100	1032614
FSA 27-085-38-HX	850	2,700	3,000	1032587
FSA 27-110-38-HX	1,100	2,700	1,900	1036244
FSA 27-125-38-HX	1,250	2,700	1,400	1032615
FSA 29-085-38-HX	850	2,900	3,200	1032588
FSA 29-110-38-HX	1,100	2,900	2,000	1036246
FSA 29-125-38-HX	1,250	2,900	1,500	1032616
FSA 33-085-38-HX	850	3,300	3,700	1032589
FSA 33-110-38-HX	1,100	3,300	2,300	1036248
FSA 33-125-38-HX	1,250	3,300	1,700	1032617
FSA 36-085-38-HX	850	3,600	4,000	1032590
FSA 36-110-38-HX	1,100	3,600	2,500	1036250
FSA 36-125-38-HX	1,250	3,600	1,900	1032618
FSA 39-085-38-HX	850	3,900	4,000	1032591
FSA 39-110-38-HX	1,100	3,900	2,800	1036252
FSA 39-125-38-HX	1,250	3,900	2,000	1032619

Base shim

To compensate for unevenness in the floor, galvanized.



Item	Thickness (mm)	Support profile	Order no.
AP 60.91	1	P73 - P95	1003071



Version as per FEM 10.2.16

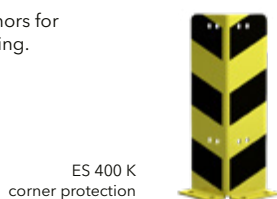
Safety regulations

Stationary racks that are operated with non-track-bound industrial trucks must be sufficiently protected at the corners, including transit routes, against damage to the rack frames.

Safety Accessories

Corner protection

Stable, angular profile, including anchors for fixing to hall floor. Signal Yellow marking.



ES 400 K corner protection

Item	Height (mm)	Order no.
ES 400 K	400	1062829

Drive-in protection

To protect rack supports from damage by industrial trucks, 155 mm wide, U-shaped, including four floor anchors. Colza Yellow, RAL 1021.

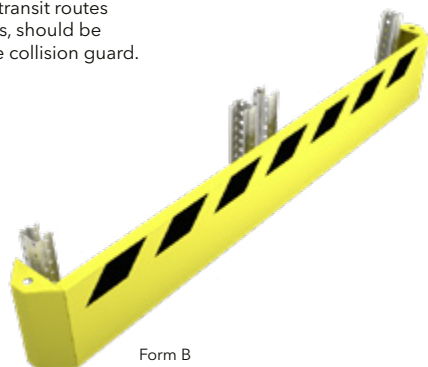


Drive-in protection

Item	Height (mm)	For support profile	Order no.
AS 400/6-1	400	P 73 - P 95	1062742
AS 400/6-2	400	P 113 - P 215	1062743

Collision guards

Sections of the pallet racks that are especially at risk, e.g., transit routes or high-traffic passages, should be protected with a stable collision guard. Signal Yellow marking.



Form B

Form B

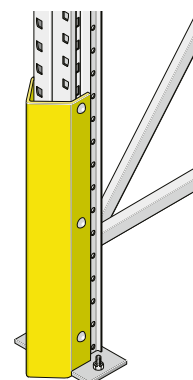
400 mm high, 265 mm wide, including floor anchors.

Item	For frame depth (mm)	Order no.
RS4B 085	850	1063210
RS4B 110	1,100	1018929
RS4B 125	1,250	1018930
RS4B 180	1,800	1018931
RS4B 220	2,200	1018932
RS4B 230	2,300	1018933
RS4B 235	2,350	1018934
RS4B 240	2,400	1018935
RS4B 245	2,450	1018936
RS4B 250	2,500	1018937
RS4B 255	2,550	1018938
RS4B 260	2,600	1018939

Support protection

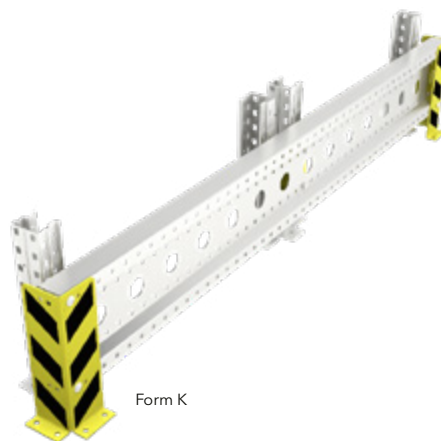
To reinforce the front rack supports and protect against damage, 400 mm and 750 mm high, including fixing kit. Colza Yellow, RAL 1021.

Plastic version on request.



Support protection

Item	For support width (mm)	Height (mm)	For support profile	Order no.
STS 75-6-400	75	400	P 75	1063294
STS 75-6-750		750	P 75	1063295
STS 90-6-400	90	400	P 90	1063298
STS 90-6-750		750	P 90	1063299
STS 100-6-400	100	400	P 100	1063288
STS 100-6-750		750	P 100	1063289
STS 120-6-400	120	400	P 120	1063290
STS 120-6-750		750	P 120	1063291



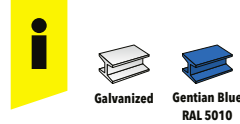
Form K

Form K

With a stable C-sigma profile, 400 mm high, 159 mm wide, including floor anchors; additional support in center from length 1,800 mm.

Item	For frame depth (mm)	Order no.
RS 0854 K	850	1063185
RS 1104 K	1,100	1063187
RS 1254 K	1,250	1063188
RS 1804 K	1,800	1063196
RS 2204 K	2,200	1063198
RS 2304 K	2,300	1063199
RS 2354 K	2,350	1063200
RS 2404 K	2,400	1063201
RS 2454 K	2,450	1063202
RS 2504 K	2,500	1063203
RS 2554 K	2,550	1063204
RS 2604 K	2,600	1063205

Shelving Systems
Wide Span Racks
Pallet Racks
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Live Storage Racks
System Platforms
Dynamic Storage
Automated
Logistics Solutions
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Customer
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Software



Safety Accessories for Pallet Racks

Cladding for mesh back panels

Galvanized. Racks that are freestanding at the back must be equipped with features to prevent loading units or storage goods from falling. Observe the applicable safety regulations or ask our specialist consultants.

The mesh back panels consist of mesh mats in defined lengths and heights. They are combined based on the rack height and clear bay width. The mesh size is 100 x 50 mm. One GRM mesh segment consists of two C profiles each and the required mesh mats. Depending on the number of mesh mats, console kits (including fixing kit), mesh connectors and compensating rods are needed - please order separately.

Spacing: 180 mm outer edge of rack supports to inner edge of GRM;
220 mm outer edge of rack supports to outer edge of GRM.

Order notice

Mesh and fixing elements do not project out beyond the frame; the upper edge of the mesh back panel is identical to the rack height. All frames in a rack line must have the same height. Loading units must be secured against falling off the side.

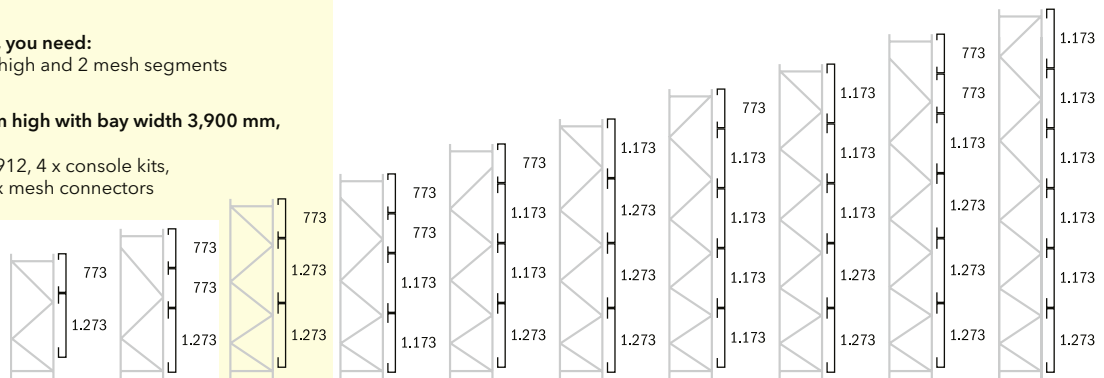
Number of mesh connectors

Rack height	Clear bay width						
	1,900	2,200	2,700	2,900	3,300	3,600	3,900
2,500	1	1	2	2	2	3	2
3,000	2	2	4	4	4	6	4
3,600	2	2	4	4	4	6	4
4,100	3	3	6	6	6	9	6
4,700	3	3	6	6	6	9	6
5,200	3	3	6	6	6	9	6
5,800	4	4	8	8	8	12	8
6,300	4	4	8	8	8	12	8
6,900	5	5	10	10	10	15	10
7,400	5	5	10	10	10	15	10

Example order

For a rack 3,600 mm high, you need:
1 mesh segment 723 mm high and 2 mesh segments 1,273 mm high.

For a pallet rack 3,600 mm high with bay width 3,900 mm, you need:
1 x GRM-3907, 2 x GRM-3912, 4 x console kits, 4 x compensation rods, 4 x mesh connectors

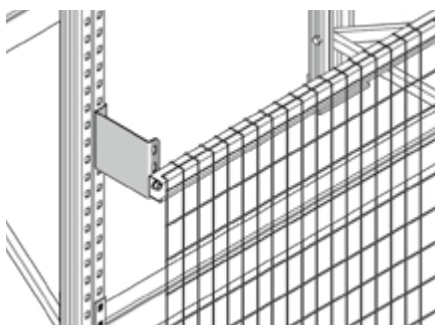


Rack height in mm	2,500	3,000	3,600	4,100	4,700	5,200	5,800	6,300	6,900	7,400
Lower dimensions in mm	345	45	45	45	45	45	45	45	45	45
Number of required mesh segments										
H 773 mm	1	2	1	2	1	-	1	-	2	-
H 1,173 mm	-	-	-	2	2	1	4	3	1	5
H 1,273 mm	1	1	2	-	1	3	-	2	3	1
No. of console kits	3	4	4	5	5	5	6	6	7	7
No. of compensation rods	2	2	4	4	4	4	6	6	6	6

Item	Clear bay width (mm)	Order no.
Mesh segment height 773 mm		
GRM-0907	900	1015307
GRM-1107	1,100	1015308
GRM-1307	1,300	1015309
GRM-1907	1,900	1015582
GRM-2207	2,200	1015317
GRM-2707	2,700	1015318
GRM-2907	2,900	1015319
GRM-3307	3,300	1015320
GRM-3607	3,600	1015321
GRM-3907	3,900	1015322

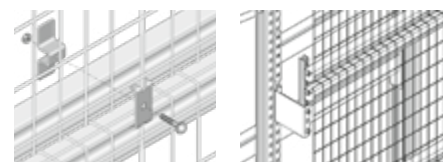
Item	Clear bay width (mm)	Order no.
Mesh segment height 1,173 mm		
GRM-0911	900	1015310
GRM-1111	1,100	1015311
GRM-1311	1,300	1015312
GRM-1911	1,900	1015606
GRM-2211	2,200	1015325
GRM-2711	2,700	1015326
GRM-2911	2,900	1015327
GRM-3311	3,300	1015328
GRM-3611	3,600	1015329
GRM-3911	3,900	1015330

Item	Clear bay width (mm)	Order no.
Mesh segment height 1,273 mm		
GRM-0912	900	1015313
GRM-1112	1,100	1015314
GRM-1312	1,300	1015315
GRM-1912	1,900	1015630
GRM-2212	2,200	1015333
GRM-2712	2,700	1015334
GRM-2912	2,900	1015335
GRM-3312	3,300	1015336
GRM-3612	3,600	1015337
GRM-3912	3,900	1015338



Console kits (incl. fixing kit)

Item	Length (mm)	Frame depth (mm)	Order no.
Without including push-through protection			
GRM-K2-060-S	60	850, 1,250	1017353
GRM-K2-130-S	130	1,100	1017354
Including push-through protection			
GRM-K2-180-S	180	850, 1,250	1017355
GRM-K2-340-S	340	1,100	1017358



Item	Order no.
Mesh connector (see table above)	
GRM-GVS	1015848
Compensation rods (incl. fixing kit)	
GRM-ASS	1015295

Labeling requirement

The regulations of the trade associations require rack facilities to be labeled with all the necessary load specifications.

SCHAEFER

System: _____ Type: _____
 Year of manufacture: _____
 Com. no.: _____
 Max. bay load: _____ kg
 With clear compartment height: _____ mm
 Compartment load: _____ kg
 Bay length: _____ mm Profile: _____
 Compartment load: _____ kg
 Bay length: _____ mm Profile: _____
 Compartment load: _____ kg
 Bay length: _____ mm Profile: _____

The sum of all compartment loads must not exceed the permissible bay load. Compartment loads are evenly distributed. Observe the installation and operating instructions. Damaged or deformed rack parts must be replaced immediately. Significant load capacity reduction.

FRIEZ SCHÄFER GmbH
 Fritz-Schäfer-Strasse 20
 51726 Neulesheim, Germany
 Tel. +49 (0)2733 70 1
 Fax +49 (0)2733 70 376

SCHAEFER

Regale nicht bestiegen!

Ständige Kontrollen sind aus dem für die Sicherheit der Lagerhaltung Verantwortlichen selbst zu stellen.

Regelgröße Lagerkapazität durch die Überprüfen der (eigenen) Lagerung und Lager- / Abfertigungsregeln, jeweils für abgelegene Stellplätze, zu gewährleisten.

Wp. 04 1002, Orderteil-Regelungen aus GGG, Abweichung und Wahrung von Lagerbeständen!

Wp. 04 1002, Orderteil-Regelungen aus GGG, Abweichung und Wahrung von Lagerbeständen!

Wp. 04 1002, Orderteil-Regelungen aus GGG, Abweichung und Wahrung von Lagerbeständen!

max. zulässige Nutzlast: _____ kg
 max. zulässige Nutzlast: _____ kg

FRIEZ SCHÄFER GmbH (Fritz-Schäfer-Strasse 20) 51726 Neulesheim
 Tel. +49 (0)2733 70 1 Fax +49 (0)2733 70 376
 info@schaefer.com | www.schaefer.com

Safety Accessories for Pallet Racks

Payload signs

Item	W x H (mm)	Material	Order no.
PRTS 7050 LTR	450 x 600	Aluminum, incl. fixing kit	V980014*
TS 0615	60 x 150	PVC adhesive film	1003252*

* The technical data is defined via a time sheet. It is offered and invoiced as part of the price of the sign.

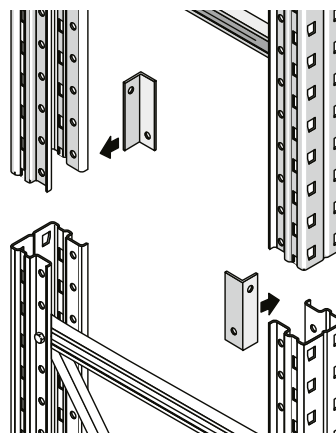
Front retainers

To protect loading units from falling off the sides, 500 mm high, incl. fixing kit.

Surface: Galvanized.

Notice: Front retainers cannot be used with mesh back panels.

Item	Frame profile (mm)	Frame depth (mm)	Order no.
AN 68	75	850	1001330
AN 98	90	850	1001329
AN 611	75	1,100	1017987
AN 911	90	1,100	1019063
AN 62	75	1,250	1001332
AN 92	90	1,250	1001328



Push-through protection

Galvanized. Push-through protection is required when double-sided racks are used and the distance between the loading aid or loading unit is less than 100 mm. On single racks, push-through protection prevents loading units from falling. A profile 60 or 100 mm wide can be used depending on requirements.

Item	Clear bay width (mm)	Profile	Order no.
DSC060FW1900	1,900	C 60/40	1017130
DSC060FW2300	2,300	C 60/40	1017134
DSC060FW2700	2,700	C 60/40	1017138
DSC100FW2900	2,900	C 100/60	1017140
DSC100FW3300	3,300	C 100/60	1017144
DSC100FW3600	3,600	C 100/60	1017147
DSC100FW3900	3,900	C 100/60	1017150



Accessory for push-through protection on single racks

Galvanized. For single racks, one console kit for a distance of 100 mm is required as a retainer for each push-through protection.

Item	For frame depth (mm)	Order no.
DSF-K110	1,100	2004365



Accessories for push-through protection on double-sided racks

For double-sided rack lines, two spacers are required as retainers for each push-through protection.

For more information, see **page C10**.

Shelving Systems

Wide Span Racks

Pallet Racks

Cantilever Racks

On-Line Shelving/
Live Storage Racks

System Platforms

Dynamic Storage

Automated
Logistics Solutions

Logistics Systems

Customer
Service & Support

Software

Pallet Flow Racks



Pallet flow rack warehouses are used as buffer warehouses for shipping, production and incoming and outgoing goods. The racks are usually operated with front and reach trucks. Hand pallet trucks can also be used at the lowest level on the unloading side. The First In, First Out (FIFO) principle is observed. Storage goods with expiration dates or

product batches are easier to monitor. The gravity roller conveyor version can be adapted to the respective storage goods using different roller spacing and brake rollers. Further advantages of this storage system include the optimal use of space and volume and the option of integration in the automated material flow.

The pallets can also be operated across multiple floors using an additional picking level or tunnel.

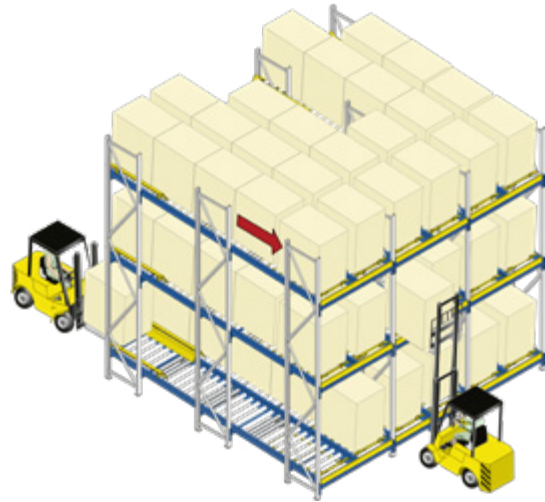
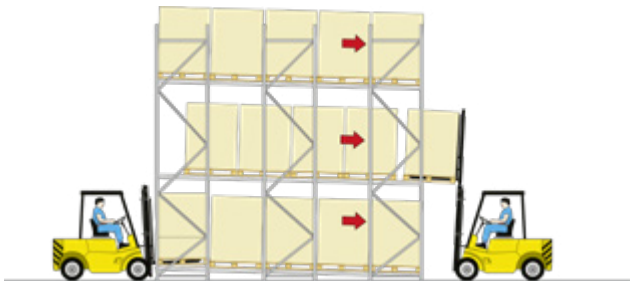


Further information
on request

Loading Flow and Pushback Racks

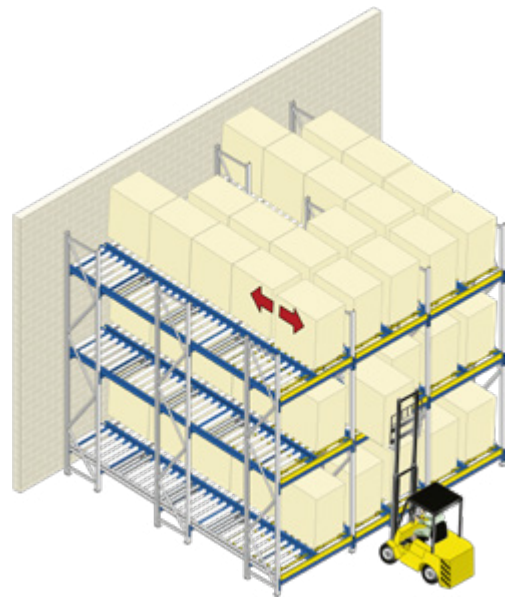
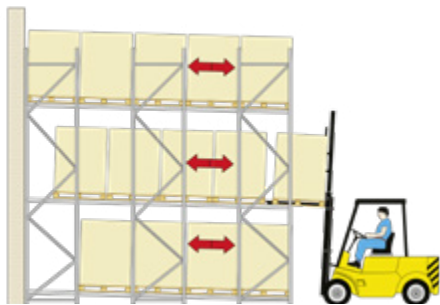
Pallet flow rack warehouse

The flow rack warehouse consists of gravity roller conveyors generally set up as flow levels. This results in economical use of the space, because multiple channels are positioned next to each other and the room height can be fully exploited. The storage and retrieval sides are separated; the roller conveyors take care of transport and storage.



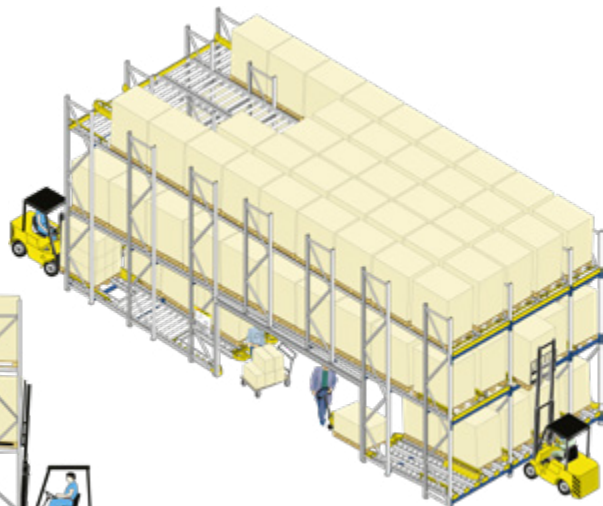
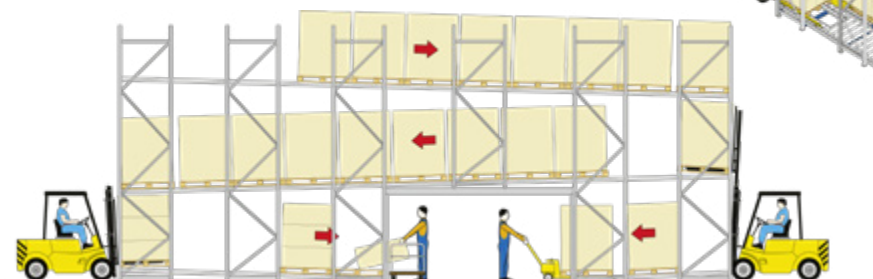
Pallet pushback rack warehouse

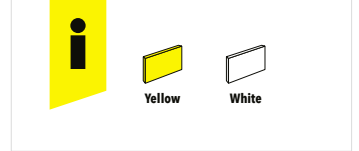
Pallet pushback warehouses are space-saving buffer warehouses with just one operator aisle. When this warehouse approach is used, the storage goods are pushed against the tilt of the roller conveyor in one channel using a loading device. During retrieval, the pallets that follow are slowed by the forklift picking process. Omitting brake rollers and separators presents a cost-effective solution. All items are always available on the operator's side of the rack. Pallet pushback rack warehouses follow the LIFO principle (Last In, First Out).



Pallet flow rack warehouse with picking tunnel

Pallet flow racks are an important component in warehouse logistics, since the connection of buffer warehouses and picking is implemented consistently. Flow racks with picking tunnels follow the FIFO (First In, First Out) principle. Replenishment and picking aisles are separated and large item volumes are possible. This approach is ideal for applications, for example in the drinks industry or for electrical device manufacturers.





Warehouse and Storing Position Labeling

The potential for accelerating logistics processes and therefore permanently reducing costs is extraordinarily high.

Both manual and IT-controlled warehouses can be optimized with processes and systems of visual warehouse organization.

Employee productivity is significantly increased thanks to fast and secure storage, retrieval and relocation. Pickers and forklifts are guided to the right storing position in no time.

The solution is an intuitive control system that is quick and easy to implement. The investment in visual warehouse organization is particularly low as a result.

Systematic numbering of all storing positions - the "number code" - is the basis and requirement for efficient warehouse organization.

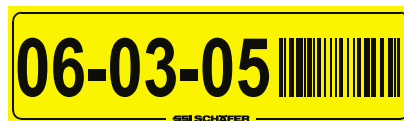
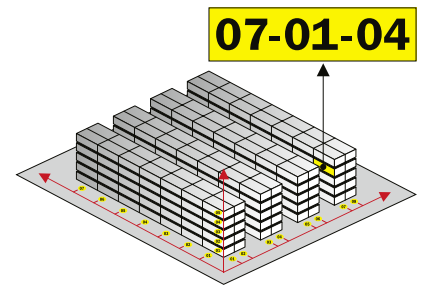
Each storing position is given unique, unchanging coding that is composed of at least three coordinates: the rack line, longitudinal position and height position.

More information can be printed, e.g., warehouse areas, check digits, barcodes, position arrows.

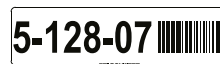
Signs, labels, card holders and floor markings are available with a wide range of variation in fonts, color scheme and sizes.

If you would like a version that is not listed here, please ask.

i Further versions
on request



From 2,000 pieces on request



From 2,000 pieces on request

Storing position labels

Self-adhesive polyethylene film, color: yellow, printed content: black, up to 8 characters, additionally with barcode. Minimum ordered quantity 100 pieces.

Item	W x H (mm)	Order no.
Quantity scale: 1-1,999 pieces		
R SK 1230 SGB	192 x 38	1032538
R SK 1438 SGB	224 x 38	1032539
R SK 2265 SGB	380 x 65	1032540

Storing position labels

Self-adhesive polyethylene film, color: white, printed content: black, up to 8 characters, additionally with barcode. Minimum ordered quantity 100 pieces.

Item	W x H (mm)	Order no.
Quantity scale: 1-1,999 pieces		
R SK 1230 SWB	192 x 38	1032541
R SK 1438 SWB	224 x 38	1032542
R SK 2265 SWB	380 x 65	1032543



Cantilever Racks for Storage of Long Goods

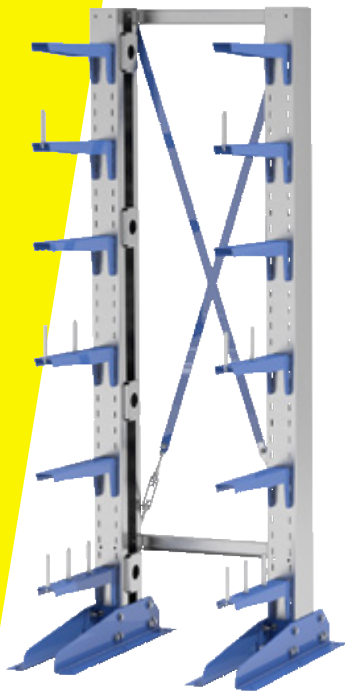
When it comes to storing long or bulky goods, cantilever rack systems are the ideal solution. They can be used to store a wide range of goods, from lightweight plastic pipes and steel pipes, profiles and wooden panels to solid coils.

Made to measure: SSI SCHAEFER specialist consultants can develop tailored concepts to accommodate specific storage materials or particular site conditions.

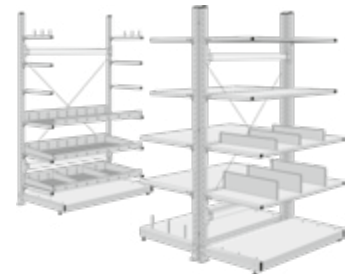
The cantilever uprights can be supplied for single or doubled-sided use. With both versions, any required row length is possible.

Adjustable cantilever arms allow easy adaptation to different storage heights and load requirements. SSI SCHAEFER offers a range of different accessories, depending on the goods being stored.

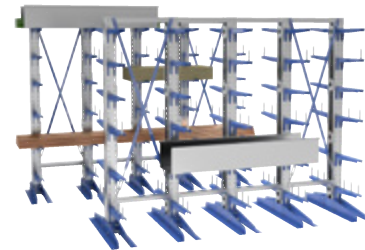




Contents



■ KR 3000 cantilever racks Page **D4**



■ KRM cantilever racks Page **D8**



■ KRS cantilever racks Page **D12**



Information on **inspection requirements**
for rack installations

Chapter J, page J6

All load values specified apply for evenly distributed loads.

Overview of Cantilever Rack Systems



KR 3000 cantilever racks

Applications	<ul style="list-style-type: none"> ■ On-line shelving and storage of lightweight and bulky materials
Advantages	<ul style="list-style-type: none"> ■ Assembly with dividing pins, shelves or storage trays ■ Double-sided racks constructed out of freestanding uprights placed next to each other and three frame connectors ■ Special upright profile ■ Backlash-free installation of beams thanks to conical grooves on both end faces
System	<ul style="list-style-type: none"> ■ Freestanding upright design
Design	<ul style="list-style-type: none"> ■ Extension bay design; proportionally reduces the load capacity per rack bay
System hole pattern	<ul style="list-style-type: none"> ■ 53 x 53 mm
Load capacity	<ul style="list-style-type: none"> ■ Up to 150 kg per side and rack frame, incl. base shelf, up to 50 kg per cantilever arm
Support profiles/horizontal braces	<ul style="list-style-type: none"> ■ Galvanized
Cantilever arms	<ul style="list-style-type: none"> ■ Galvanized
Shelves	<ul style="list-style-type: none"> ■ Light Silver
From page	<p>D4</p>



KRM cantilever racks

- On-line shelving and storage of pipes, profiles or long, bulky materials
- Simple design with only a few components
- Single or double-sided racks
- Hook-in cantilever arms, enabling adjustment without tools
- Robust design
- Solid base plate
- Bolted upright design
- Bolted system: Support profiles are bolted together with horizontal braces to form rack rows and reinforced with cross braces in every fourth rack bay
- 50 x 50 mm
- Up to 2,300 kg per upright side with even height division
- Galvanized
- Painted RAL 5010, Gentian Blue

D8



KRS cantilever racks

- Storage of heavy, bulky materials and goods. Universally usable in halls, for manual or automatic operation, stationary or mobile installation possible
- Simple design with only a few components
- Single or double-sided racks
- Bolted cantilever arms
- Robust design
- Bolted upright design
- Bolted system: Support profiles are bolted together with horizontal braces to form rack rows and reinforced with cross braces in every fourth rack bay
- 100 x 100 mm
- Up to 14,000 kg per upright side with even height division
- Painted RAL 7037, Dusty Gray
- Painted RAL 5010, Gentian Blue

D12

Shelving Systems

Wide Span Racks

Pallet Racks

Cantilever Racks

On-Line Shelving/
Live Storage Racks

System Platforms

Dynamic Storage

Automated
Logistics Solutions

Logistics Systems

Customer
Service & Support

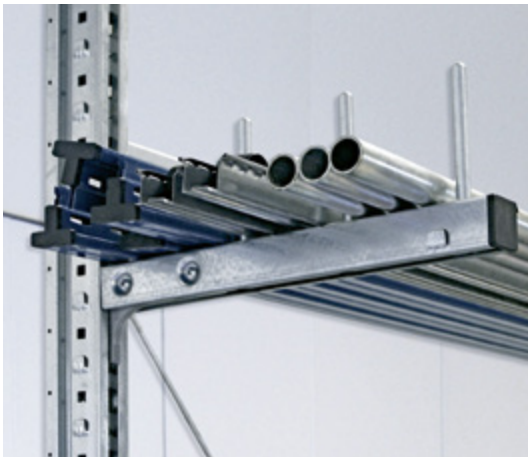
Software

KR 3000 Cantilever Racks

KR 3000 cantilever racks from SSI SCHAEFER are ideal for quick location changes. Each side can support loads of up to 300 kg in the starter bay design.

The cantilever arms can be adjusted in 53 mm steps with an insertion angle of 10°. They can be fitted with dividing pins or serve as a support for shelves and storage trays. All compartment levels can support loads of up to 100 kg in the starter bay design.

The double-sided rack is made up of uprights positioned one behind the other and stabilized with two frame connectors. The racks can also be configured in the extension bay design. In this case, it is important to bear in mind that the load capacity per rack bay decreases accordingly.





Galvanized

KR 3000 System Design

- **Load capacity**
Up to 150 kg per side and rack frame, incl. base shelf, up to 50 kg per cantilever arm
- **Height adjustable in steps of 53 mm**
Cantilever arms with insertion angle of 10°
- **System design**
Cantilever rack design
- **Extension bay design**
proportionally reduces the load capacity per rack bay
- **Applications**
On-line shelving and storage of lightweight and bulky materials
- **Assembly with dividing pins, shelves or storage trays**
- **Double-sided racks**
constructed out of racks placed next to each other and three frame connectors
- **Special upright profile**
- **Backlash-free installation of beams**
thanks to conical grooves on both end faces

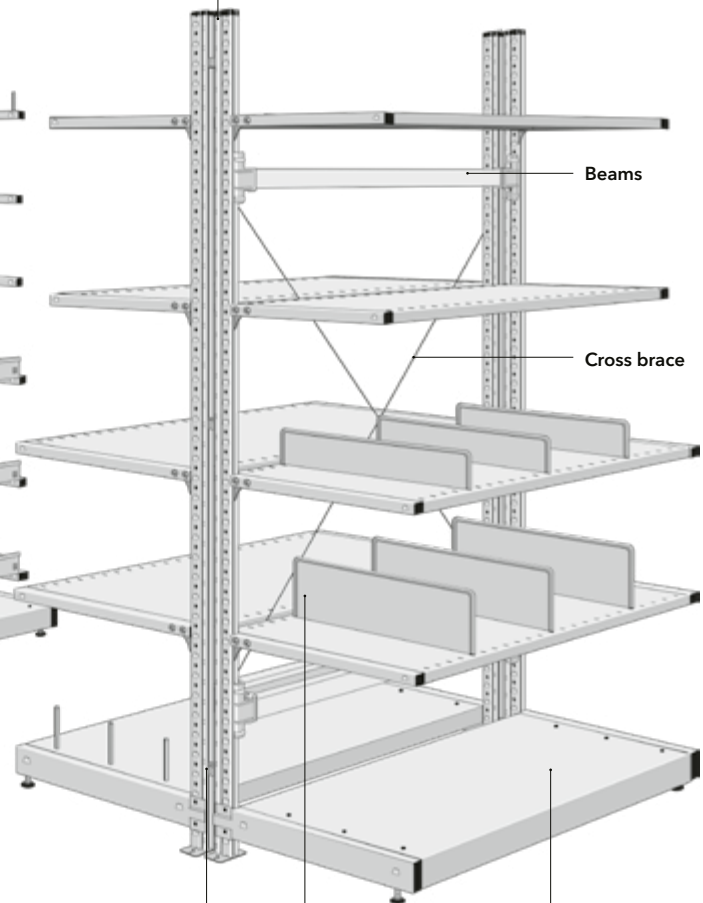
Cantilever rack upright with foot profile

Dividing pins
Page D7

Cantilever arms
Page D7

Tray
(without divider)
Page D7

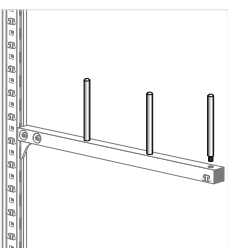
Tray
(with divider)
Page D7



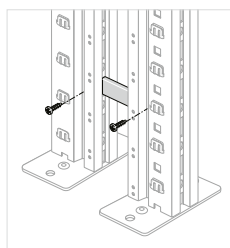
Frame connectors
Page D7

Freestanding dividers
Chapter A, page A13

Base shelf



Dividing pins



Frame connectors

Shelving Systems

Wide Span Racks

Pallet Racks

Cantilever Racks

On-Line Shelving/
Live Storage Racks

System Platforms

Dynamic Storage

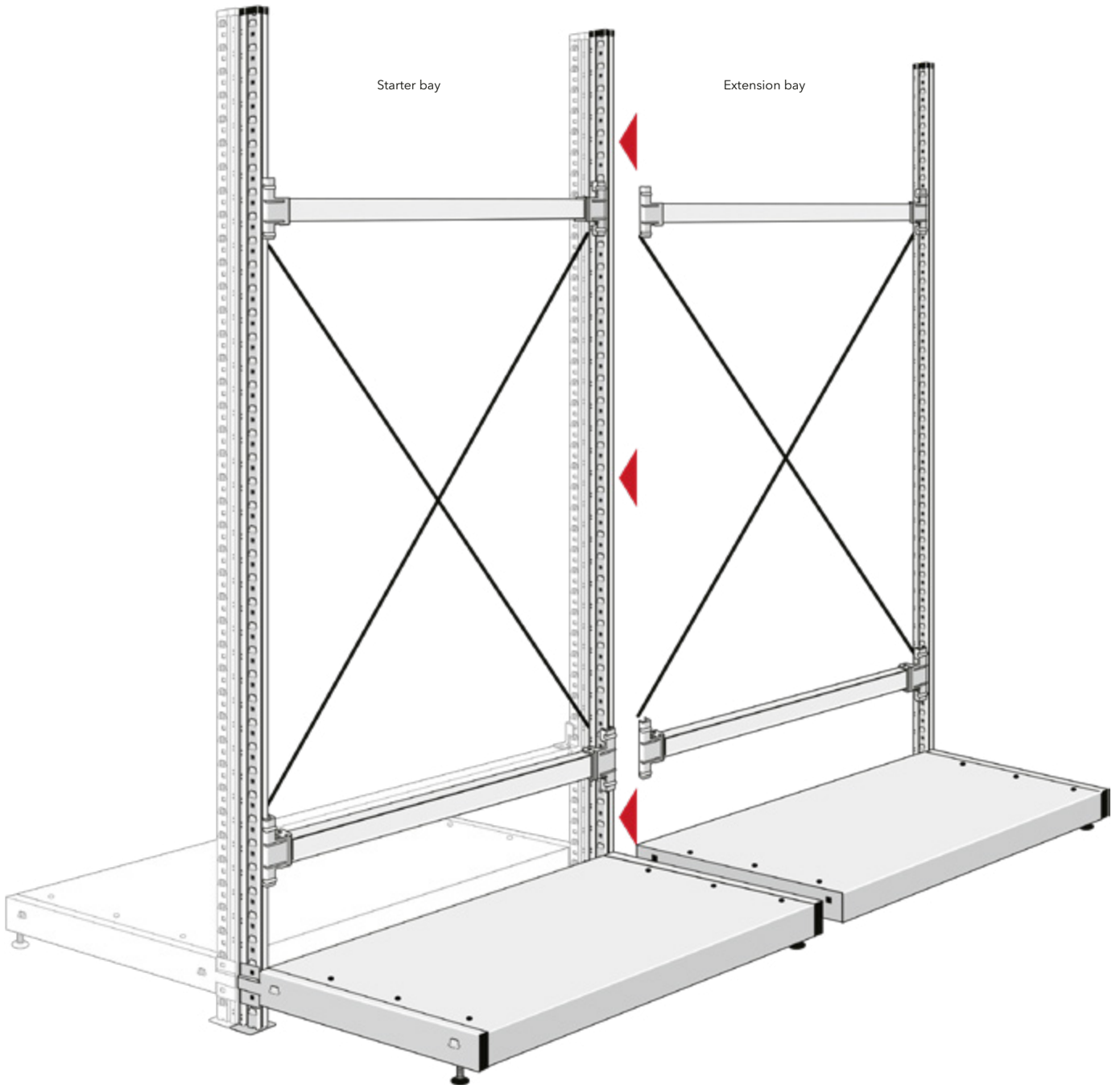
Automated
Logistics Solutions

Logistics Systems

Customer
Service & Support

Software

Rack Components



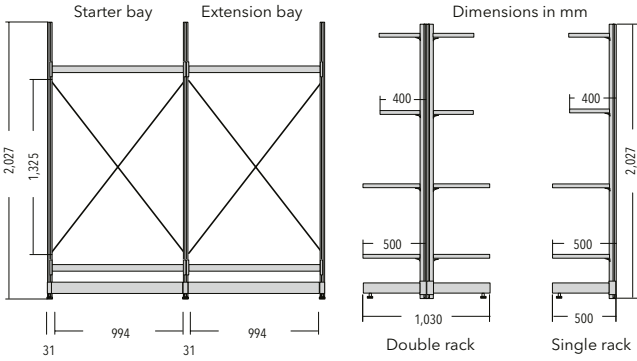


Shelves

The maximum load capacity can only be used in the starter bay design

Starter bay/extension bay

Clear bay width 994 mm each



Rack Components and Accessories

Starter bay

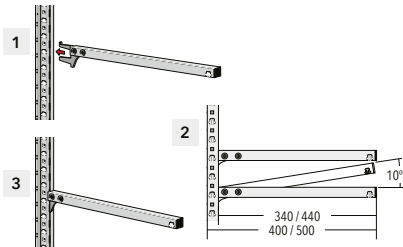
2 uprights with foot profile – single sided, 2 beams, 1 cross brace, 1 base shelf.

Item	Width (mm)	Height (mm)	Order no.
FR 31020 G	994	2,027	1042649

Extension bay

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

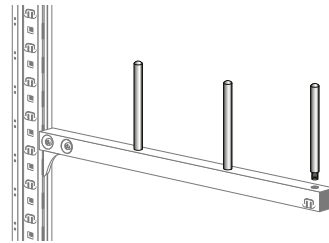
Item	Width (mm)	Height (mm)	Order no.
FR 31020 A	994	2,027	1042650



Cantilever arms

Galvanized sheet steel. For attaching shelves and trays. Load capacity 50 kg.

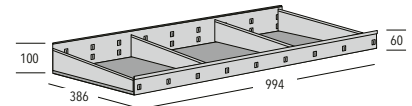
Item	Rack depth (mm)	Usable depth (mm)	Order no.
KK 34050	400	340	1042653
KK 35050	500	440	1042654



Dividing pin

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

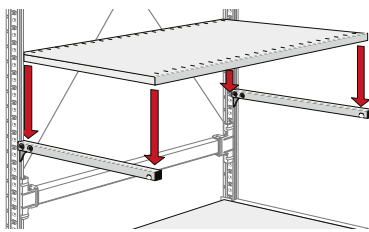
Item	Order no.
AST 3100	1042655



Tray

Galvanized sheet steel. External depth 400 mm, internal depth 386 mm. Load capacity 50 kg per storage level.

Item	Order no.
LW 31010 Tray	1042657
LWT 386/2386 Divider	1041858

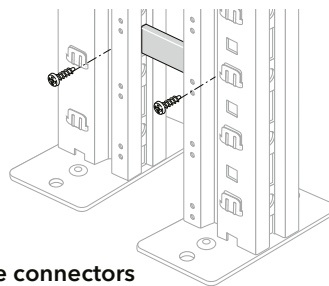


Shelves

Sheet steel, galvanized. 30 mm high. The shelves feature rows of slots with 41 mm spacing. Freestanding dividers can be inserted into the slots for lengthwise partitioning.

Notice: The maximum load capacity can only be used in the starter bay design.

Item	Rack depth (mm)	Order no.
ZB 4413 V	400	1041996
ZB 4513 V	500	1041997

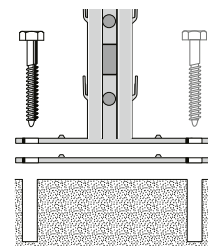


Frame connectors

Galvanized sheet steel. For connecting double-sided rack bays. Spacing 30 mm.

Incl. fixing kit.

Item	Order no.
RV 3030	1055064



Floor mounting

Galvanized. Screw anchors for securing the rack uprights to the floor.

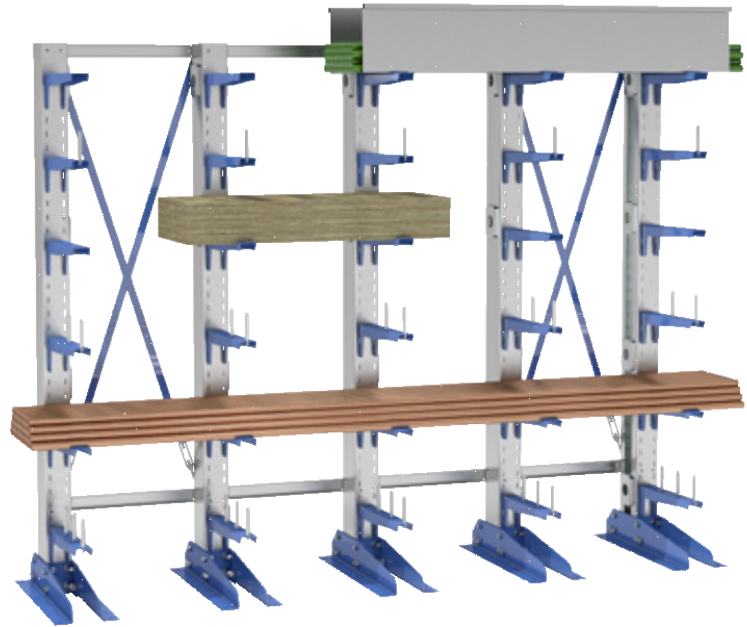
Item	Order no.
HUS3-H6x60	1036114

Clear bay width 1,282 mm and additional accessories on request

Shelving Systems, Wide Span Racks, Pallet Racks, Cantilever Racks, On-Line Shelving/Live Storage Racks, System Platforms, Dynamic Storage, Automated Logistics Solutions, Logistics Systems, Customer Service & Support, Software

Cantilever Racks for Light to Medium Loads

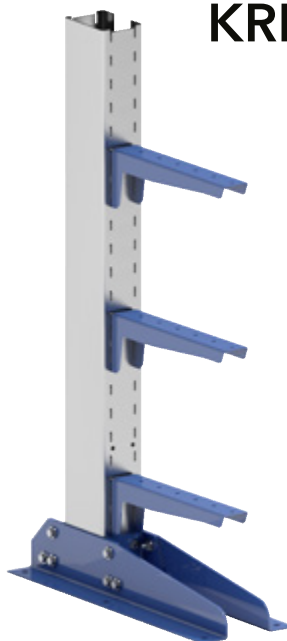
When it comes to the on-line shelving and storage of pipes, profiles and long, bulky materials, being able to adapt the storage system quickly is a real advantage in practice. Whether you use it in a single or double-sided configuration, with subdivided cantilevers or storage trays, the KRM cantilever rack system is the right choice - guaranteed. There is no need for tools to adjust the cantilever arms.





- **Load capacity**
Up to 2,300 kg per upright side with even height division
- **System hole pattern**
spaced 50 x 50 mm
- **Bolted system**
Support profiles are bolted together with horizontal braces to form rack rows and reinforced with cross braces in every fourth rack bay
- **On-line shelving and storage**
of pipes, profiles or long, bulky materials
- **Simple design**
with just a few components
- **Single or double-sided racks**
- **Hook-in cantilever arms,**
enabling adjustment without tools
- **Robust design**
- **Solid base plate**

KRM System Design

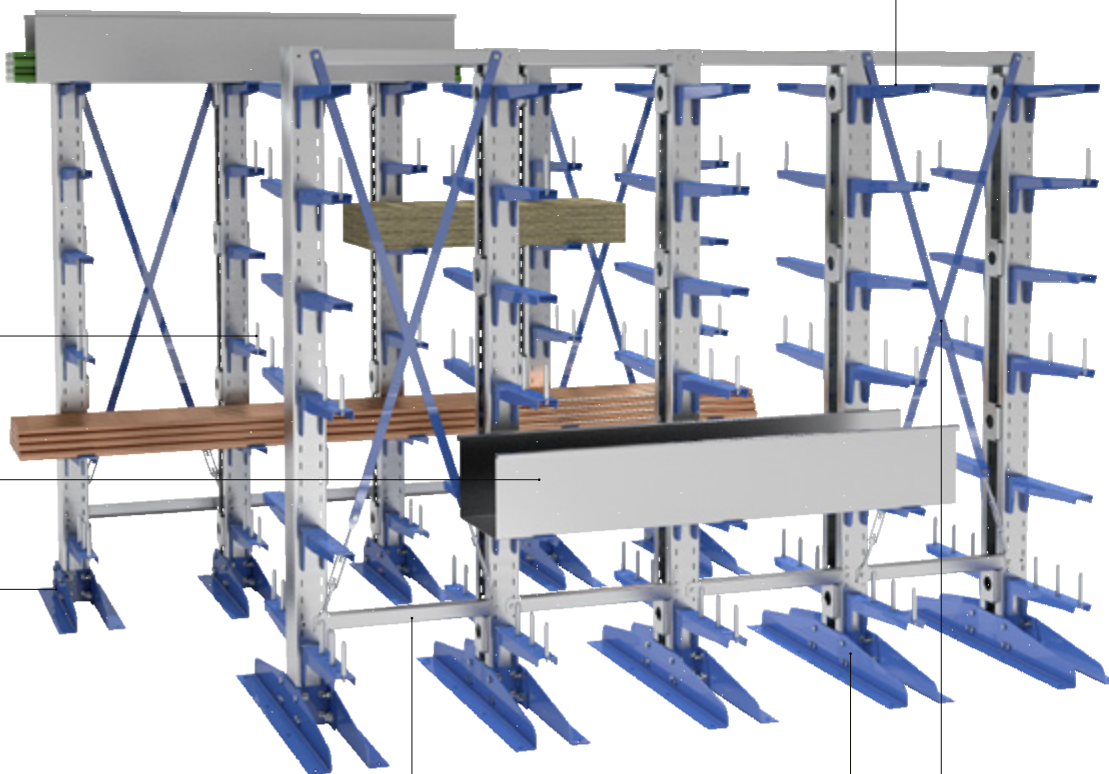


Cantilever arms
Page D10

Partitioning pins
Page D11

Storage trays
Page D11

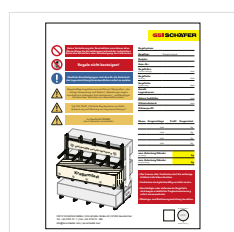
Cantilever upright (single-sided)
Page D10



Horizontal braces
Page D10

Cantilever upright (double-sided)
Page D10

Cross braces
Page D11



Payload sign



Cantilever arm



Partitioning pins



Storage tray



Horizontal brace



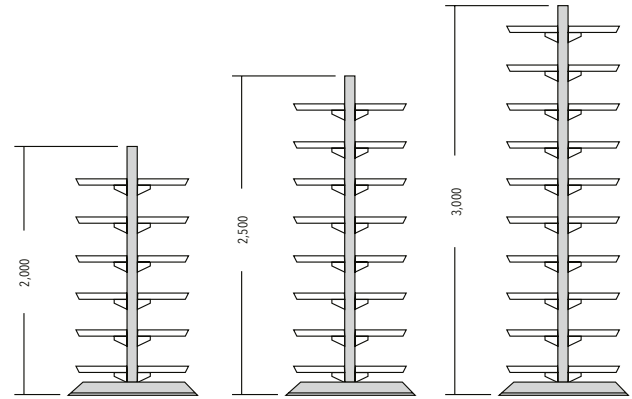
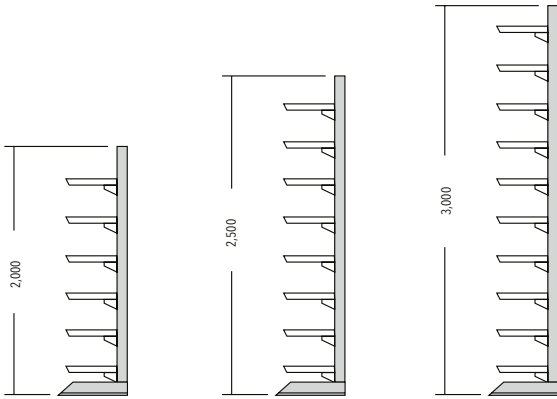
Cantilever upright



Base
Cantilever arms

KRM Cantilever Uprights and Accessories

- **Cantilever uprights**
The load values specified apply for each upright side with even height distribution of cantilever arms.
- **Cantilever arms**
The load values specified apply for evenly distributed loads.



Cantilever uprights, single-sided

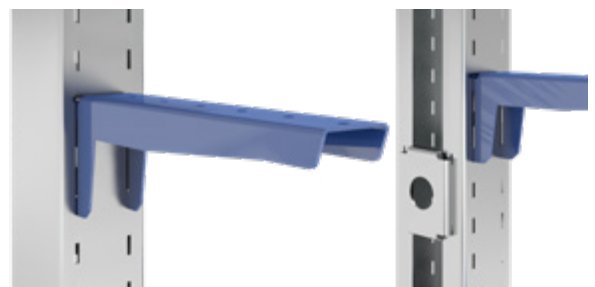
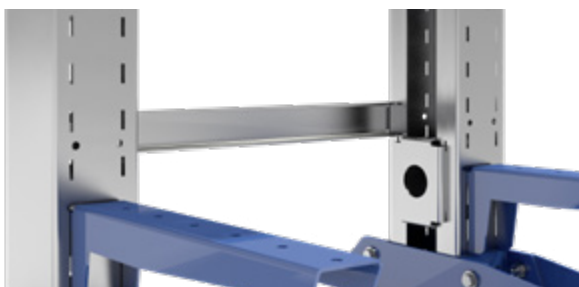
Steel, galvanized. System hole pattern 50 x 50 mm, base profiles consisting of angled profiles in RAL 5010 Gentian Blue for even load distribution on the floor. Two horizontal braces are required to connect each set of cantilever uprights.

Cantilever uprights, double-sided

Steel, galvanized. System hole pattern 50 x 50 mm, base profiles consisting of angled profiles in RAL 5010 Gentian Blue for even load distribution on the floor. Two horizontal braces are required to connect each set of cantilever uprights.

Item	Upright height (mm)	Usable depth (mm)	Total depth (mm)	Load (kg)	Order no.
KRM-KASE200400	2,000	400	700	2,300	1017224
KRM-KASE200500		500	800	1,900	1017225
KRM-KASE200600		600	900	1,650	1017226
KRM-KASE200800		800	1,100	1,200	1017227
KRM-KASE250400	2,500	400	700	2,150	1017228
KRM-KASE250500		500	800	1,750	1017229
KRM-KASE250600		600	900	1,500	1017230
KRM-KASE250800		800	1,100	1,000	1017231
KRM-KASE300400	3,000	400	700	2,000	1017232
KRM-KASE300500		500	800	1,600	1017233
KRM-KASE300600		600	900	1,350	1017234
KRM-KASE300800		800	1,100	950	1017235

Item	Upright height (mm)	Usable depth (mm)	Total depth (mm)	Load (kg/side)	Order no.
KRM-KASD200400	2,000	400	1,040	2,300	1017236
KRM-KASD200500		500	1,240	1,900	1017237
KRM-KASD200600		600	1,440	1,650	1017238
KRM-KASD200800		800	1,840	1,200	1017239
KRM-KASD250400	2,500	400	1,040	2,150	1017240
KRM-KASD250500		500	1,240	1,750	1017241
KRM-KASD250600		600	1,440	1,500	1017242
KRM-KASD250800		800	1,840	1,000	1017243
KRM-KASD300400	3,000	400	1,040	2,000	1017244
KRM-KASD300500		500	1,240	1,600	1017245
KRM-KASD300600		600	1,440	1,350	1017246
KRM-KASD300800		800	1,840	950	1017247



Horizontal braces

Steel, galvanized. Two horizontal braces are required to connect each set of cantilever uprights.

Cantilever arms

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

Item	Center distance (mm)	Order no.
KRM-LV06	600	1017248
KRM-LV08	800	1017249
KRM-LV10	1,000	1017250
KRM-LV12	1,250	1017251
KRM-LV15	1,500	1017252

Item	Cantilever arm length (mm)	Load (kg)	Order no.
KRM-KA400	400	350	1017220
KRM-KA500	500	300	1017221
KRM-KA600	600	250	1017222
KRM-KA800	800	180	1017223

Cantilever Racks for Heavy Loads

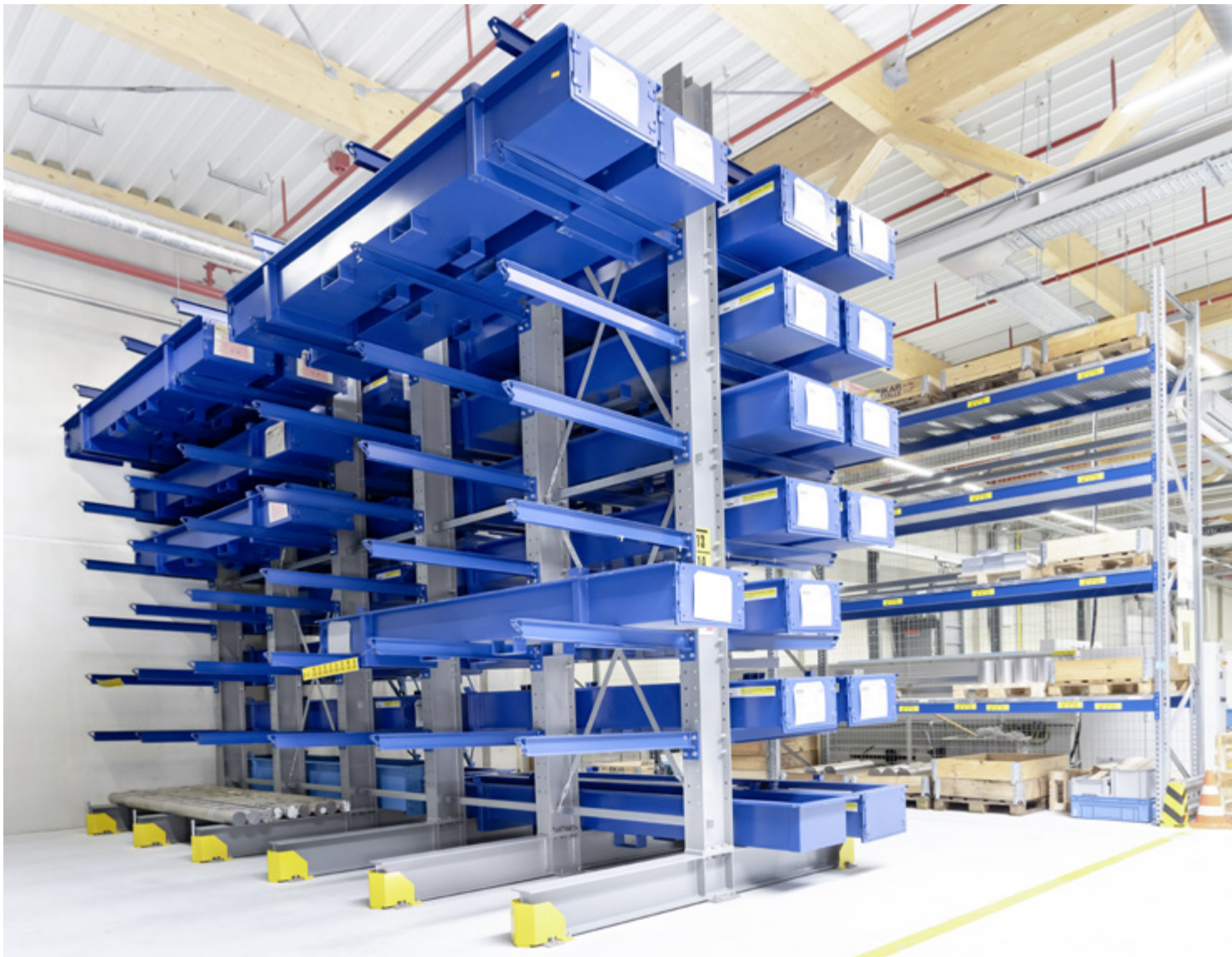
Cantilever racks for medium and heavy loads are used in all areas of day-to-day operations. The requirements of these systems are many and varied, and the storage system must adapt to the goods being stored - not the other way around.

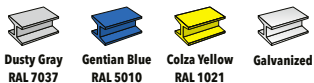
The KRS system is designed to offer limitless versatility when it comes to dimensions and load capacity. The usage options range from manual to automatic operation, with stationary or mobile installation possible.



Further information

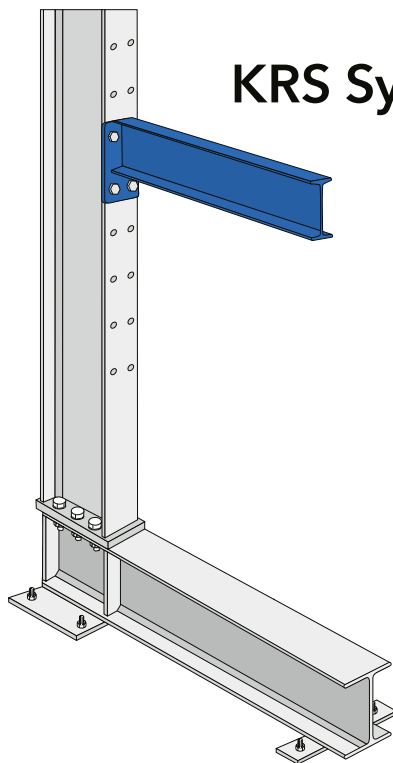
on request



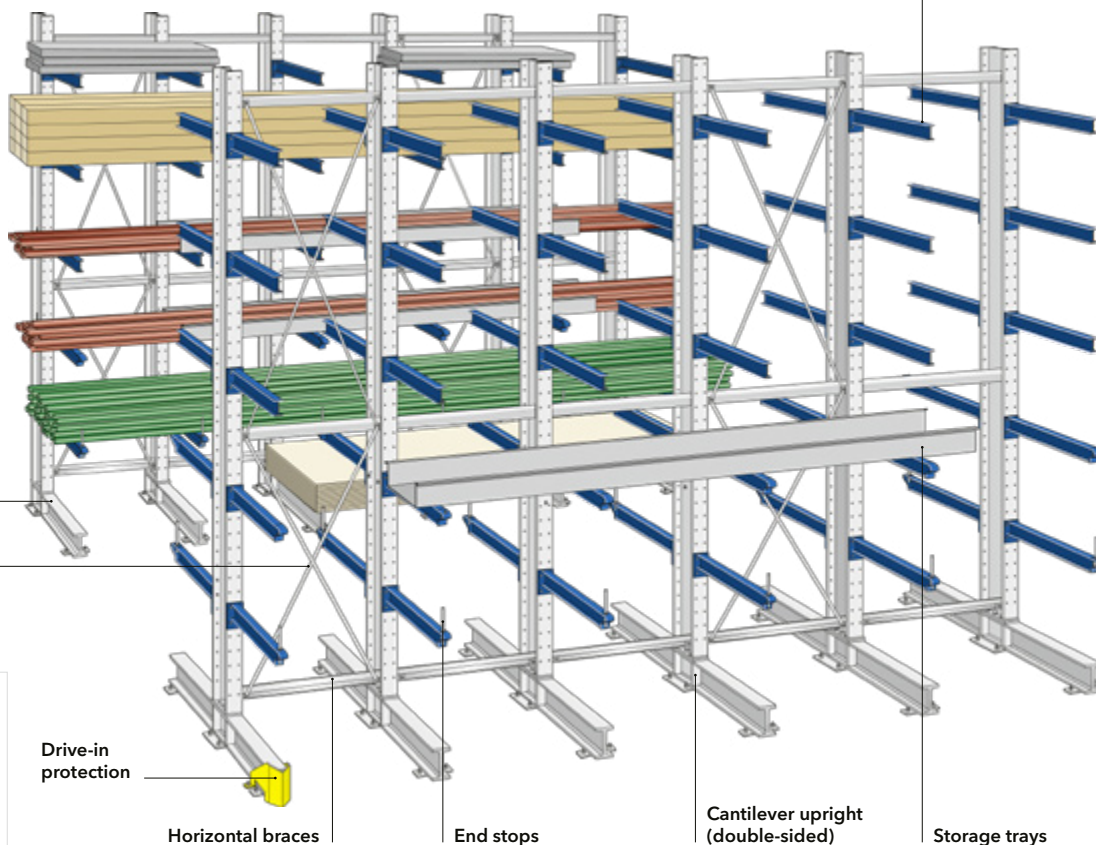


- **Load capacity**
Up to 14,000 kg per upright side with even height distribution
- **System hole pattern**
spaced 100 x 100 mm
- **Upright design with bolted support and base profiles**
Can also be retrofitted by replacing the base profile – between single and double-sided designs
- **Bolted system**
Support profiles are bolted together with horizontal braces to form rack rows and reinforced with cross braces in every fourth rack bay
- **Storage**
of heavy, bulky materials and goods
- **Universally usable**
Manual or automatic operation, stationary or mobile installation possible
- **Simple design**
with just a few components
- **Single or double-sided racks**
- **Bolted cantilever arms**
- **Robust design**

KRS System Design



Cantilever arms



Cantilever upright (single-sided)

Cross braces

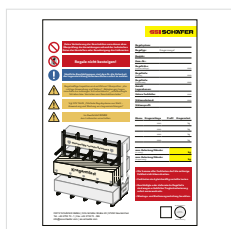
Drive-in protection

Horizontal braces

End stops

Cantilever upright (double-sided)

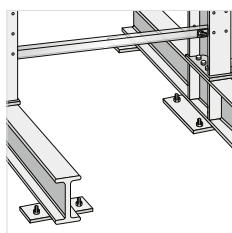
Storage trays



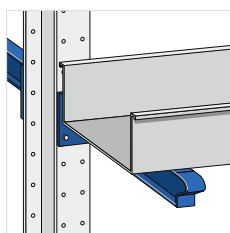
Payload sign



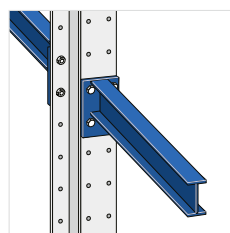
Drive-in protection



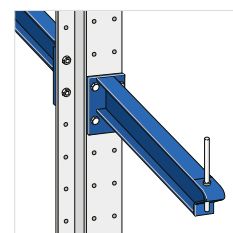
Horizontal brace



Storage tray



Bolted cantilever arm



Cantilever arm with end stop

- Shelving Systems
- Wide Span Racks
- Pallet Racks
- Cantilever Racks**
- On-Line Shelving/ Live Storage Racks
- System Platforms
- Dynamic Storage
- Automated Logistics Solutions
- Logistics Systems
- Customer Service & Support
- Software

On-Line Shelving/Live Storage Racks

The aim in all areas of industry is to cut costs by optimizing work processes. SSI SCHAEFER offers a wide range of optimized systems for the staging of small items in assembly areas and on the assembly line.

These systems work according to the First In, First Out principle (FIFO) and can be equipped with shelves or roller tracks to ensure smooth-running assembly processes.

With a diverse range of flow systems, SSI SCHAEFER offers the optimum flow storage concept for every load carrier. SSI SCHAEFER systems and solutions cover applications ranging from light loads to moderate and heavy loads.

With a wide range of plastic and steel bins available from SSI SCHAEFER, you are guaranteed to find the ideal space-saving storage solution for your materials.



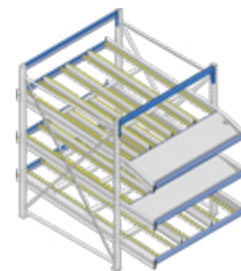
Contents



■ R 3000 on-line shelving with shelves Page **E2**



■ R 7000 on-line shelving with shelves Page **E6**



■ KDR live storage racks Page **E12**



Information on **inspection requirements**
for rack installations

Chapter J, page J6



R 3000 On-Line Shelving with Shelves

On-line shelving provides a reliable means of storage for any type of box and a wide range of dimensions, making it a universal solution.

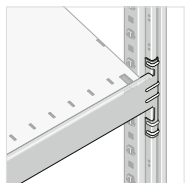
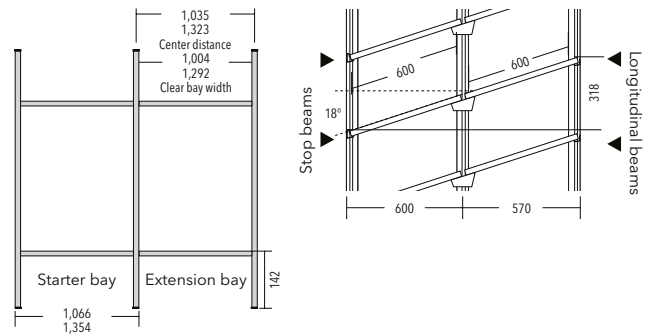
The R 3000 on-line shelving system from SSI SCHAEFER is distinguished by its high load capacity of 1.5 metric tons per bay, the flexibility of combining starter and extension bays to create rack lines, and its cost-effective design with all galvanized components.

Push-fit wire bracket box guides can be inserted in a 41 mm grid for additional partitioning.

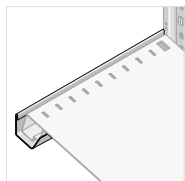
Pre-assembled rack frames and system components ensure quick and easy assembly, as they can be joined together without screws.

On the inclined levels, a stop beam or a stop rail stops the vessels safely and reliably. The side guides on the ends of the racks prevent goods from falling out between the uprights.

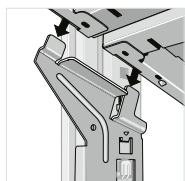
- **Push-fit design for rapid installation**
- **Pre-assembled rack frame**
consisting of uprights, compartment stays and base plates
- **Frame profile**
with lug grid with 53 mm steps
- **Height adjustable**
Shelves can be freely adjusted in 53 mm steps
- **High load capacity**
Up to 1,500 kg per bay
- **Floor mounting not required**
provided that the height/depth ratio does not exceed 4:1
- **Inclined compartment levels**
ensure gravity-induced box supply and provide a clear view while improving handling on the unloading side
- **System components made of galvanized sheet steel**
- **Suitable for use in ESD areas**
to protect high-value electronic components
- **Bay width/system dimensions and installation situation**



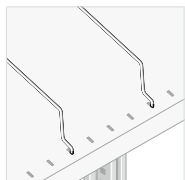
Stop beam, front



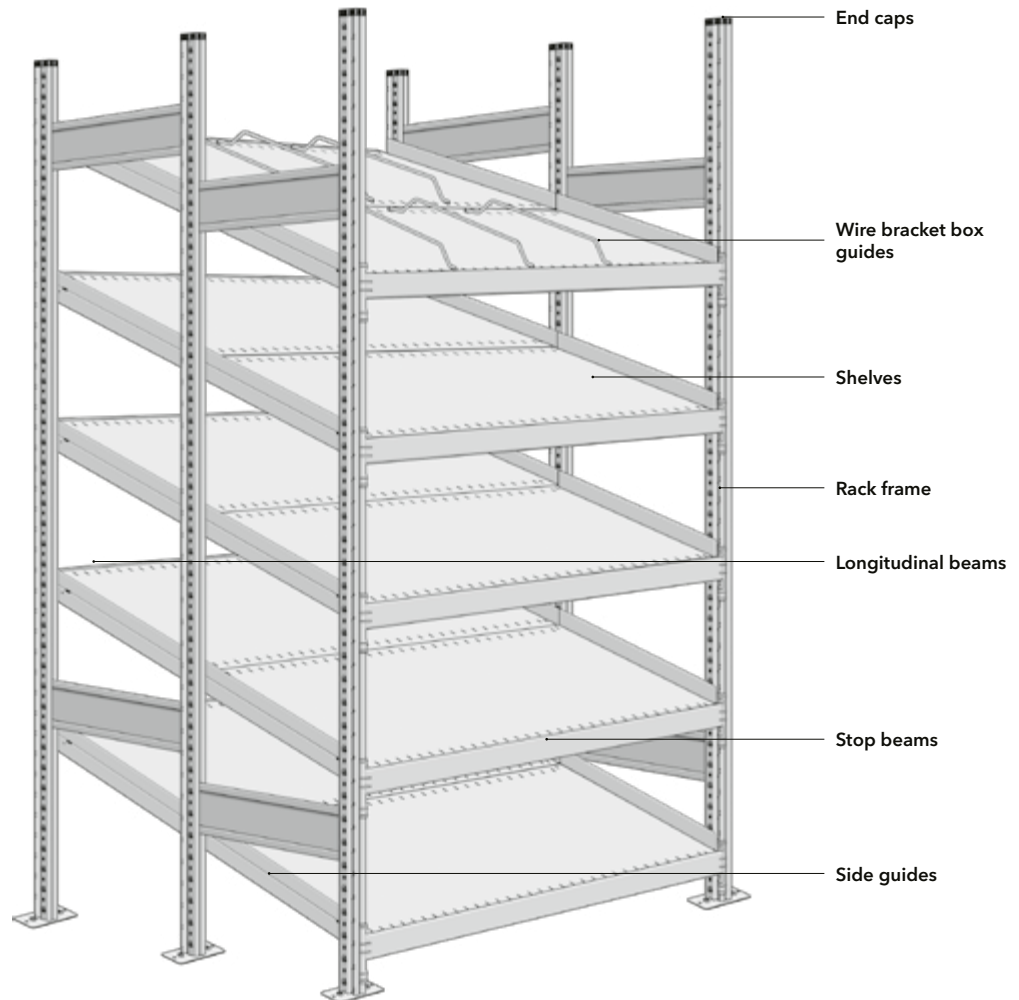
Longitudinal beam, rear



Intermediate shelf bracket



Wire bracket box guide



MBR 3000 Single Racks with Inclined Compartment Levels



Boxes not included



Boxes not included

Complete MBR 3000 racks with 3 inclined compartment levels (starter bays) - rack height 1,536 mm

2 pre-assembled frames, 3 shelves, 3 longitudinal and 3 stop beams, 6 side guides, 4 end caps, rack nameplate.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-341015-GF-S-3	400	1,004	100	1042942
MBR-341315-GF-S-3		1,292	150	1042943
MBR-351015-GF-S-3	500	1,004	100	1042944
MBR-351315-GF-S-3		1,292	150	1042945
MBR-361015-GF-S-3	600	1,004	100	1042946
MBR-361315-GF-S-3		1,292	150	1042947
MBR-381015-GF-S-3	800	1,004	200	1042948
MBR-381315-GF-S-3		1,292	250	1042949

Extension bays

1 pre-assembled frame, 3 shelves, 3 longitudinal and 3 stop beams, 2 end caps.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-341015-AF-S-3	400	1,004	100	1042950
MBR-341315-AF-S-3		1,292	150	1042951
MBR-351015-AF-S-3	500	1,004	100	1042952
MBR-351315-AF-S-3		1,292	150	1042953
MBR-361015-AF-S-3	600	1,004	100	1042954
MBR-361315-AF-S-3		1,292	150	1042955
MBR-381015-AF-S-3	800	1,004	200	1042956
MBR-381315-AF-S-3		1,292	250	1042957

Additional compartment levels

1 shelf, 1 longitudinal and 1 stop beam.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-341004-ZF-SE	400	1,004	100	1042975
MBR-341292-ZF-SE		1,292	150	1042976
MBR-351004-ZF-SE	500	1,004	100	1042977
MBR-351292-ZF-SE		1,292	150	1042978
MBR-361004-ZF-SE	600	1,004	100	1042979
MBR-361292-ZF-SE		1,292	150	1042980
MBR-381004-ZF-SE	800	1,004	200	1042981
MBR-381292-ZF-SE		1,292	250	1042982

Complete MBR 3000 racks with 5 inclined compartment levels (starter bays) - rack height 2,278 mm

2 pre-assembled frames, 5 shelves, 5 longitudinal and 5 stop beams, 10 side guides, 4 end caps, rack nameplate.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-341022-GF-S-5	400	1,004	100	1042958
MBR-341322-GF-S-5		1,292	150	1042959
MBR-351022-GF-S-5	500	1,004	100	1042960
MBR-351322-GF-S-5		1,292	150	1042961
MBR-361022-GF-S-5	600	1,004	100	1042962
MBR-361322-GF-S-5		1,292	150	1042963
MBR-381022-GF-S-5	800	1,004	200	1042965
MBR-381322-GF-S-5		1,292	250	1042966

Extension bays

1 pre-assembled frame, 5 shelves, 5 longitudinal and 5 stop beams, 2 end caps.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-341022-AF-S-5	400	1,004	100	1042967
MBR-341322-AF-S-5		1,292	150	1042968
MBR-351022-AF-S-5	500	1,004	100	1042969
MBR-351322-AF-S-5		1,292	150	1042970
MBR-361022-AF-S-5	600	1,004	100	1042971
MBR-361322-AF-S-5		1,292	150	1042972
MBR-381022-AF-S-5	800	1,004	200	1042973
MBR-381322-AF-S-5		1,292	250	1042974

Additional compartment levels

1 shelf, 1 longitudinal and 1 stop beam.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-341004-ZF-SE	400	1,004	100	1042975
MBR-341292-ZF-SE		1,292	150	1042976
MBR-351004-ZF-SE	500	1,004	100	1042977
MBR-351292-ZF-SE		1,292	150	1042978
MBR-361004-ZF-SE	600	1,004	100	1042979
MBR-361292-ZF-SE		1,292	150	1042980
MBR-381004-ZF-SE	800	1,004	200	1042981
MBR-381292-ZF-SE		1,292	250	1042982

MBR 3000 Double Racks with Inclined Compartment Levels



Complete MBR 3000 racks with 3 inclined compartment levels (starter bays) - rack height 1,536 mm

2 pre-assembled frames, 6 shelves, 3 longitudinal and 3 stop beams, 6 intermediate shelf brackets, 12 side guides, 6 end caps, rack nameplate.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-351015-GF-DS-3	1,000	1,004	100	1055414
MBR-351315-GF-DS-3		1,292	150	1054781
MBR-361015-GF-DS-3	1,200	1,004	100	2002114
MBR-361315-GF-DS-3		1,292	150	1055044

Complete MBR 3000 racks with 5 inclined compartment levels (starter bays) - rack height 2,278 mm

2 pre-assembled frames, 10 shelves, 5 longitudinal and 5 stop beams, 10 intermediate shelf brackets, 20 side guides, 6 end caps, rack nameplate.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-351022-GF-DS-5	1,000	1,004	100	1055415
MBR-351322-GF-DS-5		1,292	150	1055043
MBR-361022-GF-DS-5	1,200	1,004	100	1055045
MBR-361322-GF-DS-5		1,292	150	1054327

Extension bays

1 pre-assembled frame, 6 shelves, 3 longitudinal and 3 stop beams, 6 intermediate shelf brackets, 2 end caps.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-351015-AF-DS-3	1,000	1,004	100	2002097
MBR-351315-AF-DS-3		1,292	150	1065149
MBR-361015-AF-DS-3	1,200	1,004	100	1042984
MBR-361315-AF-DS-3		1,292	150	1054855

Extension bays

1 pre-assembled frame, 10 shelves, 5 longitudinal and 5 stop beams, 10 intermediate shelf brackets, 2 end caps.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-351022-AF-DS-5	1,000	1,004	100	1055495
MBR-351322-AF-DS-5		1,292	150	1055416
MBR-361022-AF-DS-5	1,200	1,004	100	1055046
MBR-361322-AF-DS-5		1,292	150	1055047

Additional compartment levels

2 shelves, 1 longitudinal and 1 stop beam, 2 intermediate shelf brackets.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-351004-ZF-SD	1,000	1,004	100	1042988
MBR-351292-ZF-SD		1,292	150	1042989
MBR-361004-ZF-SD	1,200	1,004	100	1042990
MBR-361292-ZF-SD		1,292	150	1042991

Additional compartment levels

2 shelves, 1 longitudinal and 1 stop beam, 2 intermediate shelf brackets.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-351004-ZF-SD	1,000	1,004	100	1042988
MBR-351292-ZF-SD		1,292	150	1042989
MBR-361004-ZF-SD	1,200	1,004	100	1042990
MBR-361292-ZF-SD		1,292	150	1042991

Individual Components



Further information on R 3000 on-line shelving on request

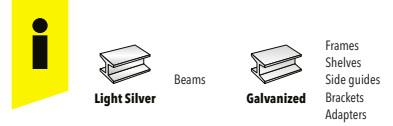
Individual components and accessories for "MBR" model on-line shelving

Item	Usable depth (mm)	Height/length (mm)	Load (max. kg/bay)	Order no.
Rack starter frame				
RR34315-V-M	400	1,536	1,500	1057351
RR35315-V-M	500	1,536	1,500	1056564
RR36315-V-M	600	1,536	1,500	1057352
RR38315-V-M	800	1,536	1,500	1057353
Rack extension frame - double row				
RRA35315-V-M-Z	470	1,536	1,500*	1057726
RRA36315-V-M-Z	570	1,536	1,500*	1057727
Rack starter frame				
RR34322-V-M	400	2,278	1,500	1057407
RR35322-V-M	500	2,278	1,500	1057409
RR36322-V-M	600	2,278	1,500	1057410
RR38322-V-M	800	2,278	2,500	1057411
Rack extension frame - double row				
RRA35322-V-M-Z	470	2,278	1,500*	1057729
RRA36322-V-M-Z	570	2,278	1,500*	1057730
Shelves				
ZB 341010 V	400	40/ 994	100	1056019
ZB 351010 V	500	40/ 994	100	1056020
ZB 361010 V	600	40/ 994	100	1057123
ZB 381020 V	800	40/ 994	200	1056021
ZB 341315 V	400	40/1,282	150	1056998
ZB 351315 V	500	40/1,282	150	1056022
ZB 361315 V	600	40/1,282	150	1056999
ZB 381325 V	800	40/1,282	250	1057155
Accessories				
ZBK 3000 R	Intermediate shelf bracket, right			1042928
ZBK 3000 L	Intermediate shelf bracket, left			1042929
AK 3000	End cap			1041887
UP3001-V	Shim plate, thickness 1 mm			1057106

* The load values specified apply for each double-row rack bay = rack starter and extension frame

Item	Usable depth (mm)	Height/length (mm)	Load (max. kg/bay)	Order no.
Longitudinal beams				
LTR 31004	-	1,004	250	1042701
LTR 31292	-	1,292	250	1042664
Stop beams				
ATR 31004	-	1,004	250	1042663
ATR 31292	-	1,292	250	1042700
Stop rails				
ASL 3100	-	994	-	1042934
ASL 3130	-	1,282	-	1042935
Side guides				
SF 3404 V	400	40	-	1042936
SF 3504 V	500	40	-	1042937
SF 3604 V	600	40	-	1042938
SF 3804 V	800	40	-	1042939
Wire bracket box guides				
DFZB 3403 V	400	30	-	1042931
DFZB 3503 V	500	30	-	1042932
DFZB 3603 V	600	30	-	1042933
DFZB 3803 V	800	30	-	1055547
Accessories				
HUS3-H6x60	Floor mounting - screw anchor			1036114
SRTS	Payload sign**			1042070

** Required in accordance with DGUV Information 208-061



R 7000 On-Line Shelving with Shelves

On-line shelving provides a reliable means of storage for any type of box and a wide range of dimensions, making it a universal solution.

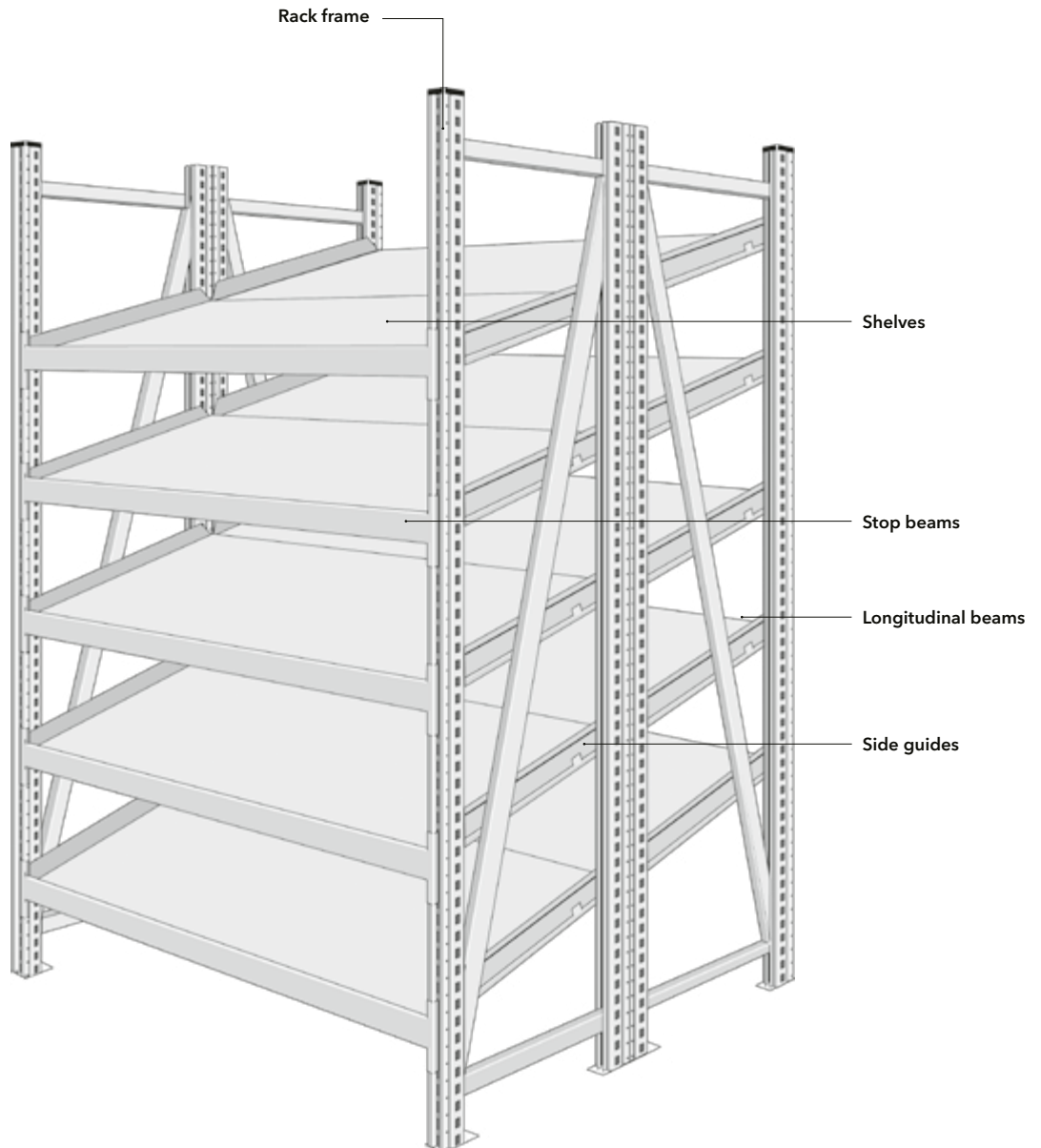
The high load capacity of max. 2.5 metric tons per bay, the flexibility of combining starter and extension bays to create rack lines, the variability of shelving depths with single and double-rack options and the cost-effective design make these racks from SSI SCHAEFER a popular solution.

Freestanding dividers can be inserted in a 41 mm grid for additional partitioning.

Pre-assembled rack frames and system components ensure quick and easy assembly, as they can be joined together without screws.

On inclined levels, a stop beam stops the vessels safely and reliably. The side guides prevent goods from falling out between the uprights.

- **Quick, easy installation**
- **Stable and sturdy**
- **Slotted and pre-assembled rack frame**
- **Rack lines of any desired length**
- **Starter and extension bay designs**
- **High load capacity**
Up to 2,500 kg per bay
- **Inclined shelves**
Gravity-induced sliding to the unloading side with improved handling
- **Can be combined with each other**
for optimal adjustment to work processes
- **Height adjustable**
Shelves can be freely adjusted in 53 mm steps
- **Shelf height 30 mm**
- **Single part staging**
directly at the assembly workstation
- **Suitable for traveling units**
- **First In, First Out principle (FIFO)**
- **Reduces costs**



"G" Model Single Racks



Example with 5 levels
Boxes not included

Complete "G" model racks with 3 flat shelves (starter bays) 1,534 mm high

2 pre-assembled frames, 6 longitudinal beams, 3 shelves, 6 side guides,
1 rack nameplate.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-740995-GF-G-3	400	994	100	1052432
MBR-741283-GF-G-3		1,282	150	1052436
MBR-750995-GF-G-3	500	994	100	1052433
MBR-751283-GF-G-3		1,282	150	1052437
MBR-760995-GF-G-3	600	994	100	1052434
MBR-761283-GF-G-3		1,282	150	1052438
MBR-780995-GF-G-3	800	994	200	1052435
MBR-781283-GF-G-3		1,282	250	1052439

Extension bays

1 pre-assembled frame, 6 longitudinal beams, 3 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-740995-AF-G-3	400	994	100	1052496
MBR-741283-AF-G-3		1,282	150	1052499
MBR-750995-AF-G-3	500	994	100	2002103
MBR-751283-AF-G-3		1,282	150	2002104
MBR-760995-AF-G-3	600	994	100	1052497
MBR-761283-AF-G-3		1,282	150	1052500
MBR-780995-AF-G-3	800	994	200	1052498
MBR-781283-AF-G-3		1,282	250	1052501

Additional compartment levels

2 longitudinal beams, 1 shelf.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-740995-ZF-G	400	994	100	1052525
MBR-741283-ZF-G		1,282	150	1052529
MBR-750995-ZF-G	500	994	100	1052526
MBR-751283-ZF-G		1,282	150	1052530
MBR-760995-ZF-G	600	994	100	1052527
MBR-761283-ZF-G		1,282	150	1052531
MBR-780995-ZF-G	800	994	200	1052528
MBR-781283-ZF-G		1,282	250	1052532

Complete "G" model racks with 5 flat shelves (starter bays) 2,170 mm high

2 pre-assembled frames, 10 longitudinal beams, 5 shelves, 10 side guides,
1 rack nameplate.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-740995-GF-G-5	400	994	100	1052440
MBR-741283-GF-G-5		1,282	150	1052444
MBR-750995-GF-G-5	500	994	100	1052441
MBR-751283-GF-G-5		1,282	150	1052445
MBR-760995-GF-G-5	600	994	100	1052442
MBR-761283-GF-G-5		1,282	150	1052446
MBR-780995-GF-G-5	800	994	200	1052443
MBR-781283-GF-G-5		1,282	250	1052447

Extension bays

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

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-740995-AF-G-5	400	994	100	1052502
MBR-741283-AF-G-5		1,282	150	1052506
MBR-750995-AF-G-5	500	994	100	1052503
MBR-751283-AF-G-5		1,282	150	2002105
MBR-760995-AF-G-5	600	994	100	1052504
MBR-761283-AF-G-5		1,282	150	1052507
MBR-780995-AF-G-5	800	994	200	1052505
MBR-781283-AF-G-5		1,282	250	1052508

Additional compartment levels

2 longitudinal beams, 1 shelf.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-740995-ZF-G	400	994	100	1052525
MBR-741283-ZF-G		1,282	150	1052529
MBR-750995-ZF-G	500	994	100	1052526
MBR-751283-ZF-G		1,282	150	1052530
MBR-760995-ZF-G	600	994	100	1052527
MBR-761283-ZF-G		1,282	150	1052531
MBR-780995-ZF-G	800	994	200	1052528
MBR-781283-ZF-G		1,282	250	1052532

"S" Model Single Racks



Example with 5 levels
Boxes not included

Complete "S" model racks with 3 inclined shelves (starter bays) 1,534 mm high

2 pre-assembled frames, 3 longitudinal and 3 stop beams, 3 shelves, 6 side guides, 1 rack nameplate.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-740995-GF-S-3	400	994	100	1052448
MBR-741283-GF-S-3		1,282	150	1052452
MBR-750995-GF-S-3	500	994	100	1052449
MBR-751283-GF-S-3		1,282	150	1052453
MBR-760995-GF-S-3	600	994	100	1052450
MBR-761283-GF-S-3		1,282	150	1052454
MBR-780995-GF-S-3	800	994	200	1052451
MBR-781283-GF-S-3		1,282	250	1052455

Complete "S" model racks with 5 inclined shelves (starter bays) 2,170 mm high

2 pre-assembled frames, 5 longitudinal and 5 stop beams, 5 shelves, 10 side guides, 1 rack nameplate.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-740995-GF-S-5	400	994	100	1052456
MBR-741283-GF-S-5		1,282	150	1052492
MBR-750995-GF-S-5	500	994	100	1052457
MBR-751283-GF-S-5		1,282	150	1052493
MBR-760995-GF-S-5	600	994	100	1052490
MBR-761283-GF-S-5		1,282	150	1052494
MBR-780995-GF-S-5	800	994	200	1052491
MBR-781283-GF-S-5		1,282	250	1052495

Extension bays

1 pre-assembled frame, 3 longitudinal and 3 stop beams, 3 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-740995-AF-S-3	400	994	100	2002106
MBR-741283-AF-S-3		1,282	150	2002110
MBR-750995-AF-S-3	500	994	100	2002107
MBR-751283-AF-S-3		1,282	150	2002111
MBR-760995-AF-S-3	600	994	100	2002108
MBR-761283-AF-S-3		1,282	150	1052509
MBR-780995-AF-S-3	800	994	200	2002109
MBR-781283-AF-S-3		1,282	250	1052510

Extension bays

1 pre-assembled frame, 5 longitudinal and 5 stop beams, 5 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-740995-AF-S-5	400	994	100	1052511
MBR-741283-AF-S-5		1,282	150	1052515
MBR-750995-AF-S-5	500	994	100	1052512
MBR-751283-AF-S-5		1,282	150	1052516
MBR-760995-AF-S-5	600	994	100	1052513
MBR-761283-AF-S-5		1,282	150	1052517
MBR-780995-AF-S-5	800	994	200	1052514
MBR-781283-AF-S-5		1,282	250	1052518

Additional compartment levels

1 longitudinal and 1 stop beam, 1 shelf.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-740995-ZF-S	400	994	100	1052533
MBR-741283-ZF-S		1,282	150	1052537
MBR-750995-ZF-S	500	994	100	1052534
MBR-751283-ZF-S		1,282	150	1052538
MBR-760995-ZF-S	600	994	100	1052535
MBR-761283-ZF-S		1,282	150	1052539
MBR-780995-ZF-S	800	994	200	1052536
MBR-781283-ZF-S		1,282	250	1052540

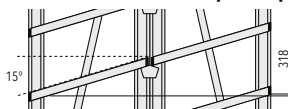
Additional compartment levels

1 longitudinal and 1 stop beam, 1 shelf.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-740995-ZF-S	400	994	100	1052533
MBR-741283-ZF-S		1,282	150	1052537
MBR-750995-ZF-S	500	994	100	1052534
MBR-751283-ZF-S		1,282	150	1052538
MBR-760995-ZF-S	600	994	100	1052535
MBR-761283-ZF-S		1,282	150	1052539
MBR-780995-ZF-S	800	994	200	1052536
MBR-781283-ZF-S		1,282	250	1052540



- **High load capacity**
Up to 2,500 kg per bay
- **Height adjustable**
Shelves can be freely adjusted in 53 mm steps
- **Single part staging**
directly at the assembly workstation
- **First In, First Out principle**



Maximum incline of the shelves in "DS" on-line shelving

"DS" Model Double Racks



Example with 5 levels
Boxes not included

Complete "DS" model racks with 3 inclined shelves (starter bays) 1,534 mm high

4 pre-assembled frames, 3 longitudinal and 3 stop beams, 6 shelf brackets, 6 bracket adapters, 6 shelves, 12 side guides, 1 rack nameplate.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-750995-GF-DS-3	1,000	994	100	1053908
MBR-751283-GF-DS-3		1,282	150	1054387
MBR-760995-GF-DS-3	1,200	994	100	1054430
MBR-761283-GF-DS-3		1,282	150	1042198

Complete "DS" model racks with 5 inclined shelves (starter bays) 2,170 mm high

4 pre-assembled frames, 5 longitudinal and 5 stop beams, 10 shelf brackets, 10 bracket adapters, 10 shelves, 20 side guides, 1 rack nameplate.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-750995-GF-DS-5	1,000	994	100	1055523
MBR-751283-GF-DS-5		1,282	150	1054431
MBR-760995-GF-DS-5	1,200	994	100	1053909
MBR-761283-GF-DS-5		1,282	150	1054388

Extension bays

2 pre-assembled frames, 3 longitudinal and 3 stop beams, 6 shelf brackets, 6 bracket adapters, 6 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-750995-AF-DS-3	1,000	994	100	2002112
MBR-751283-AF-DS-3		1,282	150	2002113
MBR-760995-AF-DS-3	1,200	994	100	1052519
MBR-761283-AF-DS-3		1,282	150	1052520

Extension bays

2 pre-assembled frames, 5 longitudinal and 5 stop beams, 10 shelf brackets, 10 bracket adapters, 10 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-750995-AF-DS-5	1,000	994	100	1052521
MBR-751283-AF-DS-5		1,282	150	1052523
MBR-760995-AF-DS-5	1,200	994	100	1052522
MBR-761283-AF-DS-5		1,282	150	1052524

Additional compartment levels

1 longitudinal and 1 stop beam, 2 shelf brackets, 2 bracket adapters, 2 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-750995-ZF-DS	1,000	994	100	1052541
MBR-751283-ZF-DS		1,282	150	1052543
MBR-760995-ZF-DS	1,200	994	100	1052542
MBR-761283-ZF-DS		1,282	150	1052544

Additional compartment levels

1 longitudinal and 1 stop beam, 2 shelf brackets, 2 bracket adapters, 2 shelves.

Item	Usable depth (mm)	Clear bay width (mm)	Max. load per shelf (kg)	Order no.
MBR-750995-ZF-DS	1,000	994	100	1052541
MBR-751283-ZF-DS		1,282	150	1052543
MBR-760995-ZF-DS	1,200	994	100	1052542
MBR-761283-ZF-DS		1,282	150	1052544

Notice: For technical reasons, the front and rear levels of double-row designs may have slightly different angles.

Shelving Systems

Wide Span Racks

Pallet Racks

Cantilever Racks

On-Line Shelving/
Live Storage Racks

System Platforms

Dynamic Storage

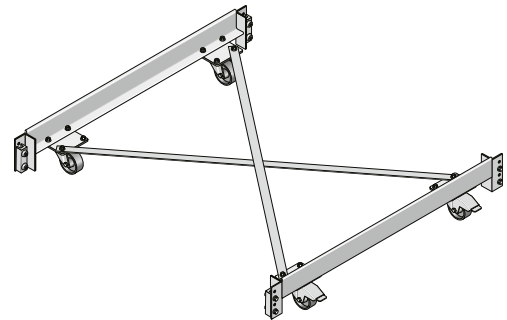
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Individual Components



Individual components for "G, S, DS" model on-line shelving

Item	Usable depth (mm)	Height/length (mm)	Load (Max. kg)	Order no.
Rack frame				
RRL 7401 V	400	1,534	2,500	1042073
RRL 7501 V	500	1,534	2,500	1042075
RRL 7601 V	600	1,534	2,500	1042077
RRL 7801 V	800	1,534	2,500	1042079
RRL 7402 V	400	2,170	2,500	1042092
RRL 7502 V	500	2,170	2,500	1042386
RRL 7602 V	600	2,170	2,500	1042072
RRL 7802 V	800	2,170	2,500	1042061
Longitudinal beams				
LTR 7099	400-800	994	250	1042081
LTR 7128	400-800	1,282	250	1042082
Stop beams				
ATR 74099	400	994	250	1042095
ATR 7099	500-800	994	250	1042076
ATR 74128	400	1,282	250	1042096
ATR 7128	500-800	1,282	250	1042078
Shelves				
ZB 4413 V	400	30/ 994	100	1041996
ZB 4513 V	500	30/ 994	100	1041997
ZB 4613 V	600	30/ 994	100	1041998
ZB 4823 V	800	30/ 994	200	1057398
ZB 9415 V	400	30/1,282	150	1057620
ZB 9515 V	500	30/1,282	150	1056251
ZB 9615 V	600	30/1,282	150	1041999
ZB 9825 V	800	30/1,282	250	1056252
Side guides				
SF 3404	400	40	-	1042936
SF 3504	500	40	-	1042937
SF 3604	600	40	-	1042938
SF 3804	800	40	-	1042939
Accessories				
ZBK 7000	Shelf bracket for DS model			1042084
KA 7000	Bracket adapter for DS model			1042085
ZBT 7000	Shelf supports* (4 pieces per shelf)			1042064
AK 7000	Cover caps for rack frame			1041988
SRTS	Payload sign**			1042070

* Can only be used for flat levels in combination with at least three reinforcing beam levels

** Required in accordance with DGUV Information 108-007

Traveling units for R 7000 sliding rail and on-line shelving

Sheet steel, painted Light Silver. For easily changing the location of starter bays. Consists of 2 beams, 1 cross brace and 4 swivel castors, 2 with lock. Load capacity per traveling unit 500 kg.

Item	Bay width (mm)	Frame depth (mm)	Order no.
TFW 70610	994	600	1004476
TFW 70810		800	1004477
TFW 71010		1,000	1004478
TFW 71210		1,200	1064623
TFW 70613	1,282	600	1004479
TFW 70813		800	1004480
TFW 71013		1,000	1004481
TFW 71213		1,200	1004482

Traveling units for shelving systems

For easily changing the location of starter racks when unloaded.

Consists of 4 swivel castors, 2 with lock. Bolted assembly with adapter plate directly underneath the rack supports. 1 beam and 4 frame connectors are supplied for the required reinforcement. 2 plastic sliding brackets are also included in the scope of delivery.



Safety instructions:

Shelving units must only be moved when unloaded.

Item	Bay length (mm)	Height (mm)	Load max. (kg)	Order no.
FW 70995	994	155	500	1042588
FW 71283	1,282	155	500	1042589



Shelving Systems

Wide Span Racks

Pallet Racks

Cantilever Racks

**On-Line Shelving/
Live Storage Racks**

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KDR - the Live Storage Rack System Full of Possibilities



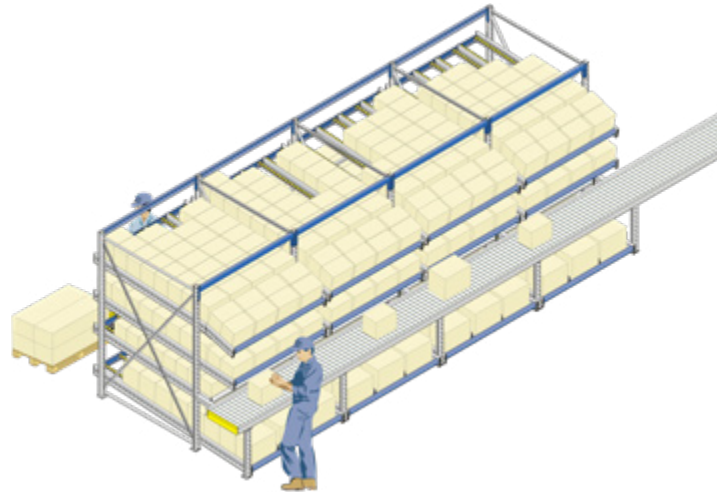
Stable, sturdy frames connected to reinforcing beams create a "rack scaffold" for complete flow bed frame units. The height and angle of the flow bed frames can be quickly adjusted without screws using adjusting hooks in grid size 6.25 mm (post type P63/P65) or 12.5 mm (post type P73/P93), with horizontal adjustments also possible in 25 mm steps.

The stepped design of the flow bed frames with outfeed panels or a tilted configuration can accommodate all ergonomic requirements.

Transverse transport belts can be connected cost-effectively using supports attached to the uprights.

Robust roller tracks in various designs ensure the smooth movement of vessels from the loading to the

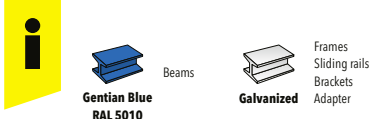
unloading side. Different dividing rail systems can be used to configure guides (channels) tailored specifically to the bins in use.



Live storage racks and KDR adapter solution for pallet racks

on request



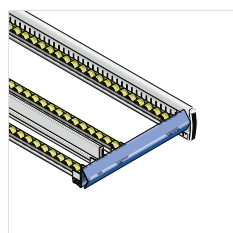
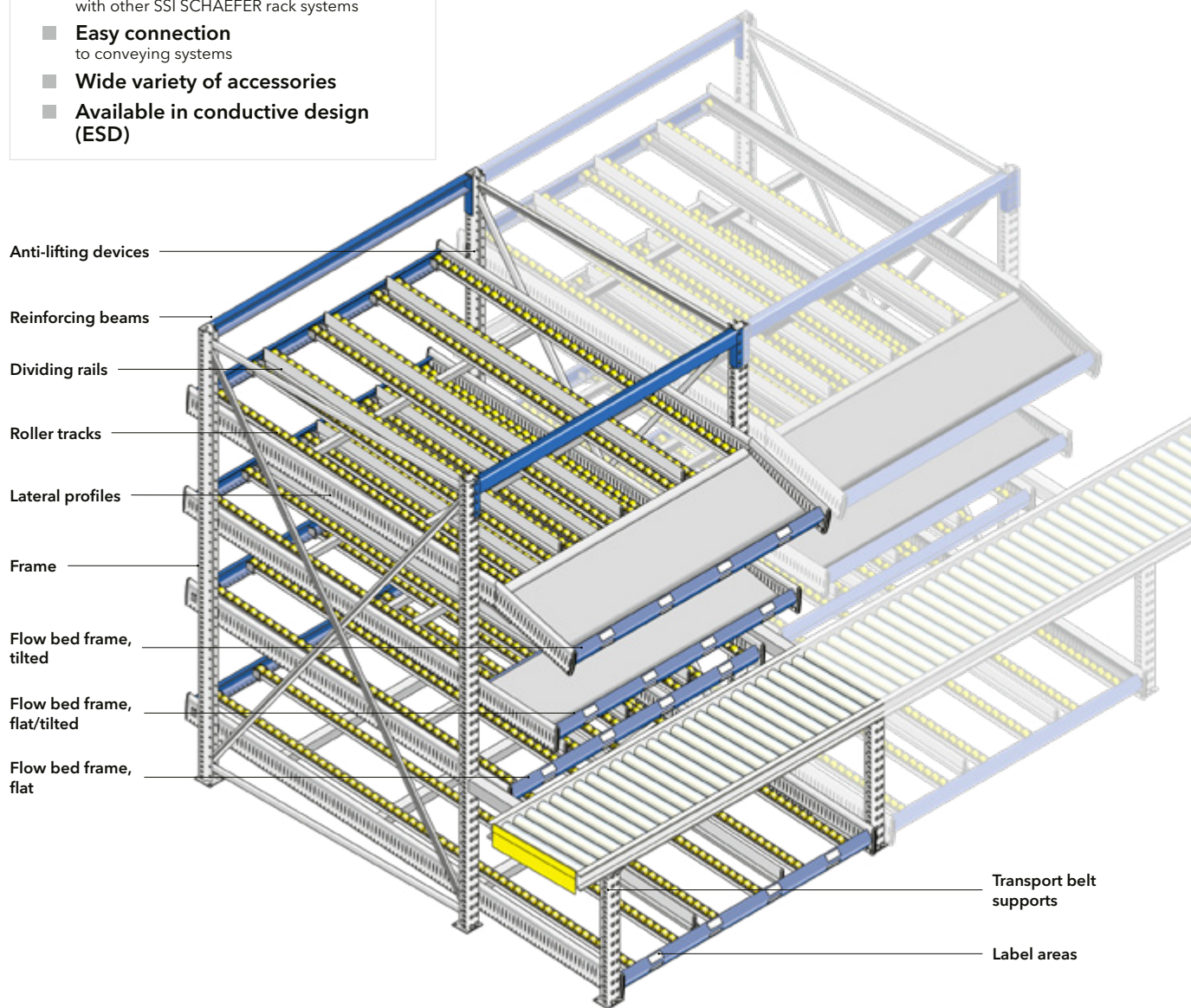


KDR System Design - Stationary

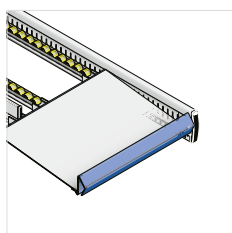
- **High load capacity**
and high rigidity thanks to robust supports, 60, 75 and 90 mm thick
- **System hole pattern**
in the support profiles spaced 50 x 50 mm
- **Optimum height and gradient adjustment**
of the flow bed frame to the storage goods thanks to the small hole grid, e.g., 6.25 mm
- **Push-fit anti-lifting device**
- **Flexible, modular push-fit system**
thanks to adjustable rollers and dividing rails for configuring channels in a grid of 5 mm per roller
- **Roller tracks ensure smooth conveying**
optionally with a load capacity of 5 kg and 12 kg
- **Can be combined**
with other SSI SCHAEFER rack systems
- **Easy connection**
to conveying systems
- **Wide variety of accessories**
- **Available in conductive design (ESD)**

Starter and extension bay design

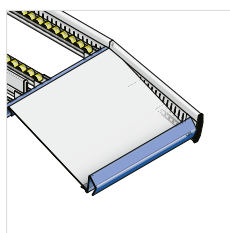
The stationary design is available in the starter and extension bay design. Anchoring the uprights to the floor prevents the bays from slipping and provides additional stability.



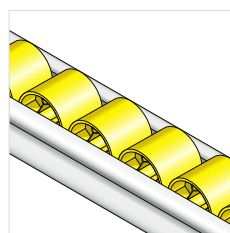
Flow bed frame, flat



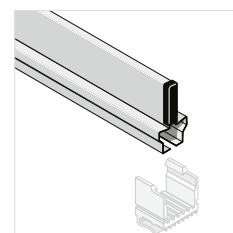
Flow bed frame, flat/tilted



Flow bed frame, tilted



Roller track



Dividing rail

- Shelving Systems
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System Platforms: Multi-Tier Systems for Every Application

SSI SCHAEFER's platform systems are the ideal solution for any warehouse or production facility. We offer system platforms as self-supporting structures or platform-supporting rack systems to suit your requirements.

The possibilities when it comes to designing our platform systems are virtually limitless. Our shelving, flow rack and pallet rack systems complement our platform systems perfectly, enabling the seamless integration of work and storage.

SSI SCHAEFER supplies complete, sophisticated platform systems from its comprehensive range of services from a single source - so you can make the most efficient use of your space.





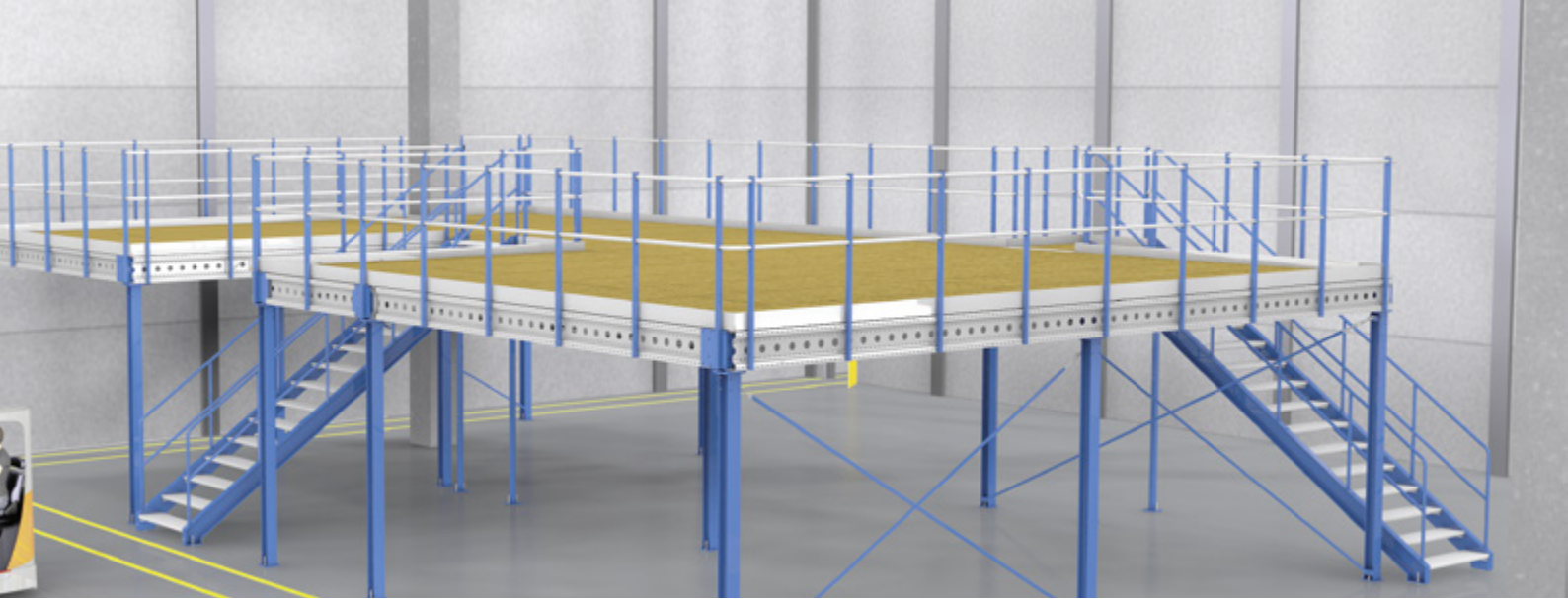
Contents

- System platforms Page **F2**
- Module types Page **F4**
- System components Page **F6**

i Information on **inspection requirements** for rack installations
Chapter J, page J6

All load values specified apply for evenly distributed loads.

Modular System Platforms – Versatile Standard Platforms for Maximum Performance



Modular system platforms from SSI SCHAEFER maximize your storage capacity. Benefit from an additional level of storage without using any additional floor space.

Modular system platforms from SSI SCHAEFER offer an easy way to expand your storage space. Make optimal use of the space in your warehouse by adding an additional level. With a wide range of elements and module types available, the design possibilities are endless.

The variety of modular system platforms available in the standard range can accommodate virtually any dimension and load requirements. With any conceivable layout possible, they can be tailored perfectly to your specific circumstances.

Optimum Safety and Fast Installation

Safety is always a sign of quality. Thanks to their high-quality materials, our MSB 600 modular system platforms offer guaranteed load capacities of 350 kg/m² to a maximum of 1,000 kg/m². The structural design of our system platforms offers both maximum stability and maximum safety for your warehouse. Expand your existing storage space with SSI SCHAEFER modular system platforms.

The modular system platforms from SSI SCHAEFER are quick and easy to install thanks to the optimized screw connections. The extensive range of system components allow optimal use of the space, whatever the construction situation.

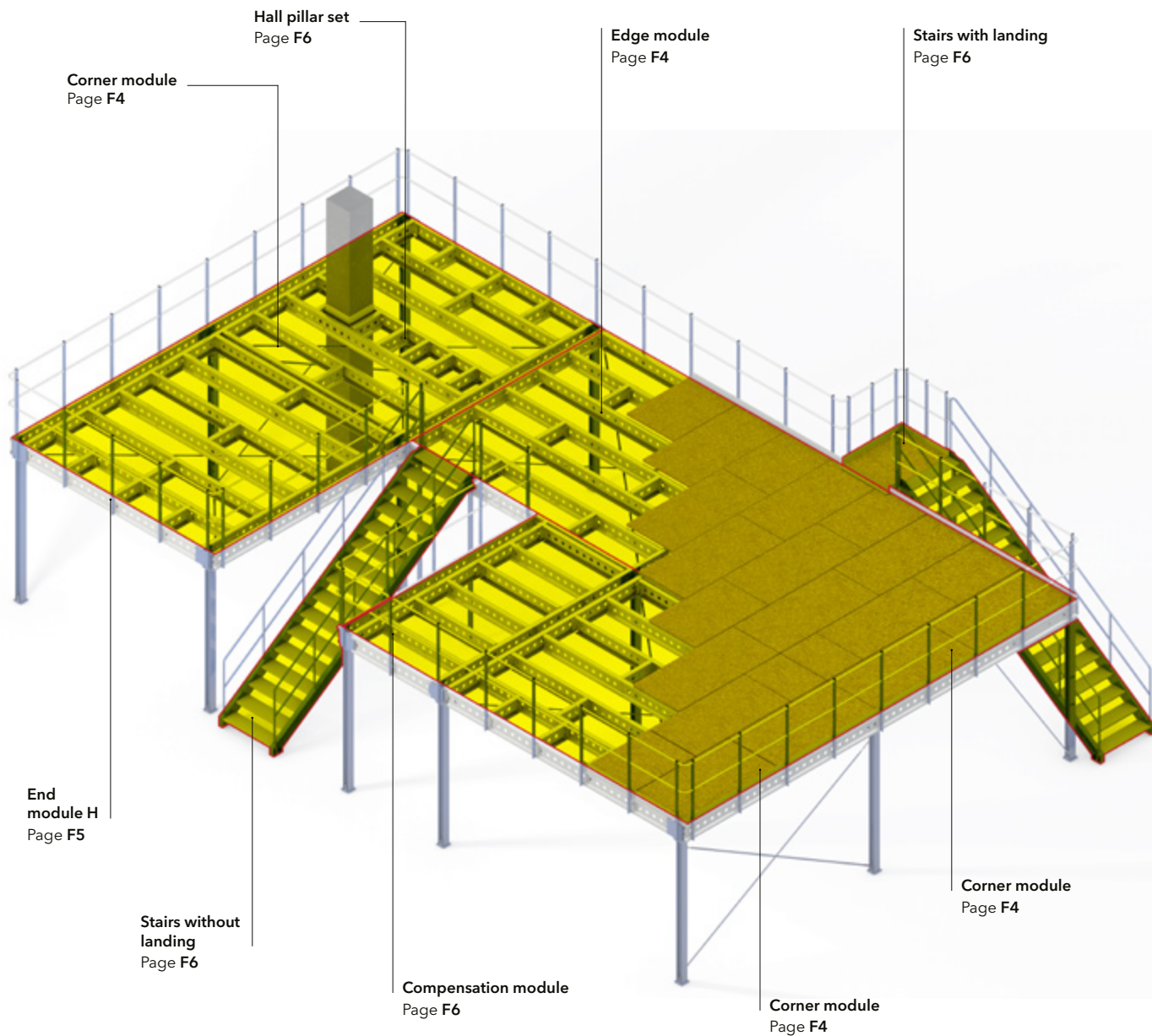
Advantages at a glance

- Fast expansion of storage space
- Greater efficiency
- High level of flexibility and simple planning
- Design in accordance with DIN EN 1993
- Suitable for international use



Surfaces
RAL 5010 and galvanized (cold-rolled CS profiles)

Module Types



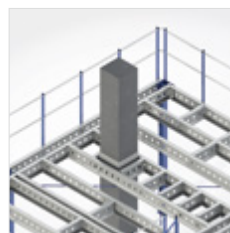
Corner module



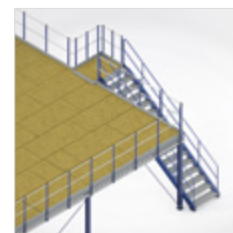
Edge module



End module H



Hall pillar set



Stairs

Shelving Systems

Wide Span Racks

Pallet Racks

Cantilever Racks

On-Line Shelving/
Live Storage Racks

System Platforms

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Service & Support

Software

Module Types

The MSB 600 modules from SSI SCHAEFER include the steel construction of the area modules as well as the platform railings for the specific module type. The supports can be ordered in the required height. Vertical cross braces are positioned on site as required following simple technical guidelines.



Corner module

Corner modules are used in the corners of the system platforms. They are supplied with railings for two sides.



Edge module N

Type N edge modules are used at the edge of the system platform and have one railing parallel to the secondary beams.



Edge module H

Type H edge modules are used at the edge of the system platform and have one railing parallel to the main beams.



Central module

Central modules are used between corner and edge modules in the system platform.



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End module N

End modules are used to implement small standard platforms or a narrow extension. These modules have railings on three sides, with two of the railings on the type N end module running parallel to the secondary beams.



Intermediate module N

Intermediate modules are used to implement standard platforms with the width of a module. These modules have railings on two sides, with two of the railings on the type N intermediate module running parallel to the secondary beams.



End module H

End modules are used to implement small standard platforms or a narrow extension. These modules have railings on three sides, with two of the railings on the type H end module running parallel to the main beams.



Intermediate module H

Intermediate modules are used to implement standard platforms with the width of a module. These modules have railings on two sides, with two of the railings on the type H intermediate module running parallel to the main beams.

System Components

Platform supports

Made from hot-rolled structural steel. For standard platform heights: 2.5–4.5 m, in a grid of 100 x 100 mm. Surface: Gentian Blue RAL 5010.

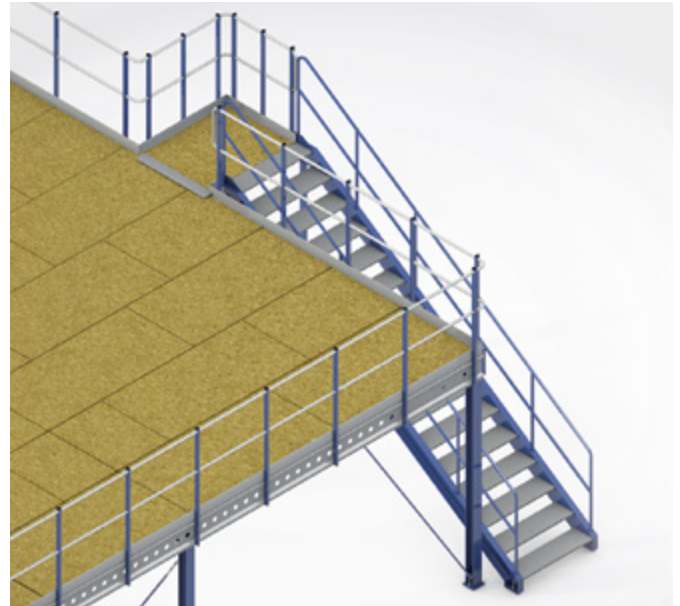
Standardized HEA profiles are used as supports for the steel construction.



Stairs

Stairs in accordance with DIN EN ISO 14122-3 with a clear stair width of 1,000 mm. Railing height: 1,000 mm. Landing covering is the same as the platform covering.

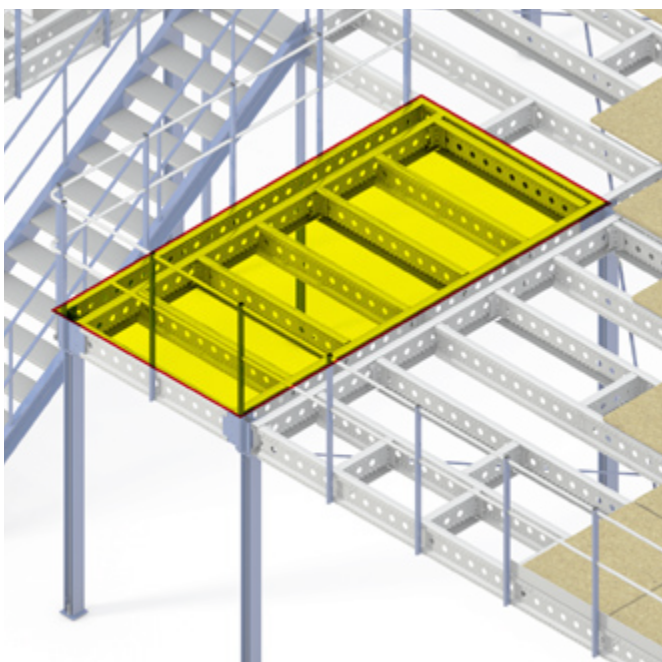
For use in the platform installation without a landing instead of at the edge of the platform installation with a landing.



Compensation modules

Compensation modules can be used to maximize platform space when stairs are used instead of modules.

Compensation modules are only used in combination with stairs. These modules have a width of 2 m and a length of 5–6 m.

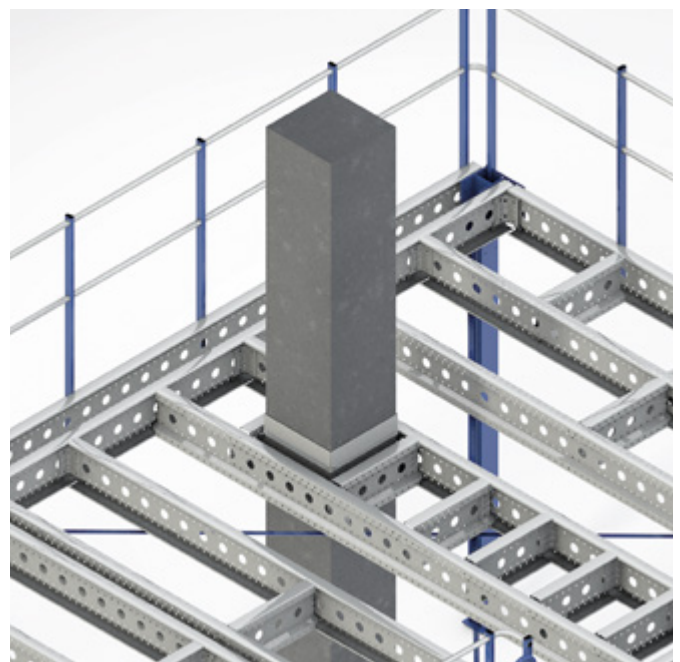


Hall pillar sets - supplementary set

Supports of 500–900 mm can be accommodated within the modules using pillar sets.

Hall pillars must not be situated in the platform axes or along platform edges.

The platform coverings must be adapted during installation.



Platform railings

Platform railings are robust constructions and are generally supplied with a handrail, knee rail and lower edge panel.

Designed in accordance with DIN EN ISO 14122-3. Height: 1,100 mm.
Surfaces: Railing posts are Gentian Blue RAL 5010; handrail, knee rail and edge panel are galvanized.

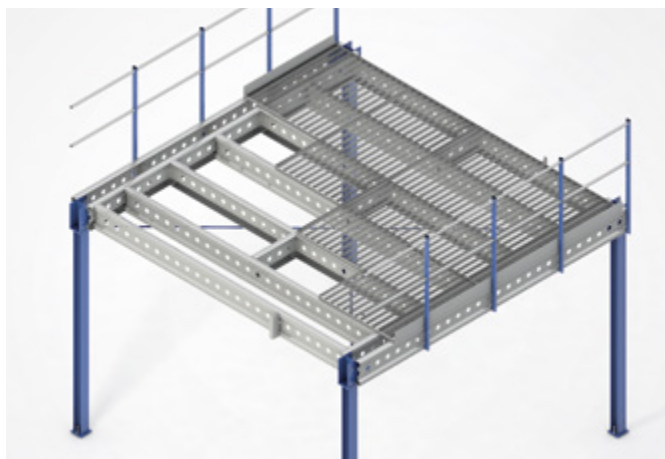


Safety guard gates

Transfer stations are required so that goods can be placed on a platform or collected.

Safety guard gates offer optimal protection for individuals working in the area when transferring goods. The railing is closed at the front or back, depending on the transport route.

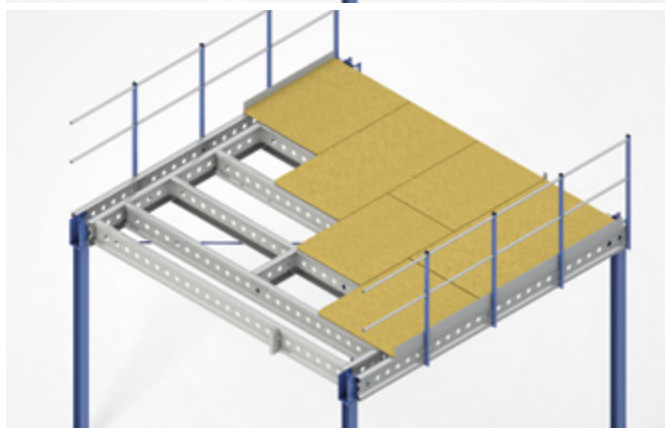
Surface: Zinc Yellow RAL 1018.



Platform coverings

Floor grating coverings

can be used either for fire safety reasons, for ventilation or for natural lighting.
Mesh size 40 x 10 mm, bearing bar height 38 mm.

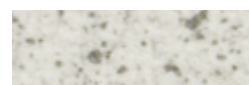


Chipboard coverings

can be used in various designs for a wide range of applications.



Natural surfaces, white underside, 38 mm thick. Fire protection class B2, not waterproof. Quality P6.



Anti-slip surfaces, white underside, 38 mm thick. Fire protection class B2, not waterproof. Quality P6, slip rating R10

Notice: Point loads are taken into account in accordance with DIN EN 15512.

Dynamic Storage Thanks to Semi-Automated Compact Systems

With semi-automated solutions from SSI SCHAEFER, you can boost warehouse space and efficiency at the same time. The flexible storage systems can be expanded as needed and can also be automated with the use of automated guided vehicles (AGV) - giving you the flexibility you need for the future.

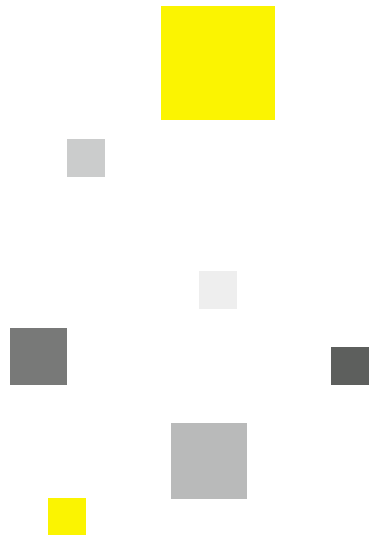
See for yourself what the dynamic SSI SCHAEFER systems can do and learn more about the SSI LOGIMAT® vertical lift module, mobile rack systems and channel storage solutions.





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All load values specified apply for evenly distributed loads.



Space-Saving Storage, More Efficient Picking and More Ergonomic Labor



The SSI LOGIMAT vertical lift module can do more than just store goods: Discover how you can benefit from the many advantages of this system.

The SSI LOGIMAT vertical lift module is like a huge cabinet with two vertical rows of trays – one at the front and one at the back. Between these two rows there is a lift system that spans the entire height of the vertical storage system. This lift system places individual goods into storage and brings them to the operator opening.

The vertical lift module has an opening at the front and allows specific trays to be selected via a user interface. The selected tray is transported to the opening, where the operator can safely pick the items from the tray. Up to four removal openings can be integrated into this system.

Vertical lift modules are a space-saving solution: The vertical setup means that the stored items take up minimal space.

Our customers use the vertical lift modules to store a wide range of items, from rivets and screws to pharmaceutical products. The vertical lift modules also offer lots of options to enable error-free picking and ergonomic benefits to speed up the picking process.



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Advantages at a glance

- Goods-to-person principle improves comfort and efficiency
- Compact design is economically and environmentally beneficial
- Maximum storage density for small parts, up to 90% less storage space
- Performance increased by over 20% thanks to automated processes and ergonomic design
- Simple user guidance and minimal training required
- Can be configured to your individual requirements
- Robust machine technology for maximum availability
- Easy to connect to SAP with the connect:IT add-on



Space optimization

You will need up to 90% less storage space thanks to the high storage density and optimal space utilization



Higher picking reliability

Reduce costs with error-free picking thanks to innovative functionalities



More efficient picking

Travel less, achieve more - goods-to-person concept can increase the picking performance by over 20%



Cleanliness and order for greater efficiency

Shorter search and transport times, greater safety at work, protection against errors in stock data for delicate stored items



More ergonomic labor

Individually adjustable working heights and safety systems reduce absences due to illness and improve employee satisfaction



Digitalization creates transparency

Rapid overview, stock reliability and traceability simplify stock management and sustainably improve warehouse processes

Make Optimal Use of Storage Space with LMB Bins

LMB bins have been designed specifically for use in vertical lift modules. The bins have been optimized for the partitioning of trays with a depth of 800 mm and can be divided up further with additional partitions - for the quick and easy organization of your stored items.

Advantages at a glance

- Maximum space thanks to optimum use of the tray depth
- No mixing of products
- Available heights: 95 and 195 mm
- Available widths: 100, 200, 400 mm
- Ergonomic access from above
- Lightweight, robust PP material
- Easy to integrate into other vertical lift modules
- Easy to clean

Advantages of LMB bins with partitions

- Simple snap-in system with easy-to-insert partitions
- No mixing of items - they stay safely in their compartments
- Each LMB bin has a depth of 800 mm
- Six partitions with spacing of approx. 100 mm = max. seven possible compartments
- Angled surfaces for stickers
- Much easier and lighter to handle compared to conventional metal partitions

Bin variants



Mix and match all five LMB bin sizes in the vertical lift module to suit your requirements.



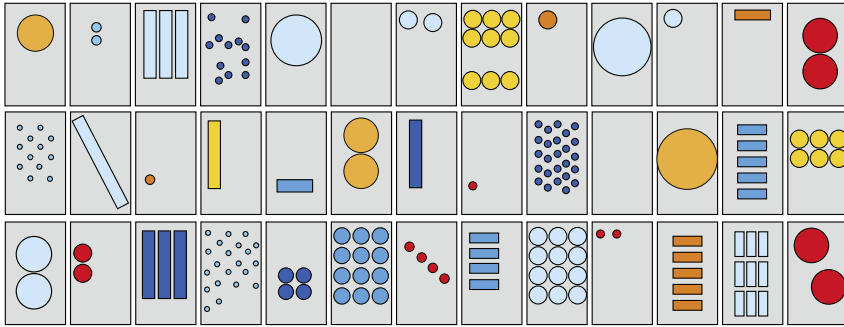
It is possible to configure up to 280 compartments in one tray.

Each LMB bin is supplied with two partitions.

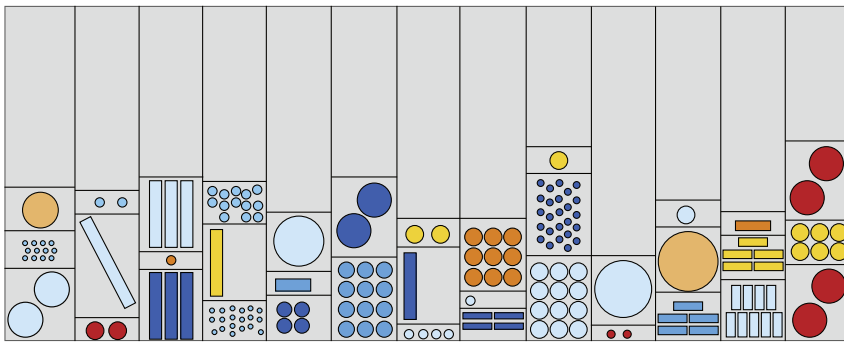
External dimensions L x W x H (mm)	Internal dimensions L x W x H (mm)	Capacity (liters)	Max. compartments/bin
800 x 100 x 95	774 x 74 x 93	5.2	7 compartments
800 x 200 x 95	774 x 174 x 93	12.4	
800 x 200 x 195	774 x 174 x 193	25.7	
800 x 400 x 95	774 x 374 x 93	26.7	
800 x 400 x 195	774 x 374 x 193	55.5	



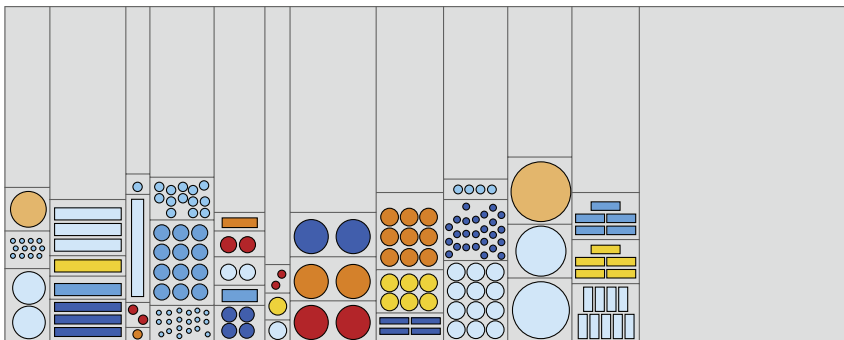
Here is an example to illustrate the potential:



Here we can see a tray from a vertical lift module containing randomly distributed bins, some of which contain very little. It is immediately clear which storage locations are unused.



Considerable space savings can be made just by optimizing the division of the tray depth using flexible partitions.



The next step is to optimize the division of storage across the width of the tray, which will save even more space and increase the capacity of the vertical lift module.

Height optimization and space optimization

Height optimization is carried out intuitively for bulky goods. However, practice shows that a lot of volume is often wasted in the process, which can be avoided by optimizing the space. Although there are situations where height optimization makes sense, a lot of storage tasks can be solved by optimizing the space.



For maximum space optimization, appropriate storage bins and partitions are required. That is why there are special vertical lift module bins with a length of 800 mm that can be subdivided to the greatest possible effect. With the aid of expert advice, you can significantly increase your storage capacity.

More Storage in Less Space



With our mobile racks, you can not only optimize the space needed but even free up additional space in the process. We offer maximum flexibility in terms of the size and nature of your stored goods, which may vary from extremely large, heavy goods to documents, clothing, small parts, spare parts, tires or tools.

Our solutions are distinguished by their exceptional quality, wide variety of combinations and extensive scalability. A modular concept enables the system to be tailored to your specific requirements.

Advantages at a glance

- Storage capacity increased by up to 90%
- Space savings of up to 45%
- Highly cost-efficient with a long service life
- Can be combined with conveying systems and automated guided vehicles

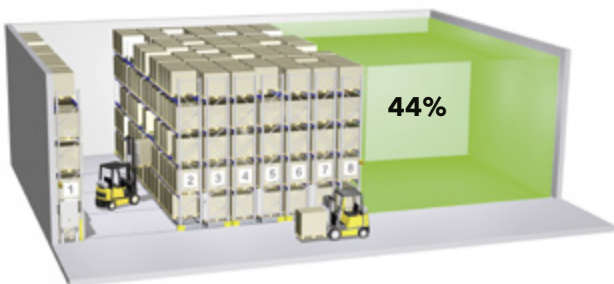
Mobile Racks Enable Efficient Space Utilization for Optimal Warehouse Logistics

Pallet racks in a conventional arrangement



Comparison of logistics data	
Total space occupied	625 m ²
Of which rack space	223 m ²
Of which aisle space	402 m ²
Degree of space utilization	36%
Pallet storage locations	1,152
Loss of space	64%

Mobile racks for optimized use of space



Comparison of logistics data	
Total space occupied	353 m ²
Of which rack space	223 m ²
Of which aisle space	130 m ²
Degree of space utilization	63%
Pallet storage locations	1,152
Loss of space	44%

Mobile racks for greater storage capacity



Comparison of logistics data	
Total space occupied	625 m ²
Of which rack space	463 m ²
Of which aisle space	162 m ²
Degree of space utilization	74%
Pallet storage locations	2,304
Capacity gain	100%



Flexible Rack Systems for Large and Heavy Goods



Heavy-duty mobile racks for pallets and long goods are designed to support the considerable size and weight of the goods being stored. Thanks to their modular design, these systems can also be tailored to create customer-specific solutions.

Ideal for deep-freeze storage

The combination of our mobile racks, conveying system expertise and powerful electric drives makes our systems the first choice for use in deep-freeze warehouses.

Safe working environment

Equipped with emergency stop switches, photoelectric access barriers, manual release systems, distance sensors and photoelectric safety barriers, our pallet mobile racks play a crucial role in keeping your warehouse running smoothly and accident-free.



- Shelving Systems
- Wide Span Racks
- Pallet Racks
- Cantilever Racks
- On-Line Shelving/
Live Storage Racks
- System Platforms
- Dynamic Storage**
- Automated
Logistics Solutions
- Logistics Systems
- Customer
Service & Support
- Software

Advantages at a glance

- Increased storage capacity (up to 90%), space savings of up to 45%
- Reduced operating and real estate costs thanks to the system's optimal use of space (degree of space utilization up to approx. 80%)
- Very high storage density
- Improved energy efficiency
- Direct access to pallet storage locations avoids unnecessary and time-consuming relocations
- High technical performance
- Can be connected to warehouse management system
- Earthquake-proof design

Mobile rack systems can also be used in conjunction with automated guided vehicles. SSI SCHAEFER's fleet includes a range of innovative solutions.

These solutions enable the barrier-free networking of different warehouse and work areas, and can be adapted to customers' needs and expanded as required.



Mobile Racks for Light and Medium-Weight Loads

Whether for documents, clothing, small parts, spare parts, tools or other light to medium compartment loads – with its range of mobile rack systems, SSI SCHAEFER has the ideal warehouse solution for light to medium-weight loads.

Innovative technologies:

Our mobile racks are available in the following variants depending on the stored goods and requirements:

- Crank drive with rail-guided system:
Because this variant moves on rails anchored to the floor, it is also suitable for high and narrow designs.
- Crank drive with rail-less system:
Because the existing floor does not need to be modified when installing this variant, the rail-free solution can be easily installed on almost all existing surfaces and is also ideal for use with special floors or heated floors.

Advantages at a glance

- Space gain: 40% less space than rack lines arranged in stationary rows, or 85% more warehouse quantity within the same area
- Optimization of the space needed, freeing up additional space
- Optimization and reduction of travel time in internal processes
- Efficiency thanks to reduction in rack aisles
- Optimum quality
- High degree of flexibility thanks to modular design and variety of combination options





Tire Storage with EMX Mobile Rack

For tire storage to be efficient, it needs to be optimally tailored to the specific site conditions. Take advantage of the benefits of our space-saving, flexible and safe EMX mobile rack.

Our mobile racks for tires and wheels comprise conventional tire and cantilever racks that are mounted on carriages and move in parallel to one another with the aid of a motor drive. The rack travels on rails, and only the required aisles are

opened. By only opening the aisles that are actually needed, this solution offers optimum efficiency because it allows you to reduce the amount of space required in the workshop or warehouse.

Advantages at a glance

- Virtually double the storage capacity of a static storage solution on the same footprint
- Can store all wheel and tire sizes up to a diameter of 800 mm
- Can store wheels with spikes
- Complies with applicable health regulations because the assembled wheels, which can be heavy, do not need to be lifted manually by one person
- Mobile carriage enables wheel stacks to be quickly stored and retrieved from the ground using a forklift
- Reduced operating and real estate costs thanks to the system's optimal use of space
- Equipped with a state-of-the-art PLC
- Carriage loads up to 50 metric tons, carriage length up to 25 m
- Modular design options
- High level of flexibility, quality and durability
- Diverse range of combinations
- Comprehensive expertise

Channel Storage System: A Space-Saving Miracle

Channel storage systems enable you to optimize your use of space. The systems work by storing several storage units one behind the other in channels, and are operated by channel vehicles. Only the front loading unit can be accessed in each channel, making the system ideal for storing large volumes with a low item diversity. The channels are therefore usually filled with a single item.



Advantages at a glance

- **Performance**
High picking performance thanks to parallel work steps
- **Scalability**
If the stock turnover needs to be increased later, adding additional channel vehicles is simple and straightforward
- **Availability**
Using multiple channel vehicles ensures the optimum utilization of the system
- **Cost and energy efficiency**
The high level of space utilization minimizes operating costs, while the high storage density maximizes energy efficiency
- **Durability and safety**
Work is only carried out at the ends of the channels

SSI ORBITER® - the Optimal Solution

In semi-automated applications, when connected to a docking station, the innovative SSI Orbiter offers optimal utilization of space alongside an extremely high degree of

flexibility, maximum personal safety, sustainability, and ease of use in the channel storage system. It also enables vastly improved pallet handling efficiency.

Safe

- The docking station remains at the front of the channel, restricting access to the channel
- Safe transport in the warehouse - the Orbiter locks onto the docking station when transferring between channels
- Maximum safety in the warehouse thanks to the integrated safety PLC

Flexible

- Mixed FIFO/LIFO operation possible within the same warehouse
- Various pallet types can be handled
- Suitable for use in earthquake-prone areas
- Suitable for use in deep-freeze environments

User-friendly and efficient

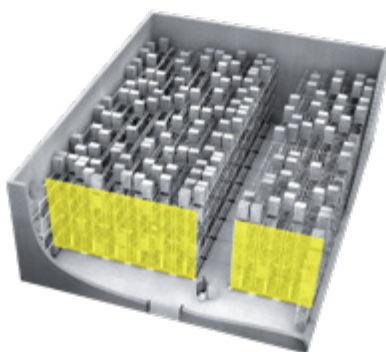
- Simple and fast insertion into a rack thanks to precisely measured entry tolerances
- User-friendly operation thanks to pictograms on the remote control
- Parallel use of multiple SSI Orbiter systems creates maximum efficiency

Compact. More compact. Channel storage system

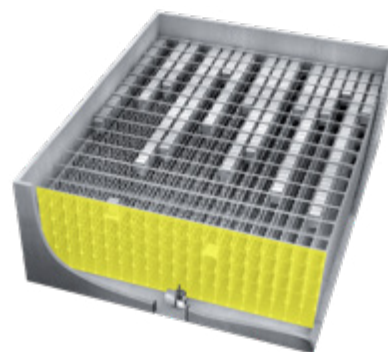
50% - pallet rack



90% - mobile rack



100% - channel storage system



Optimize Your Material Flow with Automated Warehouse Solutions

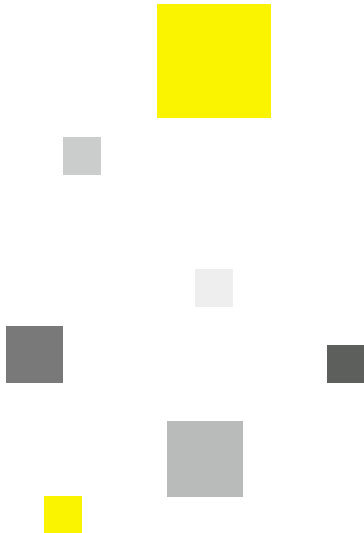
A gradual transition to automation: Our plug & play solutions are designed to make it easier for small and medium-sized companies in particular to enter the world of automated logistics. Plug & play offers a straightforward way to sustainably improve your warehouse, transport and picking processes - at an attractive price.

SSI SCHAEFER offers preconfigured combinations of automated guided vehicles and rack systems or vertical lift modules. The result is a freely scalable solution where you can decide on the level of automation.



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- RackBot systems Page **H2**
- Automated guided vehicles Page **H4**





RackBot Systems: Autonomous Solutions for Efficient Picking



Our plug & play solutions for increasing capacity and efficiency in handling processes in goods-to-person environments.

With our RackBot logistics solutions, SSI SCHAEFER is making it easier for small and medium-sized companies to take their first steps into semi-automated logistics – plug & play makes the transition simple and affordable. These high-performance solutions help you to optimize your warehouse, transport and picking processes for long-term success.

The holistic system designed by SSI SCHAEFER combines the advantages of SSI SCHAEFER's rack systems and the RackBots from the range of SSI Mobile Robots. The result is picking systems that are quick and easy to implement and offer the autonomous storage and retrieval of goods in different bins.



All RackBot systems have one thing in common: They significantly reduce the time required for picking and order processing. They can also be installed quickly in existing warehouses, are easily scalable at any time and reduce logistics costs in the long term.

Advantages at a glance

- Scalability: RackBot systems grow with your requirements and are easy to adapt to fluctuations in demand
- Integration: Predefined interfaces ensure smooth integration into your existing (IT) environment
- Efficiency: Amortization is possible within a few months
- Storage density: The storage density can be increased by up to 130%
- Implementation: Installation takes around 3-5 months and then 1 month until commissioning
- Partnership: The entire solution, including all interfaces, is implemented with just one partner

Overview of Solutions

An intelligent interplay of reliable components ensures a continuous material flow in accordance with the goods-to-person principle. The modules have been in use worldwide for many years and have proven their reliability. What's more, the ideal solution is available for every requirement.

RackBot System Eco: efficient storage of bins and cartons

This versatile, scalable solution is designed to offer a high degree of efficiency and flexibility in warehouse operations. The automated storage and staging system increases storage density and order throughput while significantly reducing labor costs. With the aid of autonomous mobile robots, the RackBots, a wide variety of bins can be stored at heights of up to 12 m. The RackBots transport up to nine bins simultaneously to the picking stations, which increases efficiency enormously.

RackBot System Eco is equipped with rack systems from SSI SCHAEFER that are individually tailored to your needs. The quality and robust construction not only ensure a long service life, but also enable easy adaptation to changing conditions. In addition to the integration of the mobile robots, the system comprises inbound and outbound work stations, flexible rack options and centralized control.

RackBot System Flex: additional pallet storage for greater flexibility

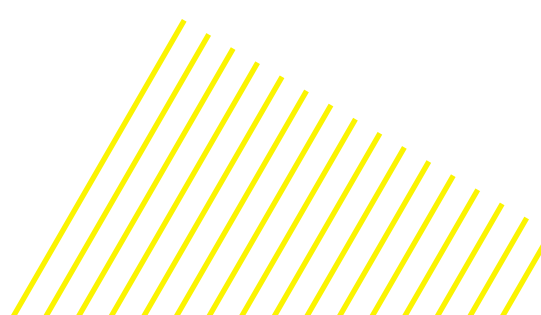
RackBot System Flex extends the functions of RackBot System Eco and also enables the storage and automated picking of bulk goods and mixed items. It is ideal for the efficient handling of mixed picking processes and is suitable for a wide variety of items, including small, medium and large, loose or irregular products.

RackBot System Flex uses two robot technologies to optimize various storage operations: The RackBots move in vertical sections up to 12 m high and enable the precise warehouse management of individual bins. At the same time, the TransferBots (AMRs) handle the picking of bulk goods and palletized goods. This combination enables the efficient handling of different types of stored goods.

RackBot System Flex considerably increases efficiency in warehouse operations, reduces storage space requirements and retains all the benefits of flexibility and scalability of RackBot systems.

RackBot System Compact: space-efficient storage up to three rows deep

RackBot System Compact is a very dense and flexible storage solution that has been specially developed for applications with high throughput and fast order processing. It optimizes the use of space through vertical storage with up to 43 bins per square meter and enables fast access to fast-moving items. RackBot System Compact also uses two robot technologies for maximum efficiency and faster picking. The RackBots are supported by the fast RunBots, which transport bins to the picking stations at a speed of up to 4 m per second. Integration into existing warehouse management systems also ensures smooth operation.





Semi-Automated Small Parts Picking in Confined Spaces



Increase Efficiency by Combining Vertical Lift Modules with Automated Guided Vehicles



Combining one or more vertical lift modules with automated guided vehicles (AGVs) in a synchronized manner improves both quality and efficiency. Storage density increases and technical performance and picking quality improve while downtimes caused by slow material supply or incorrectly supplied parts are virtually a thing of the past.

Advantages at a glance

- 50% time savings across the entire picking process
- 90% increase in speed of availability
- 120 m² storage space possible on a footprint of 11 m²
- Constantly timed flow of goods
- Improved utilization and error reduction
- Minimization of buffered stock

Achieve 24/7 Availability and a Constant Material Flow

Optimize warehouse processes in static and dynamic pallet racks with AGVs

Combining static and dynamic pallet racks (e.g. flow racks) with automated guided vehicles ensures a constant material flow and optimum process reliability. This is an efficient, attractively priced and, above all, reliable combination, which can be gradually adapted to existing or new warehouses at any time. It can be integrated into any warehouse management system (WMS) and is also available as a standalone solution.



Advantages at a glance

- Simple configuration
- Modular system for a tailor-made storage solution
- Maximum safety thanks to sturdy construction of racks and AGVs





Compact, High-Performance Total System Solution for Constant Flows of Goods

Mobile racks are even more efficient in conjunction with automated guided vehicles

This bundled solution package, consisting of mobile rack systems and automated guided vehicles (AGVs), allows flexible integration into available hall layouts, saves space, enables a constant material flow around the clock and helps

permanently reduce operating costs. It also reduces reliance on staff and brings the error rate down to virtually zero.

Advantages at a glance

- Quick and easy installation thanks to lightweight, standardized conveyor system components
- Optimal use of space thanks to integration of ceiling area
- Ergonomic work stations for order and packing locations
- Optimal opportunities for interlinking with work stations thanks to standardized transfer locations for the connected conveying system
- Can be used as a storage, sorting and transport device
- High system throughput and efficiency





Software

Customer Service & Support

Logistics Systems

Automated Logistics Solutions

Dynamic Storage

System Platforms

On-Line Shelving/
Live Storage Racks

Cantilever Racks

Pallet Racks

Wide Span Racks

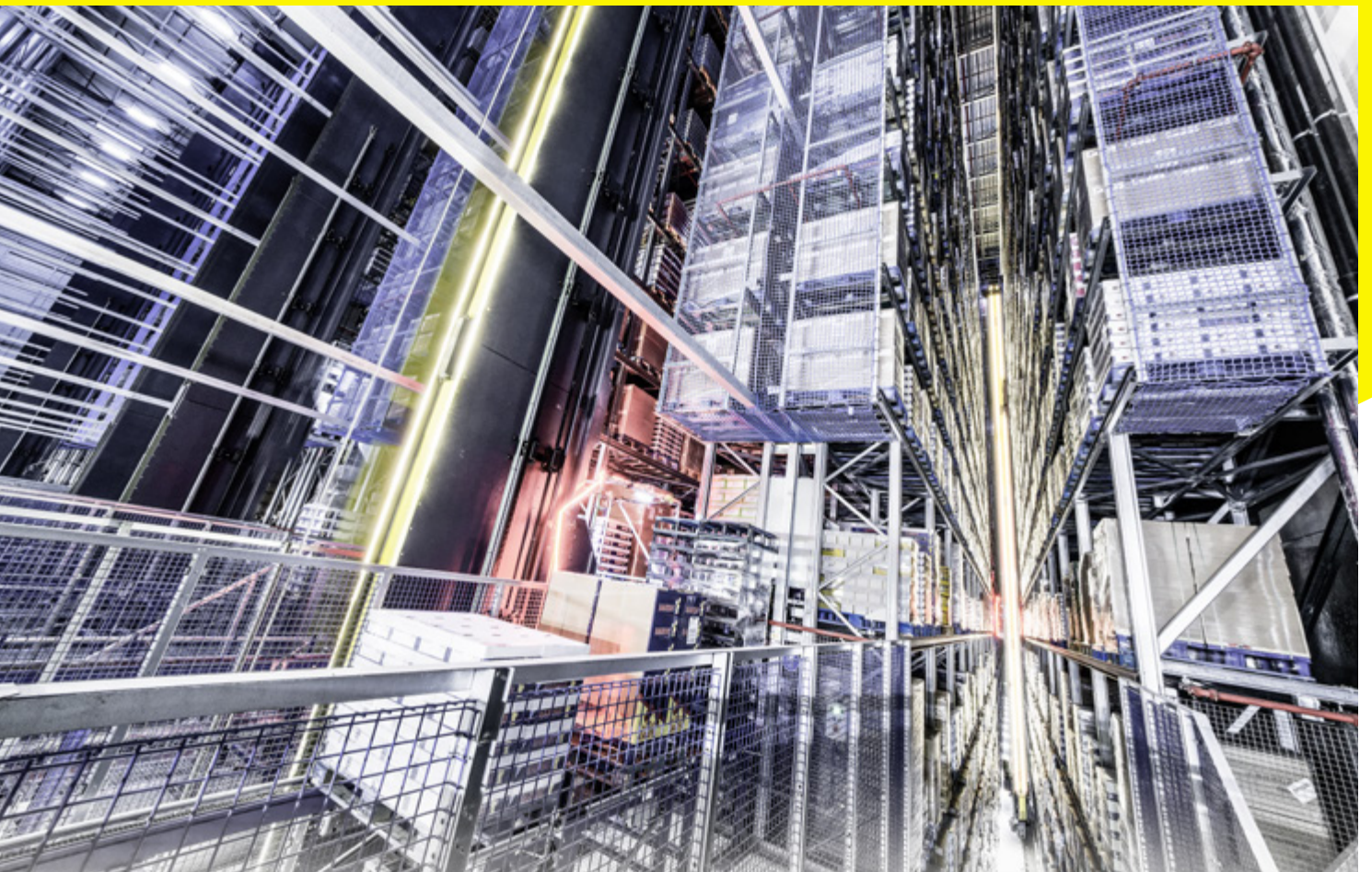
Shelving Systems

Intralogistics at the Highest Level

Same-day delivery and shop-friendly delivery, e-commerce, omnichanneling, increased returns handling, efficient production supply - the only way to tackle the demanding requirements of modern intralogistics is with efficient processes and products.

Whether for storing, conveying and transporting, picking or moving goods: SSI SCHAEFER supplies customized products, solutions and systems that enable you to organize your stored and transport goods efficiently.

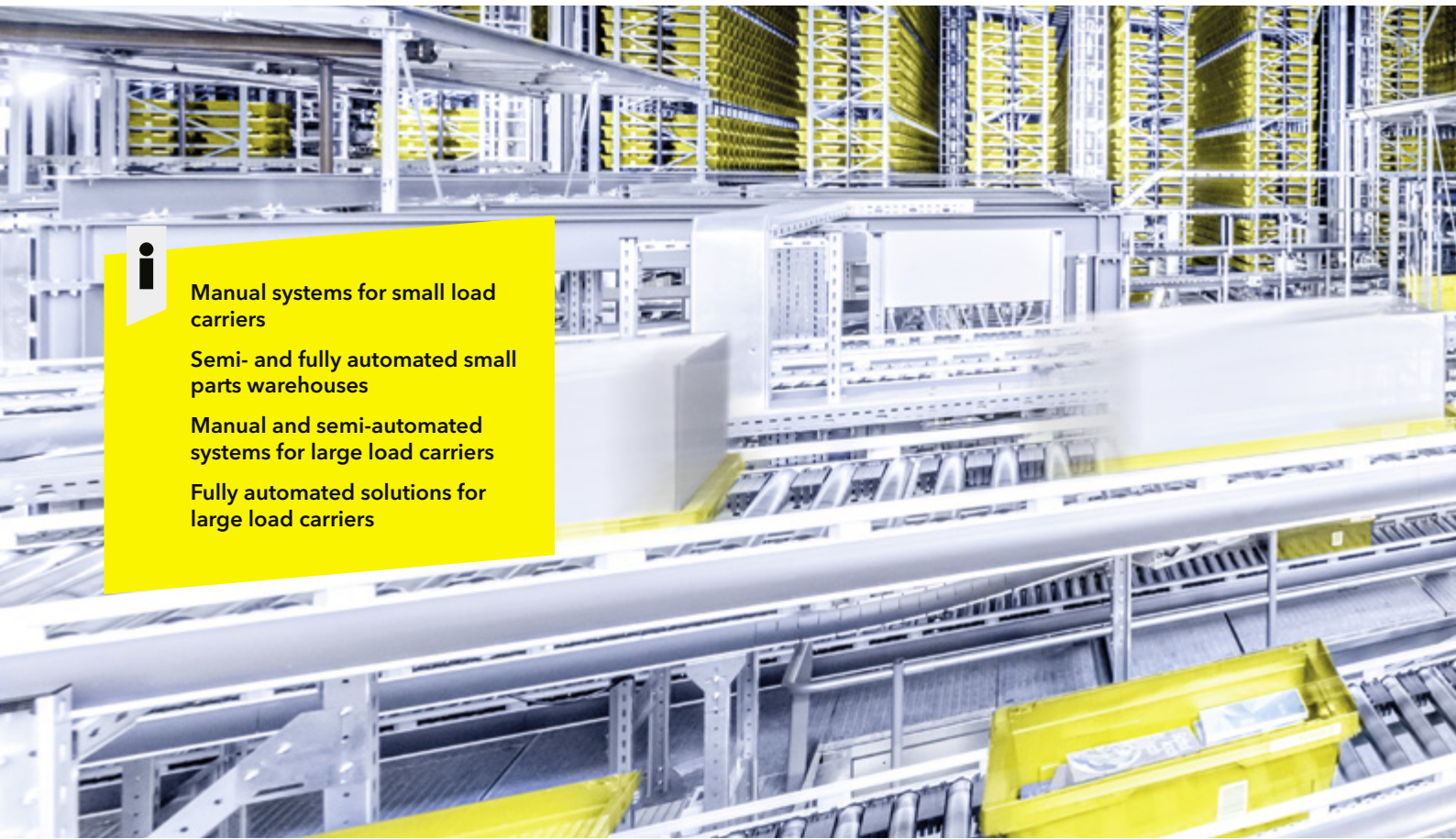
Our wide range of products and solutions - covering the entire spectrum of the internal material flow - form the basis for solutions tailored perfectly to your individual needs. In all our projects, the focus is always on the complete solution.





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Manual systems for small load carriers

Semi- and fully automated small parts warehouses

Manual and semi-automated systems for large load carriers

Fully automated solutions for large load carriers

Warehouse Logistics at the Highest Level

Future-proof logistics solutions must fit seamlessly into your processes, be infinitely expandable, and be flexibly adaptable to new framework conditions. Modular solution components are particularly essential when it comes to warehousing - and SSI SCHAEFER tailors them to your specific requirements.

Cost-effective and efficient storage

The aim of effective warehousing is to make optimal use of the storage space available at the lowest cost, while ensuring that a large portion of the stored goods are easily accessible at all times. Our systems enable you to maximize your space and offer virtually unlimited design possibilities.

We supply efficiency-boosting storage systems from a single source - from pallet racks, bin systems, rack and storage platforms and small parts warehouses to dynamic storage-retrieval machines and shuttle systems.





Targeted Optimization of Warehouse Processes

Advantages at a glance

- Complete solutions from a single source
- Modular and scalable systems
- Wide assortment of systems, from manually to semi- and fully automated
- High-performance, modular software solutions
- Excellent cost efficiency thanks to efficient solutions
- Many years of experience and comprehensive expertise
- Extensive portfolio of services



Shelving Systems

Wide Span Racks

Pallet Racks

Cantilever Racks

On-Line Shelving/
Live Storage Racks

System Platforms

Dynamic Storage

Automated
Logistics Solutions

Logistics Systems

Customer
Service & Support

Software



Manual picking

Work stations/
ergonomics@work!®

Automatic picking

Paper and bin handling

Product identification

The Perfect Flow

Efficient picking and seamless order processing are key elements of any intralogistics process. With modular picking and handling systems, SSI SCHAEFER designs custom solutions to fit your precise requirements - from manual to semi- or fully automated systems.

Cost-effective and efficient

Increased picking performance, minimized error rates, simple and ergonomic operation and low-maintenance, reliable technology - these are the main goals of efficient picking and handling systems.

We provide everything you need from a single source: From the hardware and software to comprehensive customer service and support. With our picking and handling systems, you benefit from superior quality, modularity, a variety of combination possibilities and maximum flexibility.





Error-free Processes and Efficient Material Flows

Advantages at a glance

- Modular and scalable systems
- A comprehensive range of system solutions, from manual to fully automated
- Increased picking performance and minimized error rates
- Ergonomic design
- Significant time savings thanks to efficient order processing and processes
- Low-maintenance, reliable technology





Fast, Versatile, Compact: Overhead Conveying Systems



Many goods, such as clothing, cosmetics, household items and electronics, are most efficiently transported in a hanging position. Our comprehensive portfolio of overhead conveying systems - the SSI Overhead Conveyors - covers applications in a wide range of industries, tailored to your precise requirements.

Advantages at a glance

- Quick and easy installation thanks to lightweight, standardized conveyor system components
- Optimal use of space thanks to integration of ceiling area
- Ergonomic work stations for order and packing locations
- Optimal opportunities for interlinking with work stations thanks to standardized transfer locations for the connected conveying system
- Can be used as a storage, sorting and transport device
- High system throughput and efficiency

SSI Carrier: the highly dynamic pouch sorter

The modular, scalable SSI Carrier system for e-commerce and omnichannel distribution offers an impressive level of flexibility. With this system, you can transport, accumulate, buffer, sort and sequence goods using a single load carrier. The SSI Carrier offers high throughput, low-maintenance operation and universal applicability for goods weighing up to 2.5 kg. At the heart of the system is an internal roller adapter, which holds and transports pouches or hangers and can be reliably identified via RFID chip.

Benefit from:

- Single-part access for fast sorting and efficient returns handling
- Parallel processing of multiple distribution channels
- Gentle transport and buffering of goods on motorized accumulation conveyors
- Optimal use of space thanks to horizontal layout
- Excellent sorting accuracy and process reliability
- User-friendly operation thanks to simple user interface



- Shelving Systems
- Wide Span Racks
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- System Platforms
- Dynamic Storage
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Logistics Solutions
- Logistics Systems**
- Customer
Service & Support
- Software



Modular, Efficient, Scalable: Conveying Systems for Large Load Carriers



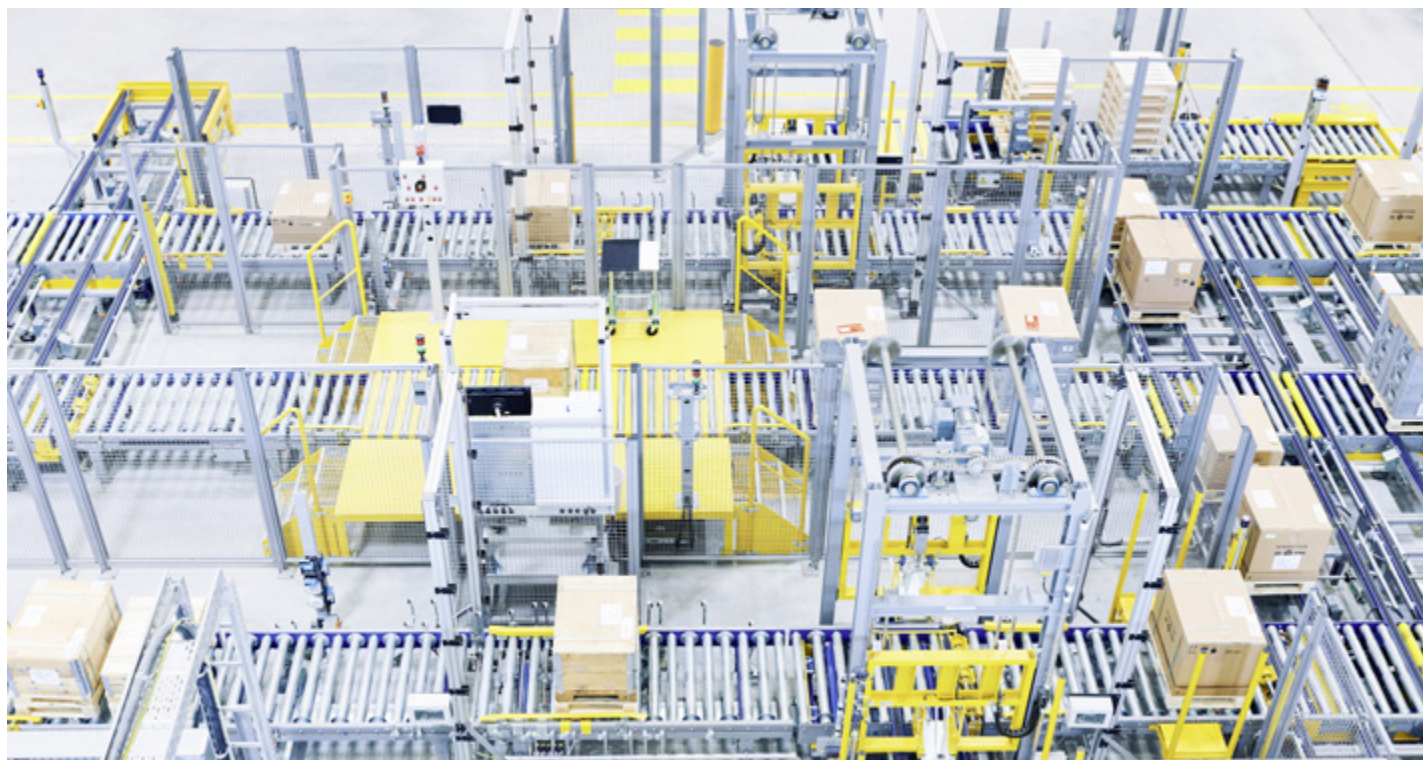
SSI SCHAEFER offers tailor-made solutions for the internal material transport of a wide range of large load carriers. With a modular design, they can be customized to fit your exact requirements.

Whether for pallets, roll containers or other types of large load carriers, with the SSI Heavy Load Conveyors we have the ideal transport solution for every application. Connect

the various sections within your warehouse and benefit from optimized material flows and technical performance.

Advantages at a glance

- Strong technical performance and consistent productivity
- Optimized work flows thanks to ergonomics@work!® concept
- Modular and scalable conveying systems
- Long-term supply of spare parts and comprehensive support
- State-of-the-art technology and reliable components
- Consistently high quality thanks to in-house production



Pallet conveying system

The pallet conveying system is an excellent option for cost-efficient processes. Its modular design, factory-assembled components and a frequency-controlled drive system enable flexible internal transport processes and ensure optimized material flows between production, warehouse, picking and shipping.



Roll container conveying system

Our roll container conveying system allows you to efficiently integrate trolleys into your system. The conveying system can also be configured for mixed transport with pallets. This innovative system with its ability to automatically load goods directly onto trolleys eliminates an extra work step.



Shelving Systems

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Software



Ergonomic, Customized, Modular: Small Load Carrier Conveying Systems



SSI SCHAEFER supplies everything you need to transport any kind of load carrier from a single source - from the load carrier and control system to the conveying system. Our highly compatible components ensure that everything runs smoothly.

With our SSI Compact Load Conveyors, we offer one of the world's largest modular kits for lightweight conveying systems, complete with easy maintenance and high throughput. Thanks to our wide variety of conveyor

elements, we have the ideal system solution for every application, from carton and bin conveying systems to case conveying systems and sorting systems.

Advantages at a glance

- Expandable lightweight conveying systems in a modular format
- Consistent productivity thanks to reliable components
- State-of-the-art technology for excellent efficiency and technical performance
- Low operating costs
- Suitable for use at temperatures down to -28°C
- Optimized work flows thanks to ergonomics@work!® concept

Sorting systems: automatic sorting accelerates the flow of goods

Sorters speed up the flow of goods and processes in all areas of the plant, whether in the warehouse or in the distribution center. SSI SCHAEFER offers a wide range of sorters and sorting systems for all manner of applications.

From unit sorters for the fully automatic sorting of lightweight and flat goods to parcel sorters for packages of up to 50 kg - we have the ideal solution for your needs.

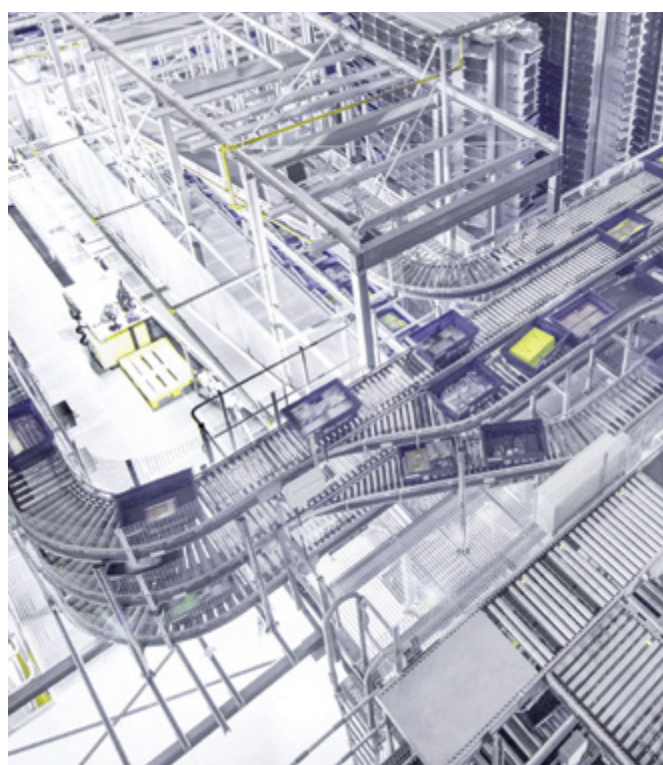


Carton and bin conveying systems: an intelligent modular design

The SSI SCHAEFER conveying system is suitable for transporting small load carriers of up to 50 kg, such as bins, cartons, trays and polybags, on a single-item or mixed basis. The carton and bin conveying system can also sort, transfer, buffer and accumulate load carriers. The conveying system components are perfectly coordinated for maximum flexibility. Our high performance accumulation roller conveyor adds the seamless accumulation of various transport goods lengths to our portfolio. It is used mainly as a sorter in-feed or in shipping.

Benefit from:

- Tried-and-tested, reliable technology for maximum availability
- Modular system in a uniform design with standard dimensions
- Integrated cable channels
- Standard spare parts for powered roller, motorized roller, belt and roller conveyors
- Quiet operation
- Suitable for deep-freeze applications down to -28°C



Case conveying systems: transport of bins and cartons

The SSI SCHAEFER case conveying system with its standard components is suitable for transporting bins and cartons as well as products packed in shrink wrap, such as the dry goods typically found in grocery stores. Components with different functions such as inserting, diverting, aligning and separating are also available. Depending on the specific processes and products, they can be combined to create an efficient conveyor system and can also be connected to automated guided vehicles.





High Bay Warehouses and Silo Facilities

High bay warehouses for IT-controlled storage facilities: We construct high bay pallet warehouses and automated small parts warehouses for you, as well as special storage facilities designed for installation in halls or as silo constructions capable of supporting roofs and walls.

From the design and static calculations and engineering and production at our in-house production facilities right the way through to installation, SSI SCHAEFER plans and executes every single stage of the process.

There is a major difference between storage systems that are installed in an existing hall and silo facilities: With the silo design, the rack itself serves as the supporting structure for the roof and facade. This eliminates the need to build a separate hall.

There are many benefits to a silo construction: Shorter construction times, savings on foundations, building technology and the roof/facade area, and attractive depreciation options. The higher the rack system, the more attractive it becomes to implement the system as a compact silo facility. The optimum solution for your needs depends on a variety of parameters and therefore needs to be assessed on an individual basis. We will be happy to assist you with this.





Shelving Systems

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Customer
Service & Support

Software

SSI SCHAEFER - Tailored Solutions and Comprehensive Service for Your Intralogistics

Future-proof logistics solutions must fit seamlessly into your processes, be infinitely expandable, and be flexibly adaptable to new framework conditions. For this you need specialists - specialists that do not think in terms of individual processes, but overall systems.

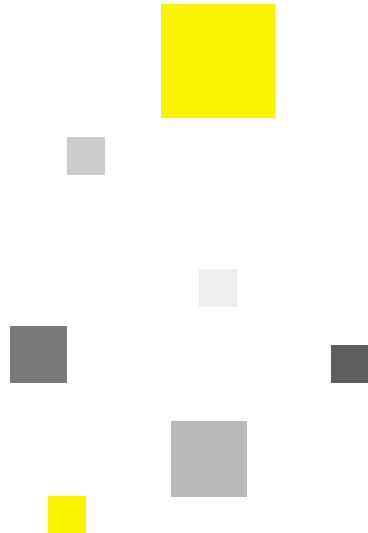
At SSI SCHAEFER, this holistic approach, our wide range of products and solutions and our extensive services are the basis of our success.





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Customer Service & Support 4.0: the Future Is Now



Digitalization is not only revolutionizing production and logistics but also downstream business processes, such as service and support. SSI SCHAEFER offers you a broad portfolio of services, which utilize state-of-the-art technologies, such as augmented support and data-driven prevention. While you convert your processes to Industry 4.0, we assist you with Customer Service & Support 4.0. Our Service Account Managers serve as your central contact persons for all service inquiries and also compile your tailored service package.

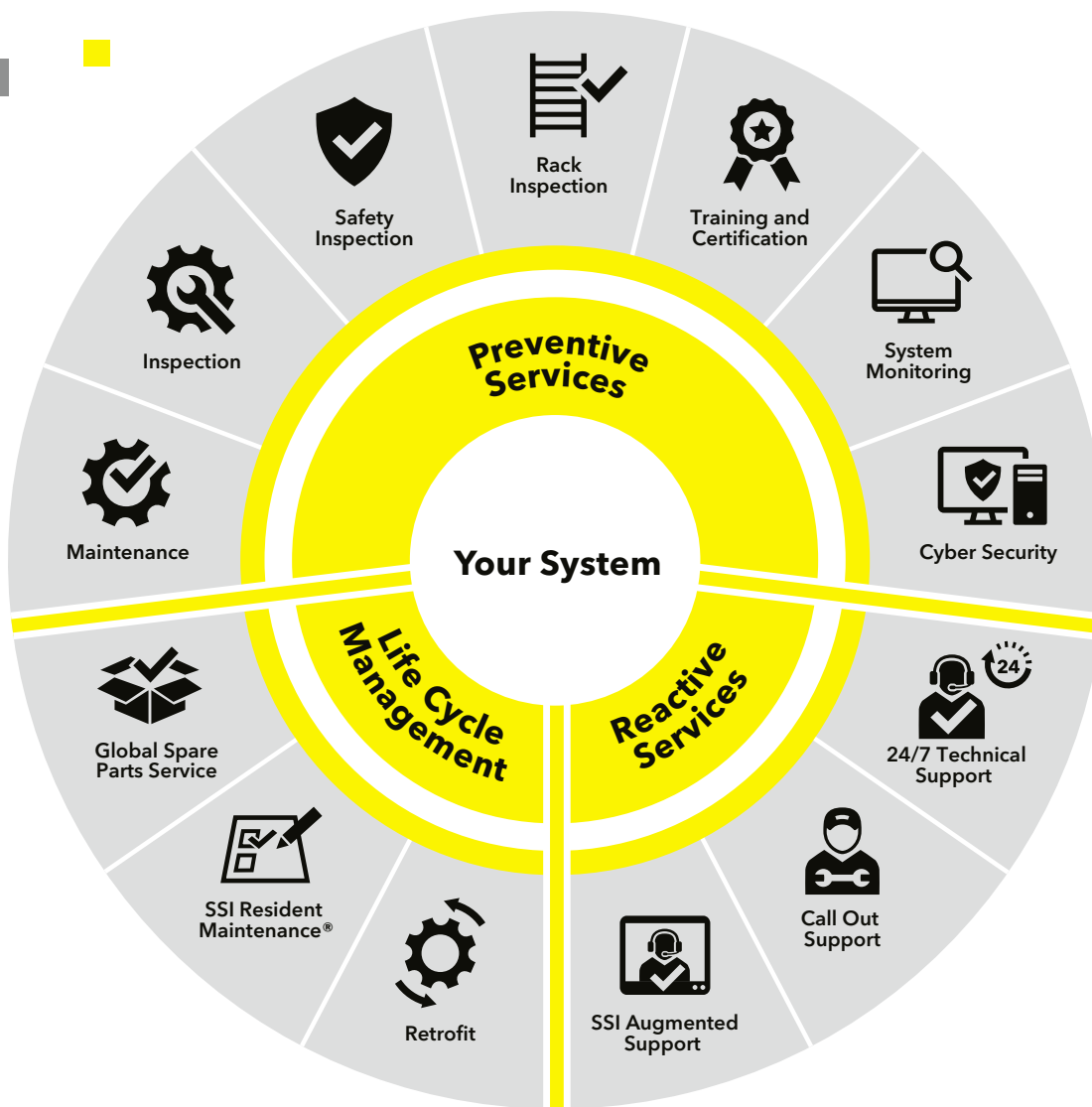
At SSI SCHAEFER, we understand that maximum availability of all systems and short response times in service cases are critical to successful operation of a complex logistics system. We're here for you and we provide you with professional support.

We flexibly adapt our services to your needs and requirements - wherever and whenever you need them and for every scope.



**Preventive services:
Optimum system protection**

SSI SCHAEFER carries out maintenance activities, inspections, safety inspections and system monitoring using qualified technicians. We also offer comprehensive training courses to ensure that your system is operated and maintained correctly.



**Life cycle management:
Service life extension**

Extend the service life of your system with complete on-site service from our technicians, through modernization or expansion along with original spare parts from our web shop.

**Reactive services:
Rapid problem solving**

If a fault occurs with your equipment or system, SSI SCHAEFER is there to support you with innovative solutions up to 24 hours a day and 365 days a year.

Improved Service: Keeping Pace with the Times with Smart Tools



Service Portal - WAMAS Maintenance Center

Big data is one of the central topics of Industry 4.0. This refers to the storage, consolidation and visualization of information so that it can be used to draw meaningful conclusions. The WAMAS Maintenance Center is the SSI SCHAEFER electronic service portal for efficient management and inspection of maintenance and repair work on your system.

The comprehensive history of all maintenance and repair work can be retrieved at the touch of a button 24 hours a day and this allows you to carry out preemptive maintenance planning. The WAMAS Maintenance Center optimizes the implementation of maintenance activities, documents maintenance work, significantly improving maintenance efficiency in the process, and guarantees the availability of your system.



Advantages at a glance

- Paperless workflows and electronic documentation of maintenance activities
- Permanent availability of technical documentation, such as maintenance instructions
- A constant overview of your system's maintenance history
- Preventive avoidance of problems thanks to long-term analysis of the gathered data
- Predictive maintenance planning and optimization
- Detailed lists of maintenance tasks for each component in the system
- Effective structuring of maintenance visits
- List of spare parts used and convenient reordering via our web shop in the service portal



Shelving Systems

Wide Span Racks

Pallet Racks

Cantilever Racks

On-Line Shelving/
Live Storage Racks

System Platforms

Dynamic Storage

Automated
Logistics Solutions

Logistics Systems

Customer
Service & Support

Software

Mandatory Annual Inspection for Storage Facilities



Standard DIN EN 15635 "Application and maintenance of storage equipment" governs the scope and procedure for inspecting storage facilities. SSI SCHAEFER's own officially certified rack system inspectors have the technical expertise necessary to carry out qualified, expert inspections. The annual inspections consist of visual inspections carried out during operation. The results are documented and indicated by an inspection badge. If repairs are required, the replacement is carried out quickly and by a qualified employee. We only use original parts and it goes without saying that we also carry out the installation of these parts ourselves.



Inspektionsprotokoll
Sichtprüfung nach den Verbandsvorgaben

1. Sichtprüfung	VL	HT/VL	VL	HT/VL
2. Schrauben gegen Drehen	0	0	0	0
3. Ankerbolzen	0	0	0	0
4. Montagearbeiten	0	0	0	0
5. Montagearbeiten	0	0	0	0
6. Montagearbeiten	0	0	0	0
7. Montagearbeiten	0	0	0	0
8. Montagearbeiten	0	0	0	0
9. Montagearbeiten	0	0	0	0
10. Montagearbeiten	0	0	0	0
11. Montagearbeiten	0	0	0	0
12. Montagearbeiten	0	0	0	0
13. Montagearbeiten	0	0	0	0
14. Montagearbeiten	0	0	0	0
15. Montagearbeiten	0	0	0	0
16. Montagearbeiten	0	0	0	0
17. Montagearbeiten	0	0	0	0
18. Montagearbeiten	0	0	0	0
19. Montagearbeiten	0	0	0	0
20. Montagearbeiten	0	0	0	0
21. Montagearbeiten	0	0	0	0
22. Montagearbeiten	0	0	0	0
23. Montagearbeiten	0	0	0	0
24. Montagearbeiten	0	0	0	0

Manual and automated racks require inspection

Rack systems that require inspection include the following:

- Shelving systems
- Pallet racks
- Drive-in racks
- Drive-through racks
- Cantilever racks
- Flow racks
- Small parts warehouses
- Multi-tier facilities
- Mobile racks
- Channel storage systems





Shelving Systems

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Customer
Service & Support

Software

Software Solutions: the Driving Force for Consistently Synchronized Processes

Why is intelligent logistics software crucial to your success? It's simple: Only when internal flows of goods and materials are displayed and processed transparently can your warehouse processes be configured optimally.

Software is the main factor in reducing the complexity of your supply chain and optimizing warehouse performance. Cycle times can then be reduced, and operations can be carried out more economically overall. Clearly, efficient warehouse logistics, whether automated or manual, is only possible if the right software is used.

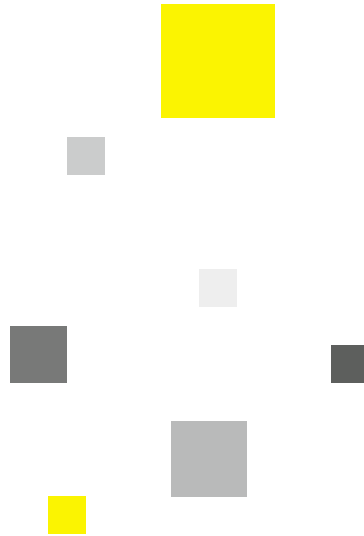




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Software

Customized Software Modules for Diverse Uses



With our standardized software solutions, all logistics processes and functions of your warehouse can be planned, controlled and optimized professionally.

We offer you exactly the right modules to fit the specific requirements for the operation of your warehouse. And because we always keep your entire company in mind, our systems can also be seamlessly integrated into the higher-level system landscape. After all, warehouses and distribution centers can only be managed successfully if all aspects of logistics are running efficiently.

We offer powerful software for warehouse management, control and optimization of the flow of goods and information at the highest level. The agile software solutions from SSI SCHAEFER link individual application components to form a coherent overall system. This is how we unleash the full performance potential of your system.



WAMAS logistics software

The in-house software WAMAS guarantees intelligent solutions for the challenges you face today and in the future. WAMAS encompasses around 30 years of expertise in the development and implementation of sustainable and scalable intralogistics solutions. The logistics software can be seamlessly integrated into ERP systems, creating the perfect prerequisites for efficient control of all the logistics processes - from customer order to the PLC and mobile end devices in manual sections. The software grows with your requirements, supporting your company through any and all expansions.

Proven SAP expertise

As a system provider, we are your trusted partner for the selection, implementation, ongoing maintenance and further development of SAP logistics solutions. Our broad range of consulting and implementation expertise is reflected in numerous international projects.

WAMAS advantages

■ Stability through standardization

We offer the highest software standards and seamless adaptation to your warehouse processes thanks to a multitude of configurations.

■ Seamless vertical integration

WAMAS can be directly connected to the customer's existing systems, thus enabling efficient overall logistics control.

■ Future-proof

WAMAS grows with your requirements and is fully scalable to meet almost any growth in logistics volume. We protect your software investment through scalability and flexibility.

WAMAS® Portfolio

Manage

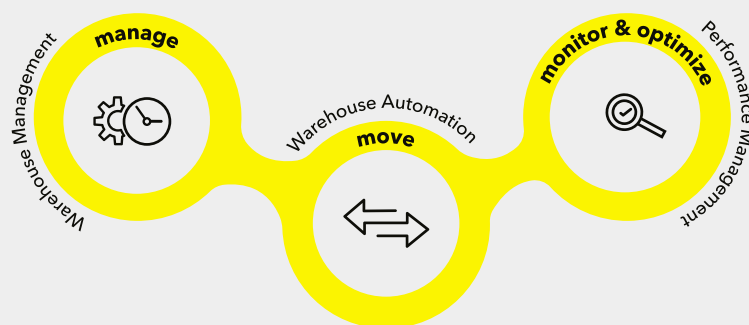
The state-of-the-art software controls and optimizes manual or highly complex automated processes based on the current daily orders.

Move

Whether forklift transport, conveying systems, shuttles or AGVs - WAMAS integrates all components into a high-performance overall system.

Monitor

The central information platform WAMAS Control Center provides insights into warehouse operations in real time and constantly shows potential areas for improvement.



Our value proposition: 360-degree services, worldwide

Our most important interface - is the one with you. From the first consultation to the go-live and beyond - with over 1,000 IT experts, SSI SCHAEFER offers bundled software expertise for your intralogistics worldwide.

As a reliable partner, we speak your language and support you throughout the entire life cycle of your system through direct, one-on-one collaboration as partners.

With a comprehensive service portfolio ranging from support for the mechatronics and the software solution to the entire preventive maintenance of your logistics on site. For maximum availability of all systems, short response times and long-term support for your company's growth. You can rely on us.



Prepared for the Future

Think Tomorrow.

More and more companies from around the world are turning to SSI SCHAEFER to make their intralogistics operations more efficient and future-proof. System solutions tailored to your needs to meet the requirements of today and the challenges of tomorrow - all from a single source with concentrated IT competence. Developed by specialists from around the world, who listen to you and are only happy once you are happy.

Seven Reasons for choosing SSI SCHAEFER

■ **Stability**

As a financially independent family business, SSI SCHAEFER is committed to long-term solutions. You can trust that our team of experts will be there for you today, tomorrow and in years to come.

■ **Efficiency**

SSI SCHAEFER solutions are scalable and able to grow with your business. You can always upgrade or retrofit.

■ **Quality**

As a systems specialist with its own production facility and software development department, SSI SCHAEFER provides tailor-made and high-quality solutions from a single source, specifically designed to meet your challenges.

■ **Reliability**

Thanks to our worldwide Customer Service & Support network, SSI SCHAEFER ensures smooth operation of your system long term, both during and even long after installation.

■ **Know-how**

SSI SCHAEFER solutions are always up-to-date with the latest technological standards and can be easily integrated into an existing (IT) landscape.

■ **Sustainability**

As a global intralogistics provider, SSI SCHAEFER is committed to sustainable, efficient and future-proof solutions. The company therefore contributes to the goals for sustainable development set by the United Nations.

■ **Internationality**

As a global organization, SSI SCHAEFER has local offices worldwide. With over 80 operative subsidiaries, our team of experts speak your language.

[ssi-schaefer.com](https://www.ssi-schaefer.com)