

Smart Storing Magazine

A MAGAZINE WITH A CURRENT RANGE OF SMART STORAGE SOLUTIONS



“ Smart solutions for lower storage costs, faster picking and a better working environment

**Smart
Storing**

www.smarstoring.eu

Edition 3

Smart solutions for lower storage costs, faster picking and a better working environment. Many companies lose a lot of time and money by not storing and pick materials in an efficient and ergonomic manner. In order to counteract this waste, we manufacture and market flexible material handling solutions emphasis on products with extendable shelves. Sales take place through our Europe-wide network of resellers and business partners



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Contact us, we'll help you to find the best solution!

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NEWS!

Smart Storing

 **EPU**
Ergonomic Electric Pull out Unit

Electric Ergonomic Power Unit is an electrical drive for pull-out units.

Read more at page 16

Smart Storing

 **CSU**
Electric Compact Storage Unit

Electric Compact Storage Unit

Unit is an electrical driven Compact storage unit

Read more at page 32

Pallet collar kit

for beam-mounted and floor-mounted units.

Read more at page 14 and 21

Work surface

New slimmed design for Compact storage unit

Read more at page 28

Stacking corners

New design in zink plated steel

Read more at page 56

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Key to symbols



Information



Tip



Take note!



Ergonomic choice



Load capacity



Shelf extension



Two-way action



Width (mm)



Depth (mm)



Height (mm)



Design, function



Pallet size

Smart Storing

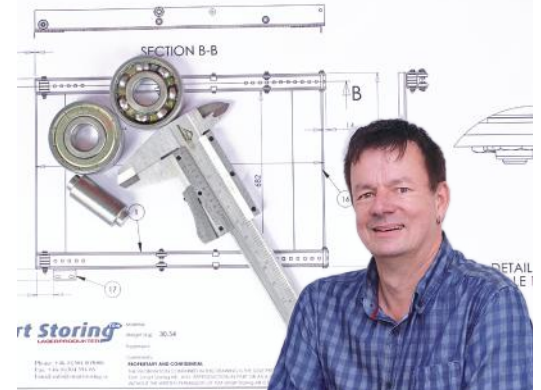
Our roots

The company name 'Smart Storing' was only adopted in 2006, but the business it grew from has deep roots, having been founded back in 1986 by the present owner and Managing Director Kjell Johansson. It was at Volvo Trucks in the early 1990s that Kjell won a major contract to **rationalise and improve in-factory storage systems**, which gave him the inspiration to specialise in this area. He immediately saw three significant openings in the market for an engineering company with smart solutions: the need for **more compact storage of materials, faster picking operations** and **better ergonomics in the workplace**. Swedish manufacturing industry has a well deserved reputation for uncompromising engineering and production values. We accept **only the best quality** materials, and we like to think that **Swedish steel is the very best!** We don't believe in making things to wear out and be thrown away – we make things to **work properly** and **to last**. This is where Smart Storing comes from – a **craftsman's** understanding of materials, an **engineer's** grasp of design and efficiency and an **innovator's** ability to find new solutions for modern industry.



Design and Engineering

Design and engineering are fundamental to our business success. Naturally we use a 3D CAD system in our design work – not just for our own ease, but so that we can share accurately drawn scale plans and clear computer-generated images with our clients during the offer process, and they can see exactly what they will be getting.



Production

All items in our range are manufactured in our factory in Sweden using carefully selected materials. Our process workers are fully trained in their specialist areas, but there is also a culture of shared responsibility when it comes to quality control and improving production methods. For us that includes open communication between shop floor and management, while for you it means that you get a product made by a well motivated workforce who are proud to stand by their work.

At Smart Storing we use the best techniques for the job and continually update our production line as required. For repetitive series production we have CNC stamping machines, automated metal presses and robot welders. For one-offs, prototypes and low volume ranges we have the skilled manual labour to do the job entirely by hand. This **combination of craftsmanship and automation** allows us to be **flexible, competitive and fast** whether it's a big or a small job.

Why to choose Smart Storing

Quality, safety and customer service are key concepts for us, and are prioritised by the whole company. We have a policy of continuous improvement in all areas of the business so that we will remain the clear number one choice for our customers and partners. Our ambition is to offer you technical solutions to meet your needs for lower storage costs, faster turnover and a better working environment.

Smart Storing has:

- ✓ The biggest range of pull-out units on the market
- ✓ Over 25 years' experience of manufacturing equipment for materials handling
- ✓ Well-trained production staff who share the responsibility for quality and efficiency
- ✓ In-house fabrication and production which makes it easier to develop tailor-made solutions for your particular needs
- ✓ Sales team with long experience of working on large materials handling projects



LECK IS PROUD:
"The weld joints contribute to our products can withstand high loads"

Growing across Europe

READY TO USE!

Most products are shipped fully assembled. In some cases, projecting items such as handles make the item hard to pack effectively so these are delivered loose with full instructions for self-assembly. That also means we can charge our customers less for delivery.

Packing

Few things are more annoying than receiving damaged goods. We take a pride in packing our products so they arrive without defects. For pull-out units we use Euro pallets, put wooden spacers between each unit, lock the units in place with steel straps, add corner protection, wrap them in corrugated fibreboard and add a final protective layer of plastic stretch film.

Delivery

We're happy to arrange delivery direct to your premises. You can also choose your own carrier or arrange collection from the factory yourselves if you prefer. If we do the job for you, we calculate the volumes and make all arrangements with the carriers, and take out the correct insurance on your behalf.

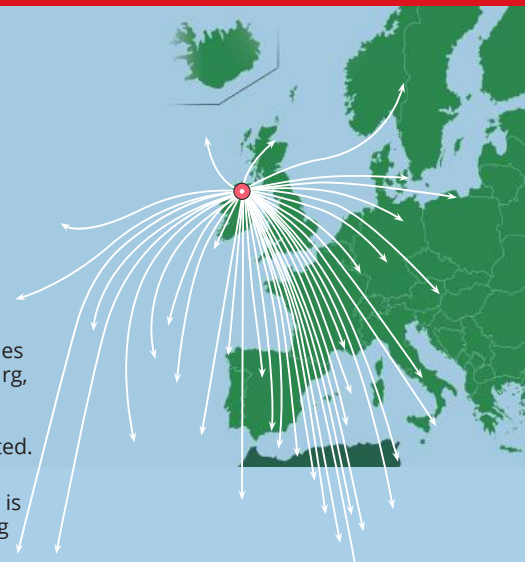


It's no use having a fantastic product range if nobody knows about it. **We depend on our Europe-wide network of resellers and business partners** to get our storage systems out into the market-place. (And we're not stopping with Europe: Smart Storing products are already in use in Mexico, China, Russia and the USA.

Our resellers come in all shapes and sizes, some specialize in ergonomics, some in materials handling, some in storage, some in manufacturing, but all are experts in their fields.

Smart Storing is based on the island of Orust, which lies an hour north of Gothenburg, Sweden's second city and industrial heartland where our sales office is also located.

The island was a historical centre for shipbuilding and is still home to several leading manufacturers of sailing yachts, so there is a proud tradition of craftsmanship and bespoke design work here.



Tailor-made products

Meeting our customers' needs

At Smart Storing, we don't just buy in other peoples' products. We design and manufacture ourselves. Through us, you have access to all aspects of the production process. So why not talk to us about how to turn your dream storage solutions into reality?

Here we show a few examples of what we have done for other clients. These products did not exist before the clients called us and asked what we could do. Now, several of them are part of our standard range - and are helping other businesses to be more efficient and profitable as well!



SPECIAL SIZES: Standard units can be manufactured for you in non-standard sizes



Paint store with mesh shelves to allow sprinkler water through in case of fire



Pull-out shelf with high front retaining grid



Big pull-out units in a rack

SPECIAL CLADDING: Standard units can be fitted with exterior cladding



Compact Storage Units with steel cladding. See page 32 for more information



Pull-out units with stainless steel drawer fronts



Upright-mounted drawers for long rubber profilers

SPECIAL FUNCTIONS: Standard units can have complementary products fitted for particular purposes



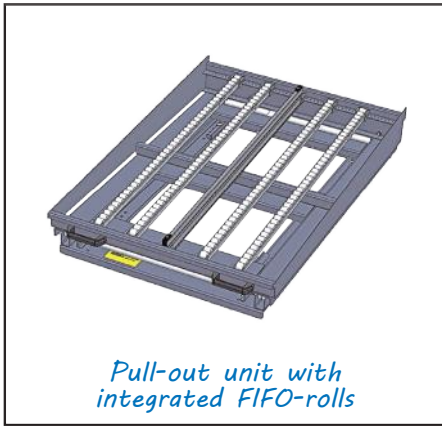
Pull-out shelf with full height backstop to stop articles falling off the back



Specially adapted CSU for trolley trains



Heavy duty pull-out shelf for sheet material standing on edge



Pull-out unit with integrated FIFO-rolls



Beam-mounted unit with rollers for two Euro half-pallet



Pipe storage on Beam-mounted Units, with retaining stops

INTEGRATED SYSTEMS: Standard units can be combined with other equipment



Combination storage unit for automotive factory assembly station



'Bookcase' shelving mounted on pull-out units



Upright-mounted units



Compact Storage Units with integrated lifting equipment



Storage system for lean production

SAFETY IS NO ACCIDENT

It's all about space!

Smart Storing



*Our most requested special order?
Colours other than the standard blue and grey!*

Beam-mounted pull-out units



Our pull-out units are supplied ready assembled and fully tested. They're made in our own factory on Orust, which means we have full control over quality and construction.

Features

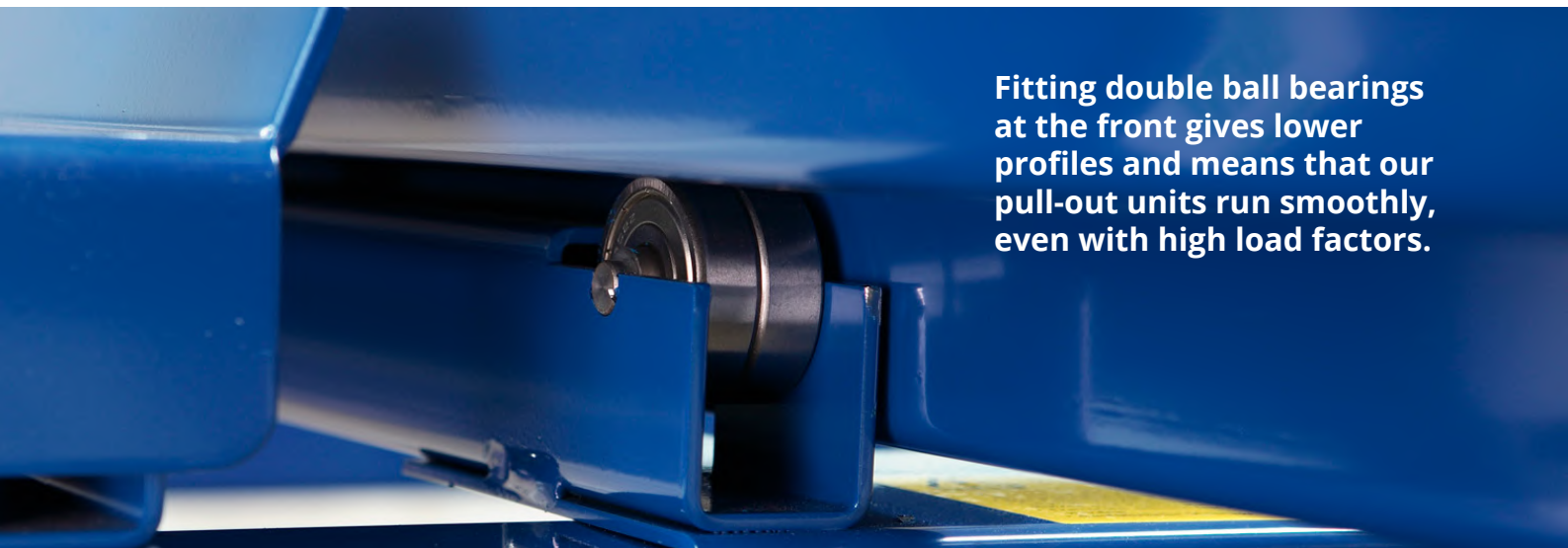
- ✓ Up to 100% extension when pulled out two-way action is also possible (70%)
- ✓ Unit locks when pushed back into the rack
- ✓ Handles, back-stops and other accessories available
- ✓ Easy to install – simply secure to the cross-beams using 4 bolts
- ✓ Maximum loading capacities from 200kg to 1500kg per unit
- ✓ Use as 'open frames' for pallets, or with steel shelves for handling cartons, bins or loose items
- ✓ BM units are compatible with almost any type of pallet racking on the market. They can be fitted to your existing beams

For more information
www.smartstoring.eu

Beam-mounted (BM) units are mounted on the cross-beams between the pallet racking uprights. The lower frame of the pull-out unit is bolted to the beams and the upper frame slides out carrying the pallet with it.

Pallets may be loaded directly onto the units, but other options allow for storage on open shelving, in plastic bins and in cartons. Being able to pull the units out of the rack allows for safe and easy access to stored items!

BM units are available in a range of capacities up to 1500kg and in a variety of formats to suit your requirements. They can cater for all pallet sizes and types (wood, steel, plastic), front or rear loading at the pallet rack, short or long-side handling, as well as for pallet collars with dividers, containers, bins and loose storage. The base frame BM unit is for pallets.



Fitting double ball bearings at the front gives lower profiles and means that our pull-out units run smoothly, even with high load factors.

Here are the options to choose from when ordering BM units:

If you don't find the article number on the following pages, the item is not in our standard range - please get in touch for more information.

1. Load capacity



Check the actual weights of your palletised goods in order to choose the right load capacity. The load capacities stated presume evenly distributed loads.

2. Pallet size and orientation

2a First decide what size pallets you are using and which side you will handle them with fork lifters, as well as if you want Heavy Metal Units (HMUs) - see table on right. This decides the frame.

2b Pull-out units also come with another basic option: front-loading or rear-loading. If you have pallet racks back-to-back in a double row, or up against a wall, you need front-loaded units for sure. But if you have single rows, there is the option of loading from the back and picking from the front, to separate pickers from fork lifters or truck traffic. Then you want rear-loaded units. There are slight technical differences between the two systems so you do need to specify which models you want - see table below.

EUR
Short-side handling
800mm x 1200mm (WxL)

FIN, CHEP and Ind.
Short-side handling
1000mm x 1200mm (WxL)

HMU
Short-side handling
800mm x 1200mm (WxL)

EUR L
Long-side handling
1200mm x 800mm (LxW)

FIN, CHEP and Ind. L
Long-side handling
1200mm x 1000mm (LxW)

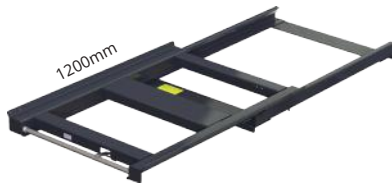
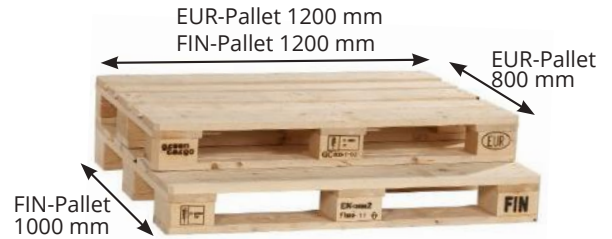
HMU-L
Long-side handling
1200mm x 800mm (LxW)



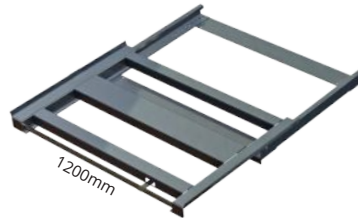
Gitterboxes are a type of wire mesh container used for both storage and work-in-progress operations. Heavy Metal Unit: features steel corner plates with raised edges, both to ensure the containers stay in place and to strengthen the unit to accept point loads at the corners.



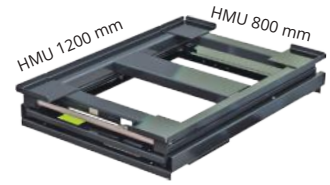
Gitterbox



Short-side handled pull-out unit



Long-side handled pull-out unit



Short-side handled pull-out unit HMU

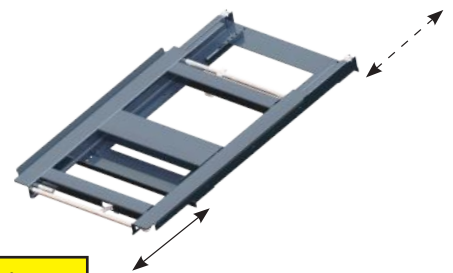
3. Pull-out extension

The choice of 70% or 100% extension capacity depends mainly on whether or not it's easy to pick your items from the back of the unit. The choice of one- or two-way action depends on whether you want to load and pick from one side only or to have equal access from both sides.

70% extension
For most applications, 70% extension gives sufficient access to all your goods

100% extension
If you have small items at the back of the shelf or if you need to use an overhead crane for loading and picking, 100% extension makes life much easier!

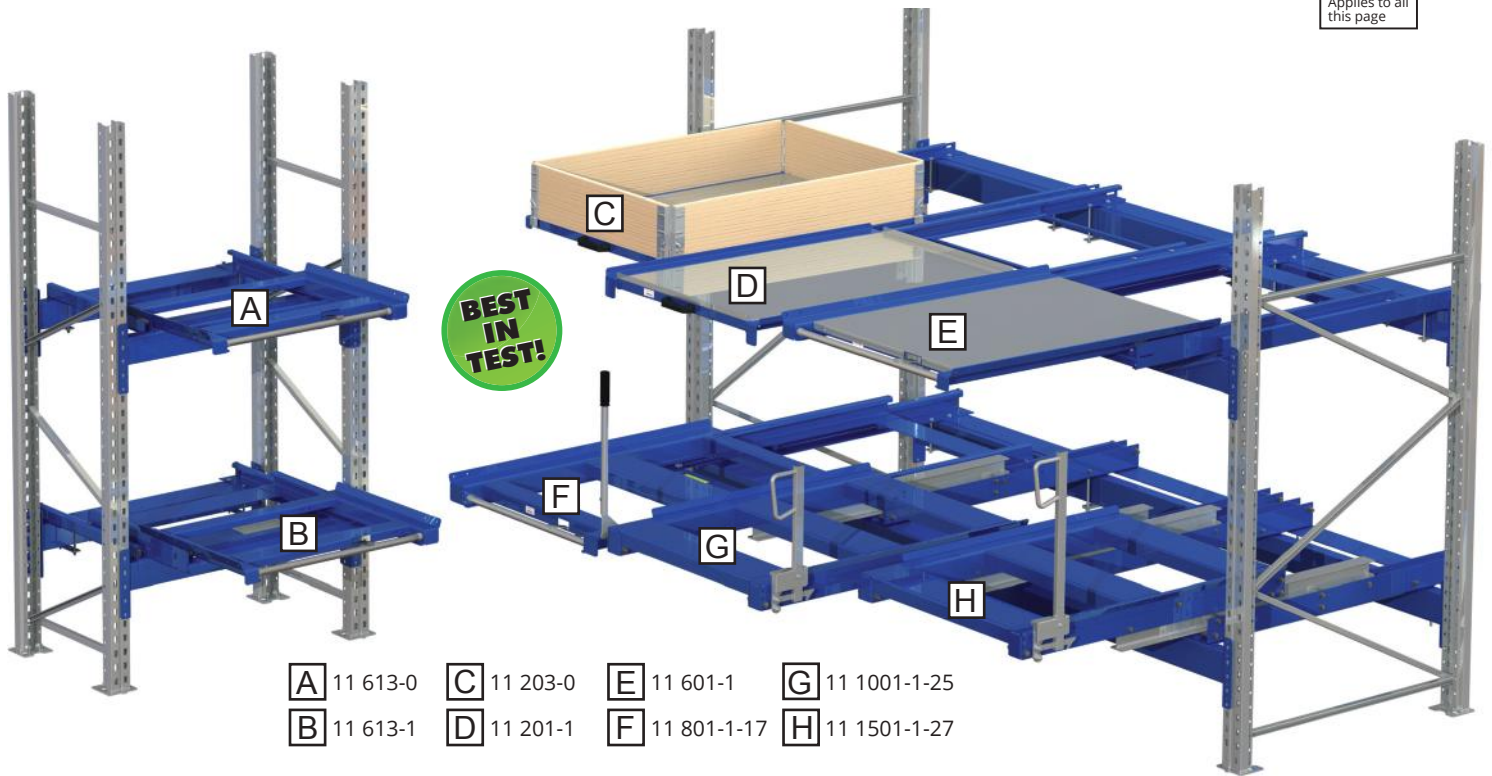
70% extension, two-way action
With shelves that can be pulled out in either direction, you have the possibility of operators at separate work positions accessing the same stores, or at an assembly station one side can be used for picking and the other for restocking.



This is how to find the Article Number for your BM units

This example has Article No. 11-307-1 and can be found on the next page.

Group	1 Choose load capacity		2 Choose pallet size and orientation				3 Choose extension
	Nr	Pallvikt	No.	Pallet	Handling	Nr	
11-	(2)	200 kg	(01)	EUR	Front-loaded, short-side handling	(07)	FIN-L Front-loaded, long-side handling
	(3)	300 kg	(02)	EUR	Rear-loaded, short-side handling	(08)	FIN-L Rear-loaded, long-side handling
	(6)	600 kg	(03)	FIN	Front-loaded, short-side handling	(09)	HMU Front-loaded, short-side handling
	(8)	800 kg	(04)	FIN	Rear-loaded, short-side handling	(10)	HMU Rear-loaded, short-side handling
	(10)	1000 kg	(05)	EUR-L	Front-loaded, long-side handling	(11)	HMU-L Front-loaded, long-side handling
	(12)	1200 kg	(06)	EUR-L	Rear-loaded, long-side handling	(12)	HMU-L Rear-loaded, long-side handling
(15)	1500 kg						
11-	3				07	-1	
BM	300 kg		For FIN, CHEP and industrial-pallet, front-loaded, long-side handling				100%



- [A] 11 613-0
- [C] 11 203-0
- [E] 11 601-1
- [G] 11 1001-1-25
- [B] 11 613-1
- [D] 11 201-1
- [F] 11 801-1-17
- [H] 11 1501-1-27



Design & function

The load area's design makes the pallet's weight evenly distributed over the surface. The construction gives minimal deflection in the extended position. Double row ball-bearings give a low build height of only 69mm. This allows the unit to run smoothly even at maximum load. Unit locks when pushed back into the rack. The wide, powerful center profile makes it possible to load two half-pallets one after the other. BM units are compatible with almost any type of pallet racking on the market. They can be fitted to your existing beams.



Load capacity

BM units are available in a range of capacities up to 1500kg and in a variety of formats to suit your requirements.



70 % extension

Units with 70 % pull-out extension have normally 84 cm pull-out capacity and gives sufficient access to your goods.

100 % extension

100% extension gives you maximum overview and access to the whole pallet.

Two-way extension

When picking goods from both sides of a pallet rack, a two-way action unit is a good alternative.



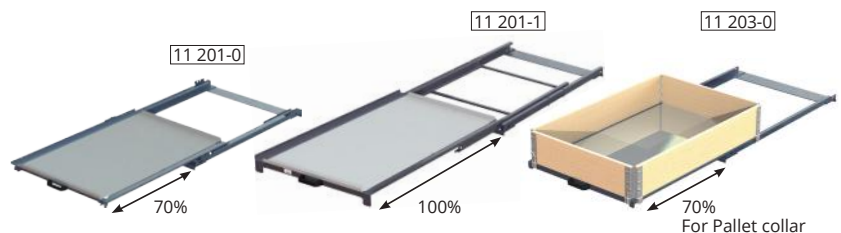
Half-pallet

Beam-mounted pull-out units for half-pallet that has 300kg or 600kg load capacity and with an extraction capacity of 70% or 100%. Fits well in pallet rack with 500mm to 600mm depth.

Units for manual handling

The loading surface consists of a **galvanised steel sheet** with raised edges, perfect for Euro crates, boxes, tools etc.

11 203-0 This model is only for placing a pallet collar directly on the unit - it has a flat surface with no edges. The pallet collar serves as a powerful and affordable frame that is possible to compartmentalized by dividers. Unit locks when pushed back into the rack.



Pallet size					
		200 kg, 70%	200 kg, 100%	200 kg, 70%	
EUR	Front-loaded BM unit, short-side handling	11-201-0	11-201-1	11-201-2	
EUR	Rear-loaded BM unit for EUR pallet, short-side handling	11-205-0	11-205-1		
EUR	Front-loaded BM unit, short-side handling for Pallet collar	11-203-0			



11-601-0 has been our top seller ever since it was first introduced 20 years ago!



Units 70% extension

Pallet size	Loading & handling									
		300 kg	600 kg	800 kg	1000 kg	1200 kg	1500 kg	600 kg	800 kg	
EUR	Front-loaded BM unit for EUR pallet, short-side handling	11-301-0	11-601-0	11-801-0	11-1001-0	11-1201-0	11-1501-0	11-601-2	11-801-2	
EUR	Rear-loaded BM unit for EUR pallet, short-side handling	11-302-0	11-602-0	11-802-0	11-1002-0	11-1202-0	11-1502-0			
EUR-L	Front-loaded BM unit for EUR pallet, long-side handling		11-605-0	11-805-0	11-1005-0					
EUR-L	Rear-loaded BM unit for EUR pallet, long-side handling		11-606-0	11-806-0	11-1006-0					
FIN	Front-loaded BM unit for FIN pallet, short-side handling		11-603-0	11-803-0	11-1003-0	11-1203-0	11-1503-0	11-603-2	11-803-2	
FIN	Rear-loaded BM unit for FIN pallet, long-side handling		11-604-0	11-804-0	11-1004-0	11-1204-0	11-1504-0			
FIN-L	Front-loaded BM unit for FIN pallet, long-side handling		11-607-0	11-807-0	11-1007-0					
FIN-L	Rear-loaded BM unit for FIN pallet, long-side handling		11-608-0	11-808-0	11-1008-0					
HMU	Front-loaded BM unit for HMU (Gitterbox) short-side handling			11-809-0	11-1009-0	11-1209-0	11-1509-0		11-609-2	
HMU	Rear-loaded BM unit for HMU (Gitterbox) short-side handling			11-810-0	11-1010-0	11-1210-0	11-1510-0			
HMU-L	Front-loaded BM unit for HMU (Gitterbox) long-side handling			11-811-0	11-1011-0	11-1211-0	11-1511-0			
HMU-L	Rear-loaded BM unit for HMU (Gitterbox), long-side handling			11-812-0	11-1012-0	11-1212-0	11-1512-0			
Halvpall	Front-loaded BM unit for EUR- 1/2 pallet	11-313-0	11-613-0							



Units 100% extension

Pallet size	Loading & handling				
		300 kg	600 kg	800 kg	1000 kg
EUR	Front-loaded BM unit for EUR pallet, short-side handling	11-301-1	11-601-1	11-801-1	11-1001-1
EUR	Rear-loaded BM unit for EUR pallet, short-side handling	11-302-1	11-602-1	11-802-1	11-1002-1
EUR-L	Front-loaded BM unit for EUR pallet, long-side handling	11-305-1	11-605-1	11-805-1	11-1005-1
EUR-L	Rear-loaded BM unit for EUR pallet, long-side handling	11-306-1	11-606-1	11-806-1	11-1006-1
FIN	Front-loaded BM unit for FIN pallet, short-side handling	11-303-1	11-603-1	11-803-1	11-1003-1
FIN	Rear-loaded BM unit for FIN pallet, long-side handling	11-304-1	11-604-1	11-804-1	11-1004-1
FIN-L	Front-loaded BM unit for FIN pallet, long-side handling	11-307-1	11-607-1	11-807-1	11-1007-1
FIN-L	Rear-loaded BM unit for FIN pallet, long-side handling	11-308-1	11-608-1	11-808-1	11-1008-1
HMU	Front-loaded BM unit for HMU (Gitterbox) short-side handling			11-809-1	11-1009-1
HMU	Rear-loaded BM unit for HMU (Gitterbox) short-side handling			11-810-1	11-1010-1
HMU-L	Front-loaded BM unit for HMU (Gitterbox) long-side handling			11-811-1	11-1011-1
HMU-L	Rear-loaded BM unit for HMU (Gitterbox), long-side handling			11-812-1	11-1012-1
Halvpall	Front-loaded BM unit for EUR- 1/2 pallet	11-313-1	11-613-1		

i
For articles highlighted in yellow, all components are kept in stock, which means short delivery times at a fixed price

Side handles for beam-mounted units

Side handles are recommended for BM pull-out units when they are fitted in the lower and mid-range of picking heights, to save bending. Two types are available, Standard and Easy Action™ (EA). Both types of handle are available in a range of lengths.

Easy Action™ (EA) handles

use a lever mechanism mounted on ball-bearings to greatly increase the operator's mechanical advantage. They make it effortless to slide out even a heavily loaded unit. With EA handles, the safety lock is released automatically when you operate the handle. Supplied ready fitted to the chosen unit.



If you choose 1000 kg, 100% or 1500 kg, 70% extension you must also choose a handle!

Easy Action™-handle



Article no.	Specification
11-23	Easy Action™-handle, h = 330 mm
11-25	Easy Action™-handle, h = 500 mm
11-27	Easy Action™-handle, h = 700 mm
11-29	Easy Action™-handle, h = 900 mm

Standard handles

are simply something to pull on, ideal when a unit is fitted on the bottom two tiers of the racking. Suitable for all units below 1000kg rating. Supplied separately for fitting by customer.

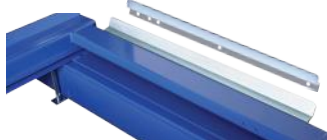


Handle accessories

Article no.	Specification
11-12	Standard handle, h = 200 mm only fits 1000 kg, 100% and 1500 kg, 70%
11-13	Standard handle, h = 330 mm
11-15	Standard handle, h = 500 mm
11-17	Standard handle, h = 700 mm
11-19	Standard handle, h = 900 mm

Rear pallet stop

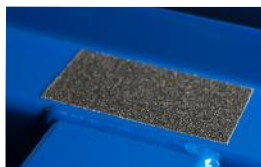
An angle profile which can be fitted to the back of the unit to stop the pallet sliding too far back when the unit is pushed in. Supplied ready fitted to unit.



Article no.	Specification
11-001-00	Length 600mm, height of edge 30mm

Anti-skid tape

4 pieces of self-adhesive anti-skid tape, to be stuck to each corner to stop the pallet moving around when empty or very lightly loaded.



Article no.	Specification
11-002-0	4pcs, 100mm x 50mm

Warning tape

Safety measure so people don't walk or drive trucks into a unit when it's pulled out.



Article no.	Specification
11-002-1	H = 30 mm

Tips!

Make your Beam-mounted unit into a floor mounted unit

BM units can also be fitted directly to the floor, either by bolting them directly (ideal for loading with a fork lifter) or by mounting them on our accessory feet. Feet are better when using pallet stackers, so that the wheels of the stacker can pass underneath the unit. They also raise the load off the floor, which usually makes life easier for your pickers. What's more, raising the unit up a bit means that any small debris on the floor won't get in the way of the unit sliding out, and it's easier to sweep underneath as well. Available with units up to 1000kg. If you don't need so much clearance off the floor then our simpler Floor mounting profiles are a good solution. These can also be used with higher loads - up to 1500kg.!

Feet for BM unit

for mounting BM units off the floor. Two sizes, for up to 800kg units and up to 1000kg units. Height 150mm, galvanized steel.

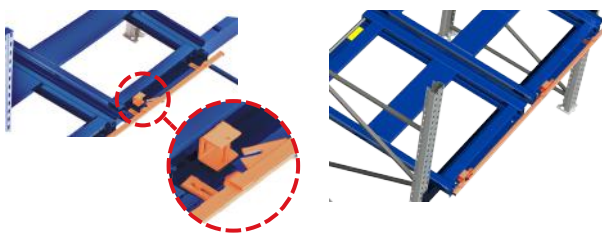
Foot-operated lock release catch

Recommended for units installed close to floor level.

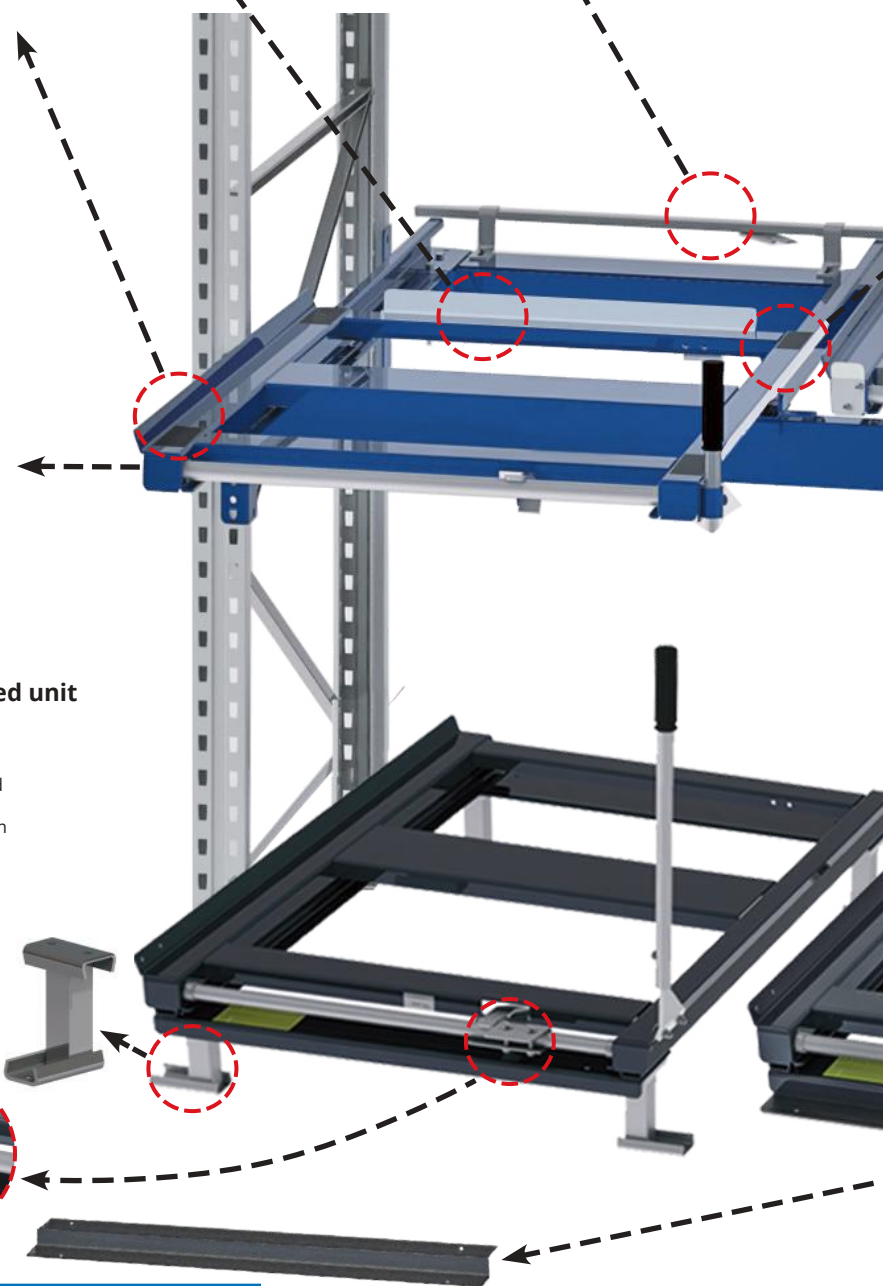
Floor mounting profiles

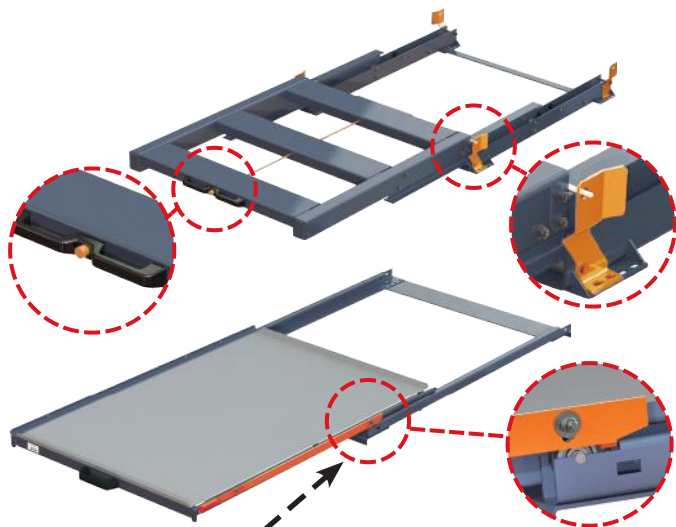
For mounting BM units close to the floor. Three versions, for short-side and long-side forward handling up to 1000kg, and for short-side handling up to 1500kg. Height 35mm, galvanized steel.

Article no.	Specification
12-150-08	Includes 4 pcs feet H=150mm, mounting kit, max 800kg
12-150-10	Includes 4 pcs feet H=150mm, mounting kit, max 1000kg
12-035-10S	Includes 2 floor profiles H=35mm, for short-side handled unit, max 1000kg
12-035-10L	Includes 2 floor profiles H=35mm, for long-side handled unit, max 1000kg
12-035-15S	Includes 2 floor profiles H=35mm, for short-side handled unit, max 1500kg
11-013-00	Foot-pedal for beam-mounted units, one pedal with mounting kit



A pull-out unit locking system avoids the danger of the cross-beam being overloaded. The lock is available for two, three or four pallet-width bays and locks one section at the time. When one unit is pulled out, the others are locked. Normally this lock is placed at the back. We also have a lock that is placed under the unit; this is typically used when there isn't enough room behind, for example if you have double pallet racks, or if you load from the rear. See page 14.





Lock in extended position

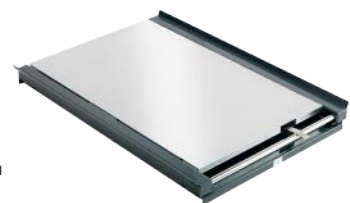
Sometimes you want to lock the unit when it's pulled out, for example while picking or loading goods. This lock is also useful with narrow aisles, so that when the unit is fully pulled out you can load a pallet from the side.

Article no.	Specification Lastningslås (lås i utdraget läge)
11-004-0270	Fits BM unit 200kg, 70%, incl. 3 metal parts, with mounting kit
11-004-0370	Fits BM unit 300kg, 70%, incl. 3 metal parts, with mounting kit
11-004-0670	Fits BM unit 600kg, 70%, incl. 3 metal parts, with mounting kit
11-004-0870	Fits BM unit 800kg, 70%, incl. 3 metal parts, with mounting kit
11-004-1070	Fits BM unit 1000kg, 70%, incl. 4 metal parts, locking handle, with mounting kit
11-004-02100	Fits BM unit 200kg, 100%, incl. 3 metal parts, with mounting kit
11-004-03100	Fits BM unit 300kg, 100%, incl. 3 metal parts, with mounting kit
11-004-06100	Fits BM unit 600kg, 100%, incl. 3 metal parts, with mounting kit
11-004-08100	Fits BM unit 800kg, 100%, incl. 3 metal parts, with mounting kit
11-004-10100	Fits BM unit 1000kg, 100%, incl. 4 metal parts, locking handle, with mounting kit



Steel shelf panel

This accessory covers the top of the pull-out unit so that smaller items such as plastic bins or cartons can't slip through. You can still use the unit for pallets, so you have fully flexible storage. Material: Galvanized mild steel



Article no.	Specification
11-160-0	Fits all BM units 300kg and 600kg, short-side forwards
11-160-3	Fits BM unit 600kg, two-way action, short-side forwards
11-160-6	Fits all BM units 300kg and 600kg, long-side forwards
11-180-0	Fits all BM units 800kg and 1000kg, 70%, short-side forwards
11-180-6	Fits all BM units 800kg and 1000kg, 70%, long-side forwards

Front pallet stop

A pair of steel plates for mounting either side of the unit at the front, acts as a safety stop when loading a pallet from the rear.



Article no.	Specification
11-001-40	2pcs with mounting kit

Handles for beam-mounted units

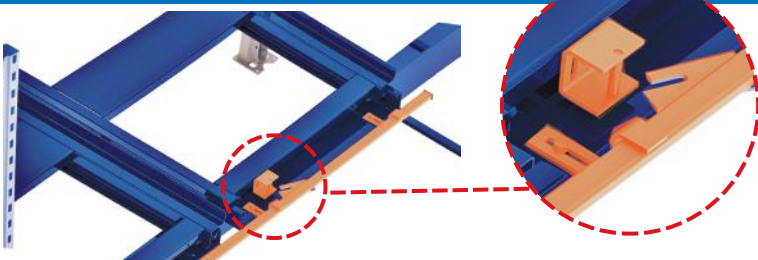
The units have integrated horizontal locking handles. Side handles are recommended for BM pull-out units when they are fitted in the lower and mid-range of picking heights, to save bending. Two types are available, Standard and Easy Action™ (EA). Both types of handle are available in a range of lengths.

Standard handles are simply something to pull on, ideal when a unit is fitted on the bottom two tiers of the racking. Suitable for all units below 1000kg rating. Supplied separately for fitting by customer.

Easy Action™ (EA) handles use a lever mechanism mounted on ball-bearings to greatly increase the operator's mechanical advantage. They make it effortless to slide out even a heavily loaded unit. Comes complete mounted on selected unit.

Article no.	Specification
11-13	Standard handle, h = 330 mm
11-15	Standard handle, h = 500 mm
11-17	Standard handle, h = 700 mm
11-19	Standard handle, h = 900 mm
11-23	Easy Action™ handle, h = 330 mm
11-25	Easy Action™ handle, h = 500 mm
11-27	Easy Action™ handle, h = 700 mm
11-29	Easy Action™ handle, h = 900 mm

Accessories for Beam-mounted units



The details are important. This photo shows a set of pull-out units receiving the finishing touches at the Smart Storing factory in Sweden.

A **pull-out unit locking system** avoids the danger of the cross-beam being overloaded. The lock is available for two, three or four pallet-width bays and locks one section at the time. When one unit is pulled out, the others are locked. Normally this lock is placed at the back. We also have a lock that is placed under the unit; this is typically used when there isn't enough room behind, for example if you have double pallet racks, or if you load from the rear.

Article no.	Locking system for pallet bays fitted at the back with:
11-2K-0670	2 adjacent BM units, 600kg-70%, fitted at the back
11-2K-0870	2 adjacent BM units, 800kg-70%, fitted at the back
11-2K-1070	2 adjacent BM units, 1000kg-70%, fitted at the back
11-2K-06100	2 adjacent BM units, 600kg-100%, fitted at the back
11-2K-08100	2 adjacent BM units, 800kg-100%, fitted at the back
11-2K-10100	2 adjacent BM units, 1000kg-100%, fitted at the back
11-3K-0670	3 adjacent BM units, 600kg-70%, fitted at the back
11-3K-0870	3 adjacent BM units, 800kg-70%, fitted at the back
11-3K-1070	3 adjacent BM units, 1000kg-70%, fitted at the back
11-3K-06100	3 adjacent BM units, 600kg-100%, fitted at the back
11-3K-08100	3 adjacent BM units, 800kg-100%, fitted at the back
11-3K-10100	3 adjacent BM units, 1000kg-100%, fitted at the back
11-4K-0670	4 adjacent BM units, 600kg-70%, fitted at the back
11-4K-0870	4 adjacent BM units, 800kg-70%, fitted at the back
11-4K-1070	4 adjacent BM units, 1000kg-70%, fitted at the back
11-4K-06100	4 adjacent BM units, 600kg-100%, fitted at the back
11-4K-08100	4 adjacent BM units, 800kg-100%, fitted at the back
11-4K-10100	4 adjacent BM units, 1000kg-100%, fitted at the back

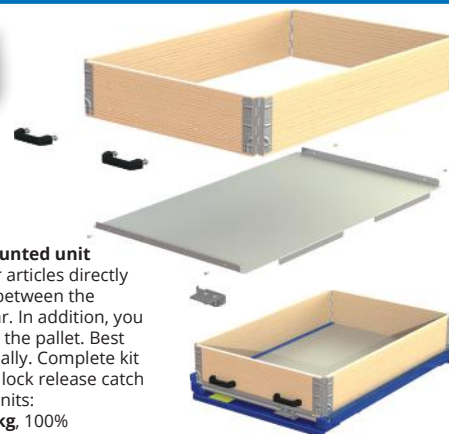
Article no.	Locking system for pallet bays fitted underneath with:
11-2KU-0670	2 adjacent BM units, 600kg-70%, fitted underneath
11-2KU-0870	2 adjacent BM units, 800kg-70%, fitted underneath
11-2KU-1070	2 adjacent BM units, 1000kg-70%, fitted underneath
11-3KU-0670	3 adjacent BM units, 600kg-70%, fitted underneath
11-3KU-0870	3 adjacent BM units, 800kg-70%, fitted underneath
11-3KU-1070	3 adjacent BM units, 1000kg-70%, fitted underneath
11-4KU-0670	4 adjacent BM units, 600kg-70%, fitted underneath
11-4KU-0870	4 adjacent BM units, 800kg-70%, fitted underneath
11-4KU-1070	4 adjacent BM units, 1000kg-70%, fitted underneath

Choice of colours

These frames are supplied in standard colours RAL 7024 (graphite grey) or RAL 5010 (blue). Other colours in the RAL-range may be ordered, but at additional cost and with a longer lead time for setting up in the paint shop.



Article no.	Specification
RALSTART	By agreement



Pallet collar kit for beam-mounted unit

With this kit you can store your articles directly on the unit without any pallet between the loading surface and pallet collar. In addition, you reduce the height by excluding the pallet. Best suited for items handled manually. Complete kit with collar, steel shelves panel, lock release catch and two handles Fits pull-out units: **300kg, 100%, 600kg, 70%, 600kg, 100%**

Article no.	Specification
11 160-80	Steel shelf, Pallet Collar with cutted metal fittings, handles, foot pedal



Fitting kits are INCLUDED with all BM units. Give the height of your cross-beams when ordering. Otherwise we'll send you 24-M8-140H or 24-M10-160H.

Fitting kit

All you need for fitting BM models to your racking. Specify beam height when ordering so you get the right bolts. Includes: 2 pre-drilled plates, 4 bolts, 4 locking nuts and 4 washers. Note, from 1000kg up, use fitting kits with M10 bolts!

Article no.	Specification
24-M8-100H	Fitting kit for beam height up to 75mm
24-M8-120H	Fitting kit for beam height up to 95mm
24-M8-140H	Fitting kit for beam height up to 115mm
24-M8-160H	Fitting kit for beam height up to 135mm
24-M8-180H	Fitting kit for beam height up to 155mm
24-M8-200H	Fitting kit for beam height up to 175mm
24-M10-100H	Fitting kit for beam height up to 70mm
24-M10-120H	Fitting kit for beam height up to 90mm
24-M10-140H	Fitting kit for beam height up to 110mm
24-M10-160H	Fitting kit for beam height up to 130mm
24-M10-180H	Fitting kit for beam height up to 150mm
24-M10-200H	Fitting kit for beam height up to 170mm



SAFETY IS NO ACCIDENT



We take safety seriously at every stage of the process. We don't want people to get hurt, and we also know that unsafe practices and equipment cost money in terms of time lost, sickness pay and reduced efficiency, as well as regulatory fines.

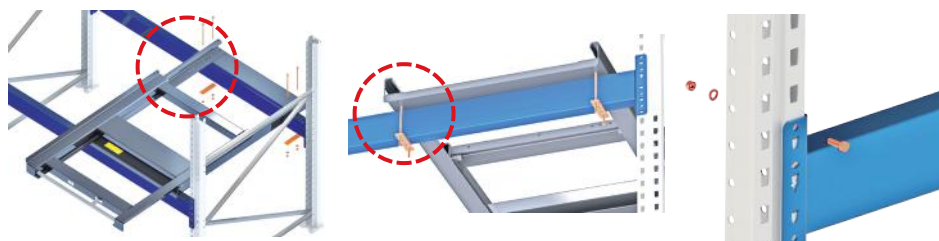
Installation

Installation of beam models is straightforward

– most models are fixed to the rack by means of 4 bolts which tighten a clamp around the rear beam only, except for the two-way units which are clamped at both ends.

When a pull-out unit is extracted, the front beam will be exposed to a higher load than normal and the rear beam will experience a lifting force.

For safety reasons the front beam has to be dimensioned to handle this increased load. Data sheets will describe the required load capacity as per the table below. The relevant beam(s) must be bolted to the pallet rack and the pallet rack must be bolted to the floor. For more information, see product data sheets and installation manuals.



CHECK WHAT WEIGHTS YOUR CROSS-BEAMS WILL CARRY

Load rating and Minimum loading capacity of support beams / pair extendability of units	Minimum loading capacity of support beams / pair		
	1*	2*	3*
200kg – 70%	512kg	744kg	976kg
200kg – 100%	643kg	886kg	1129kg
300kg – 100%	963kg	1326kg	1689kg
600kg – 70%	1475kg	2110kg	2745kg
600kg – 100%	1866kg	2532kg	3198kg
800kg – 70%	1973kg	2826kg	3679kg
800kg – 100%	2493kg	3386kg	4279kg
1000kg – 70%	2486kg	3572kg	4658kg
1000kg – 100%	3098kg	4196kg	5297kg
1200kg – 100%	2970kg	4260kg	5550kg
1500kg – 70%	3707kg	5314kg	6921kg

*Pallet-width bays

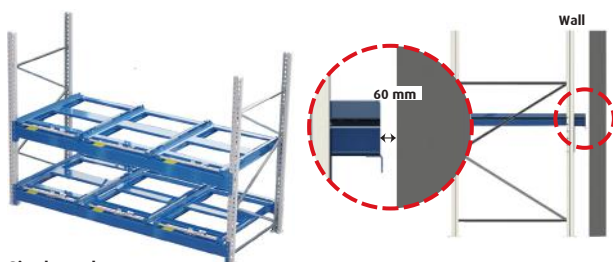
Important Safety Information

- ☑ The pallet racking must be bolted to the floor (see manufactures instructions)
- ☑ Rear cross beam must be bolted to the pallet racking uprights (minimum dimension M8)
- ☑ The pull-out unit must be bolted to the rear cross-beam with the fitting kit provided
- ☑ Each pair of cross beams must have load capacity according to table on next page
- ☑ Only one pull-out unit in each section (pair of cross beams) may be pulled out at a time.
- ☑ With using pull-out units in different levels of one rack only in one level a pull-out unit be pulled-out at the same time
- ☑ See separate notice for maximum evenly distributed loading weight per pull-out unit
- ☑ Directly after using the pull-out unit, it must be pushed back - check that it's locked!



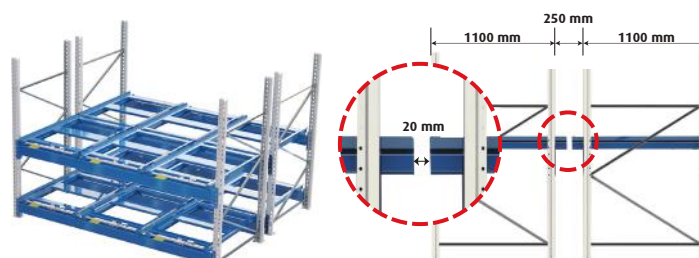
Only one unit per section may be extracted at a time!

Installation examples for BM units



Single rack

Fit 2-3 levels of BM units for manual access to storage, with buffer storage on the upper levels reached by fork lift truck.



Double rack

Fit 2-3 levels of BM units for manual access to storage, with buffer storage on the upper levels reached by fork lift truck.



If you need to load BM units with heavy items using an overhead crane, choose **100% extension units**. These are also ideal when you have small items at the back of a unit.



For containers, bins, boxes and loose storage, you want a **BM unit with a steel shelf panel**.

You can also put a pallet collar on this, with or without dividers.



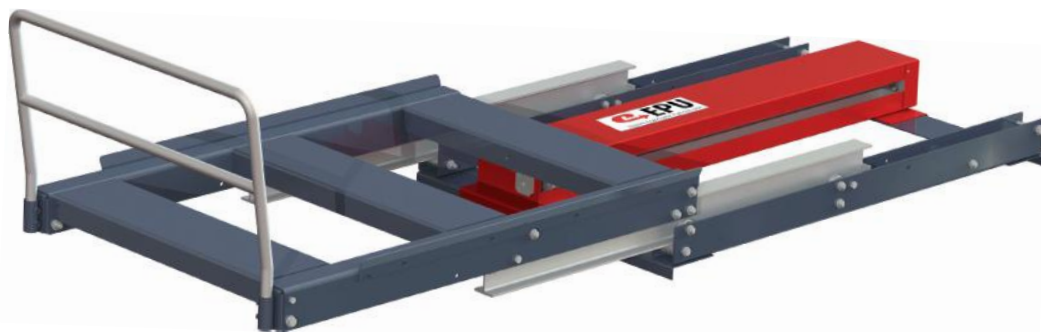
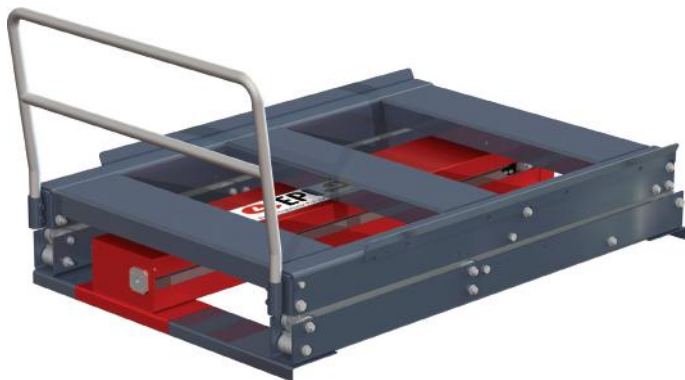
Units with **two-way action**, for access from both sides.

e-EPU (Ergonomic Electric Pull-out Unit)

NEW!

e-EPU

Ergonomic Electric Pull-out Unit



Features

- ✓ Easy installation
- ✓ Servo motor with encoder
- ✓ Stroke up to 1150 mm
- ✓ Load capacity up to 1500 kg
- ✓ Soft start and stop
- ✓ Full stroke in 6 seconds
- ✓ Optional radio control

e-EPU, Ergonomic Electric Pull-out Unit

Smart Storing's new e-EPU (Ergonomic Electric Pull-out Unit) further improves ergonomics by eliminating all manual handling forces.

The e-EPU is suited for applications where heavy goods are picked from pallets, often with help of an overhead crane. It's also possible to use the e-EPU in a robot cell and integrate it into a fully automatic solution. Load capacity up to 1500 kg.

Easy installation; the e-EPU is attached to a pallet rack with 4 screws and the power cable is plugged into a normal 230 VAC socket. It's controlled by push buttons in a separate control panel. On request we offer radio control.



Floor-mounted pull-out units



Features

- ✓ Up to 85% extension when pulled out
- ✓ Backstops are an integral part of the unit
- ✓ Unit locks when pushed back into the rack
- ✓ Loading capacities from 600kg to 1200kg per unit
- ✓ Easy to install – simply fix to the concrete floor using expanding bolts
- ✓ Guide bearings protect the unit from being knocked off the rails in the event of side impacts
- ✓ Units are U-shaped and low profile, so they can be loaded with a manual pallet jack or stacker truck as well as a normal fork-lift truck
- ✓ The low profile of the units also saves on valuable vertical space – meaning you get more picking levels within the same height

For more information
www.smartstoring.eu

Floor-mounted (FM) units fit under the rack and are compatible with almost any type of pallet racking, but can also be used as free-standing units.

They are fixed to the floor with bolts through the lower frames, which act as rails for the upper frames to slide out on bearings, and are supported by high quality pallet truck wheels at the front. Being able to pull the units out of the rack allows for safe and easy access to stored goods!

Cost-saving **ergonomics** are a primary consideration with FM units, as with all Smart Storing designs. Each model uses the right sizes and numbers of quality **ball bearings**, so they're strong, reliable and easy to slide in and out. **Guide rails** ensure the units stay in line when pulled out, and can be pushed back in without effort.

A **safety latch** is automatically engaged when the unit is in the rack. This prevents the unit from being unintentionally pushed out from the other side of the rack. (This feature is especially important when using rear loaded units or units placed in a double rack, where they can be hit from behind when loading the opposite unit).



Only 72mm high - easy to load with hand pallet truck.
Strong practical design



Unit in rack



Unit pulled out

Here are the options to choose from when ordering FM units

If you don't find the number on the following pages, the item is not in our standard range - please get in touch for more information.

1. Load capacity

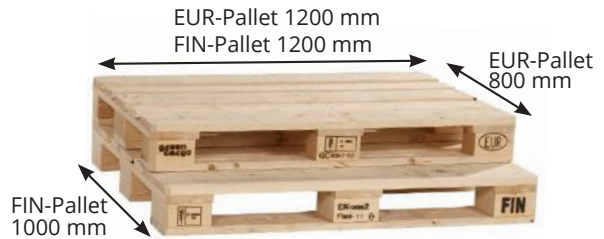


Check the actual weights of your palletised goods in order to choose the right load capacity. Load capacities stated are for evenly distributed loadings.

2. Pallet size and orientation

It doesn't matter what size pallets you use or which way round you handle them.
 - Smart Storing has the pull-out unit to fit with a fork lift truck!
 With FM units, you need to allow room for the pallet forks when loading units. We offer two designs, for front or rear loading.

EUR Short-side handling 1200mm x 800mm (LxW)	FIN-L Long-side handling 1000mm x 1200mm (LxW)	HMU-L Long-side handling 800mm x 1200mm (LxW)
EUR-L Long-side handling 800mm x 1200mm (LxW)	FIN Short-side handling 1200mm x 1000mm (LxW)	HMU Short-side handling 1200mm x 800mm (LxW)



Front loading

For when you load and pick from the same side.



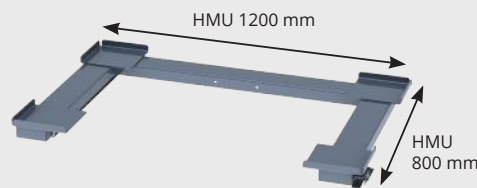
Rear loading

For when you load from the back of the pallet rack and pick from the front



"Heavy metal unit"

features steel corner plates with raised edges, both to ensure the containers stay in place and to strengthen the unit to accept point loads at the corners.



This is how to find the Article Number for your FM units

This example has Article Number 13-801 and can be found on the next page.

Group	1 Choose load capacity	2 Choose pallet type and orientation	
	No.	No.	
13	(6) 600 kg (8) 800 kg (10) 1000 kg (12) 1200 kg (15) 1500 kg	(01) EUR Front-loaded, short-side handled (02) EUR Rear-loaded, short-side handled (03) FIN Front-loaded, short-side handled (04) FIN Rear-loaded, short-side handled (05) EUR L Front-loaded, long-side handled (06) EUR L Rear-loaded, long-side handled	(07) FIN-L Front-loaded, long-side handled (08) FIN-L Rear-loaded, short-side handled (09) HMU Front-loaded, short-side handled (10) HMU Rear-loaded, short-side handled (11) HMU-L Front-loaded, long-side handled (12) HMU-L Rear-loaded, long-side handled
13	8	01	
FM	800 kg	For EUR pallet, front-loaded, short-side handled	

3. Locks and handles

Handles are required with all standard FM pull-out units and should be specified at the time of ordering. **Standard** handles are suitable for all models, while **Easy Action™** handles (**EA**) are recommended on the heavier units – or if you just want to be especially kind to your order pickers!

Handles are integrated with the safety locks which automatically restrain the units once they are pushed in. Longer handles are useful with taller loads, for example when stacking several pallet collars on a shelf unit. But not with a Gitterbox - then they get in the way, and you need a foot-operated lock release instead.

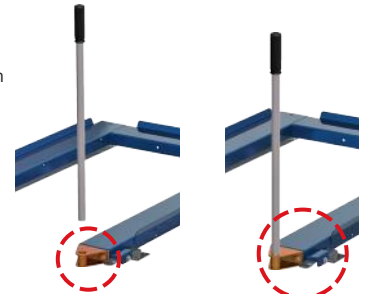
The Standard handle is a simple handle with a locking function that holds the unit in place for loading. Supplied complete with floor stop.



Easy Action™ handle has a lever mechanism which makes it easy to operate. Supplied complete with floor stop.



A removable handle is useful if you have items which stick out of the pallet and the handle gets in the way while loading or picking. Supplied complete with golvkonsol.

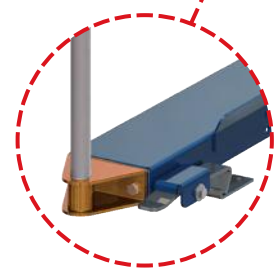


Good ergonomic choice



Foot operated release catch is used for example with mesh containers (Gitterbox) when side handles are not suitable.

Normally side handles are not used with mesh containers (Gitterbox). In that case you need a foot-operated lock release instead.



4. Length of handle



Standard handle



Length 500 mm



Length 700 mm



Length 900 mm



Easy Action™-handle



Length 500 mm



Length 700 mm



Length 900 mm

How to find the Article Number for your handle

Group	3 Choose handle/foot release	4 Choose length of handle
	No	No
13	(1) Standard handle (2) Easy Action™ handle (3) Removable handle (4) Foot-operated lock release included	(5) 500 mm (7) 700 mm (9) 900 mm
13	2	5
FM	Easy Action™-handle	500 mm

This handle has article number 13-25

Handle

Article no.	Specification
13-15	Standard handle, 500 mm
13-17	Standard handle, 700 mm
13-19	Standard handle, 900 mm
13-25	Easy Action™ handle, 500 mm
13-27	Easy Action™ handle, 700 mm
13-29	Easy Action™ handle, 900 mm
13-35	Removable handle, 500 mm
13-37	Removable handle, 700 mm
13-39	Removable handle, 900 mm
13-4	Foot-operated lock release

Floor-mounted pull-out units



600 kg, 74% extension

The sliding pull-out frame runs on bearings along rails fixed to the floor, with the front wheels on the floor itself. Ships with two floor rails and a floor stop for the handle lock.



800 kg, 85% extension

In this and all higher capacity models, the floor rails are fitted with guides to prevent the unit being knocked off the rails by a side impact when pulled out. They also hold the unit straight in the pulled out position so there is no resistance to pushing it back into place. That means they can be extended further - 85% in this case. Ships with floor rails and a floor stop for the handle lock.

1000 kg, 85% extension

These units are the same construction as the 800kg units but with double bearings and extra strong back stops to take the force of the unit being pushed back into place.

1200 kg, 85% extension

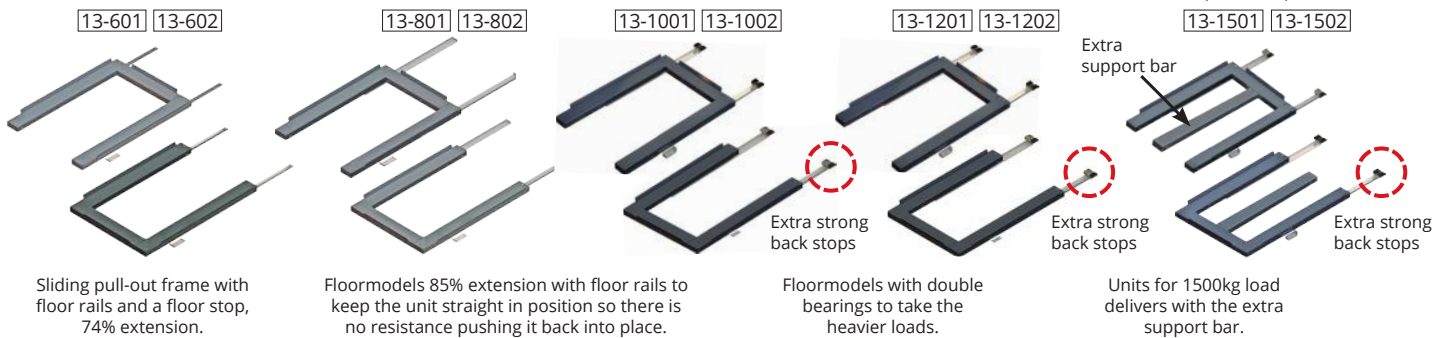
Same design as 1000 kg unit but using heavier gauge materials throughout and with superior quality double bearings to take the heavier loads.

1500 kg, 85% extension

The extra-heavy E-model uses even heavier gauge steel than the 1200kg, and with the extra support bar in the middle it benefits from three sets of heavy-duty front wheels, thus spreading the load.



13-811
Front-loaded floor model for HMU (Gitterbox)



Floor-mounted units

Load size	Loading & handling	85%				74%	
		800 kg	1000 kg	1200 kg	1500 kg	600 kg	
EUR	Front-loaded FM unit for EUR pallet, short-side handling	13-801	13-1001	13-1201	13-1501	13-601	
EUR	Rear-loaded FM unit for EUR pallet, short-side handling	13-802	13-1002	13-1202	13-1502	13-602	
EUR-L	Front-loaded FM unit for EUR pallet, long-side handling	13-805	13-1005	13-1205	13-1505		
EUR-L	Rear-loaded FM unit for EUR pallet, long-side handling	13-806	13-1006	13-1206	13-1506		
FIN	Front-loaded FM unit for FIN-pallet, short-side handling	13-803	13-1003	13-1203	13-1503		
FIN	Rear-loaded FM unit for FIN-pallet, short-side handling	13-804	13-1104	13-1204	13-1504		
FIN-L	Front-loaded FM unit for FIN-pallet, long-side handling	13-807	13-1007	13-1207	13-1507		
FIN-L	Rear-loaded FM unit for FIN-pallet, long-side handling	13-808	13-1008	13-1208	13-1508		
HMU	Front-loaded FM unit for HMU (Gitterbox), short-side handling	13-809	13-1009	13-1209	13-1509		
HMU	Rear-loaded FM for HMU (Gitterbox), short-side handling	13-810	13-1010	13-1210	13-1510		
HMU-L	Front-loaded FM unit for HMU (Gitterbox), long-side handling	13-811	13-1011	13-1211	13-1511		
HMU-L	Rear-loaded FM for HMU (Gitterbox), long-side handling	13-812	13-1012	13-1212	13-1512		

For articles highlighted in yellow, all components are kept in stock, which means short delivery times at a fixed price

Expanding bolts for concrete floors are included with all FM models!



Make your Beam-mounted unit into a floor mounted unit

Instead of using FM units, you can also bolt BM-units to the floor by mounting them on feet, do this:

- ☑ if your floor is too uneven for the rails of a pullout unit to lie flat and run smoothly
- ☑ if your floor is too uneven for wheels
- ☑ if you want the units higher to provide better ergonomics for your pickers
- ☑ if you need 100% extension rather than the standard 85%



Accessories for floor-mounted units

Here are some accessories to fine-tune your Floor-mounted units to your precise needs. Don't see what you want? Ask us!



Extra pallet support bar recommended when using steel shelves.

Shelf panels

These cover the bare frame of a pull-out unit, allowing the use of smaller containers such as plastic and cardboard boxes, with or without pallet collars. Can still be used for pallets as well - maximum flexibility. Galvanized steel.



Article no.	Specification
13-180-0	Steel shelf for short-side handled EUR unit
13-180-6	Steel shelf for long-side handled EUR unit

Installation template

Steel plate with handles and predrilled holes. This accessory is a huge time saver when drilling the holes in the floor to receive the expanding bolts to secure FM units. Simply line up as many templates as you need - either 2 or 3 depending on how many pallet places there are between the uprights in your rack - and mark the holes easily and accurately - no need to measure!



Article no.	Specification
13-MP	Installation template



NEW!

Pallet collar kit for floor-mounted units

With this kit you can store your articles directly on the unit without any pallet between the loading surface and pallet collar. In addition, you reduce the height by excluding the pallet. Best suited for items handled manually. Complete kit with collar, steel shelves panel and support bar with wheel.

Article no.	Specification
11 180-80	Pallet collar, steel shelf panel, support bar with wheel

Extra pallet support bar

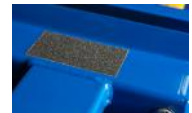
An accessory which supports the pallet in the middle if heavily loaded. Especially recommended if using plastic pallets long-side forwards with transverse mounted models.



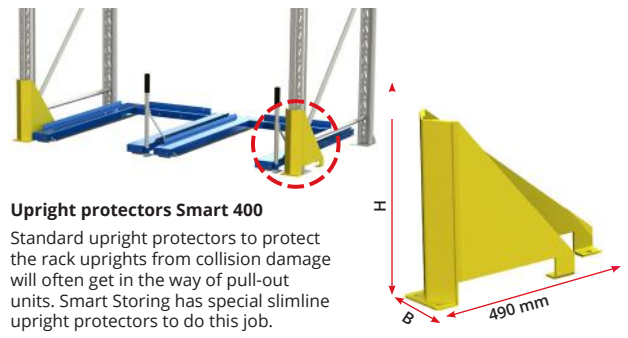
Article no.	Specification
13-001-0	Extra support bar for short-side handled EUR unit
13-001-1	Extra support bar for long-side handled EUR unit
13-001-1F	Extra support bar for short-side handled FIN and industrial unit

Anti-skid tape

Fix at each corner to stop the pallet sliding around when empty or only lightly loaded.



Article no.	Specification
11-002-0	Anti-skid tape 4pcs/package



Upright protectors Smart 400

Standard upright protectors to protect the rack uprights from collision damage will often get in the way of pull-out units. Smart Storing has special slimline upright protectors to do this job.

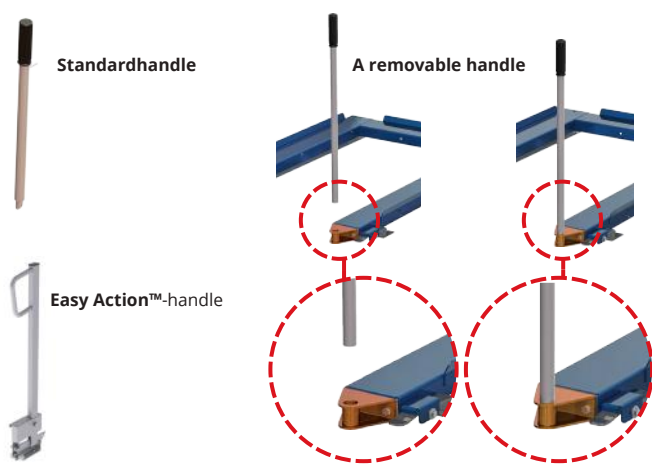
Article no.	Specification
13-401249	h=400, w=120mm, for 80-90mm uprights
13-401349	h=400, w=130mm, for 100mm uprights
13-401549	h=400, w=150mm, for 120mm uprights

Choice of colours

All our units are supplied in standard colours RAL 7024 (graphite grey) or RAL 5010 (blue). Other colours in the RAL-range may be ordered at additional cost and with a longer lead time for setting up in the paint shop.



Article no.	Specification
RALSTART	By agreement



Standard handle

A removable handle

Easy Action™-handle



Foot operated release catch

!
Don't forget to choose handles!

See page 19



installation Examples

Each racking system has its pros and cons, and Smart Storing has pull-out units to match every configuration. Typically though, FM units are fitted underneath BM units in the pallet rack.



A popular system for larger warehouses (shown here) is to load only from one side of the rack and pick only from the other.

This way you can have alternate truck lanes and walking lanes. Separating trucks from pedestrians is safer and more efficient.

This example shows rear loaded FM units underneath the pallet rack, with BM pull-out units on the second level.



Compact Storage Units



Features

- ✓ Up to 9 shelves or drawers per unit
- ✓ No installation or assembly required
- ✓ Fully mobile with optional wheels fitted
- ✓ Fits under a pallet rack into a single pallet space
- ✓ Easy to move by truck with optional fork lift pockets fitted
- ✓ Shelves convert to drawers simply by adding plastic boxes or pallet collars
- ✓ Useful accessories and safety features for customising to your requirements
- ✓ Flexible, modular design – use pull-out units as shelves or as drawers, and change configuration later if required

For more information
www.smartstoring.eu



Compact Storage Units (CSUs) are simple, strong and versatile. They pack a huge amount of easy-access storage into a footprint hardly bigger than a Euro pallet (1206mm x 880mm). A rigid steel frame with slotted uprights allows for customisation. Ideal for either stationary, movable or mobile storage of mostly smaller items which will be handled manually.

CSUs benefit from a modular construction and a big range of accessories, so they're adaptable to meet your particular needs.

Have all your components exactly where you need them!

CSUs are always delivered fully assembled and tested, ready for use!

-Have all your components exactly where you need them!



Yes! All 40 of these 400mm x 300mm boxes will fit into a single CSU!

This picture shows how many different articles can actually be stored separately in a CSU in typical configuration, with 5 shelf layers.

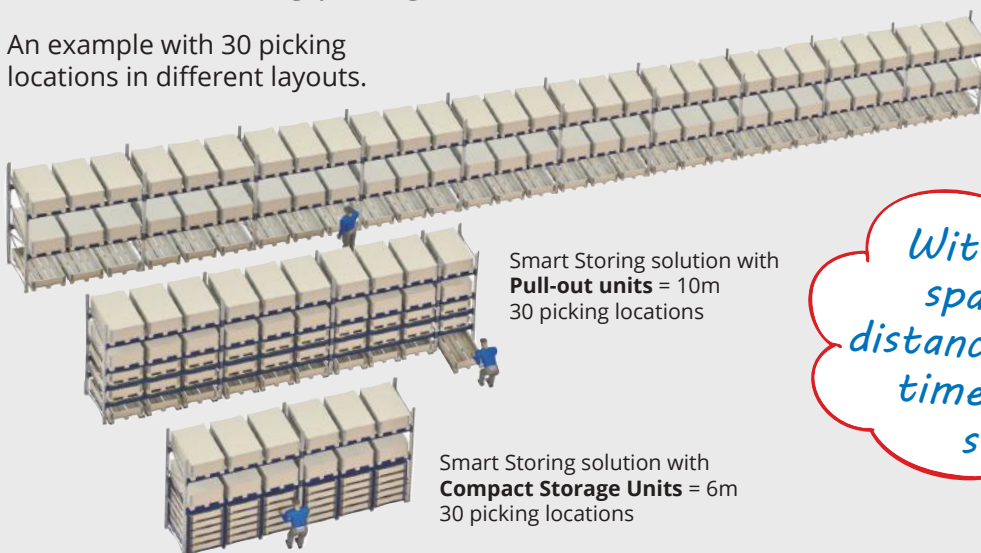
In this example we've used strong, roomy plastic boxes, each 400mm x 300mm, which will hold generous stocks of smaller items. Each shelf

holds 8 of these boxes, giving a total of 40 storage locations in one square metre! We also offer smaller boxes, so by choosing 200mm x 150mm boxes, you can quadruple the number of articles in the same area.



Reduce walking/picking distances

An example with 30 picking locations in different layouts.



Smart Storing solution with **Pull-out units** = 10m
30 picking locations

Smart Storing solution with **Compact Storage Units** = 6m
30 picking locations

Standard pallet racking with 1 picking level = 30m,
30 picking locations

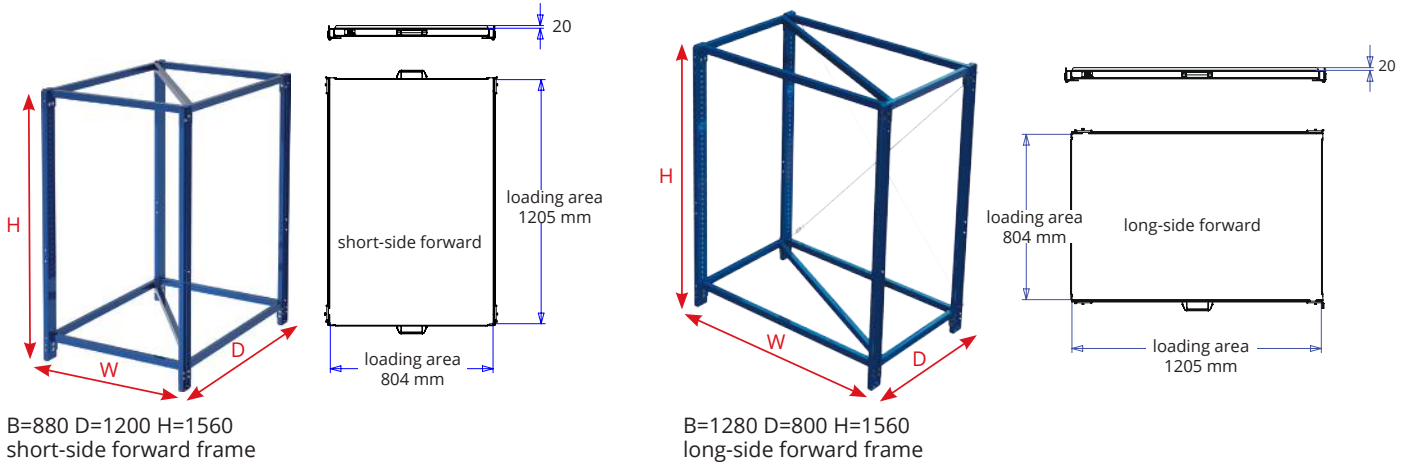
With CSUs you save space, save picking distances and save picking time. Result? Lower storage costs!

Here are the options to choose from when ordering CSUs

The frame is a rigid steel box with pre-drilled holes on the uprights at 30mm centres for fitting shelves according to your specifications. Available in two formats, depending on which side the pull-out shelves slide out: short-side forward and long-side forward.

1. Frame

The frame is a rigid steel box with pre-drilled holes on the uprights at 30mm centres for fitting shelves according to your specifications. Available in two formats, depending on which side the pull-out shelves slide out: short-side forward and long-side forward.



B=880 D=1200 H=1560
short-side forward frame

B=1280 D=800 H=1560
long-side forward frame

2. Pull-out capacity

There are three choices to pull out the shelf. The shelves are covered with sheet metal of strong galvanized steel sheet and have 12mm edges around. The size of the plane is 800x1200mm which is a standardized EUR measure, which makes it suitable for Euro boxes and accessories for pallet racks. The shelves have a maximum load of 150kg or 200kg.



For best economy:
70% extension shelves work best with smaller boxes at the front and larger boxes at the back. Many combinations are possible.

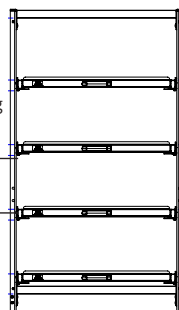
For maximum access:
100% extension shelves are the best choice when using smaller boxes or compartments. This is the option to choose with boxes less than 400mm deep.

For access both sides:
Two-way action, 70% extension in each direction. Makes it possible for two operators to share one storage unit, whether picking the same articles or different ones. Another application is when an assembly line worker picks from one side while stocks can be safely refilled from the other side.

3. Number of Shelves

The tables below show you what clearances to expect between shelves for a given number of shelves per unit, assuming even spacing. Shelves can also be spaced unevenly if desired. For more information, please consult product data sheets or contact us.

Clearance refers to the total loading height between shelves.



100% extension		70% extension		70% two-way action	
Number of shelves	Clearance (h in mm)	Number of shelves	Clearance (h in mm)	Number of shelves	Clearance (h in mm)
3	366	3	395	3	402
4	246	4	275	4	282
5	186	5	215	5	222
6	126	6	155	6	162
7	96	7	125	7	132
8	66	8	95	8	102
9	66	9	95	9	102

4. Shelf lock

Unless you bolt the CSU to the floor, it is essential to add a shelf lock, which prevents more than one shelf being pulled out at once, so the unit doesn't get tipped over.



How to find the Article Numbers for the CSUs you want

In this example we suppose that you want a short-side forward unit with 7 x 100% extendable shelves and a shelf lock. If the number is not included in the following pages, it's only available on special order - please contact us for more information.

Group	1 Frame	2 Shelf function	3 Number of shelves	4 With or without shelf lock
	No.	No.	No.	No.
22	(1) w= 880, d=1206 short-side forward (2) w= 1280, d=806 long-side forward	(1) 70% extension (2) 100% extension (3) 70% extension, two way	(1) one shelf (6) six shelves (2) two shelves (7) seven shelves (3) three shelves (8) eight shelves (4) four shelves (9) nine shelves (5) five shelves	(-0) No lock (-1) Lock
22	1	2	7	-1
CSU	Short-side forward	100%	Seven shelves	With lock

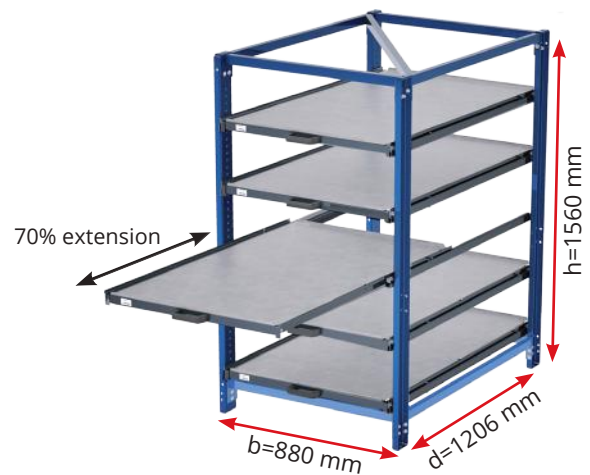
This example will have Article Number **22 127-1** and can be found on the next page.

Compact Storage Unit short-side forward



70% extension one-way

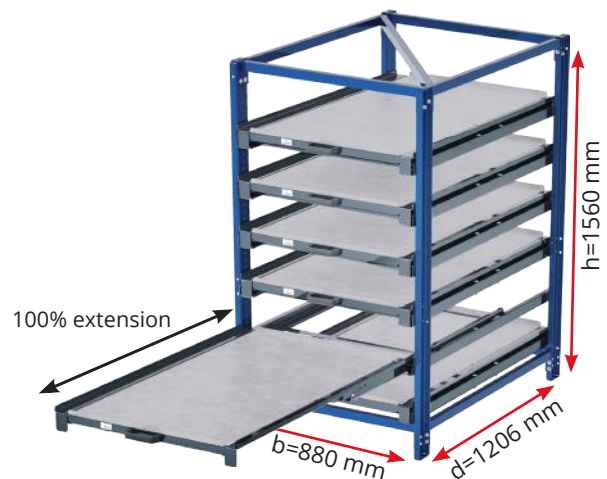
Art nr	KG	%	w	d	h	Specification
22-111-0	200	70%	880	1206	1560	1 shelf
22-112-0	200	70%	880	1206	1560	2 shelves
22-113-0	200	70%	880	1206	1560	3 shelves
22-114-0	200	70%	880	1206	1560	4 shelves
22-115-0	200	70%	880	1206	1560	5 shelves
22-116-0	200	70%	880	1206	1560	6 shelves
22-117-0	200	70%	880	1206	1560	7 shelves
22-118-0	200	70%	880	1206	1560	8 shelves
22-119-0	200	70%	880	1206	1560	9 shelves
22-112-1	200	70%	880	1251	1560	2 shelves, with shelf lock
22-113-1	200	70%	880	1251	1560	3 shelves, with shelf lock
22-114-1	200	70%	880	1251	1560	4 shelves, with shelf lock
22-115-1	200	70%	880	1251	1560	5 shelves, with shelf lock
22-116-1	200	70%	880	1251	1560	6 shelves, with shelf lock
22-117-1	200	70%	880	1251	1560	7 shelves, with shelf lock
22-118-1	200	70%	880	1251	1560	8 shelves, with shelf lock
22-119-1	200	70%	880	1251	1710	9 shelves, with shelf lock



i For articles highlighted in yellow, all components are kept in stock, which means short delivery times at a fixed price

100% extension one-way

Art nr	KG	%	w	d	h	Specification
22-121-0	150	100%	880	1206	1560	1 shelf
22-122-0	150	100%	880	1206	1560	2 shelves
22-123-0	150	100%	880	1206	1560	3 shelves
22-124-0	150	100%	880	1206	1560	4 shelves
22-125-0	150	100%	880	1206	1560	5 shelves
22-126-0	150	100%	880	1206	1560	6 shelves
22-127-0	150	100%	880	1206	1560	7 shelves
22-128-0	150	100%	880	1206	1560	8 shelves
22-129-0	150	100%	880	1206	1560	9 shelves
22-122-1	150	100%	880	1251	1560	2 shelves, with shelf lock
22-123-1	150	100%	880	1251	1560	3 shelves, with shelf lock
22-124-1	150	100%	880	1251	1560	4 shelves, with shelf lock
22-125-1	150	100%	880	1251	1560	5 shelves, with shelf lock
22-126-1	150	100%	880	1251	1560	6 shelves, with shelf lock
22-127-1	150	100%	880	1251	1560	7 shelves, with shelf lock
22-128-1	150	100%	880	1251	1710	8 shelves, with shelf lock
22-129-1	150	100%	880	1251	1710	9 shelves, with shelf lock

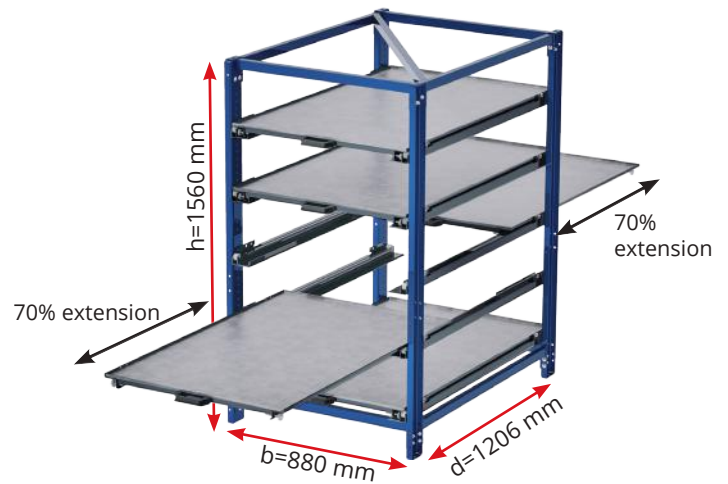


Compact Storage Unit - short-side forward



70% extension two-way

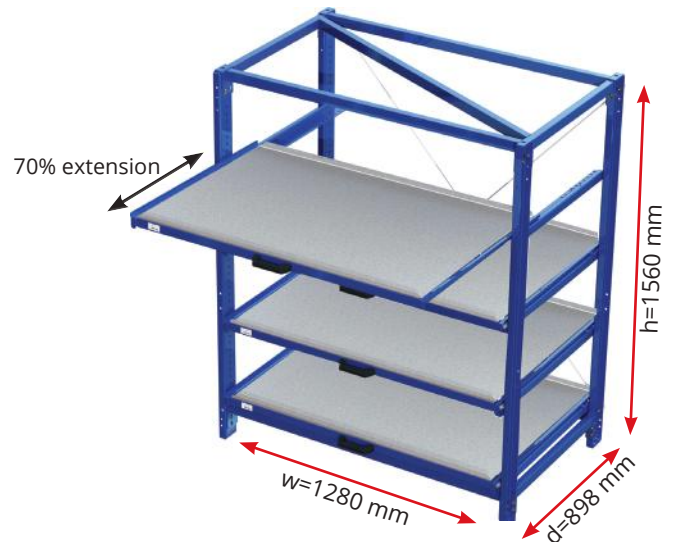
Art nr	KG	%	w	d	h	Specification
22-131-0	200	70%	880	1206	1560	1 shelf
22-132-0	200	70%	880	1206	1560	2 shelves
22-133-0	200	70%	880	1206	1560	3 shelves
22-134-0	200	70%	880	1206	1560	4 shelves
22-135-0	200	70%	880	1206	1560	5 shelves
22-136-0	200	70%	880	1206	1560	6 shelves
22-137-0	200	70%	880	1206	1560	7 shelves
22-138-0	200	70%	880	1206	1560	8 shelves
22-139-0	200	70%	880	1206	1560	9 shelves



Compact Storage Unit long-side forward

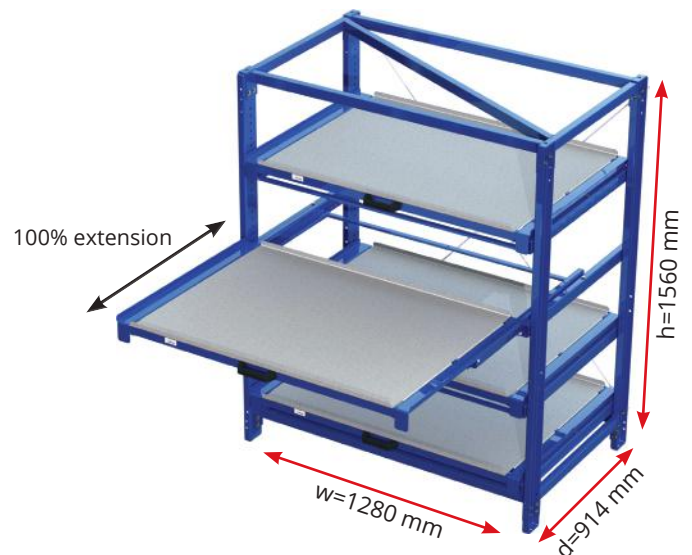
70% extension one-way

Art nr	KG	%	w	d	h	Specification
22-211-0	200	70%	1280	898	1560	1 shelf
22-212-0	200	70%	1280	898	1560	2 shelves
22-213-0	200	70%	1280	898	1560	3 shelves
22-214-0	200	70%	1280	898	1560	4 shelves
22-215-0	200	70%	1280	898	1560	5 shelves
22-216-0	200	70%	1280	898	1560	6 shelves
22-217-0	200	70%	1280	898	1560	7 shelves
22-218-0	200	70%	1280	898	1560	8 shelves
22-219-0	200	70%	1280	898	1560	9 shelves



100% extension one-way

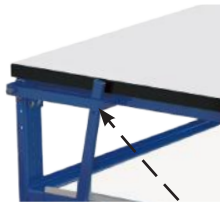
Art nr	KG	%	w	d	h	Specification
22-221-0	150	100%	1280	914	1560	1 shelf
22-222-0	150	100%	1280	914	1560	2 shelves
22-223-0	150	100%	1280	914	1560	3 shelves
22-224-0	150	100%	1280	914	1560	4 shelves
22-225-0	150	100%	1280	914	1560	5 shelves
22-226-0	150	100%	1280	914	1560	6 shelves
22-227-0	150	100%	1280	914	1560	7 shelves
22-228-0	150	100%	1280	914	1560	8 shelves



New Design
Lower price!

Transport lock

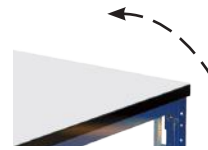
Stops shelves sliding out when moving the unit around, especially important if you plan to transport it with a fork lifter. Must be specified when ordering as it is welded to the frame before painting.



Article no.	Specification
22-301	Bracket, transport lock, including mounting kit

Work surface

Choose this superior quality work surface to provide temporary/ buffer storage on top of your CSUs, whilst protecting the contents underneath. 30mm chipboard composite with solid wood core, finished with a wipable, durable surface. Supplied ready-fitted to unit.



Article no.	D x W x H mm	Specification
22-000-2	1210 x 905 x 30	Work surface for CSU, short side forward, 70%, 100% and 70% two-way, without security lock and cladding kit.
22-000-8	1285 x 905 x 30	Work surface for CSU, long side forward

Choice of colours

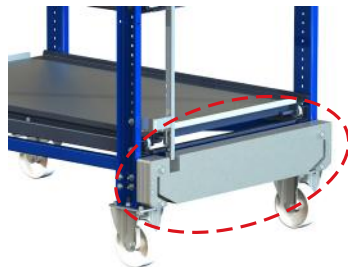
These frames are supplied in standard colours RAL 7024 (graphite grey) or RAL 5010 (blue). Other colours in the RAL-range may be ordered, but at additional cost and with a longer lead time for setting up in the paint shop.



Article no.	Specification
RALSTART	By agreement



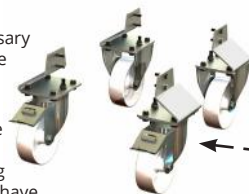
Do you want wheels or fork lift pockets mounted on your Compact Unit, counterweights are needed in some cases, to avoid risk of tipping. Contact us for more information.



Wheel sets

Wheels are supplied as a set of 4, complete with all necessary fittings. They are bolted on to the frame uprights using the pre-drilled holes and are simple to fit after-market. Two wheels are supplied with brakes, usually the front ones.

All wheels are a standard 150mm diameter but they come in different qualities depending on the load capacity requirements. They also come with two types of mounting brackets: fixed or swivelling. The usual configuration is to have fixed wheels at the back of the unit and swivel wheels at the front, which allows the CSU to be easily manoeuvred, like a pallet truck. If you want to move the unit in any direction independently, choose 4 swivel wheels.



- Swivel wheel: wheel assembly rotates around its own axis (steerable wheel)
- Fixed wheel: wheel is held in a bracket mounting and can only turn parallel to the unit's sides.
- Nylon wheel: nylon is a harder material which is easier to roll, but which makes more noise.
- Polyurethane wheel: a softer plastic with higher rolling resistance but lower noise levels.

Article no.	Max. unit weight	Specification
22-0450-N	450 kg	Set of 4 nylon wheels: 2 swivel wheels, 2 swivel wheels with brakes
22-1200-N	1200 kg	Set of 4 nylon wheels: 2 fixed wheels, 2 swivel wheels with brakes
22-1200-P	1200 kg	Set of 4 polyurethane wheels: 2 fixed wheels, 2 swivel wheels with brakes
22-1800-P	1800 kg	Set of 4 polyurethane wheels: 2 fixed wheels, 2 swivel wheels with brakes

Floor mounting brackets

Sometimes it can be hard to get at the bottom of the frame uprights to secure them to the floor, for example when you have a row of CSUs next to each other. This accessory solves that problem for you. Supplied with suitable floor bolts.



Article no.	Specification
22-302-0	2 galvanised steel brackets with expanding bolts for concrete floors

To find the right wheels, add up the load capacities of the shelves in your CSU and choose the next maximum unit weight above that - 450kg, 1200kg or 1800kg.



Do you need to store food products or other items where wood is not an appropriate material? We can also supply plastic or galvanized steel frames - contact us!



A classic way of using CSUs for medium sized articles is to fit them with pallet collars and dividers. Economical, quick and effective storage, presented in an ergonomic format.



Slotted plywood pallet box dividers

Our standard box dividers for Euro pallet collars are hung from the pallet collar sides using the integral metal fitting and are slotted to intersect with each other, thus dividing the box both lengthwise and crosswise to make your compartments. Buy dividers singly or as complete systems for 4, 8 or 16 compartments. Also available for other pallet sizes. The dividers are manufactured from 12mm thick plywood with strong galvanized steel hooks.

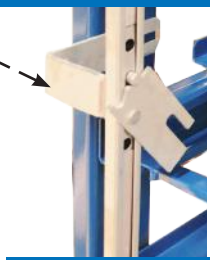
Article no.	Specification
5903004-P	Complete kit with frame and dividers for 4 compartments 570mm x 372mm
5903008-P	Complete kit with frame and dividers for 8 compartments 372mm x 280mm
5903016-P	Complete kit with frame and dividers for 16 compartments 280mm x 180mm
22 500-0	Pallet Collar H195, cutted metal fittings
22 505-0	Pallet Collar plastic 1200x800x200
16 80114	Pallet Collar steel 1200x800x100



Pallet Collar plastic



Pallet Collar steel



Shelf lock

Unless you bolt the CSU to the floor, it is essential to add a shelf lock, which prevents more than one shelf being pulled out at once, so the unit doesn't get tipped over.

For more information see previous pages.



Steel cladding (cabinet)

Sheet steel cladding panels enclose the unit, turning it into a secure cabinet. For dusty environments or when you need to lock the unit. With or without doors or drawer fronts.

Article no.	Specification
22-100-0	Steel cladding for CSU 70%: sides, back and top
22-100-1	Steel cladding for CSU 100%: sides, back and top
22-100-2	Steel cladding for CSU 70%: sides, back only. (When fitting a worksurface on top instead of the steel cladding).
22-100-3	Steel cladding for CSU 100%: sides, back only. (When fitting a worksurface on top instead of the steel cladding).
22-100-4	Steel cladding for CSU 70% two-way: sides and top.
22-100-5	Steel cladding for CSU 70% two-way: sides only. Threaded connector sleeve with two machine screws (When fitting a worksurface on top instead of the steel cladding).



Connector bolts

For fixing CSUs together side by side. Joining units together increases their stability and resistance to tipping.

Article no.	Specification
22-303-0	4 pcs threaded connector sleeve with 8 pcs machine screws



Side handle

Strong, practical handles which make it easy to move a unit around when it's on wheels. Aluminium and plastic, supplied ready-fitted.

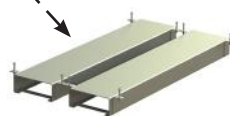
Article no.	Specification
22-503-0-300	Stainless sidehandle for CSU, l=300 Ø30 mm

Doors

180° opening front doors (pair) for cladded units. One door overlaps the other and can be locked, making a secure and dust-free cabinet. Factory-fitted option only, supplied fitted.



Article no.	Specification
22-101-0	Door set with door frame and two-point lock



Fork lift pockets

You can also transport the unit around your premises using a fork lift truck, which is another handy way of getting a movable storage unit. For this you'll need fork lift pockets, which are steel channels welded to the underside of the unit before painting. Specify whether you want short-side or long-side handling or four-way entry.

Article no.	Specification
22-300-1	Fork lift pockets for short-side handling, L=1200 mm
22-300-2	Fork lift pockets for long-side handling, L=880 mm

Drawer fronts

With drawer fronts on each shelf, you have the neat appearance as well as the practical function of a chest of drawers. Smart and stylish, and they also keep the contents clean and secure! Specification depends on your chosen shelves and clearances - ask for an offer. This is a factory-fitted option and cannot be fitted afterwards. Supplied fully assembled.



Article no.	Specification
22-102	By agreement

Mobile Pallet Units (MPU)



Features

- ✓ Up to 600kg per shelf
- ✓ Very strong and versatile
- ✓ Also available with wheels (shipped separately)
- ✓ No installation. The units are shipped fully assembled and quality tested
- ✓ Short-side, long-side or four-way fork entrance for easy transport within the factory
- ✓ All units fitted with tip prevention device: a safety lock prevents more than one shelf being pulled out at once
- ✓ Pull-out shelves must be counter-balanced individually, with the weights matching the expected loads

For more information
www.smartstoring.eu

Mobile Pallet Units (MPU) are like Compact Storage Units (CSU), but for handling pallets. That means they can be loaded with a fork lift truck, and they are strong enough to take a heavy loading. However they are also designed for easy mobility – either using a fork lifter or by fitting wheels. Often used at assembly stations in larger factories.

If you manufacture large equipment (for example generating plant or turbine assemblies), you have to supply your workstations with a range of parts, many of them heavy. The usual situation is pallets littered all around, getting in the way and often still not having everything you need to hand, so someone has to go looking for a fork lift and drive to the storage racking or parts shed.

Delays are inevitable and accidents likely. Mobile Pallet Units with pull-out shelves place your parts and components exactly where you need them, right where you are working. They're compact, easy to restock and convenient to use. Because they make for much more efficient use of space, they also mean you can set up more assembly stations in the same factory space.

Mobile Pallet Units are available in a range of capacities up to 600kg per shelf and in any pallet size you like.

We can also fit MPUs with flow shelves, also known as FIFO shelves. The possibilities are endless - just tell us what you need!



Variations on the MPU basic format

Steel cladding / cabinet

Sheet steel cladding panels completely enclose the unit, turning it into a secure cabinet. For dusty environments or when you need to lock the unit. With or without doors. Factory-fitted only.



Weather protection

A strong, long-lasting raincover can be important if you need to use the unit out of doors or to transport it between buildings. Our snugly fitted PVC covers feature a roll-up front section secured with Velcro strips or zips. Covers also protect sensitive parts against dust and chemicals in the environment. A zip-up front can be combined with steel cladding on sides and back, as shown here.



We can also adapt the undercarriage of our MPUs so that you can incorporate them into a trolley train.



READ MORE IN THE SMART STORING GUIDE



This MPU is fitted with an accessory 'roof rack' so that a pallet can be loaded on top.

e-CSU – electrically driven Compact Storage Unit

NEW!

e CSU

Electric Compact Storage Unit



e-CSU – electrically driven Compact Storage Unit

Smart Storing has developed a Compact Storage Unit with electric drive for effortless internal transports. Total load capacity is 800 kg.

A stepless drive system makes the e-CSU easy to manoeuvre and soft wheels provide a very quiet ride. The rechargeable battery is good for up to 200 start cycles with full load, enough to last for more than a full workday.

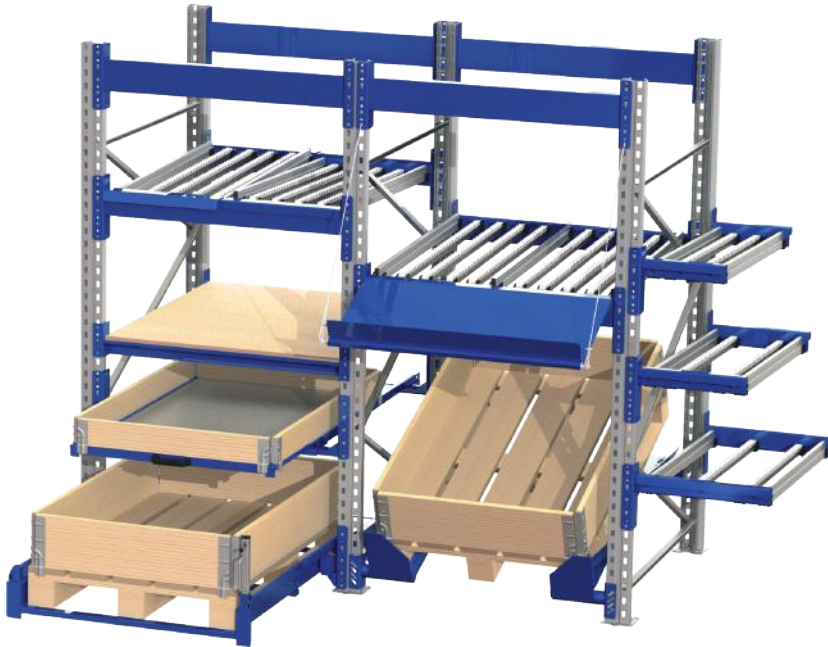
The e-EPU is suitable for companies that has a “buffer store” or “supermarket” and move components out in the production hall. Once inside a production cell, the 100 % extractable shelves and/or flow shelves provides full access to all components.

Compact Storage Units saves space with up to 80 %, saves time and storage and handling costs.

Features

- ✓ Easy transport of heavy goods
- ✓ Move heavy goods without effort
- ✓ Prevent workplace injuries
- ✓ Easy to manoeuvre
- ✓ Stepless drive in both directions
- ✓ Effective and safe internal transport without fork lift





Features

- ✓ No support beams needed
- ✓ Up to 100% extension when pulled out
- ✓ Unit locks when pushed back into the rack
- ✓ Two-way action is also possible (70%)
- ✓ Handles, back-stops and other accessories available
- ✓ Many options: 'open frames' for pallets, with shelves for containers or pallet collars, with flow shelving etc...
- ✓ The perfect solution when space-saving is most important
- ✓ Maximum loading capacities from 200kg to 1000kg per unit

For more information
www.smartstoring.eu

Application

To make your production processes as efficient as possible, we supply storage systems which can be adapted according to the precise needs of your working environment. Upright-mounted units optimize every square metre of your warehouse or assembly areas and make it easy to operate 'lean production' methods. As well as normal pull-out storage and shelving, the modular construction can accommodate pallet tilt profiles and flow racks in any combination.

Why Upright-mounted (UM) units?

Beam-mounted pull-out units are effective at saving vertical space in the pallet rack. But if you want to make even better use of space, at the same time as reducing walking distances in the picking process, you need something even cleverer and more compact. At an assembly station you may need to combine palletised products with items stored in plastic containers or cardboard boxes. Some items may be heavy and only used one at a time, while others are small and light and used in multiple quantities. Your assembly workers want to be able to see and reach the bits they need easily, without wandering up and down the racks. And imagine store workers being able to safely refill a container from the rear, without interrupting the picking and assembly work going on on the other side! Smart Storing's UM units make all of this possible and easy, and they dovetail perfectly with kanban storage and other lean production tools.





A solution for the whole section?

Depending on your needs, you may like to use one or more sections of UM units side by side. A large range of materials can be made available in this way either directly to the assembly floor or in a buffer store, a so-called 'supermarket'*.



Buffer store /supermarket* made up of several sections of UM units. 'Supermarket' is a name for a buffer store with lots of items to choose from, often positioned between the pallet racks and the components storage on the shop floor.



Upright-mounted pull-out units

Once you have the racking, there is a whole range of UM units to select from in order to create your perfect storage system. UM units can be fitted anywhere on the uprights with no need for a cross-beam - in fact the units themselves act as beams to stabilise the racking!

The basis of a pull-out unit consists of two integrated frames; the bottom one is slotted into connectors hanging directly to the uprights at each corner; the pull-out frame slides out on top of this. In this format, the bare frame is suitable for standard Euro-pallets. Alternatively the bare frame is covered with a sheet steel shelf, with or without raised edges. The shelves have a surface area of 800mm x 1200mm and can support a pallet collar system or provide storage for cartons and plastic containers. As well as pull-out units we offer a range of other UM units suitable for FIFO and lean production systems.



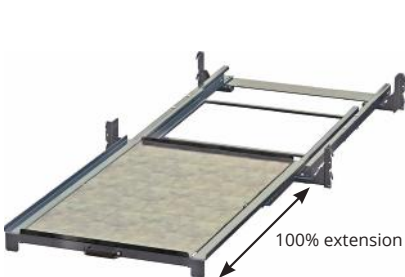
As with our other pull-out units, Smart Storing UM units are supported by a rigid lower frame. The cheap way of making an upright-mounted unit is to have two separate rails supporting the sliding carriage, one on each side. Guess what happens when the racking gets a knock or goes slightly out of square? The unit doesn't slide any more, of course! You won't have this problem with our units, as our rails are integral to the square bottom frame. That means that our units are not affected by racks which are not straight, and will continue to function even if a rack is slightly out of alignment.



Choose upright-mounted pull-out unit

As usual we offer three choices of pull-out shelves as regards extendability: 100% for maximum accessibility, 70% for best economy. Shelves consist of strong, easy to maintain galvanised sheet steel with 12mm raised edges to hold cartons etc in place. Sized to the standard EUR-pallet format of 800mm x 1200mm, they are perfect for both Euro crates and pallet collars.

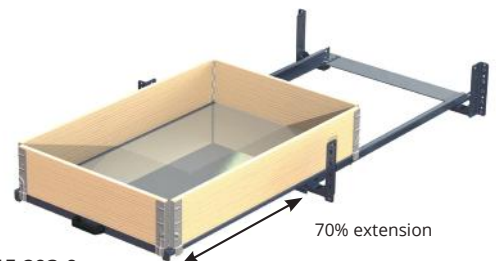
Load size	Specification	Loadcapacity		
		150 kg	200 kg	600 kg
EUR	Upright-mounted pull-out unit 100% extension, raised edges, connectors included,	15 201-1		
EUR	Upright-mounted pull-out unit 70% extension, raised edges, connectors included		15 201-0	
EUR	Upright-mounted pull-out unit 70% extension, for pallet collar EUR-pallet, connectors included		15 203-0	
EUR	Upright-mounted pull-out unit 70% extension, connectors included			15 600-0
EUR	Upright-mounted pull-out unit 100% extension, connectors included			15 600-1



15 201-1
100% extension is the best choice for storing small containers or items in small compartments, so that you can reach everything easily - especially if you have items in the last 400mm.



15 201-0
70% extension works fine for bigger compartments and boxes, or you can use a mixture of sizes so long as you put the small ones at the front of the unit and have the ones at the back at least 600mm deep.



15 203-0
This model is only for placing a pallet collar directly on the unit - it has a flat surface with no edges.



Pallet handling goods 15 600-0, 15 600-1

Just like BM and FM units, UM pull-out units can be supplied 'bare frame' for storing pallets or with steel shelves for storing cartons, containers and individual items. Choose between 100% and 70% extendability.



If you need to load UM units with heavy items using an overhead crane, choose 100% extension units. These are also ideal when you have small items at the back of a unit.



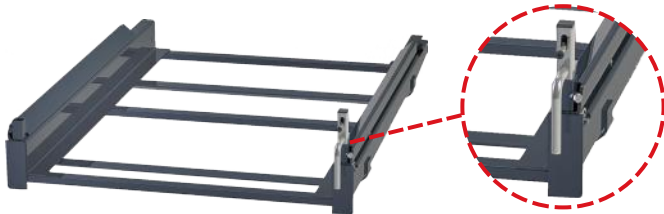
Choose side handles

UM units for pallets must be fitted with side handles, which makes it easy to pull them out without bending or straining, especially when units are fitted in the mid to low range of picking heights. The length of the handle is chosen according to how much headroom you have below the next unit, while for good ergonomics it should be as long as possible when the unit is placed near to floor level.



Article no.	H	Specification
15-601-0	133	Locking handle for units very close together.
15-601-1	250	Locking handle (fits 1 pallet +1 pallet collar, total height 345mm)
15-601-2	450	Locking handle (fits 1 pallet +2 pallet collars, total height 510mm)
15-601-3	645	Locking handle (fits 1 pallet +3 pallet collars, total height 735mm)

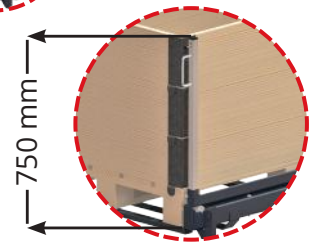
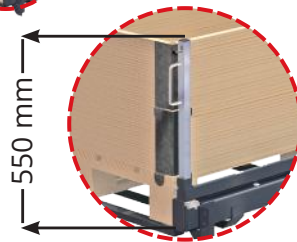
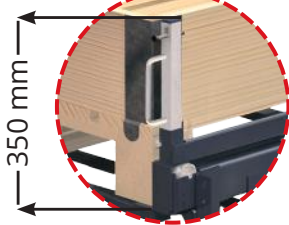
15 601-1/2/3



If you need to place your pull-out units very close together, it's best to choose the 15 601-0



Which length handle do you need?



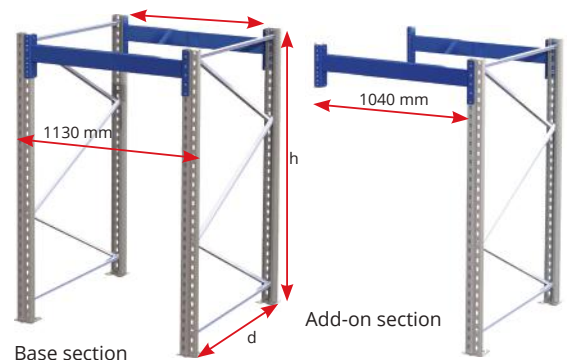
*Is 2500mm not high enough for you?
Just ask us!*

The basic units of this rack are the side frames, consisting of 2 uprights tied together with connecting bars, and the cross-beams - 2 per section. From these components you build up your rack however it suits you by simply bolting on more beams and frames. The cross-beams are there to hold the whole structure together, of course, but they can also be used to create additional buffer storage on top, if wished. Side frames are available in standard (2m) and tall (2.5m) heights. Load capacity is up to 2000kg per section. It is essential to fix the rack securely to the floor - expanding bolts are included.

Standardrack

The basic units of this rack are the side frames, consisting of 2 uprights tied together with connecting bars, and the cross-beams - 2 per section. From these components you build up your rack however it suits you by simply bolting on more beams and frames. The cross-beams are there to hold the whole structure together, of course, but they can also be used to create additional buffer storage on top, if wished. Side frames are available in standard (2m) and tall (2.5m) heights. Load capacity is up to 2000kg per section. It is essential to fix the rack securely to the floor - expanding bolts are included.

Article no.	h	d	w	Specification
15-20001101	2000	1100	950	Standard base section: 2 side-frames, 2 cross-beams, fitting kit
15-20001102	2000	1100	950	Standard add-on section: 1 side-frame, 2 cross-beams, fitting kit.
15-25001101	2500	1100	950	Tall base section: 2 side-frames, 2 cross-beams, fitting kit
15-25001102	2500	1100	950	Tall add-on section: 1 side-frame, 2 cross-beams, fitting kit.



FIFO Flow shelves and tilt profiles

Would you like FIFO shelving units side-by-side in your existing pallet racking? No problem, we can fix that!

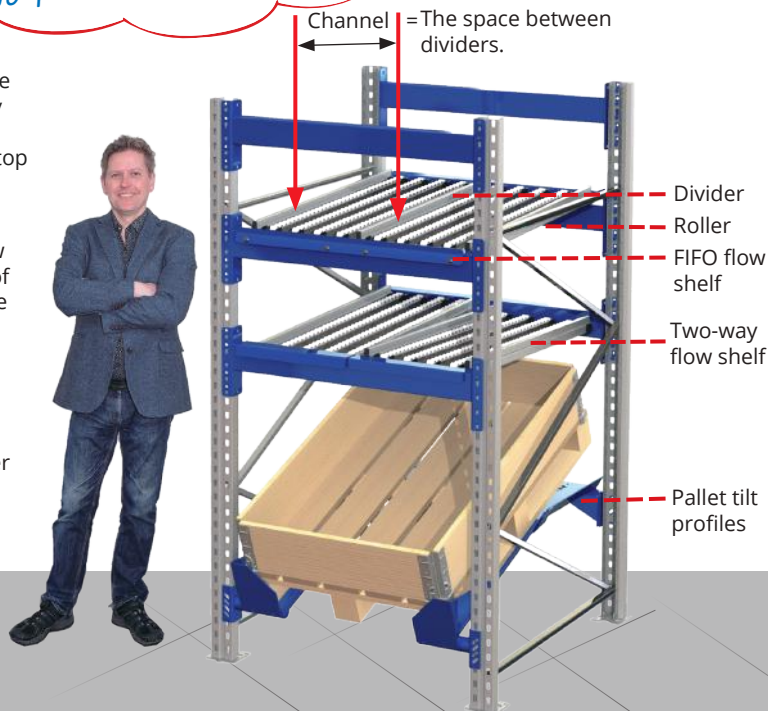
A materials handling system which puts the required items where the picker can easily reach them is crucial for achieving maximum efficiency and good ergonomics. Flow shelves with rollers allowing cartons and plastic containers to slide to the front are one part of the solution. Another is the tilting pallet profile which presents loose materials in a pallet box in such a way that they are always easy to see and extract, and still efficient to restock when necessary. The rollers and dividers used in Smart Storing flow shelves are top quality which guarantees a long working life.

A FIFO system is easily put together on UM racks, using our flow shelves with dividers. This system makes for smooth handling of either cartons or plastic bins and ensures that you're picking the oldest stock item first. At the same time, when used as part of a picking face, you get a clear overview of all components.

Flow racks can be ordered in a range of different layouts. The number of rollers and dividers is decided by how big your containers are. Typically 2 or 3 rollers are used in each channel with a divider between each channel. With heavy items or bigger boxes, more rollers are needed per channel.

XX in the product specifications below defines the number of rows of rollers and YY the number of dividers per unit. For example: 15 900-0603 would have 6 rows of rollers and 3 dividers.

*FIFO = First In First Out



FIFO flow shelf

For a one-directional flow of materials - load at one side and pick from the other.

Article no.	w	d	Specification
15-900-XXYY	940	1100	FIFO unit with XX rows of rollers and YY dividers

Two-way flow shelf

For two-way flow within a single shelf unit. load and pick at same side. The usual solution for empty packaging.

Article no.	w	d	Specification
15-901-XXYY	940	1100	Two-way roller tracking shelf with XX rows of rollers and YY dividers

End-of-rack FIFO shelf

Available in three widths, all with two rows of rollers, retaining lips on both sides and end-stop. Can be fitted with reverse flow direction. Can be fitted to left or right side of rack.

Article no.	w	Specification
15-902-0202	200	FIFO shelf for end-of-rack, 2 rows of rollers, 2 retaining lips and end-stop
15-903-0202	300	FIFO shelf for end-of-rack, 2 rows of rollers, 2 retaining lips and end-stop
15-904-0202	400	FIFO shelf for end-of-rack, 2 rows of rollers, 2 retaining lips and end-stop

FIFO picking shelf

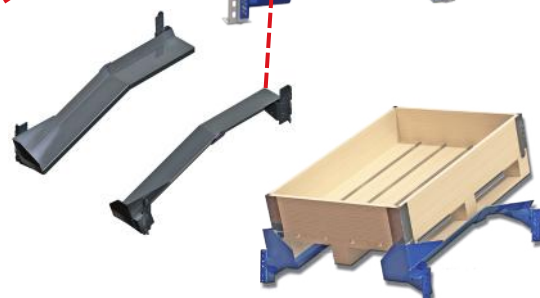
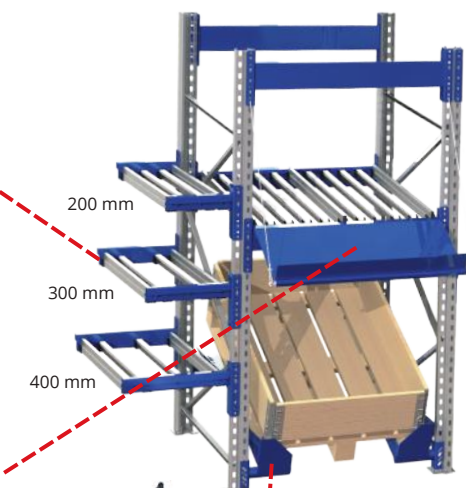
Combining a FIFO roller shelf with a cranked metal shelf gives you the perfect picking shelf, allowing the best overview of components and providing efficient and convenient working positions. You can adjust the angle of tilt to suit your requirements.

Article no.	w	d	Specification
15-905-XXYY	940	300	Picking shelf with XX rows of rollers and YY dividers

Pallet tilt profiles

These profiles are used to tilt a pallet forwards, allowing small or light components to slide down to the front, thus making life easier for the picker. The design also allows the picker to slide an empty pallet back into a horizontal position, indicating to the stores supervisor or fork lift driver that it's ready for replacing or restocking.

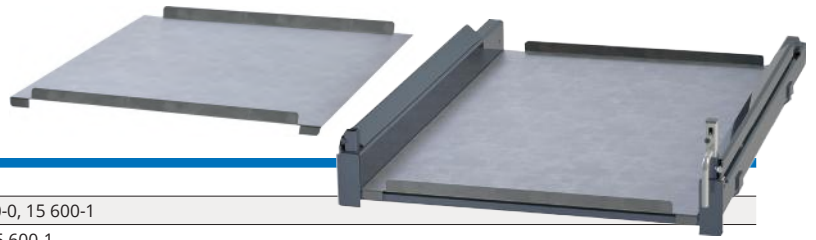
Article no.	w	d	Specification
15-500-0	837	1100	Pallet tilt profiles, supplied in pairs



Accessories for UM units

Steel shelf panels

These galvanised steel panels cover the tops of 'bare frame' pull-out units so they can be used with cartons or plastic bins. Available with or without raised edges. Available in both standard thickness and double thickness for heavy duty applications. The latter is used when the shelf is subjected to point loads i.e. with individual heavy items. Ideal for tools and dies, moulds and heavy automotive components for example.



Article no.	Specification
15-160-0	Steel shelf panel T=1.5mm, without raised edges, fits 15 600-0, 15 600-1
15-160-1	Steel shelf panel T=3mm, with raised edges, fits 15 600-0, 15 600-1
15-160-2	Steel shelf panel T=3mm, without raised edges, fits 15 600-0, 15 600-1

Accessories for rack

All the products in our vast range have got there because they meet genuine customers' needs, whether in storage, lean production or automotive assembly. Flexibility is a key note of our business, so we offer lots of smart accessories to help you tailor our base units to your exact requirements and to make your operations slicker and more efficient. What are your company's needs? Let's see if we can take care of them together with you!

* Plastic bins not included!



Inclined shelves and brackets for assembly station

An assembly station consists of 4 special brackets, of which the front two include integrated minitoolboards, plus from 2 to 4 inclined metal shelves. Ideal when combined with a worktop shelf, toolholders and suitable plastic bins as illustrated. A wide range of tool holders can be found in the 'Tool boards' brochure.

Article no.	w	d	Specification
15-910-0	940	1100	Set of 4 brackets, including integrated toolboards
15-910-1	931	523	Inclined shelf, powder-coated steel, blue (item)

Work surface

Make a pallet section into a workbench, with a 28mm blockboard work surface mounted on a pull-out unit. For 950mm and 1800mm sections

Article no.	w	d	Specification
15-911-0	940	1100	Complete kit for 950 mm section



smartstoring.eu

Choice of colours

All our products are supplied in standard colours RAL 7024 (graphite grey) or RAL 5010 (blue). Other colours in the RAL-range may be ordered at additional cost and with a longer lead time for setting up in the paint shop.



Article no.	Specification
RALSTART	By agreement

Tilting Pallet Stand

- For optimal overview and access



Picking heavy components from pallets sitting on the shop floor is a great way to strain the back!

Choose a better alternative!



Good ergonomic choice

Features

- ✓ Multiple tilt angles
- ✓ Lock operated with foot pedal
- ✓ Gas springs make handling easy and effortless
- ✓ Adjustable rear support to fit height of pallet with collars
- ✓ Available for most pallet sizes
- ✓ For loads up to 500 kg
- ✓ Increases productivity and working efficiency
- ✓ No need to handle pallet collars at work stations

For more information
www.smartstoring.eu



Can be adapted to customers' requirements -just ask!

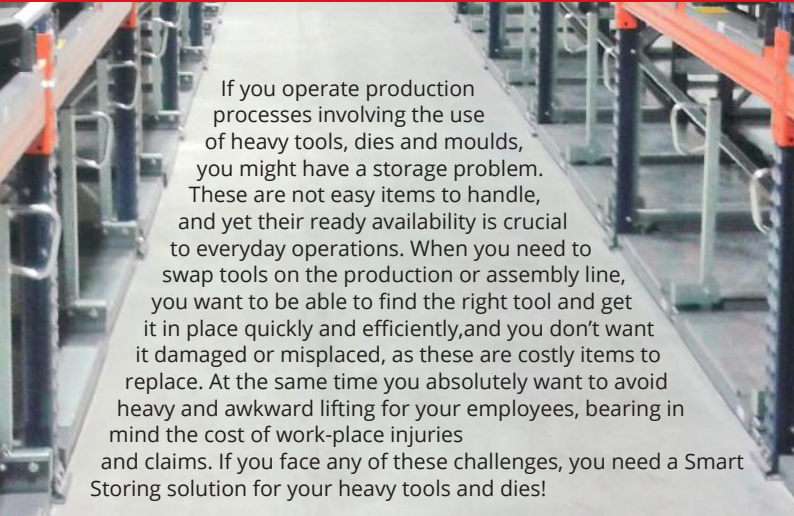
Our Tilting Pallet Stand offer better access to materials at the work station - resulting in higher productivity, better ergonomics for the assembly worker and less risk of damaging valuable products. Suitable for any larger items to be picked from pallet collar boxes on pallets. The stands can be arranged in series and can be adapted for any pallet size.



Our Tilting Pallet Stand is well tested and is in use today in the automotive industry. Please contact us for further information



Heavy Tool Storage



If you operate production processes involving the use of heavy tools, dies and moulds, you might have a storage problem. These are not easy items to handle, and yet their ready availability is crucial to everyday operations. When you need to swap tools on the production or assembly line, you want to be able to find the right tool and get it in place quickly and efficiently, and you don't want it damaged or misplaced, as these are costly items to replace. At the same time you absolutely want to avoid heavy and awkward lifting for your employees, bearing in mind the cost of work-place injuries and claims. If you face any of these challenges, you need a Smart Storing solution for your heavy tools and dies!

Features

- ☑ Choose between 70% or 100% extension
- ☑ High quality ball bearings
- ☑ Load capacity up to 1500kg per unit
- ☑ Can be fitted in almost any type of pallet racking
- ☑ Double-thickness steel shelf panels for high point loads
- ☑ Automatic safety locks hold the units in the pushed-in position
- ☑ Size of units can be custom-made to fit the tools you want to store, thus saving space
- ☑ Easy to load and retrieve with overhead cranes, especially with the 100% extension option making it possible to get at all items, even those placed at the back of the unit

The smart solution for easy access and compact storage is the pull-out unit, of course. Get rid of pallets, get rid of fork lift trucks, and lift your tools and dies in and out with an overhead crane if they're too heavy to handle manually. But ordinary pull-out units are designed for pallets, which spread the loads evenly over the pull-out shelf.

That's why at Smart Storing we developed special versions for handling these valuable items in your inventory. For production tool storage, we offer heavy-duty pull-out units which can accept point loads in any location. They're available for Beam-mounted, Floor-mounted and Upright-mounted racking systems.



Do you recognise any of these scenarios in your current set-up?



- ☑ No overview - you can't actually see what you have at the back of the rack
- ☑ Workplace clutter - heavy tools and dies are left on pallets on the floor where they take up too much space, get in the way and are easy to damage.
- ☑ Tools not kept in top condition - you have them where they can get dirty or damaged by coming into contact with other tools
- ☑ Fork lift troubles - you have to use a truck to retrieve heavy tools, so there's a danger of them ending up on the floor. And the tools are too valuable to risk that!
- ☑ Machinery at a standstill - production downtime is excessive during your tool/die changes, so you're wasting resources and maybe even missing schedules.
- ☑ Injury risk - you have heavy tools on pallet racks, but they're hard to get out without awkward manoeuvring. Your workers are leaning too far in and are liable to straining.

Typical application areas

- ☑ Electricity Industry (generator parts)
- ☑ Tools & Dies (machine parts, heavy tooling)
- ☑ Plastics Manufacturing (injection moulds, castings)
- ☑ Turbine Manufacturing (production tooling, compressor parts)
- ☑ Steel Fabrication (speciality metals, pressbrake tooling, coil storage)
- ☑ Aerospace Industry (turbine components, engine components, dies)
- ☑ Oil and Gas Industry (pumps, hydraulic cylinders, flanges, casing tools, collars)
- ☑ Automotive Industry (stamping dies, test motors, assembly components, tools)
- ☑ Heavy Engineering (valves, hydraulic pumps, production tooling, compressor parts, precision drill heads, breaker boxes)



Linked Units for long goods and sheet materials



Features

- ✓ 70% and 100% extension units are available
- ✓ Can also be floor-mounted out of the rack with accessory feet
- ✓ Can be mixed in with other pull-out units, even one shelf at a time
- ✓ Handle sheet materials up to 3m x 1.5m and up to 1600kg per unit
- ✓ Handle long goods up to 3m length and weighing up to 1600kg per unit
- ✓ Compact storage with up to six levels within an ergonomic handling height
- ✓ Different types and sizes of materials needed for the same process can be stored all together
- ✓ Pull-out units mean goods can be loaded with a crane or a fork lift truck, and are typically picked with a crane or a vacuum lifter

Pull-out units in a racking system are often the best way of storing palletised goods, but what do you do with longer items such as pipes and tubing, or sheet materials which won't fit into a pallet space? Do you have to keep them in another part of your store, or on pallets on the ground, with the delays and inconvenience which that involves? Not any longer!

Smart Storing has an elegant solution:

We link two pull-out units together with a mid-section. Mount the Linked Units on a beam in your standard pallet racking and you have a cost-effective and practical long goods storage unit, at a convenient working height and amidst your regular inventory.



Storage system for sheet materials, pipes, rods and anything else too big to fit into a single pallet width.

For more information
www.smartstoring.eu

Here are the options to choose from when ordering Linked Units

Select options from the columns below to find the Article Numbers for your chosen products. If you don't find the numbers on the following pages, then the product isn't in our standard range, so please contact us for more information.

1. Load capacity



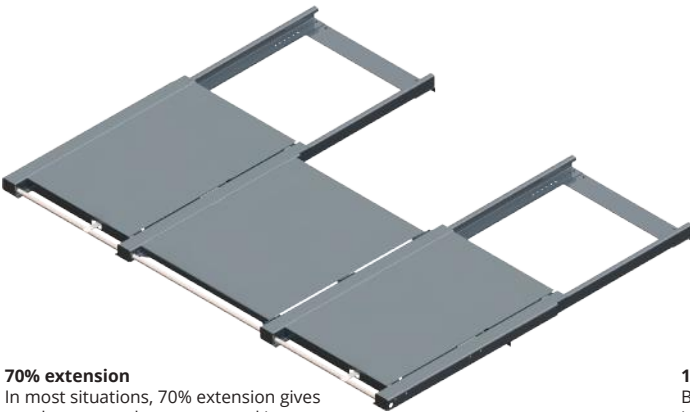
Check what your bundles of sheet materials actually weigh in order to choose the right load capacity. Load ratings given assume an evenly distributed load over the whole surface. The choice is between 400kg, 600kg, 1200kg and 1600kg.

2. Width Depth Note

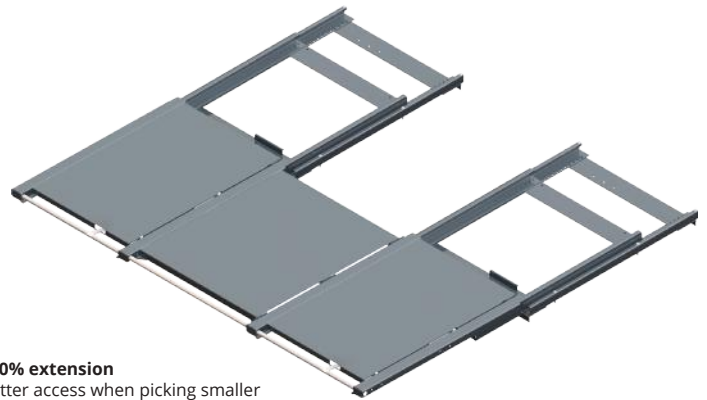
(17) w = 1700	d = 1200	
(21) w = 2100	d = 1200	The perfect size for sheet metals in the 2000mm x 1000mm format.
(26) w = 2600	d = 1200	Suits sheet metals in the 2500mm x 1250mm format, or board materials in the 2440mm x 1250mm format.

*Linked Units have a flat loading surface, so it's possible for materials to stick out over the edge of the unit. If required, they can be fitted with raised edges to prevent this, as well as with dividers to separate different materials.

3. Extension



70% extension
In most situations, 70% extension gives good access to the storage, and is most economical.



100% extension
Better access when picking smaller items from the back of the unit, or if you need to use an overhead crane.



Linked Units can be made to measure to suit your exact requirements.

How to find the Article Number for the Linked Units you want

Group	1	2	3
	Load capacity	Unit width	Pull-out extension
	No.	No.	No.
27	(4) 400 kg (6) 600 kg (12) 1200 kg (16) 1600 kg	(17) w = 1700 (21) w = 2100 (26) w = 2600	(0) 70% (1) 100%
27	4	21	-1
Beam	400 kg	2100 mm	100%

This example has Article Number **27 421-1** and can be found on the following page.





70% extension

Linked pull-out units for loads up to 400kg

Article no.	Specification	Steel shelf panel that fits
27-417-0	B = 1700	27 120-17
27-421-0	B = 2100	27 120-21
27-426-0	B = 2600	27 120-26

Linked pull-out units for loads up to 600 kg

Article no.	Specification	Steel shelf panel that fits
27-617-0	B = 1700	27 160-17
27-621-0	B = 2100	27 160-21
27-626-0	B = 2600	27 160-26

Linked pull-out units for loads up to 1200 kg

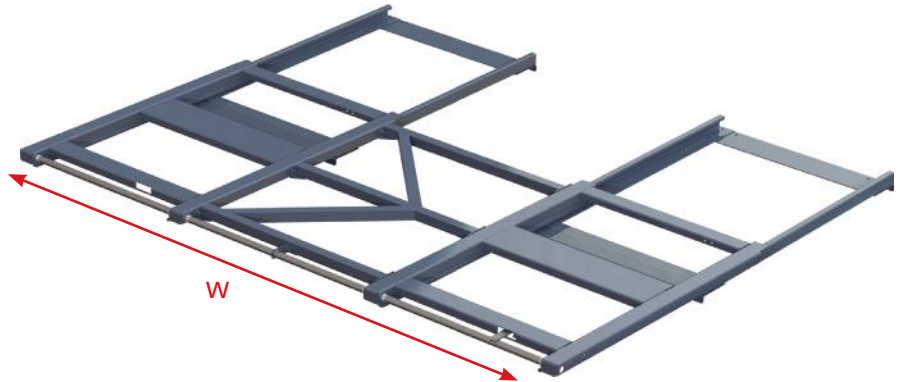
Article no.	Specification	Steel shelf panel that fits
27-1217-0	B = 1700	27 160-17
27-1221-0	B = 2100	27 160-21
27-1226-0	B = 2600	27 160-26

Linked pull-out units for loads up to 1600 kg

Article no.	Specification	Steel shelf panel that fits
27-1617-0	B = 1700	27 180-17
27-1621-0	B = 2100	27 180-21
27-1626-0	B = 2600	27 180-26



Steel shelf panel is an accessory and must be ordered separately.



100% extension

Linked pull-out units for loads up to 400 kg

Article no.	Specification	Steel shelf panel that fits
27-417-1	B = 1700	27 121-17
27-421-1	B = 2100	27 121-21
27-426-1	B = 2600	27 121-26

Linked pull-out units for loads up to 600 kg

Article no.	Specification	Steel shelf panel that fits
27-617-1	B = 1700	27 160-17
27-621-1	B = 2100	27 160-21
27-626-1	B = 2600	27 160-26

Linked pull-out units for loads up to 1200 kg

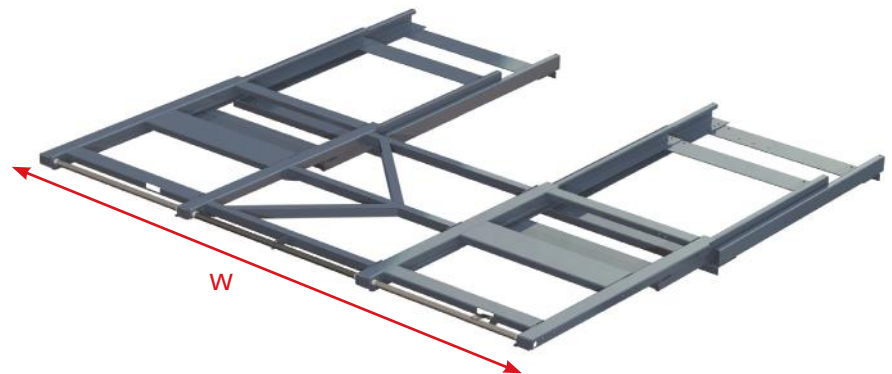
Article no.	Specification	Steel shelf panel that fits
27-1217-1	B = 1700	27 160-17
27-1221-1	B = 2100	27 160-21
27-1226-1	B = 2600	27 160-26

Linked pull-out units for loads up to 1600 kg

Article no.	Specification	Steel shelf panel that fits
27-1617-1	B = 1700	27 180-17
27-1621-1	B = 2100	27 180-21
27-1626-1	B = 2600	27-180-26



Steel shelf panel is an accessory and must be ordered separately.



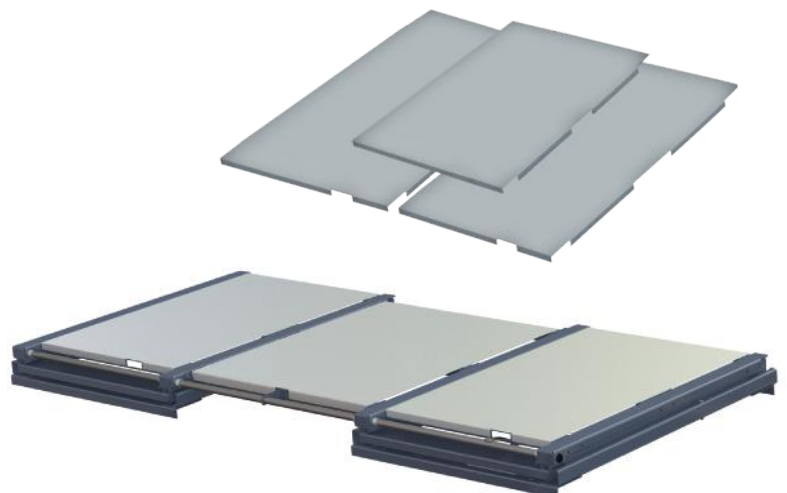
Accessory steel shelf panel

Steel shelf panel

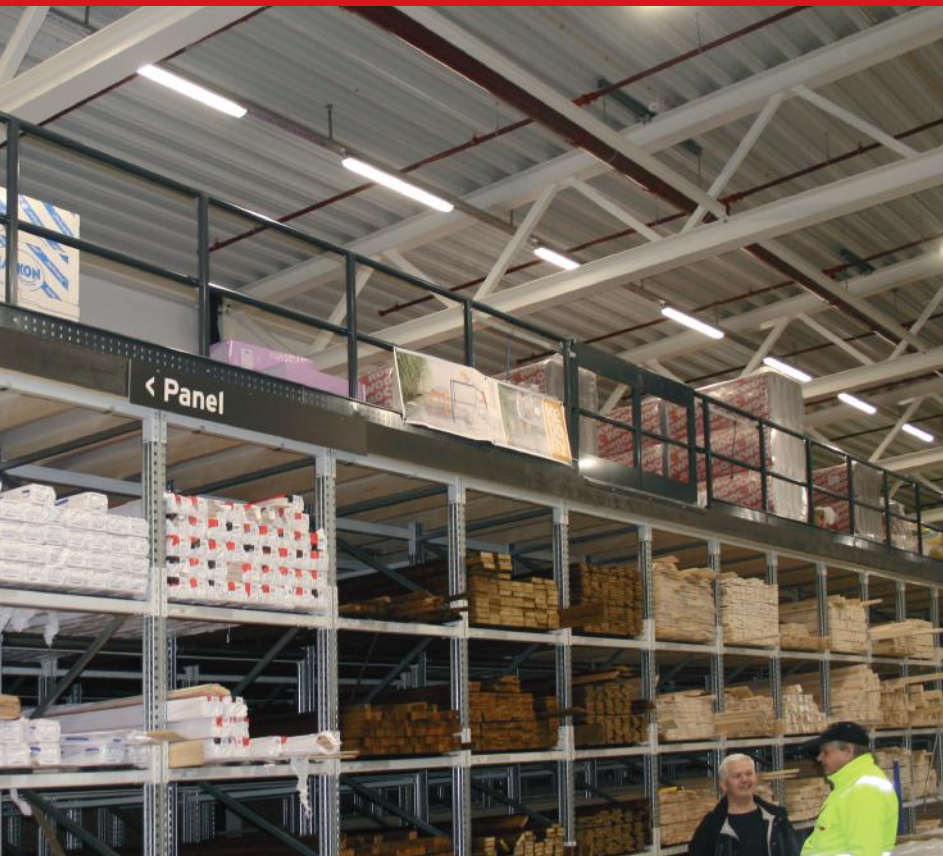
This accessory covers the top of the pull-out unit so that smaller items such as plastic bins or cartons can't slip through. You can still use the unit for pallets, so you have fully flexible storage.

Material: Galvanized mild steel

Article no.	Fits unit	number of plates
27 120-17-0	27 417-0	2 pcs
27 120-21-0	27 421-0	3 pcs
27 120-26-0	27 426-0	3 pcs
27 121-17-1	22 417-1	2 pcs
27 121-21-1	22 421-1	3 pcs
27 121-26-1	22 426-1	3 pcs
27 160-17	27 617-0, 27 617-1, 27 1217-0, 27 1217-1	2 pcs
27 160-21	27 621-0, 27 621-1, 27 1221-0, 27 1221-1	3 pcs
27 160-26	27 626-0, 27 626-1, 27 1226-0, 27 1226-1	3 pcs
27 180-17	27 1617-0, 27 1617-1	2 pcs
27 180-21	27 1621-0, 27 1621-1	3 pcs
27 180-26	27 1626-0, 27 1626-1	3 pcs



Smart Storage for building supplies



Info

Builders' merchants and large DIY stores selling building supplies offer a challenge in terms of efficient storage that can also be practical in a modern retail environment. In builders' yards and trade outlets, storage units can be of an industrial type, with an emphasis on ease of loading by fork lift truck, whereas in DIY centres and retail premises, smart appearance and convenience for the general public are important.

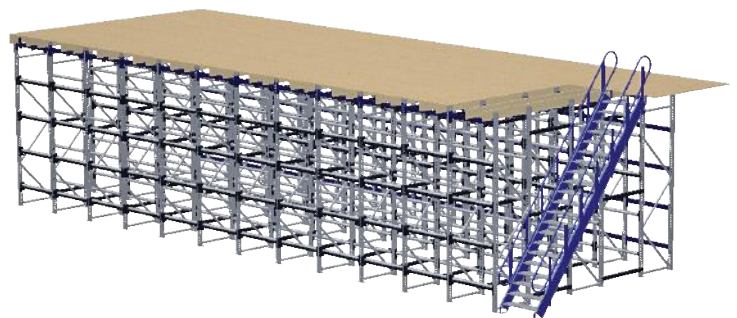
The modern supplier of building materials has to carry a huge range of different products from what were previously quite separate branches. When these are stored on racking, it's not smart if they need a fork lift or a ladder to fetch them down. Better systems are needed – and everything on sale should be clearly visible and presented in an inviting way.

At Smart Storing we believe we have the situation covered, with a wide range of products to meet the different demands of this sector. In fact, we can offer complete packages to fit out a whole yard.

For more information
www.smartstoring.eu

Roll-in, pull-out timber storage

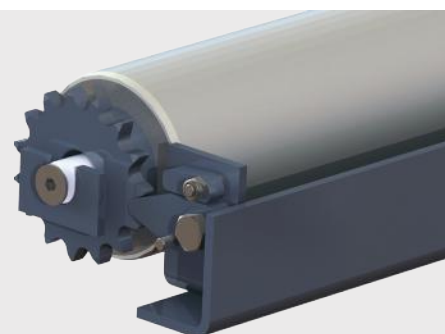
The typical scenario is a drive-in shed where customers can serve themselves. The advantages of storing lengths of timber endways-on are that you make best use of the storage space and can have a much smaller 'picking' area for your customers than if you store them longways-on. More product lines can be presented in the same access lane, as well. But it can be much harder to load whole bundles into a narrow bay. Not with Smart Storing roller units, however. A fork lifter can slide a bundle of timber in easily, refilling a bay in minutes. Our proprietary mechanism on the front rollers only allows rotation in the inward direction, so the whole bundle cannot accidentally be slid out again. Instead the customers can pull out whatever they want, piece by piece, without needing any assistance from staff.



Key advantages

- ☑ Maximise use of floor space
- ☑ Allows access to individual planks
- ☑ Front rollers lock automatically with the Smart Storing mechanism
- ☑ A mezzanine floor can be created on top of the timber storage.

***New feature!** A safety lock is now available so that you can stop rotation in both directions. That can be useful when you're topping up with shorter lengths and don't want the whole lot to go in any further. Release again when you want to load full bundles.



Good choice 



Features

- ☑ Smart appearance
- ☑ Products safely supported
- ☑ Adjustable width and height
- ☑ Multi-purpose, suits most long goods
- ☑ Easily customisable for different products
- ☑ Products separated and accessible by size and type

The kind of products we are talking about here are:

- ☑ lengths of wood
- ☑ plastic or copper pipes
- ☑ aluminium profiles
- ☑ guttering and downpipes
- ☑ doors
- ☑ ladders etc.

Lodur - vertical storage for long goods

The practical solution for these products is loop storage, which consists of plastic coated wire loops which slot into a steel framework behind the goods on display. This is a flexible system which works for most long goods. Products are safely supported and are accessible by size and type. The dividers are easily adjustable to cater for changing stocks, and the plastic coating protects planed timber from scratches and damage.

Smart Storing's loop storage display racks have specially designed vertical separators - the slimmest on the market - which make it possible to divide the racks into very narrow units, thus getting more product into every square metre. Our dividers are easy to adjust as stocks change.



Loop storage have a practical edge that fits well for label lists, and provides an easy overview of article numbers.



Lodur premium rack have many and strong steel profiles under steel sheet plates to wear high load.

With practical signs in heavy sheet metal and in stylish design, which is easily mounted on the dividers it is easy to find different range areas.

Loop storage racks, supplied in sections

Racks can be single-sided for placing against a wall or double-sided for free-standing applications. They come in two versions:



Lodur standard

For wholesalers, where function is more important than appearance – supplied in blue.

Base section for single-sided Standard



Article no.	↑ h	← w	d ↘	Specification
BESG26094-BI	2000 mm	950 mm	600 mm	incl. 4 separators
BESG26186-BI	2000 mm	1800 mm	600 mm	incl. 6 separators
BESG262710-BI	2000 mm	2700 mm	600 mm	incl. 10 separators

Base section for two-sided Standard



Article no.	↑ h	← w	d ↘	Specification
BDSG260908-BI	2000 mm	950 mm	600 mm	incl. 8 separators
BDSG261812-BI	2000 mm	1800 mm	600 mm	incl. 12 separators
BDSG262720-BI	2000 mm	2700 mm	600 mm	incl. 20 separators

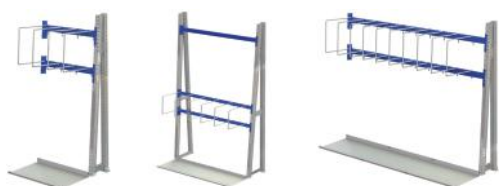


Article no.	↑ h	← w	d ↘	Specification
BESG46094-BI	4000 mm	950 mm	600 mm	incl. 4 separators
BESG46186-BI	4000 mm	1800 mm	600 mm	incl. 6 separators
BESG462710-BI	4000 mm	2700 mm	600 mm	incl. 10 separators



Article no.	↑ h	← w	d ↘	Specification
BDSG460908-BI	4000 mm	950 mm	600 mm	incl. 8 separators
BDSG461812-BI	4000 mm	1800 mm	600 mm	incl. 12 separators
BDSG462720-BI	4000 mm	2700 mm	600 mm	incl. 20 separators

Add-on section for single-sided Standard



Article no.	↑ h	← w	d ↘	Specification
BESF26094-BI	2000 mm	950 mm	600 mm	incl. 4 separators
BESF26186-BI	2000 mm	1800 mm	600 mm	incl. 6 separators
BESF262710-BI	2000 mm	2700 mm	600 mm	incl. 10 separators

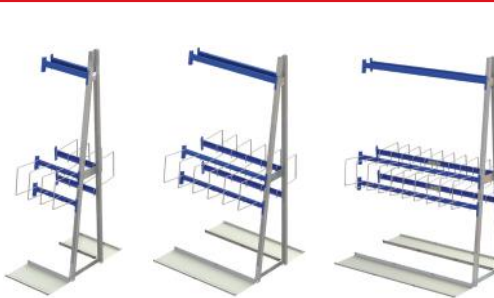
Add-on section for two-sided Standard



Article no.	↑ h	← w	d ↘	Specification
BDSF260908-BI	2000 mm	950 mm	600 mm	incl. 8 separators
BDSF261812-BI	2000 mm	1800 mm	600 mm	incl. 12 separators
BDSF262720-BI	2000 mm	2700 mm	600 mm	incl. 20 separators



Article no.	↑ h	← w	d ↘	Specification
BESF46094-BI	4000 mm	950 mm	600 mm	incl. 4 separators
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Article no.	↑ h	← w	d ↘	Specification
BDSF460908-BI	4000 mm	950 mm	600 mm	incl. 8 separators
BDSF461812-BI	4000 mm	1800 mm	600 mm	incl. 12 separators
BDSF462720-BI	4000 mm	2700 mm	600 mm	incl. 20 separators

Lodur Premium

For retailers, who want a uniform, shop-like experience for their customers. Premium racks come with an integrated floor pan and a high kick-board allowing room for price and product labels. Purchasers also get to choose a colour scheme so that the units blend in to their store environment and products are displayed at their best.



Base section for single-sided Premium



Article no.	↑ h	→ w	d ↘	Specification
ESG26094-BI	2000 mm	950 mm	600 mm	incl. 4 separators
ESG26186-BI	2000 mm	1800 mm	600 mm	incl. 6 separators
ESG262710-BI	2000 mm	2700 mm	600 mm	incl. 10 separators

Base section for two-sided Premium



Article no.	↑ h	→ w	d ↘	Specification
DSG260908-BI	2000 mm	950 mm	600 mm	incl. 8 separators
DSG261812-BI	2000 mm	1800 mm	600 mm	incl. 12 separators
DSG262720-BI	2000 mm	2700 mm	600 mm	incl. 20 separators



Article no.	↑ h	→ w	d ↘	Specification
ESG46094-BI	4000 mm	900 mm	600 mm	incl. 4 separators
ESG46186-BI	4000 mm	1800 mm	600 mm	incl. 6 separators
ESG462710-BI	4000 mm	2700 mm	600 mm	incl. 10 separators



Article no.	↑ h	→ w	d ↘	Specification
DSG460908-BI	4000 mm	950 mm	600 mm	incl. 8 separators
DSG461812-BI	4000 mm	1800 mm	600 mm	incl. 12 separators
DSG462720-BI	4000 mm	2700 mm	600 mm	incl. 20 separators

Add-on section for single-sided Premium



Article no.	↑ h	→ w	d ↘	Specification
ESF26094-BI	2000 mm	950 mm	600 mm	incl. 4 separators
ESF26186-BI	2000 mm	1800 mm	600 mm	incl. 6 separators
ESF262710-BI	2000 mm	2700 mm	600 mm	incl. 10 separators

Add-on section for two-sided Premium



Article no.	↑ h	→ w	d ↘	Specification
DSF260908-BI	2000 mm	950 mm	600 mm	incl. 8 separators
DSF261812-BI	2000 mm	1800 mm	600 mm	incl. 12 separators
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ESF46186-BI	4000 mm	1800 mm	600 mm	incl. 6 separators
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Article no.	↑ h	→ w	d ↘	Specification
DSF460908-BI	4000 mm	950 mm	600 mm	incl. 8 separators
DSF461812-BI	4000 mm	1800 mm	600 mm	incl. 12 separators
DSF462720-BI	4000 mm	2700 mm	600 mm	incl. 20 separators

Doors and other tall upright items

These are best stored standing in a display rack with plenty of dividers, as there can be many different product items in this group. Smart Storing offers two standard solutions for pipes and similar products, both based on pallet racking as this allows for the possibility of storing buffer stocks above or to the side of the display rack:

- Display at floor level, on a sheet metal base which can be covered with rubberised material or other protective layers. A raised edge prevents pipes from falling out.
- Display one level up. The floor level can then be used for associated items such as brackets, bends and clips, by fitting Floor-mounted pull-out units. That way you make best use of the space.
- Completing the display stand with end panels gives you a useful place to put labels, information, brochures etc. Clear labelling makes it easy for your customers to find the right product.



Guttering, downpipes and similar tall products

These are best stored standing in a display rack with plenty of dividers, as there can be many different product items in this group. Smart Storing offers two standard solutions for pipes and similar products, both based on pallet racking as this allows for the possibility of storing buffer stocks above or to the side of the display rack:

- Display at floor level, on a sheet metal base which can be covered with rubberised material or other protective layers. A raised edge prevents pipes from falling out.
- Display one level up. The floor level can then be used for associated items such as brackets, bends and clips, by fitting Floor-mounted pull-out units. That way you make best use of the space.
- Completing the display stand with end panels gives you a useful place to put labels, information, brochures etc. Clear labelling makes it easy for your customers to find the right product.



Accessories

Dividers

Smart Storing's loop storage display racks have specially designed vertical separators - the slimmest on the market - which make it possible to divide the racks into very narrow units, thus getting more product into every square metre. Made of 16mm steel tubing, our dividers are strong yet easy to adjust as stocks change.

Available in two sizes, 600mm deep and 800mm deep

Article no.	Specification
AVD-5-600	Divider d=600 mm
AVD-5-800	Divider d=800 mm



End covers for loop storage racks, Premium model

End covers complete your Premium stands by closing off the gable ends and giving a smarter appearance. Normally used where a gable end is exposed, not where units join or are positioned up against a wall. Available for both single- and double-sided stands.

Article no.	Specification
EP600V1	End covers left hand side
EP600H1	End covers right hand side



Staircase

For access to mezzanine floors and balconies. Steel frame, aluminium steps. Adjustable angles to fit different heights.



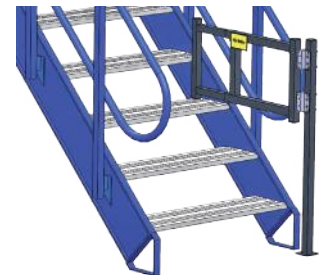
Self-closing pallet door

Makes it safe and easy to load pallets onto a mezzanine floor using a fork lifter or platform truck, where the operator cannot see what is in front of the load. This is all that is needed in an empty storage area. Available in 1500mm and 2000mm widths.



Stairs Barrier

In a retail environment it is essential to show clearly when a staircase is only for staff access. However, stairs barriers are also useful in an industrial environment, for example to protect workers from walking straight out into a truck lane. Self-closing and width-adjustable.



Mezzanine pallet gate

The ultimate solution. When loading pallets onto a mezzanine using fork lifters, a break must be made in the safety rail, but workers should not be exposed to the unprotected edge, nor to the pallet load as it is manoeuvred into place. The Smart Storing pallet gate makes handling operations safe and easy and is especially valuable in a space where people are walking around. A simple up-and-over design means that the user is always protected by a barrier and it cannot come to rest in an in-between position.



Balconies can be placed over a timber storage rack to make good use of the space.

They can be used for buffer stocks of timber or for storing other lighter building materials such as insulation. Sounds interesting? Talk to us!

Safety rails and barriers



Features

- ☑ Light weight – easy to move
- ☑ Available with 90° and 45° angles
- ☑ Easy self-assembly – bolts to floor
- ☑ Gates are available as an accessory
- ☑ Modular construction – design how you like
- ☑ Flexible, can be taken apart and rearranged by one man on his own

For more information
www.smartstoring.eu

Smart Block safety rails

Safety rails separate personnel from machinery and other dangers and demarcate safe walkways. They are also useful where there is a sudden change of level, such as around mezzanine floors.

Smart Block safety barriers

Safety barriers offer much more solid protection, especially against fork-lift trucks and other vehicles, in any area where people and vehicles have to share the same space.

Both systems are modular and can be assembled without any welding or cutting. All you need to build new railings or modify existing ones are simple hand tools. Smart design means that one person can assemble or disassemble the railings on his own.

We also make a safe loading gate to go with these railings, which is ideal when you want to use a fork lifter to deliver loads from one floor to a mezzanine or work platform above.



High traffic zones are a special environment and they demand special equipment. Vehicles move fast, the work tempo is higher, large machinery is operating 24 hours a day. For these areas, insist on Smart Storing's strong and stable safety barriers. Your workforce is worth protecting!

Smart Block safety barriers, for surfaces with truck traffic



Safety barriers are manufactured in steel throughout, powder coated for durability and environmental protection. The units consist of posts, rails and sheet steel panels, available in section lengths of 0.5m, 1.0m, 1.5m and 2.0m. They make a very strong construction, which protects pedestrians against accidental collisions with fork lift trucks and other vehicles. Ideal for truck lanes on the shop floor or in the warehouse, or for fencing off dangerous machinery.



Order your rail with price / meter and number of corners



Rail

Article no.	Specifikation
31-700000	Straight railing including poles and collision protection, price / met.

Corner

Article no.	Specifikation
31-7010802	90° corner incl kick plate, price / meter

SAFETY BARRIERS

- Gates are available as an accessory
- Available with 90° and 45° angles
- Easy self-assembly – bolts to floor
- Modular construction – design how you like
- Flexible, can be taken apart and rearranged by one man on his own
- Heavy duty 3 mm steel sheeting right to the ground keeps truck forks out of harm's way



Smart Block safety rails, for surfaces with walking traffic

Safety railings are manufactured in steel throughout, powder coated for durability and environmental protection. The units consist of posts and rails, with a kick plate on the floor. Use near exits and entrances, around workstations and assembly areas, and anywhere that pedestrians need to be separated from production or transport processes.

Rail

Article no.	Specifikation
31 171200	incl. posts, rails and kick plate

Corner

Article no.	Specifikation
31-170090	90° corner incl kick plate

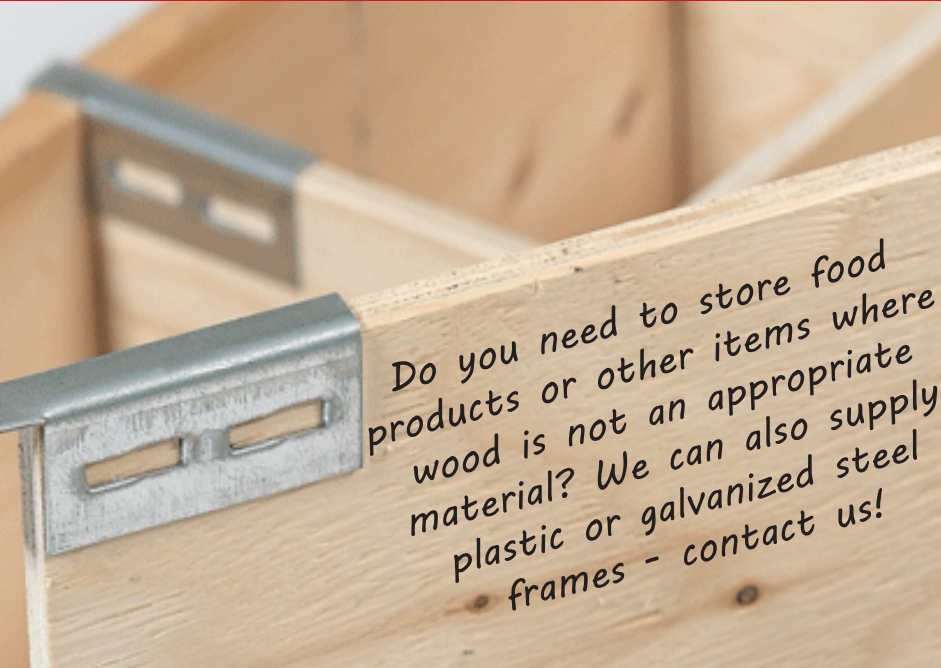
Order your rail with price / meter and number of corners

SAFETY RAILS

- Light weight – easy to move
- Available with 90° and 45° angles
- Easy self-assembly – bolts to floor
- Gates are available as an accessory.
- Modular construction – design how you like
- Flexible, can be taken apart and rearranged by one man on his own



Pallet box accessories



Do you need to store food products or other items where wood is not an appropriate material? We can also supply plastic or galvanized steel frames - contact us!

Information

Once you have your storage, how will you make best use of it?

This section is about how you can divide up your storage units for storing smaller items - and how you can find them again when you want them! Plus, some innovative solutions for economical temporary storage using pallet collars.

You've used a pallet collar on a pallet with a bottom board to make a simple and economical storage box. Now you want to divide it up to store multiple batches of small items.

- ☑ We have three different ways of achieving that for you.
- ☑ Any of them will bring order and efficiency to your storage; they differ in flexibility, strength and the numbers of compartments they can provide.
- ☑ All are made of recyclable materials.

Stacking Corners, plastic

Do you have loose pallet boxes all around your workstation or assembly point? Would it be safer and more convenient to be able to stack them? With our Stacking Corners, it's easy. These sturdy plastic corners enable you to put another pallet on top of a pallet collar, and they hold it in place so it doesn't slip off even when transported with a fork lifter. A set of 4 will take loads of up to 2000kg, stacked as high as you like within that weight limit. Our Stacking corners are made to last from high density polyethylene. They're washable, resistant to chemicals, heat- and frost resistant and won't crack.

Article no.	Specification
5903500-144	Black, 144pcs
5903501-144	Yellow, 144pcs
5903502-144	Blue, 144pcs



Stacking corners, steel

An alternative to plastic corners is stacking corners in steel plate. One set of 4 stacking corner will take loads up to 2000 kg. Stack as high you want within this weight limit.

Article no.	Specification
5903503	Zinc-plated steel



Heavy duty pallet box dividers

To make a really sturdy unit for storing heavy items, we recommend using wooden dividers of the same 22mm thickness as the pallet collar itself. Dividers come with metal brackets to hold them in place. Just snap these into place on the collars wherever you want to make a division. Very useful if you have long heavy items to store, or a combination of different sized items to store together.

Pallet box dividers, incl. 2 consoles	
Article no.	Specification
5903079	L = 600 mm
5903080	L = 800 mm
5903081	L = 1200 mm

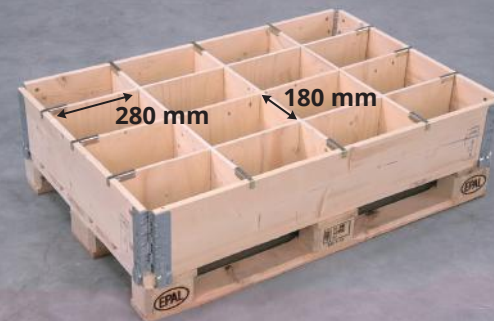
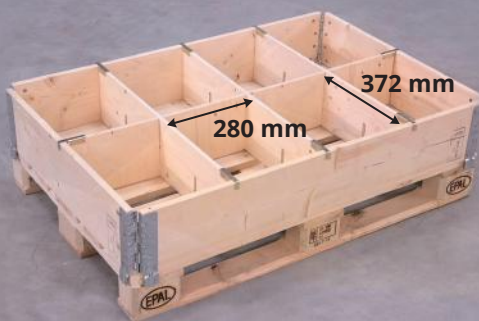
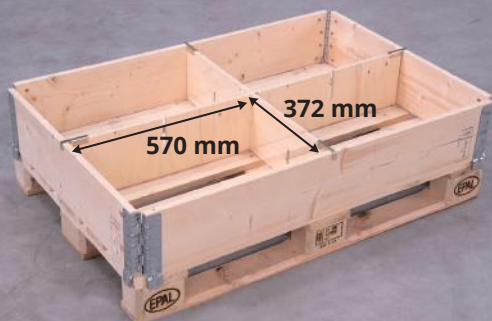


Slotted plywood pallet box divider

Our standard box dividers for Euro pallets are hung from the pallet collar sides using the integral metal brackets and are slotted to intersect with each other, thus dividing the box both lengthwise and crosswise to make your compartments. Buy singly or as complete systems for 4, 8 or 16 compartments. Also available for other pallet sizes.

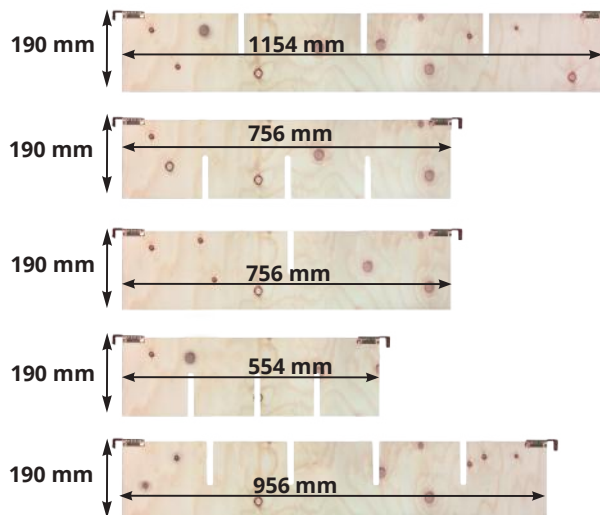
The dividers are manufactured from 12mm plywood with strong galvanized steel brackets.

Article no.	Specification
5903004	4 compartments, 570 x 372 mm
5903008	8 compartments, 372 x 280 mm
5903016	16 compartments, 280 x 180 mm



Slotted plywood pallet box divider, complete systems

Article no.	Specification	L x H	Fits
5903010	PE 1,3 slots	1154 x 190 mm	FIN-pallet, EUR-pall, long-side handling
5903020	PE 2,3 slots	756 x 190 mm	EUR-pallet, 1/1 or 1/2, short-side handling
5903021	PE 1/2, 1 slots	756 x 190 mm	EUR-pallet, 1/1 or 1/2, short-side handling
5903030	PE 3 slots	554 x 190 mm	EUR-pallet, 1/2, long-side handling
5903040	PE 4 slots	956 x 190 mm	FIN-pallet, short-side handling



Plastic dividers

For smaller sized compartments and more flexibility, we suggest plastic box dividers. These come in two different sizes - Standard and Jumbo, depending on how heavy your items are and how many compartments you want. Made of recycled polypropylene/polyethylene mix, they're easy to cut to different lengths if required, but are normally supplied in 750mm and 1150mm lengths, to fit the short and long-sides of the pallet box.

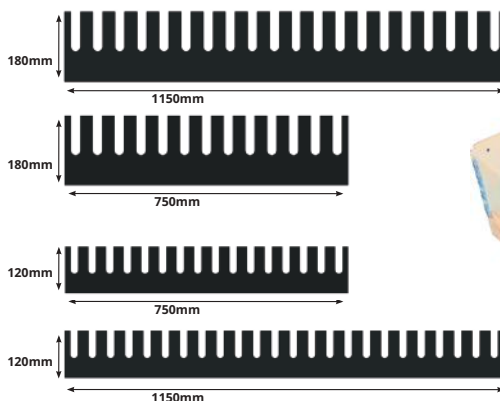
Plastic dividers are ideal for delicate or expensive tools, which are better protected by fitting the compartment size correctly to their dimensions. They are also used in food industry applications where wood is not permitted.

Plastic dividers Jumbo

Article no.	Space	L x H
25-AVD301	37 mm	1150 x 180 x 15
25-AVD302	37 mm	950 x 180 x 15
25-AVD303	37 mm	750 x 180 x 15

Plastic dividers Standard

Article no.	Space	L x H
25-AVD201	28 mm	1150 x 120 x 10
25-AVD202	28 mm	950 x 120 x 10
25-AVD203	28 mm	750 x 120 x 10



Hard to choose?

-contact us, and we will send a sample!

Pallet Separators

If you're using pallets or pallet boxes for temporary storage at an assembly station, you may also still want to access each pallet to pick components. Then you need our Pallet Separators. These are galvanised steel brackets which fit over each corner of the pallet or pallet box and support the next pallet, with a convenient gap in between of 250mm. A set of separators takes a load of up to 1000kg, so you can often make a stack 3 or 4 high. In effect, you have built a very economical temporary pallet rack, saving floor space and reducing bending for picking components. And you can take it down and store it out of the way as often as you like!



Collar to pallet

Article no.	Specification
5903550	Set of 4 pcs

Pallet to pallet

Article no.	Specification
5903551	Set of 4 pcs, 2 left and 2 right

Good choice 



When moving without fastening, the collars can loosen from the pallet and damage the load. It is avoided by using the Pallet collar grip



Pallet collar grip

If you're losing small items between the pallet collar and the pallet, you need a way to hold the collar down on to the pallet. Smart Storing's pallet collar grips do just that, with a simple piece of sprung wire, ridged on the underside so it stays where it's put. Simply snap into place, one on each side - no need to tie or lash the collar down any more - and the grips can be used over and over. Available for one to four pallet collars together, in sets of 4.

Article no.	Specification
5903520	For 1 pallet collar, 4pcs
5903521	For 2 pallet collars, 4pcs
5903522	For 3 pallet collars, 4pcs
5903523	For 4 pallet collars, 4pcs

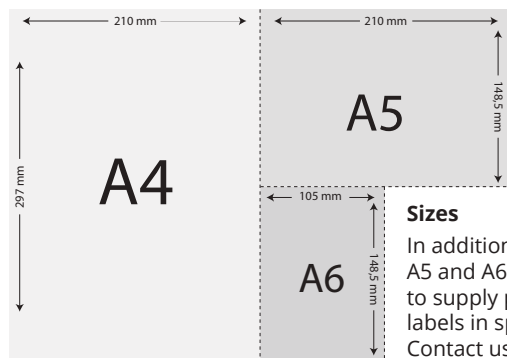
Marking & labeling



The industry standard for today's warehousing and production storage which provides the best combination of economy and efficiency is the plastic pocket, into which you can insert a card or paper label of your choice to make a document holder. We have a complete range of plastic pockets, specially adapted for each storage solution: for pallets themselves, pallet collars, pallet containers, mesh containers (Gitterbox), cartons, bins, Euro crates and pallet box dividers. Please ask for our tips, whether self-adhesive, magnetic or stapled pockets will suit your needs best. One of our specialities is the document holder in clear PVC, with an integral wire hanger - a very versatile item for securing a label in many places, available in six different sizes.

Labeling and logistics

The labeling of finished products, components, tools and other goods is a key success factor in any business. By being organized it is easy to find the right items, saving time and preventing expensive mistakes. We offer labeling for a variety of different applications in production, assembly, warehouse and order picking.



Colours

Standard colour for our plastic pockets is blue. On request we also offer transparent, green, yellow and red pockets.

Sizes

In addition to the standard A4, A5 and A6 formats, we are able to supply plastic pockets and labels in special dimensions. Contact us for details!

Information

- ✓ Clearly marked and labelled storage makes it quicker and easier to pick orders.
- ✓ Smoother order picking means faster turnaround, more efficient use of staff time and lower costs for your business.

Can you afford to waste time searching for unmarked pallets, or labels that have fallen off or become unreadable?



Design and quality

We want to provide the best possible solution for the identification of items at your business. Ask for samples so you can check what works best for you!



Advice

If you are unable to find a suitable solution, we are available for advice!



Delivery and service

We ensure that your order will be executed immediately; we keep more than 150 different marking products on stock. Orders for standard products can be sent within 1 business day.

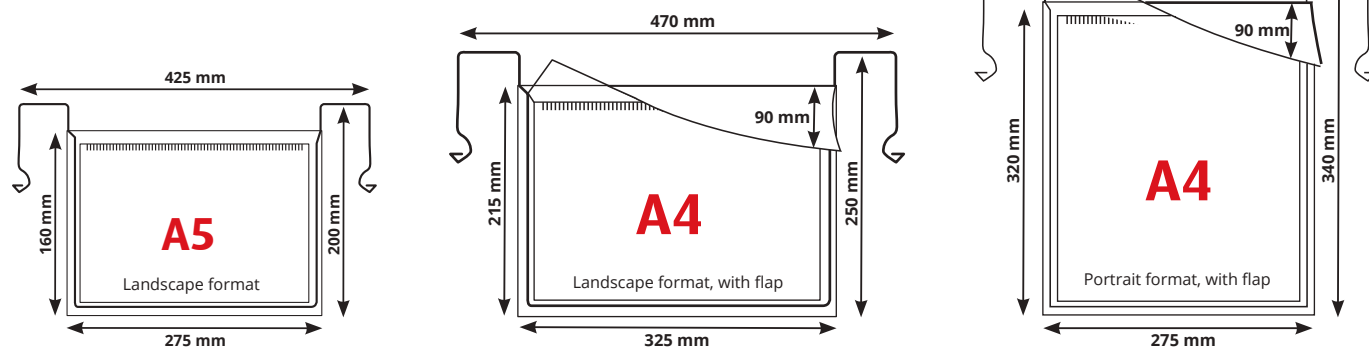
For more information
www.smartstoring.eu

At Smart Storing we don't believe in choosing between quality and environmental standards. All our plastic label pockets are stable and long lasting, they're fully recyclable and they're made in Sweden using EU-approved plastic softeners, instead of the carcinogenic phthalates commonly found in imported products.





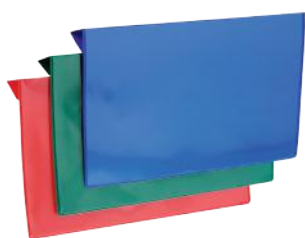
Universal Document Holders with wire hangers



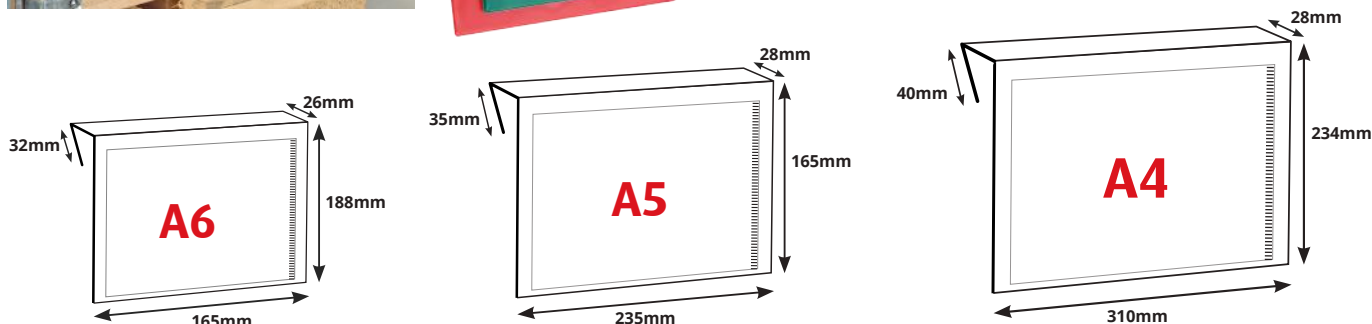
One of our specialties is the plastic document holder in clear PVC, with an integral wire hanger - a very versatile item for securing a label in many places, available in six different sizes. Wire hangers allow the holder to be attached in many places, for example, pallet collars, pallet containers, wire containers and well boxes, giving extra protection against damp and dust. Pockets can be open at the top for ease of access, or with an 90mm fold-over flap giving protection against rain and dirt - these are therefore suitable for outdoor use as well.

Article no.	Format	w x h in mm	Package	Specification
5901005	A5	275 x 160	100pcs	Landscape format
5901006	A5	275 x 160 + 90	100pcs	Landscape format, with flap
5901007	A4	325 x 215	100pcs	Portrait format
59010071	A4	325 x 215 + 90	100pcs	Portrait format, with flap
5901008	A4	275 x 320	100pcs	Landscape format
5901009	A4	275 x 320 + 90	100pcs	Landscape format, with flap

Pallet collar Document Holders



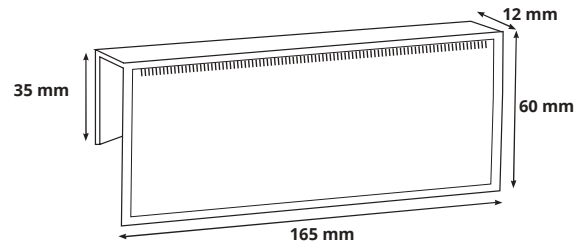
Document holders for pallet collars are our top selling line in this group!



Fit over the top edge of the collar. The front is transparent, documents can be inserted inside the wallet and can be read from the outside. They offer some protection from the elements with the opening at the side and are available in various sizes. Standard colour for plastic pockets is blue. Also available in transparent, green, yellow or red. Contact us for details.

Article no.	Format	w x h in mm	Package
5901024	Fits A6	165 x 188	100pcs
5901000	Fits A5	235 x 165	100pcs
5901010	Fits A4	310 x 234	100pcs

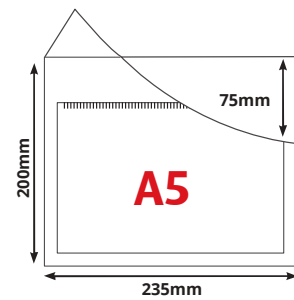
Document holder for pallet box



Robust holder with integral moulded lip to fit over the edge of a pallet box divider or other 12mm thick edge. The transparent front protects against dirt and moisture while allowing labels with bar codes to be scanned in situ. Fits where a standard document holder would be too big.

Article no.	w x h in mm	Package
5901028	165 x 60 + 12	100pcs

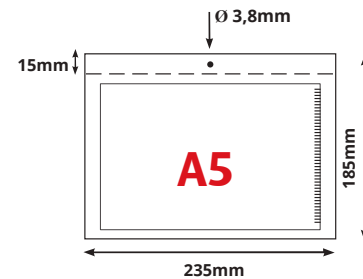
Document holder with hole punched and flap



A flat plastic document holder with a hole punched for ease of hanging on different surfaces. Use either metal eyelets or tape to secure to mesh containers (Gitterbox) or plastic rivets for speedily fixing to cartons (can easily be removed afterwards).

Article no.	Format	w x h in mm	Package
5901027	A5 for outdoor use	235 x 200 + 15	100pcs

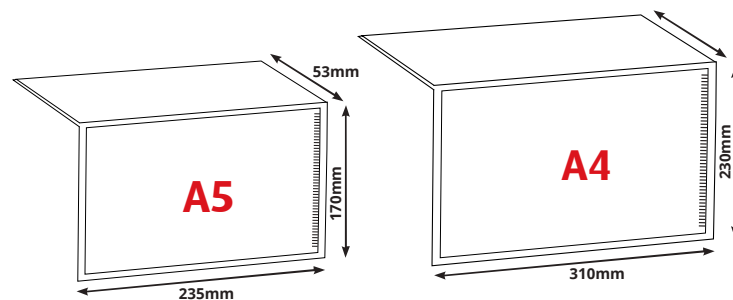
Document holder with hole punched



A flat plastic document holder with a hole punched for ease of hanging on different surfaces. Use either metal eyelets or tape to

Article no.	Format	w x h in mm	Package
5901021	A5	235 x 170 + 15	100st
5901050			Plastic rivet, for document holder, diam 10mm, pack/100pcs
5901051			Metal eyelets, 1,8 x 56 mm, pack / 100 pcs

Document holder for stacked cartons



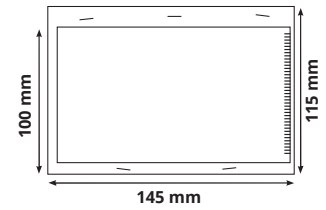
This holder has a 55mm lip at the top which slides in between cartons and is held by the weight of the cartons on top. The stack can then be labelled without using glue or tape and without leaving any marks at all on the boxes. The high quality plastic wallet can be used again and again.

Article no.	Format	w x h x d in mm	Package
5901020	A5	235 x 170 x 53	100pcs
5901019	A4	310 x 230 x 68	100pcs

Plastic wallet for Pallet



For labelling the pallet itself by fixing to the centre pallet block, either with a staple gun or double-sided tape. Dimensioned to fit an EU pallet.

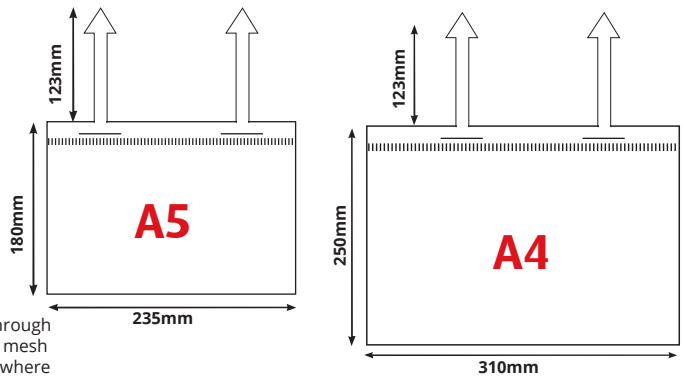


Article no.	Specification	w x h in mm	Package
5903000	Plastic wallet	145 x 100	100pcs

Document holder with tabs



This document holder is secured with the integrated plastic tabs that are pulled through the pocket slots and locks in there Easy to hang up and take down again. Ideal for mesh containers (Gitterbox) and similar. Especially useful for internal material handling where the holder can stay in place and the documents can be changed as necessary.



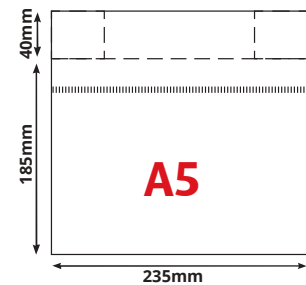
Article no.	Format	w x h in mm	Package
5901015	A5	235 x 185	100pcs
5901016	A4	310 x 250	100pcs

Plastic wallet with neodymium magnets



Neodymium magnets - very high adhesive force

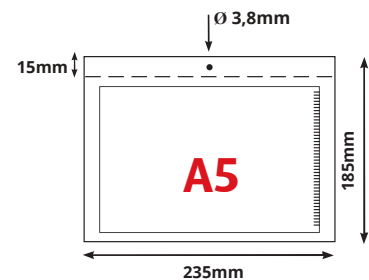
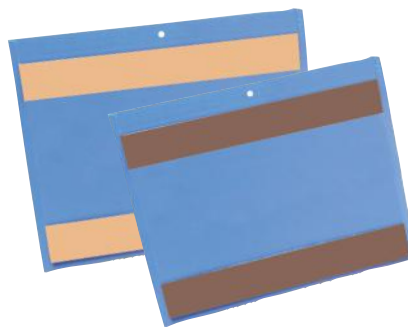
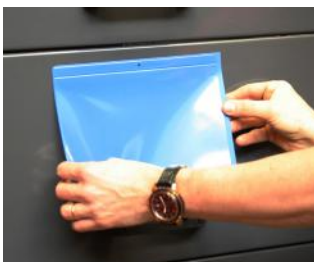
To achieve even higher adhesive forces, we offer plastic pockets with integrated neodymium magnets. Each of these magnets has an adhesive force of 3 kg.



The strength of neodymium magnets ensures that the wallet stays in place even under disturbance, such as when being transported. Sticks to any ferric metal surface, such as pallet rack cross-beams or CSU drawer fronts, and is easily removed and reused too.

Article no.	Format	w x h in mm	Package
5901034	A5	235 x 185 + 40	50pcs

Plastic wallet with double-sided tape or magnetic strips

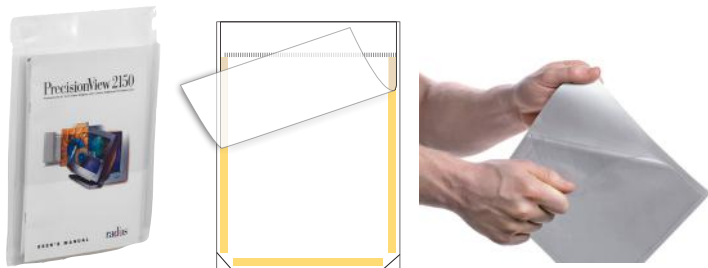


Magnetic strip - high adhesive force

Our magnetic strips have a high attachment force, ensuring the plastic pockets will stay in place

A flat plastic wallet has many uses, fixed either with sticky tape for permanent situations or magnetic strips for more temporary applications. Typical applications on CSU drawer fronts or for bundles of sheet steel or steel pipe.

Article no.	Format	w x h in mm	Package
5901022	A5 with tape	235 x 170 + 15	50pcs
5901023	A5 with magnet	235 x 170 + 15	50pcs



Plastic wallets for bulky documents

This plastic wallet is pleated so it can expand to take documents up to 20mm thick. It's perfect for reports, instruction manuals, guides, handbooks and more. The back side is self-adhesive and ready to stick onto any smooth surface as soon as you remove the backing tape. A flap over the top opening protects against moisture and dirt. To fit A5 or A4 formats, and can also be tailor-made to your requirements - just ask us!

Article no.	Format	w x h x d in mm	Package
5901040	A5	255 x 210 x 12	100pcs
5901041	A4	330 x 250 x 40	100pcs



Ortho-Phthalate free



You can buy cheaper document holders, but you might find the plastic cracks and falls apart after a few months. Our Swedish-made plastic is made to last and is worth a small extra investment!

Our plastic wallets are free from ortho-phthalates.

EU approved plasticisers
(free from dangerous phthalates)

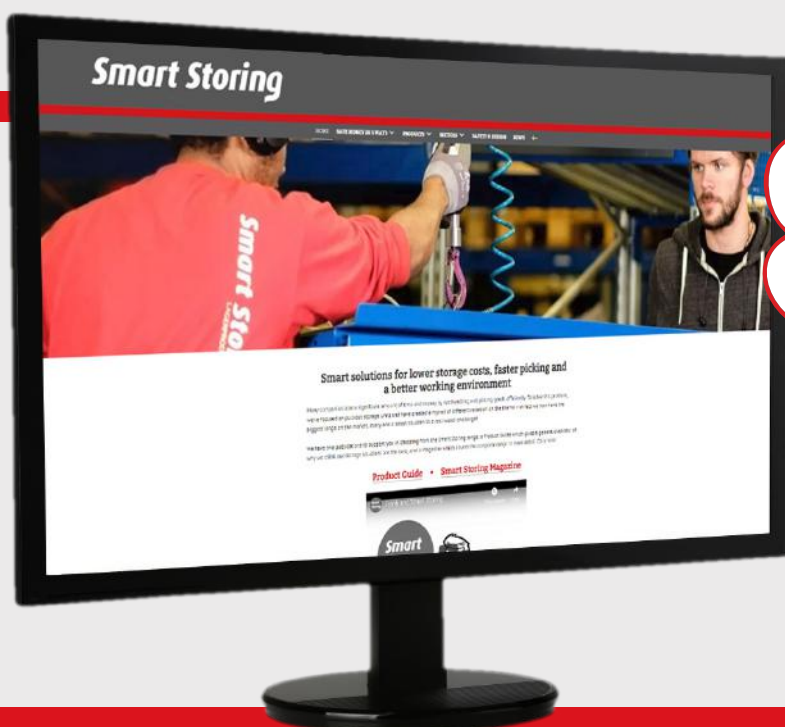
Made in Sweden - low transport miles
Recyclable

Stock labels

Pre-printed yellow label, 180g paper. A simple tool to manually keep track of stock levels.



Article no.	Format	w x h in mm	Package
5902011	A6	148,5 x 105	100pcs
5902000	A5	210 x 148,5	100pcs
5902010	A4	297 x 210	100pcs
5902012	Fits 5901028	148,5 x 55	100pcs
5904000	Fits 5903000	135 x 95	100pcs



In addition to the standard A4, A5 and A6 formats, we can supply plastic pockets and labels in special dimensions. Contact us for details!

For more information
www.smartstoring.eu

Smart complementary accessories

Flexibox

Flexibox

- a product to make your Compact Storage Units or other pull-out units even better organised and more space-efficient! A Flexibox is 800mm x 600mm and can be divided into as many compartments as you like - up to 48. There is room for two boxes on each shelf, giving a total of up to 96 storage locations per layer, with a clear overview thanks to the transparent plastic. Height of compartments is also adjustable in 50mm units up to 200mm.

Article no.	B x D x H i mm	Fack	Specification
7864050	800 x 600 x 50	48	Komplett med 12 st avdelare
7864100	800 x 600 x 100	48	Komplett med 12 st avdelare
7864150	800 x 600 x 150	48	Komplett med 12 st avdelare
7864200	800 x 600 x 200	48	Komplett med 12 st avdelare



Smart val 



Boxes

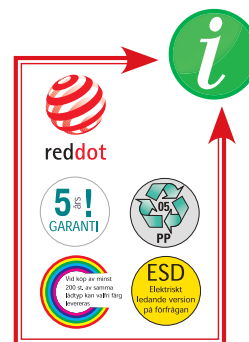


Euro-crates XL

Red crates, size 400mm x 300mm, are perfect for 100% extension shelves. There's room for 8 of them on one shelf. Blue crates, size 600mm x 400mm, are perfect for 70% extension shelves. There's room for 4 of them on one shelf.

With 70% extension shelves it also works well to combine crate sizes: put 2 of the larger blue crates at the back and 4 of the smaller red crates at the front.

Article no. Blue	Article no. Red	External dimensions L x B x H mm	Internal dimensions L x B x H mm	Volume litres	Maximum load kg	How many on one pallet
XL43171BLAU	XL43171ROT	400 x 300 x 170	368 x 268 x 167	16	30	96
XL64171BLAU	XL64171ROT	600 x 400 x 170	568 x 368 x 166	34	15	48



SK-bins

Plastic boxes suitable for sloping shelves, more models and sizes in our webshop.

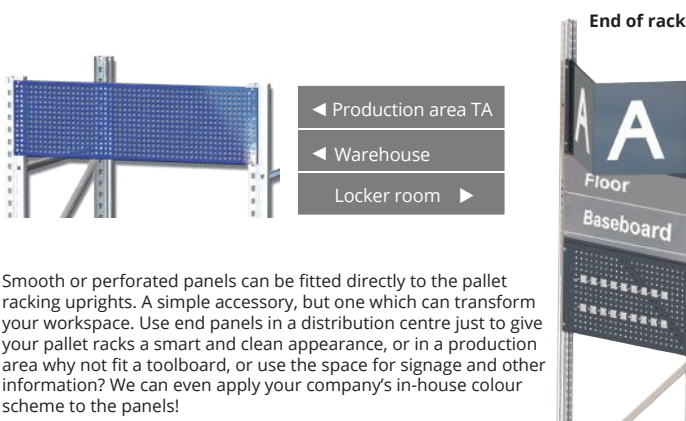


Article no. Blue	Article no. Red	Article no. Yellow	Article no. Green	External dimensions L x B x H mm	Internal dimensions L x B x H mm	Volume litres	Maximum load kg	How many on one pallet
SK3522-BLAU	SK3522-ROT	SK3522-GELB	SK3522-GRUEN	350 x 210 x 200	299 x 186 x 188	10,5	20	90
SK2311-BLAU	SK2311-ROT	SK2311-GELB	SK2311-GRUEN	230 x 150 x 125	199 x 129 x 116	3	5	35

Good choice 



Tool racks and covering panels for ends of racks



Smooth or perforated panels can be fitted directly to the pallet racking uprights. A simple accessory, but one which can transform your workspace. Use end panels in a distribution centre just to give your pallet racks a smart and clean appearance, or in a production area why not fit a toolboard, or use the space for signage and other information? We can even apply your company's in-house colour scheme to the panels!

Article no.	w	h	Specification
15-13-0	1030	300	Front-mounted panel for Tool storage
62-601050P	1050	600	Tool board for end of rack
62-601050R	1050	600	Covering panel (text board) for end of rack
62-201050R	1050	200	Covering panel (text board) for end of rack
62-601050V	1050	600	Angel sign for end of rack

Signs, hooks & lettering

The system consists of signboards in coated sheet steel plus stick-on vinyl lettering. Popular uses are large single letters and numbers to label racks with and signpost texts to guide people to different sections. Texts can be ordered to fit signboard heights of 600mm or 200mm.

Vinyl lettering

Art nr	Specification
62-T300	Character size w=200mm h=300mm



Vinyl lettering on flat sheets

Art nr	Specification
62-T200	Text area w=920mm h=160mm printed according to text supplied
62-T600	Text area w=920mm h=560mm printed according to text supplied

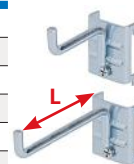
◀ Lister

◀ Lister

◀ Skivmaterial

Hooks

Art nr	Specification
68-74128	L = 10 mm
68-74130	L = 100 mm
68-74131	L = 150 mm
68-74132	L = 200 mm
68-74133	L = 250 mm



NEW!

New videos on Youtube



Compact Storage Units



Beam-mounted units



Floor-mounted units



Palletdistance, collar to pallet



Palletdistance, pallet to pallet



Pallet box dividers



Pallet collar grip



Frank about Smart Storing

Social Media

Smart Storing is also available on Facebook, LinkedIn and Instagram. There you will find our most up-to-date information.



Watch the movies directly on your phone by scanning these codes



From order to delivery – this is how it works

PURCHASE

Phone in your order to **0046 304 809 080** or e-mail **order@smartstoring.se**

PRICES

Product prices are listed in separate price lists. All prices are in Swedish kronor and are exclusive of VAT, packing and delivery charges.

DELIVERY

Delivery dates will be specified on your order confirmation. Lead times are quoted on the basis of the time between your order being received and the goods leaving our factory. Many products with short lead times can be dispatched from our factory within one to two weeks. Remember to allow time for delivery in your planning, though!

ORDER CONFIRMATION

You will always receive an order confirmation by e-mail. Please check that the details are correct!

PAYMENT

Normally we allow up to 20 days credit. Credit checks will be carried out on all new customers.

SHIPPING

Delivery is charged at cost on all orders. We use different shipping agents depending on the destination country. You can also choose to arrange collection yourself.

GUARANTEE

All products are fully guaranteed for 6 months from delivery. Thereafter the terms and conditions which apply are according to NL01

DAMAGED GOODS

Any shipping damage visible on arrival must be recorded immediately on the delivery docket. Both visible damage and defects discovered after unpacking must be reported to Smart Storing within 7 days.

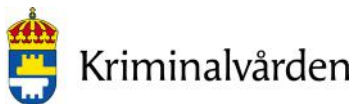
CLAIMS AND RETURNS

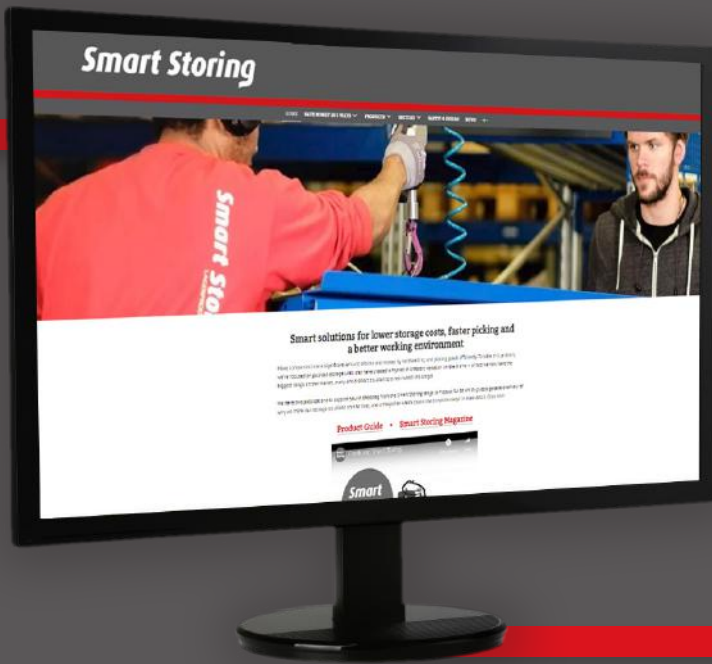
No claims or returns can be accepted without a Returns Number obtained from Smart Storing. Always contact us first if you want to return something, for whatever reason!

GENERAL CONDITIONS

Conditions of Sale applicable NL 01. (supplied on request)

Smart Storing products supplied to:





smartstoring.eu

Visit our webb!

In addition to our own products you will find in this magazine, we have a large complementary range that makes your warehouse and storage even more efficient.

Exhibitions

Experience our products live!

Getting to know, pull out and testing features is an experience in itself. Our products are presented in various contexts across Europe in cooperation with our good resellers. Here in Sweden we do several fairs each year across the country.

Don´t miss the chance to meet us there!

News



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