



Design, calculations and manufacturing  
of **Storage Systems**



## PALLET RACKING

The **Strength** of simplicity





We have a background of more than **50 years of knowledge** in the design and manufacturing of Storage Systems. We have consolidated and strengthened our position based on the humility and freshness of a young and specialized team, which added to our latest generation technologies, makes **ESNOVA** enjoy the trust and confidence of our worldwide customers.



WE EXPORT TO OVER THAN **35 COUNTRIES**



## EXPERIENCE

We have a large group of professionals with a long career in the logistics sector.

Design, calculations and manufacturing of **Storage Systems**

We can give you an efficient and direct response. We count with a large variety of references in stock for delivery in a few days and we adapt to special requirements for any type of business and storage. From the lightest shelving to the most sophisticated automatic storages.

We always offer efficient storages by studying each case and adapting the best solution for it:

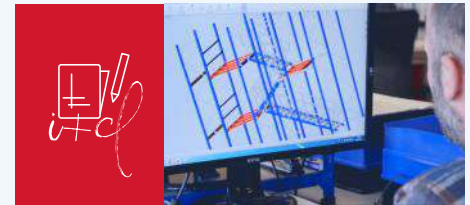
- Optimize the available space.
- Increase storage capacity.
- Make the square metre of storage more profitable.
- Provide a more logical order for easy location and greater protection against damages and losses.
- More security for staff and facilities.
- Generate higher productivity in operations and resources.
- Offer a better service to our customers.

## SOLUTIONS



Industrial racking/shelving to store all types of products. Light, medium and heavy loads, palletised loads, big loads...

Standard Pallet Racking, Drive-in Racking, Cantilever, Rack-clad storage systems and automatic systems, Long Span racking, Boltless shelving (Riveto), Multi-tier shelving, mezzanines, metallic containers. All of them formed a great range of storage solutions which, together with our experienced team, will solve your storage problems with quality, safety and lower cost.



## Technology

Our machinery at your service. We are equipped with the most flexible and advanced production systems for the design and manufacture of parts, components and competitive metal products.

## Lab Tests

We have a Testing Laboratory where the performance of all different components of each system is verified by testing loads, resistance, buckling ...

## Innovation

Innovate to improve, both in **new products** and in the optimization of existing products.

## Quality



Esnova sets as a priority the quality standards in each and every one of the processes it develops.

- Certificate in the quality management system (ISO 9001).
- Certificate in the environmental management system (ISO 14001).
- Certificate in the occupational health and safety management system (ISO 45001).
- UNE EN 1090 Certificate of CE Marking.
- Member of the European Federation of Maintenance FEM/AEM.



Management  
System  
ISO 9001:2015  
ISO 14001:2015  
ISO 45001:2018  
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ID 9105076955





# PALLET RACKING

IDEAL SYSTEM FOR STORAGE OF  
PALLETIZED LOADS OF MULTIPLE  
REFERENCES.

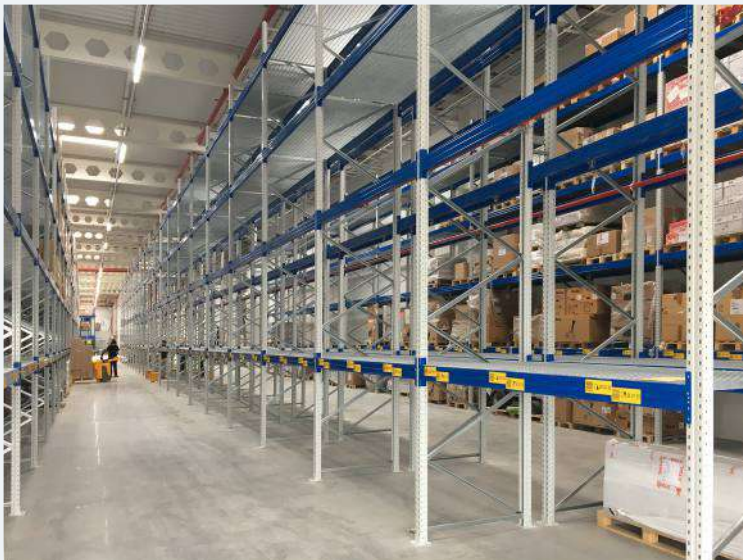
Direct access to every pallet.

It withstands heavy loads and reaches  
great heights.

Adapts to your needs of storage-level area,  
dimensions, weights and volume of the  
goods.









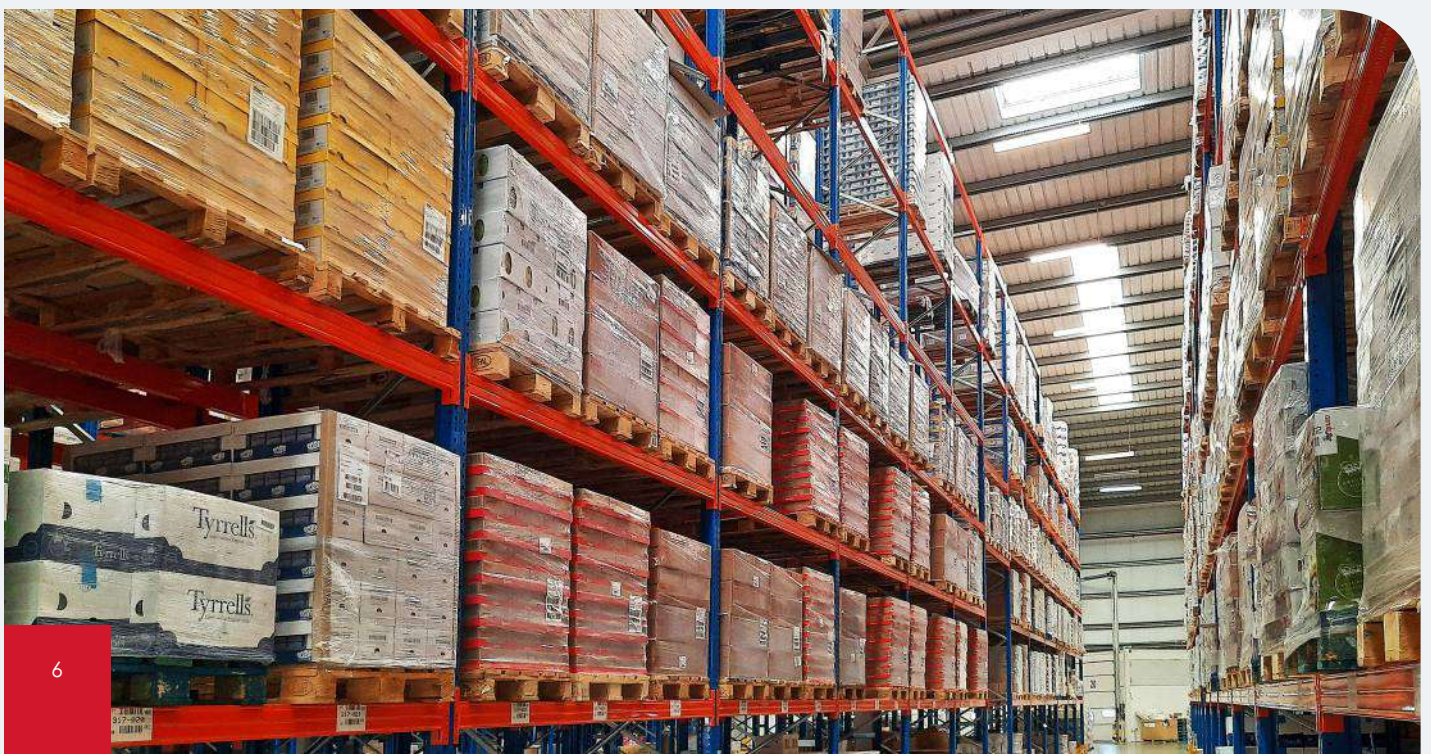


Industrial shelving system suitable for palletized goods of **multiple references**.

Characterized by being selective, it allows **immediate access** to all the loading units with no need to move or displace the other pallets, which favors the warehouse stock controls.

**It is adaptable to the type of load to store**, as they can be different sizes, containers, drums, pallets, it can be combined with shelves for picking, manual storage, pallet-drawers...

It keeps the loads perfectly organized.





**This is the storage option most universal and versatile that exists on the market**, thanks to a wide range of products and accessories that facilitate the storage of all kinds of goods.

Furthermore, it's compatible with different models of lift systems (electric counter- balanced forklift, reach truck, stacker, bilateral tower, trilateral tower and trans-elevator).



Pallet racking system **adapts to any storage need**, and can have, for instance, double depth in the installation or allowing steps through thereof, etc...

The shelving with double depth allows us to keep a larger number of pallets thanks to the elimination of the center aisle.

This option is recommended for products with various pallets by reference, as it's only possible to access directly to the first placed pallets.

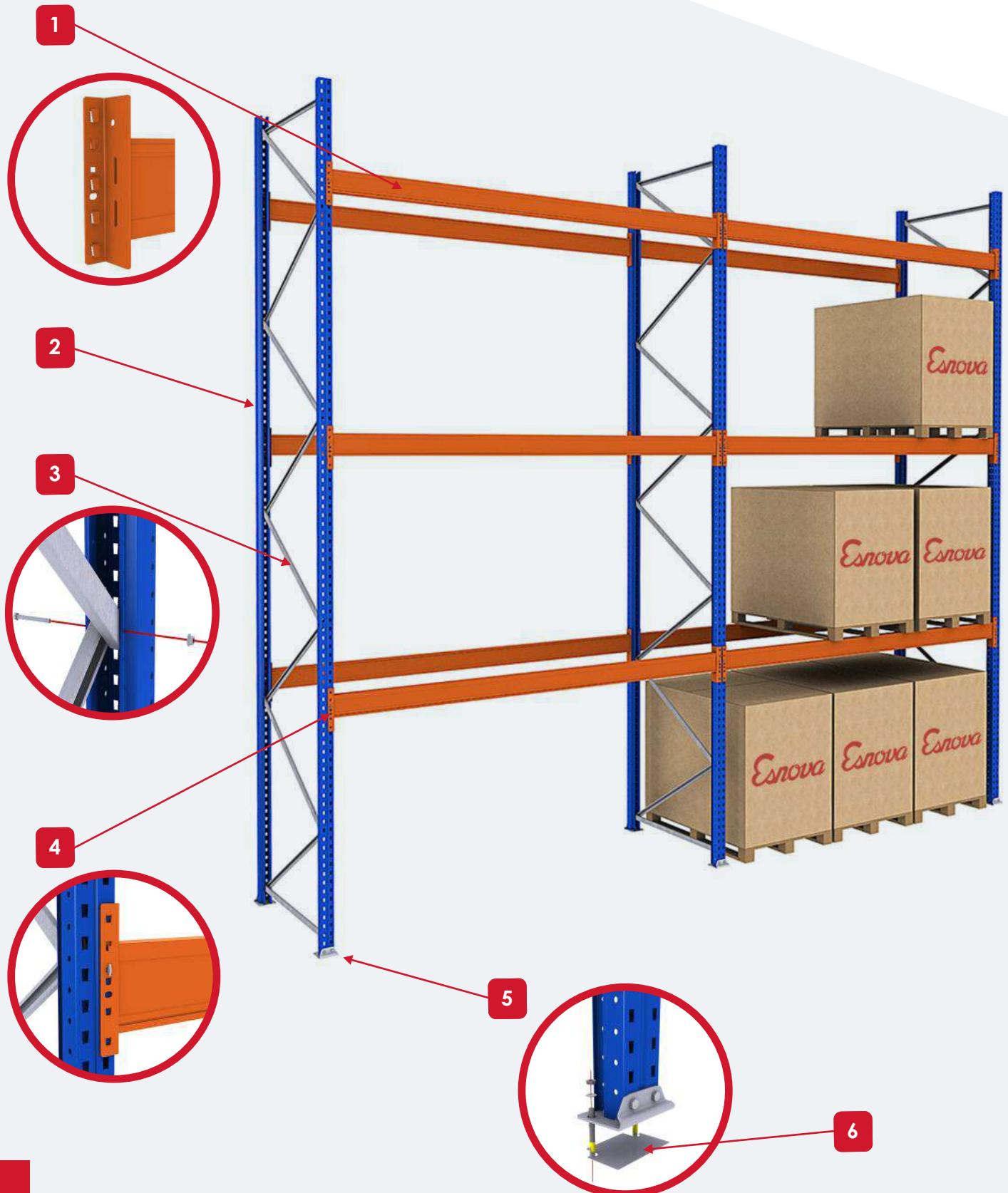
Being modular, **the installation is quick and easy**, as well as the replacement of parts and every types of expansions. You will be always in time to make changes in the installation according to your needs, allowing at all times the most suitable distribution.





## SYSTEM COMPONENTS

The structure of a Pallet Racking shelving consists of the following elements:

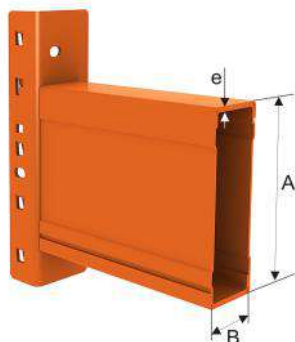




1



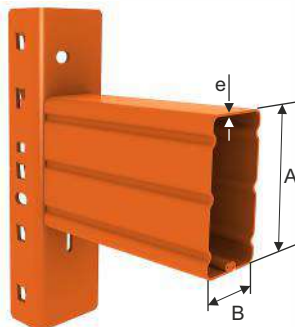
**EGN BEAM  
FOR DUO CONNECTOR**



Dimensions* (A x B x e)	Connector
EGN 135x50x1,5	DUO
EGN 140x50x1,5	
EGN 140x50x2	
EGN 150x50x1,5	
EGN 150x50x2	
EGN 165x50x1,8	

\*Dimensions in mm.

**LNS BEAM  
FOR DUO CONNECTOR**



Dimensions* (A x B x e)	Connector
LNS 60x50x1,5	DUO
LNS 80x50x1,5	
LNS 100x50x1,5	
LNS 110x50x1,5	
LNS 120x50x1,5	
LNS 130x50x1,5	

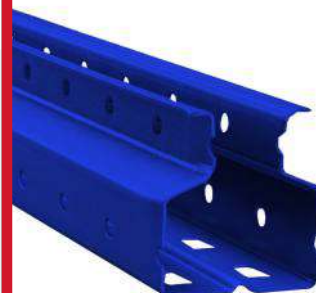
\*Dimensions in mm.

Best performance up to 2700 mm  
beam length and 1000 Kg/pallet  
weight.

**Standard finishing**

Orange 2004

2



**UPRIGHT ER**

**Standard finishing**

Pregalvanized

Blue 5019

Measures: see next page

3



**HORIZONTAL  
DIAGONAL CZ**

**Standard finishing**

Pregalvanized

4



**SAFETY  
CLIP**

**Standard finishing**

Pregalvanized

5

**PLK5**



**NBP4**



**FOLDED BASE  
PLATES**

**Standard finishing**

Pregalvanized

6



**SHIM  
PLATES**

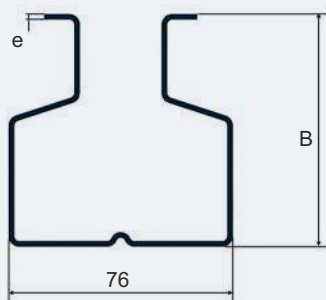
**Standard finishing**

Pregalvanized



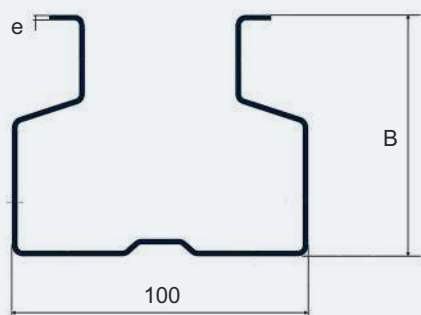
## TYPE OF UPRIGHTS

### UPRIGHTS 76M Y 76A



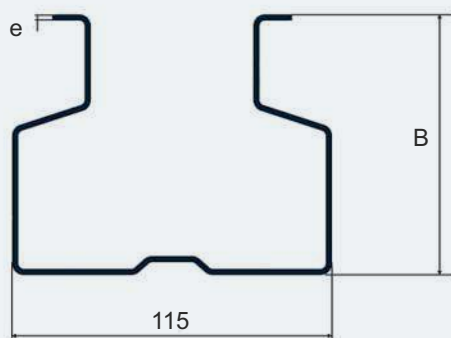
Description	Dimensions (76 x B x e)	Frame profile	Base
ER76M18	76 x 63 x 1,8	CZ 36	NBP4 PLK5
ER76A18	76 x 79 x 1,8		
ER76A20	76 x 79 x 2,0		
ER76A25	76 x 79 x 2,5		

### UPRIGHTS 100A Y 100B



Description	Dimensions (100 x B x e)	Frame profile	Base
ER100A18	100 x 81 x 1,8	CZ 42	PLK5
ER100A20	100 x 81 x 2,0		
ER100A25	100 x 81 x 2,5		
ER100B20	100 x 105 x 2,0		
ER100B25	100 x 105 x 2,5		
ER100B30	100 x 105 x 3,0		

### UPRIGHTS 115C



Description	Dimensions (115 x B x e)	Frame profile	Base
ER115C25	115 x 126 x 2,5	CZ 50	PLK5
ER115C30	115 x 126 x 3,0		
ER115C35	115 x 126 x 3,5		

Frames	
Depth (mm.)	800 - 900 - 1000 - 1100*

\* Standard depth

Finishing
Painted: Blue 5019
Pregalvanized





The load can rest on pallets, metallic mesh, chipboard, pallet supports...



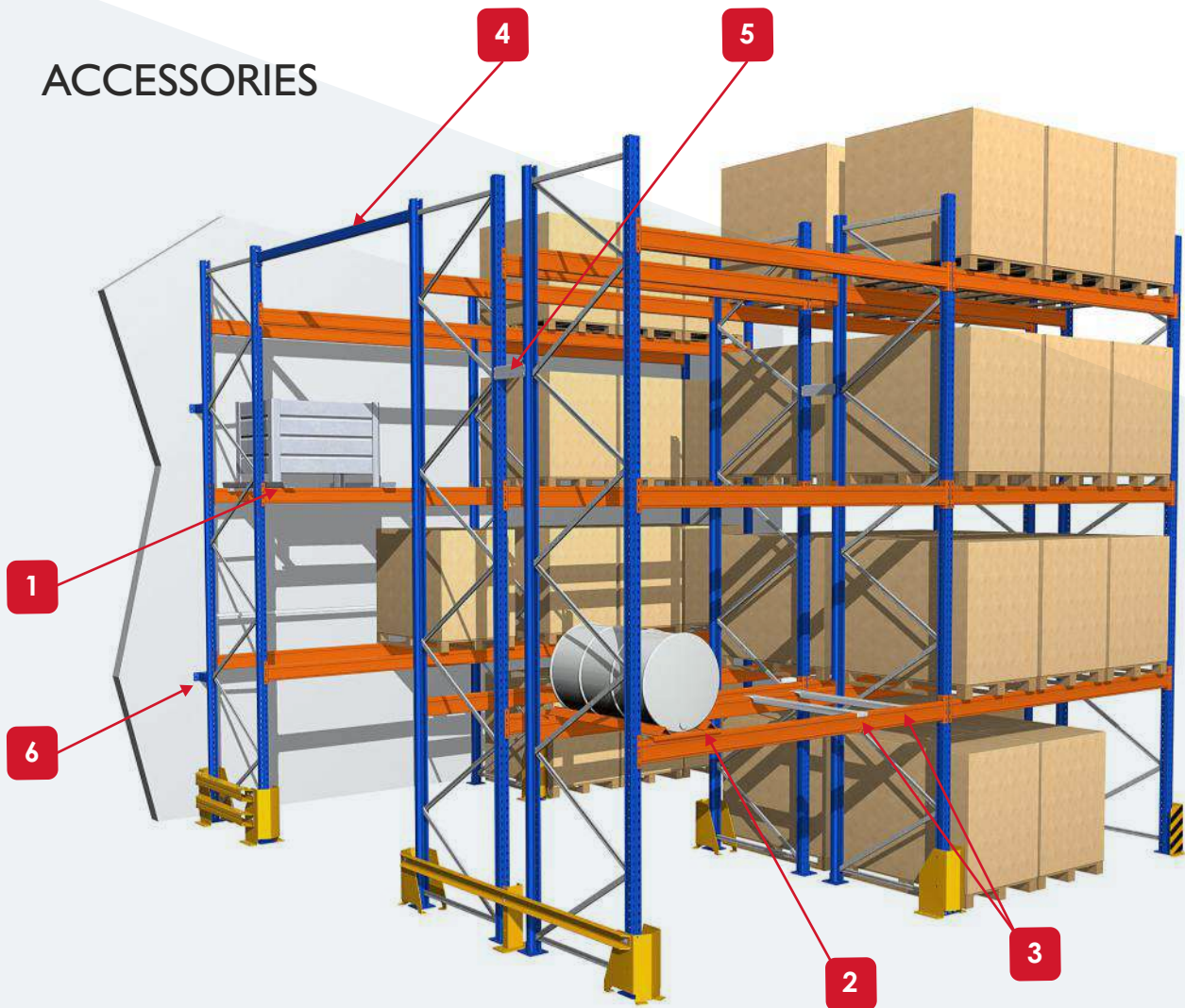
Compatible with different storage systems, such as containers or safety cages.



We adapt to your storage needs.



## ACCESSORIES



Container support SC

1



Drum cradles SB

2



Pallet support

3

Mod: TPCZF

Mod: TPCZ

Mod: TPCZF-A  
For chipboard fixation



Aisle spacer

4

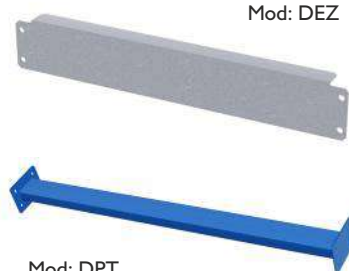


Mod: VTS

Frames spacer

5

Mod: DEZ



Mod: DPT

Wall spacer

6



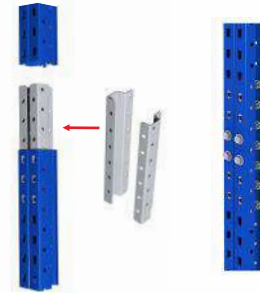
Mod: DWT



Back stop LTC



Frame splice



Example for upright ER76

Pallet stop

To fix chipboards on beams.



Chipboards stop

To be used with crossmembers type TPCZF



Horizontal bracings



Vertical bracings

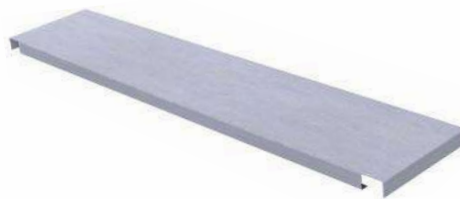


Shelf grating (between supports)

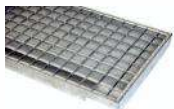


Steel panels PMRK 4

Pregalvanized  
For EGN beams



Shelf grating (over supports)



Pallet-Drawer



Picking levels

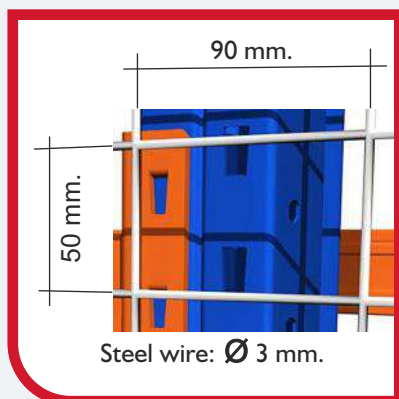
For manual storage:

- With chipboard
- With metal panel M66



## ANTI-COLLAPSING MESH

Electrowelded mesh panels are used as security closings in aisle or transit areas to avoid goods from falling.





## PROTECTIONS

Single protection RKN



Corner protection DE



Single protection PPN



It does not take space from storage cell

Full frame protection PBS RKN/U



Full frame protection PBS PPN/U



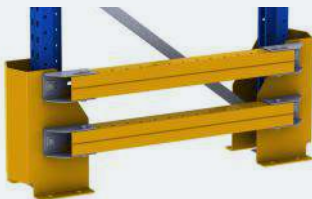
Full frame protection PBD RKN/U



Full frame protection PBD PPN/U



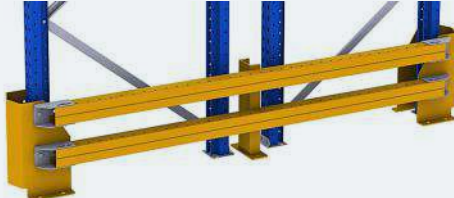
Full frame protection PBS RKN/C



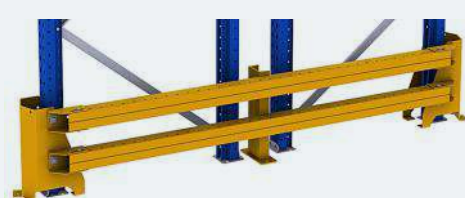
Full frame protection PBS PPN/C



Full frame protection PBD RKN/C



Full frame protection PBD PPN/C



Timber frame protector

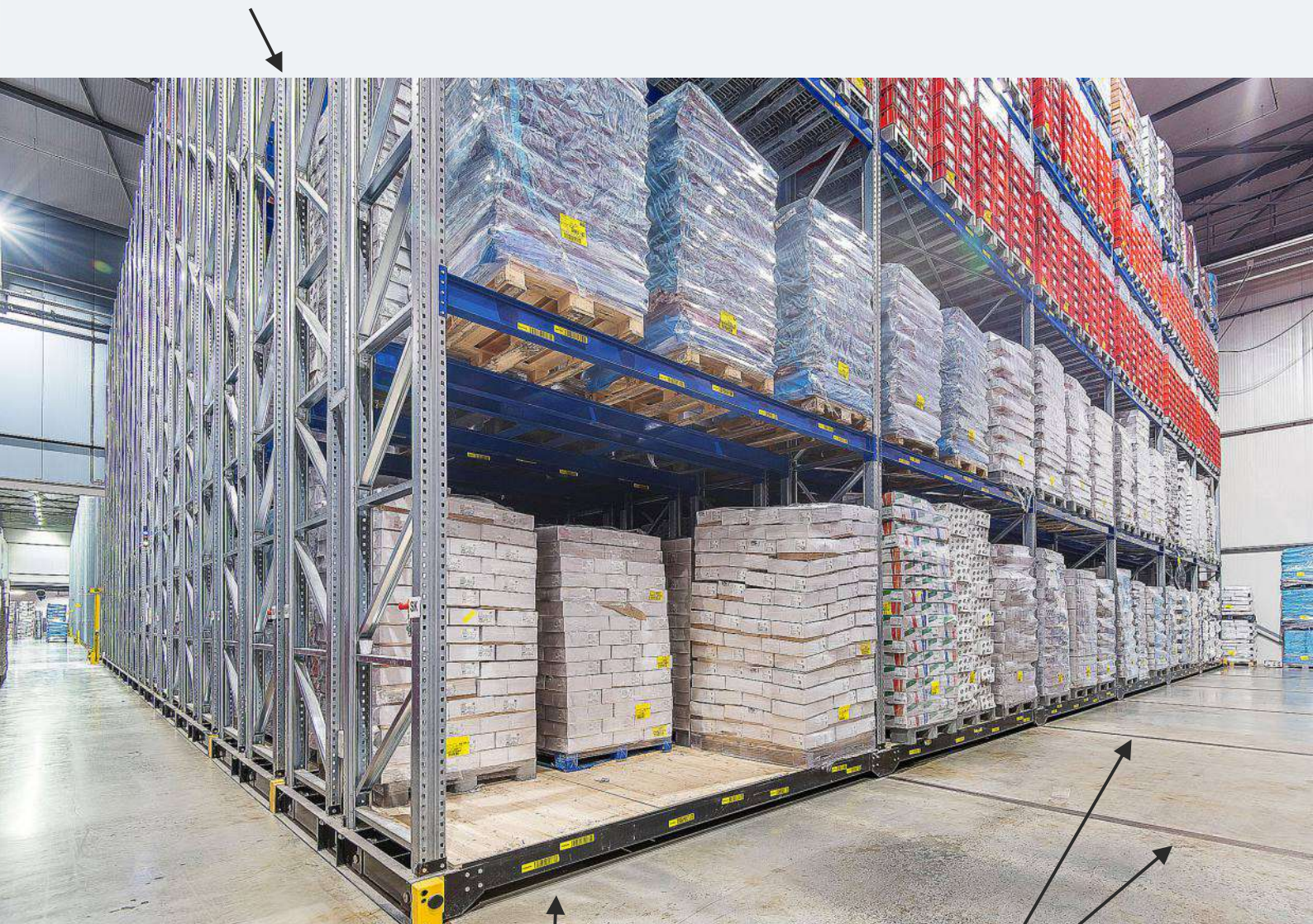




# MOBILE PALLET RACKING

A storage system with mobile bases is composed of single or double entry runs placed on a mobile metallic structure, which allows the movement of the shelves independently.

## 1. Shelves



## 2. Mobile Bases

## 3. Rails



# SYSTEM COMPONENTS

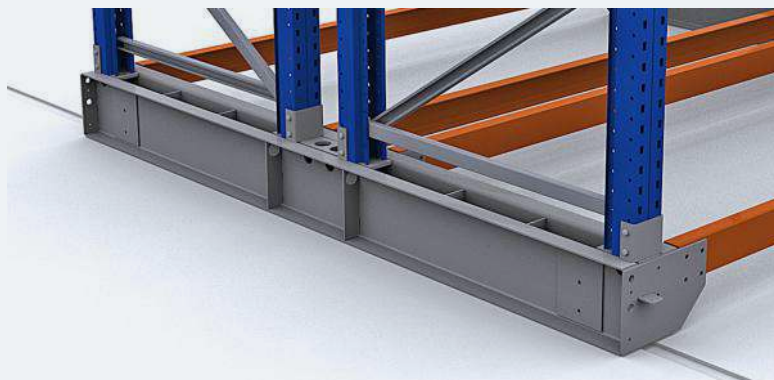
## 1. SHELVES

This storage system is the metallic structure mounted on the mobile bases, and they are usually standard pallet racking, which is usually used to sustain heavy loads.



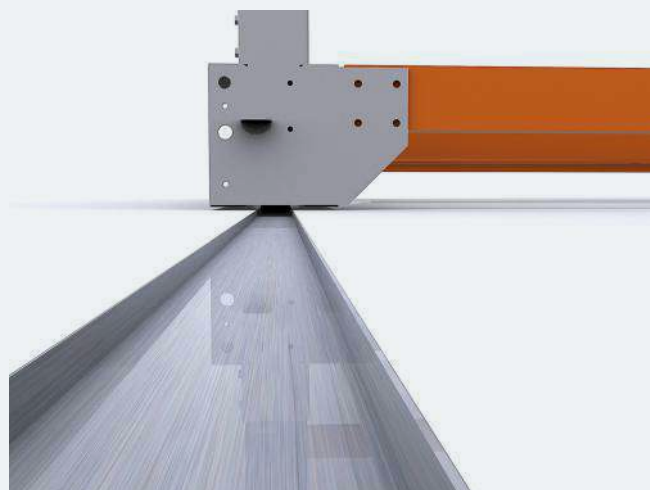
## 2. MOBILE BASES

It is the metallic structure supported on wheels where the shelves are mounted, and they allow the movement of those racks.



## 3. RAILS

Those are the steel profiles inserted in the floor whereby the wheels of the mobile bases move through.





## MAIN FEATURES

When the reduction of the space is the main criterion or necessity when developing the required storage solution, this option with mobile bases is the most adequate.

A pallet rack with mobile bases is the ideal system for cold stores (for both refrigerated and frozen goods) where the cost of storage (frozen cubic metre) is too high, since this system allows the maximum use of the space possible.

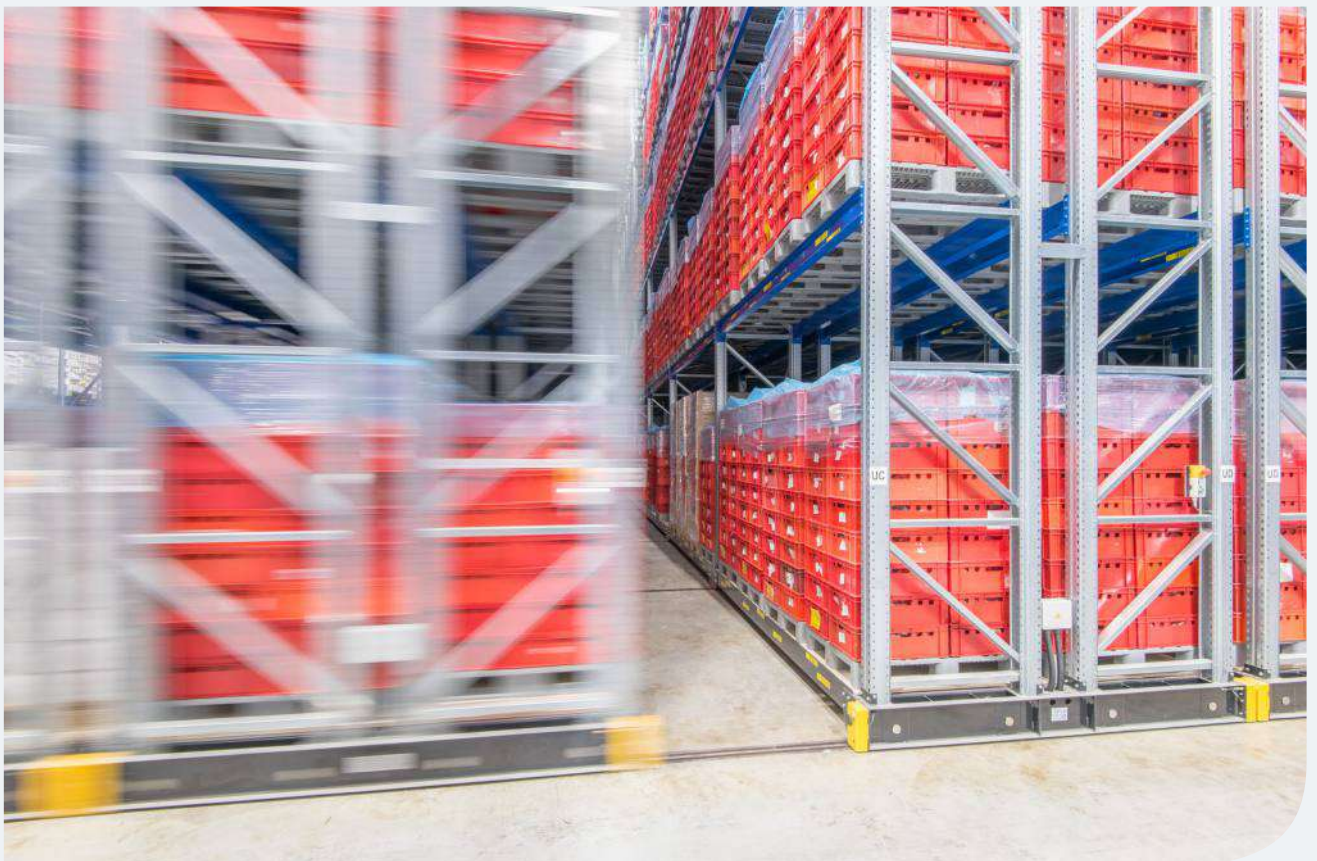
This system with mobile bases increases the storage capacity and reduces the free space in the warehouse by eliminating the aisles except one and by allowing the direct access to each pallet.

It is very simple in terms of its use, since the shelves are installed on the mobile bases, which allows the movement of each run laterally through the rails fixed to the floor, thus avoiding the existence of unnecessary aisles, but always having direct access to each pallet or store goods.

The aisle which needs to be accessed is selected manually or by remote controller.

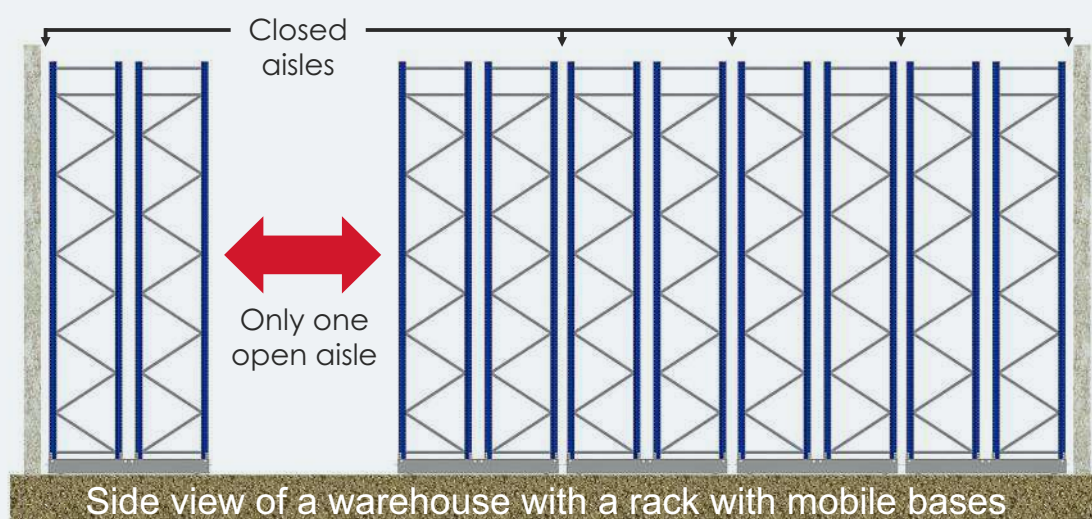
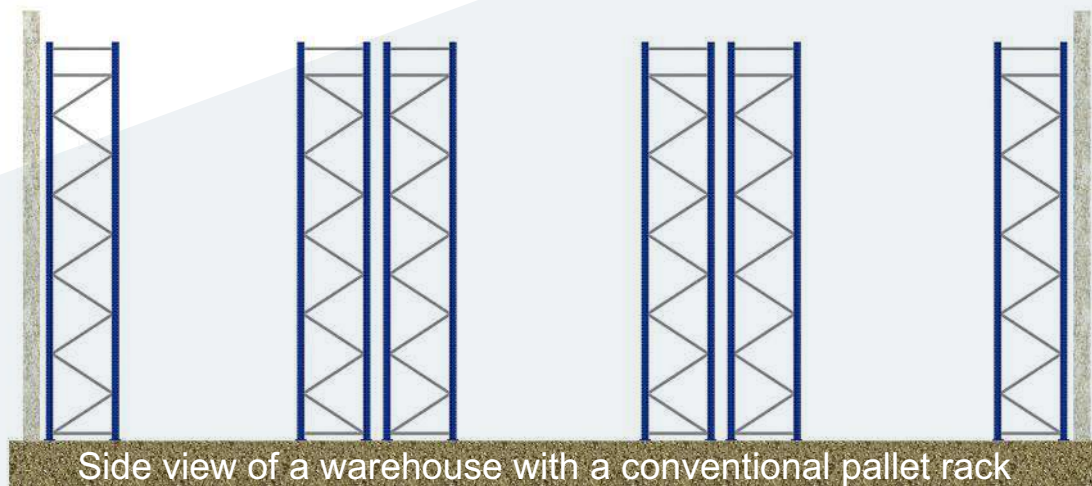
This system allows the storing of a huge number of different references, and it is compatible with other storage systems such as picking in bottom levels.

It also guarantees the safety of people working there and the preservation of the goods in good conditions.





The main advantage of a mobile base racking against a conventional pallet racking system is the possibility to use efficiently the space to store goods in a warehouse, since the existence of those mobile bases let the reduction of aisles considerably, which can be aimed to store more goods.



#### **Master/individual control panel and Safety.**

These mechanisms ease the movement of the different runs of shelves by leaving free the space to act as the aisle for this particular run.

Safety devices used to avoid the crushing or entrapment of operators when each run is being moved.





The **Strength** of simplicity

WE DESIGN AND MANUFACTURE STORAGE SYSTEMS  
FROM THE MOST BASIC OPTION TO THE MORE SOPHISTICATED ONE.



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THEM FROM OUR WEBSITE

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## ESNOVA SOFTWARE WHAREHOUSE MANAGEMENT SOFTWARE

### ¿HOW TO ORGANIZE A WHAREHOUSE?

This software specially designed to the warehouse management is the perfect IT tool to have a logistic control of your storage space.



**MULTI-DEVICE SOFTWARE**

**ESNOVA RACKS, S.A.**

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