# Esnova

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



# DRIVE IN

*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 40 COUNTRIES**



## EXPERIENCE

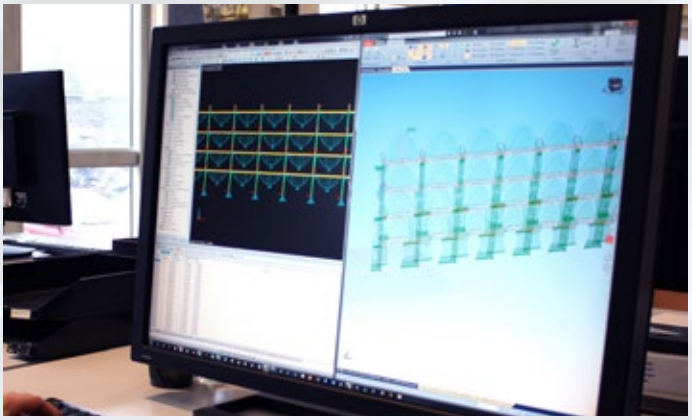
We have a large group of professionals with a long career in the logistics sector.

## 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

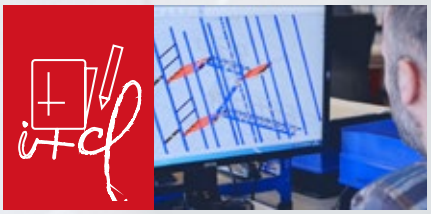
Our machinery at your service.

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.

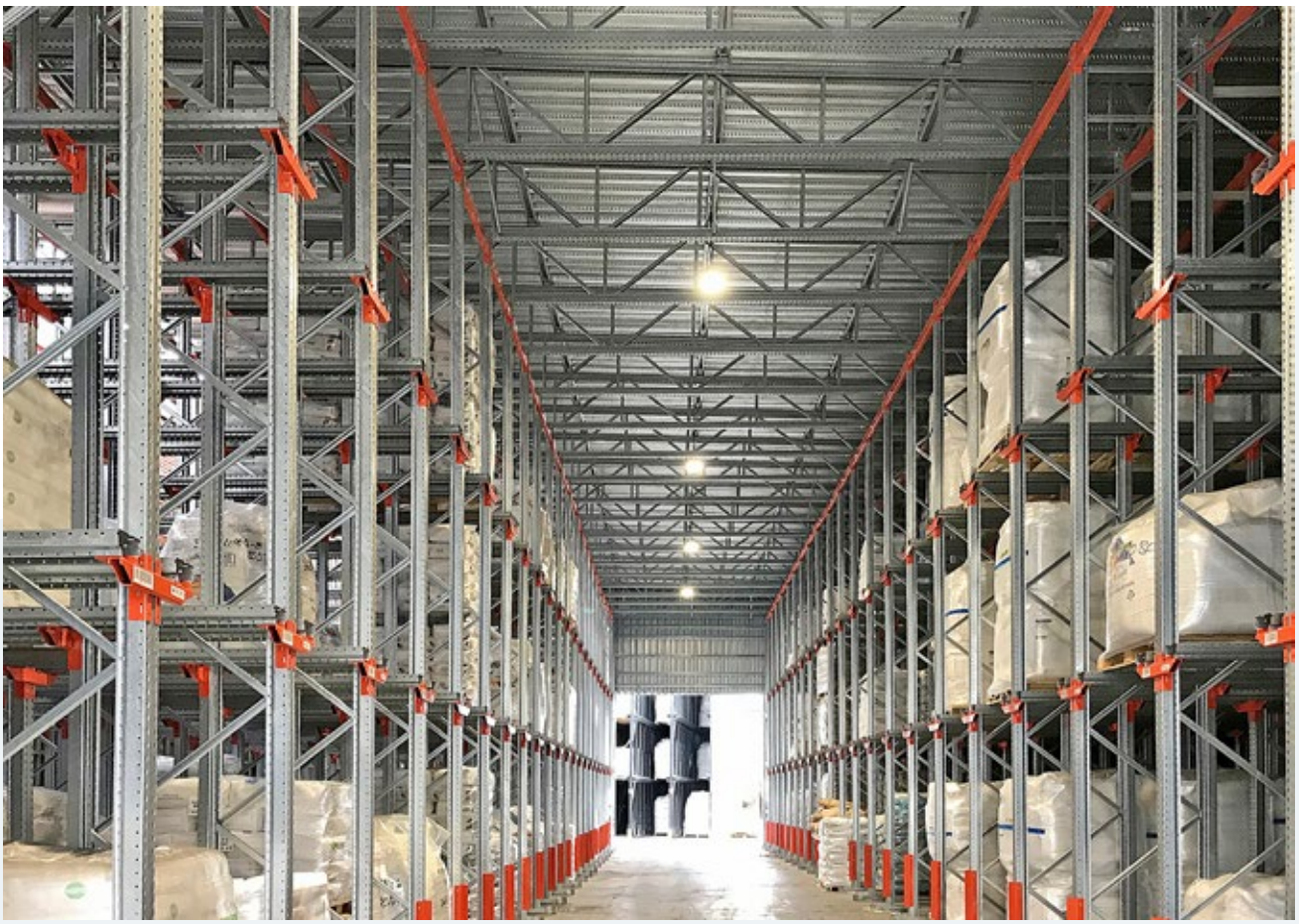
- Certificate in the quality management system (ISO 9001).
- Certificate in the environmental management system (ISO 14001).
- Certificate in the occupational health and safety management system (ISO 45001).
- UNE EN 1090 Certificate of CE Marking.
- Member of the European Federation of Maintenance FEM/AEM.

# DRIVE IN

## IT IS THE IDEAL SYSTEM TO STORE LOADS WITH THE SAME REFERENCE IN DEPTH

- Greater storage density.
- Up to 85% of the available space can be used.
- It can be adapted to different space requirements as well as to goods' measures, weights and volumes.






JCB

Esnova



# COMPACT DRIVE-IN STORAGE SYSTEM

This industrial shelving system is designed in order to use up to 85% of the available storage area.

It is a system capable of storing a great deal of loads with the same reference.

Its configuration allows us to maximise warehouse's height and space, thanks to working aisles' reduction. On the one hand, this system penalised direct access to each pallet. On the other hand, it increases the usable area.



It consists of series of lanes by which fork-lifts enter so as to place the pallets on the rails. Those rails can be located at different heights, depending on customer's storage necessities.

This storage system is characterised by its high density, something that boosts productivity by the optimisation of the available resources.





Esnova offers two types of compact systems:

- Drive In: Its configuration only counts with one loading entry.
- Drive Through: It counts with one entry by each end.

Both options support heavy loads, offering each one of them great resistance and safety.

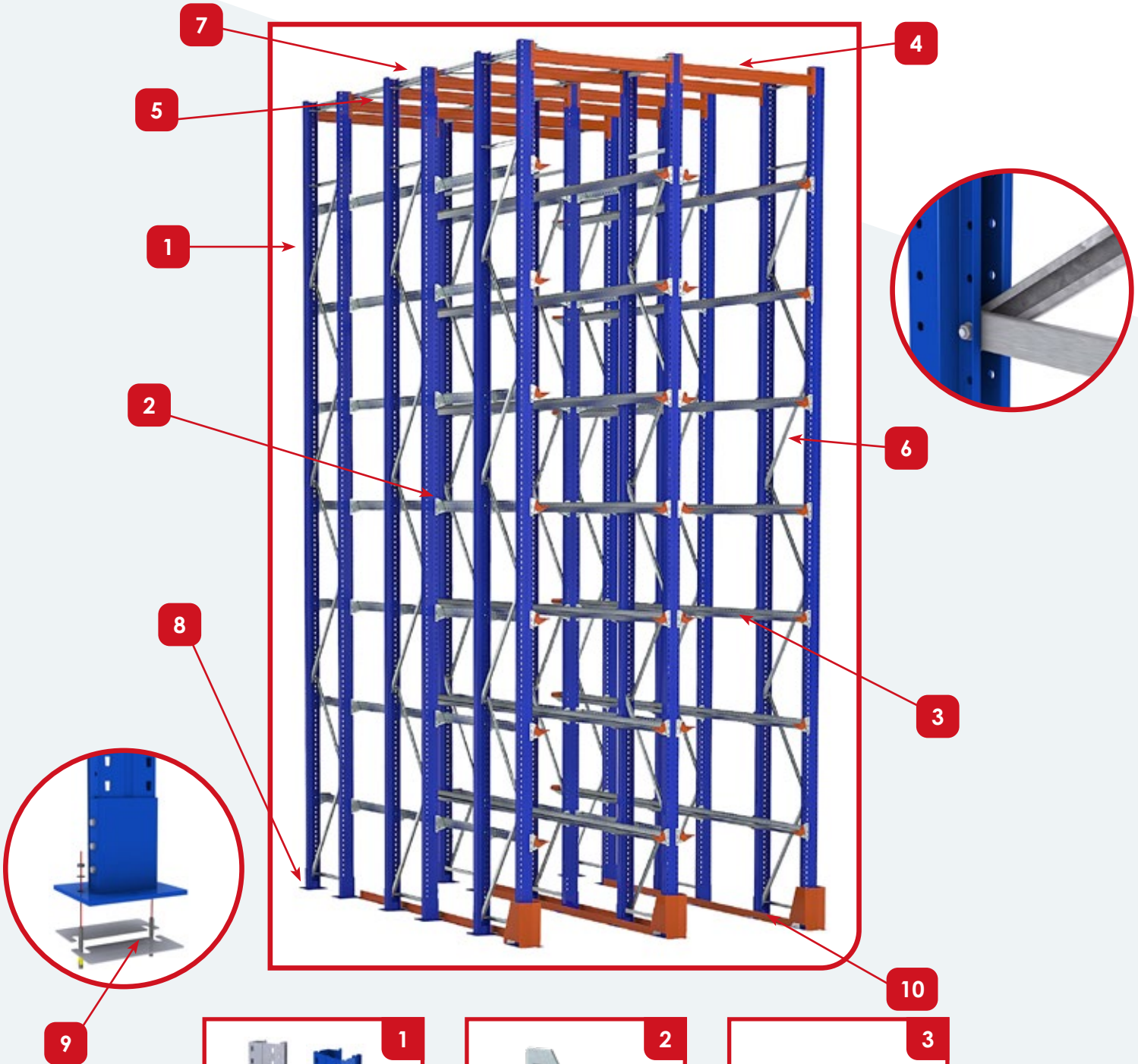
Each lane has floor guide rails that facilitates the entrance and the exit of forklifts, avoiding collisions or accidental impacts that could damage the installation.

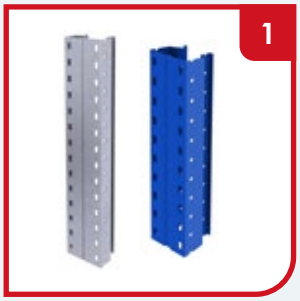
This kind of storage system is appropriate for non-perishable goods, as well as for storing loads at low temperatures.



# SYSTEM COMPONENTS

The structure of a Drive-In storage system includes the following elements:




UPRIGHT

| Standard finishing |
| --- |
| Blue 5019<br>Pregalvanized |




STAMPED BRACKET
Left / Right

| Standard finishing |
| --- |
| Pregalvanized |




PALLET RAIL

| Standard finishing |
| --- |
| Pregalvanized |




UPPER BEAM FOR CONNECTOR DUO

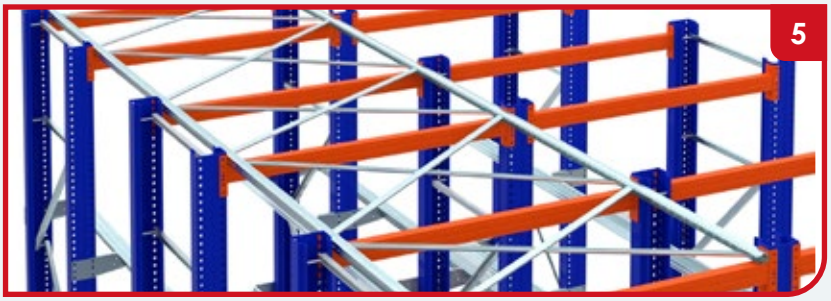
**Standard finishing**

Orange 2004

TOP HORIZONTAL BRACING

**Standard finishing**

Pregalvanized







DIAGONAL & HORIZONTAL

**Standard finishing**

Pregalvanized




TOP HORIZONTAL BRACING PROFILE

**Standard finishing**

Pregalvanized




BASE

**Standard finishing**

Blue 5019




SHIM PLATES

**Standard finishing**

Pregalvanized

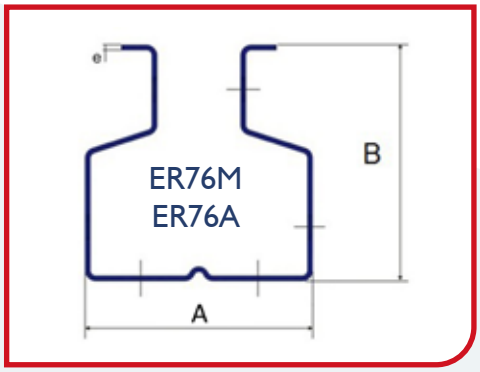



FLOOR GUIDE RAILS

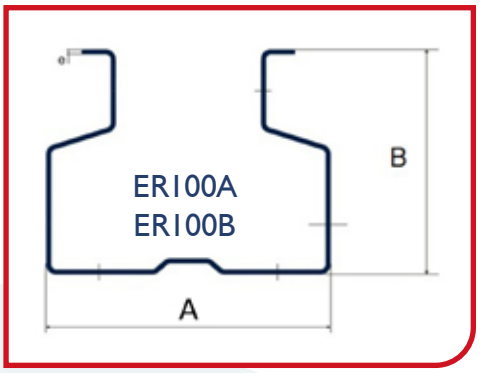
**Standard finishing**

Orange 2004

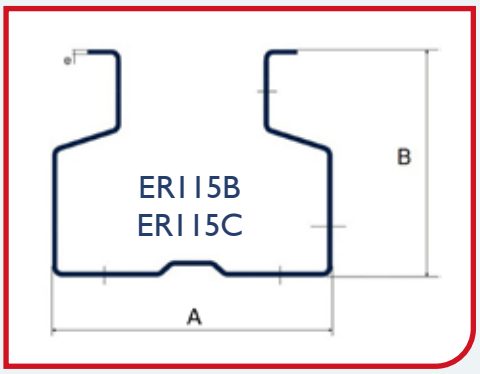
# UPRIGHTS



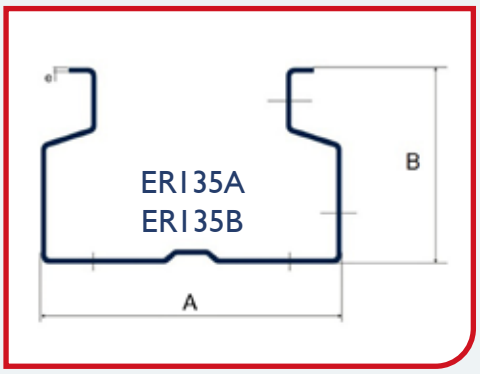

| Description | Dimensions (mm) (A x B x e) |
|---|---|
| ER76M15 | 76,2 x 63,2 x 1,5 |
| ER76M18 | 76,2 x 63,2 x 1,8 |
| ER76A15 | 76,2 x 79 x 1,5 |
| ER76A18 | 76,2 x 79 x 1,8 |
| ER76A20 | 76,2 x 79 x 2,0 |
| ER76A25 | 76,2 x 79 x 2,5 |



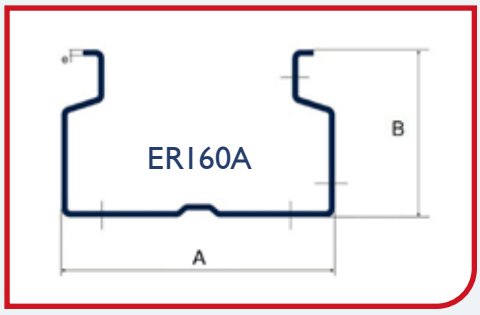

| Description | Dimensions (mm) (A x B x e) |
|---|---|
| ER100A18 | 100 x 81,3 x 1,8 |
| ER100A20 | 100 x 81,3 x 2,0 |
| ER100A25 | 100 x 81,3 x 2,5 |
| ER100B18 | 100 x 105,3 x 1,8 |
| ER100B20 | 100 x 105,3 x 2,0 |
| ER100B25 | 100 x 105,3 x 2,5 |
| ER100B30 | 100 x 105,3 x 3,0 |




| Description | Dimensions (mm) (A x B x e) |
|---|---|
| ER115B18 | 115 x 97,8 x 1,8 |
| ER115B20 | 115 x 97,8 x 2,0 |
| ER115B25 | 115 x 97,8 x 2,5 |
| ER115B30 | 115 x 97,8 x 3,0 |
| ER115C20 | 115 x 126,3 x 2,0 |
| ER115C25 | 115 x 126,3 x 2,5 |
| ER115C30 | 115 x 126,3 x 3,0 |
| ER115C35 | 115 x 126,3 x 3,5 |




| Description | Dimensions (mm) (A x B x e) |
|---|---|
| ER135A20 | 135 x 87,8 x 2,0 |
| ER135A25 | 135 x 87,8 x 2,5 |
| ER135A30 | 135 x 87,8 x 3,0 |
| ER135A35 | 135 x 87,8 x 3,5 |
| ER135B20 | 135 x 109 x 2,0 |
| ER135B25 | 135 x 109 x 2,5 |
| ER135B30 | 135 x 109 x 3,0 |
| ER135B35 | 135 x 109 x 3,5 |




| Description | Dimensions (mm) (A x B x e) |
|---|---|
| ER160A20 | 160 x 97,8 x 2,0 |
| ER160A25 | 160 x 97,8 x 2,5 |
| ER160A30 | 160 x 97,8 x 3,0 |
| ER160A35 | 160 x 97,8 x 3,5 |

# BRACKETS

## BRACKETS FOR INSTALLATIONS WITHOUT PALLET OVERHANGING



LEFT



RIGHT

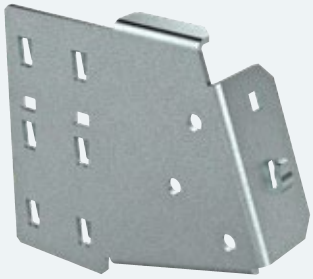


This type of brackets must be bolted to the front part of the upright

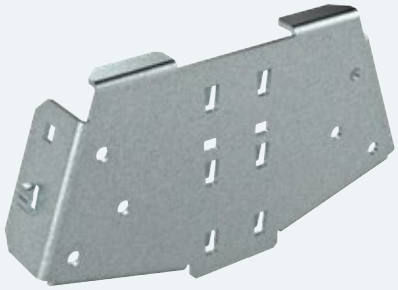
**Standard finishing**

Pregalvanized

## BRACKETS FOR INSTALLATIONS WITH PALLET OVERHANGING



LEFT



CENTRAL



RIGHT

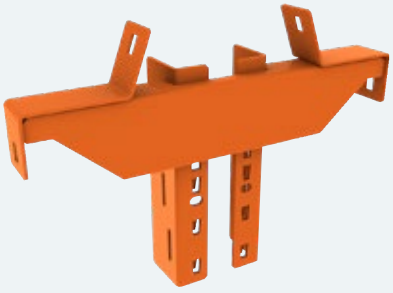
**Standard finishing**

Pregalvanized

## WELDED BRACKET (FOR SPECIAL CONFIGURATIONS)



DVSI (left)



DVSC (central)

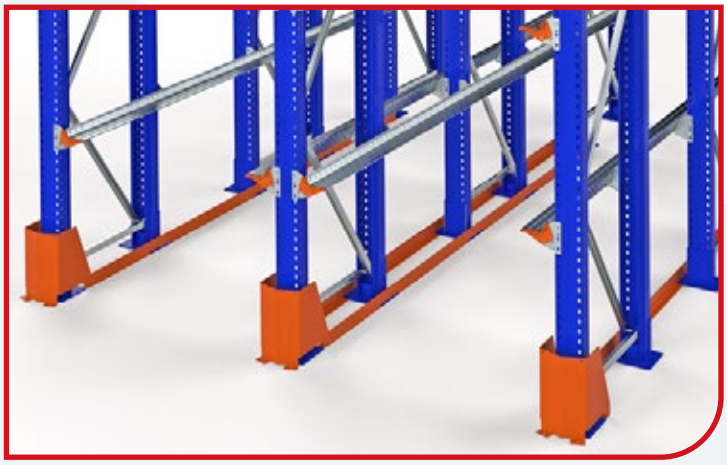


DVSD (right)

**Standard finishing**

Orange 2004

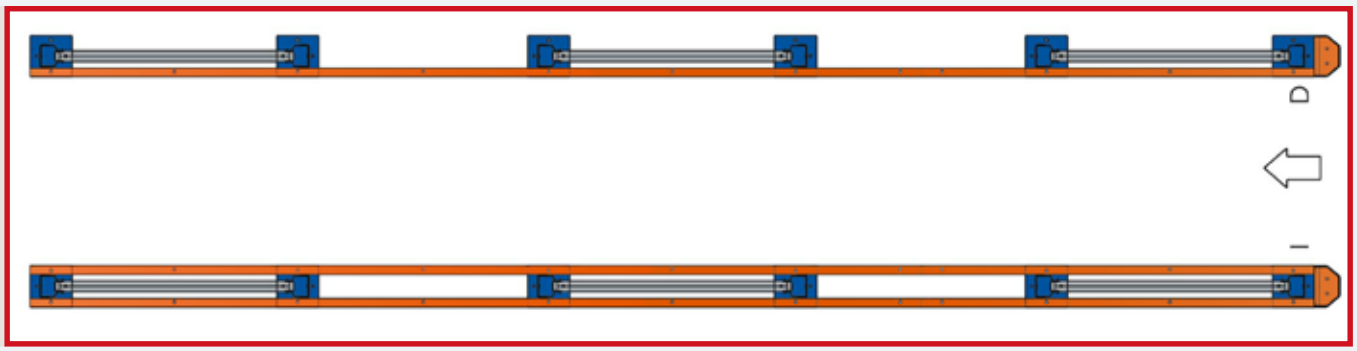
# FLOOR GUIDE RAILS



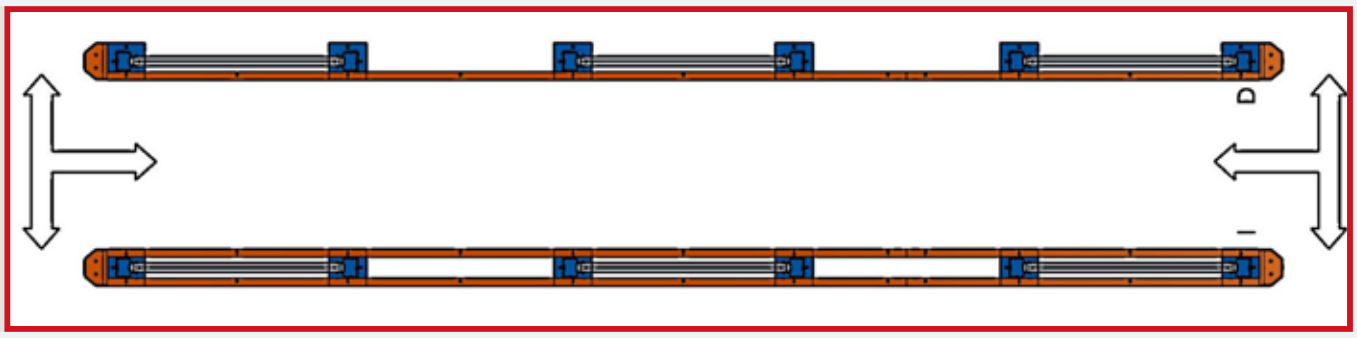
They are a forklift guidance system that allows:

- Achieve high productivity levels.
- Reduce potential damage to shelves, products, or equipment.
- Increase safety and operator efficiency, concentrating their attention on the cargo handling.
- Work in lanes with more than six meters depth and height.

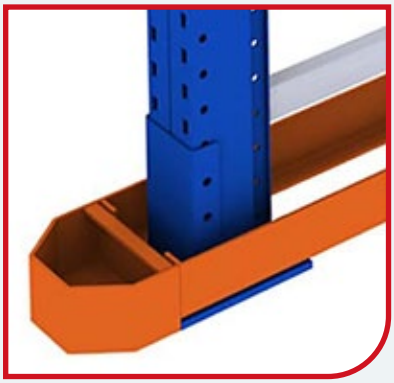
## DRIVE IN - ENTRANCE AT ONE END OF THE INSTALLATION



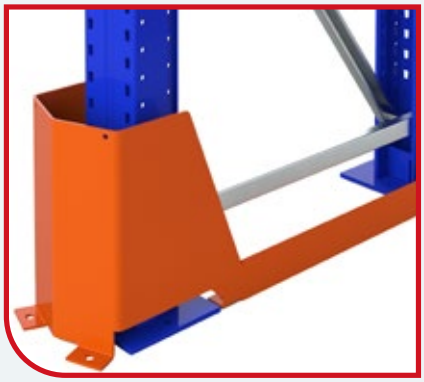
## DRIVE THROUGH - ENTRANCE AT BOTH ENDS OF THE INSTALLATION



Drive Head Option



PPN Option

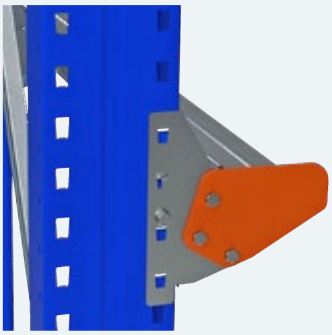


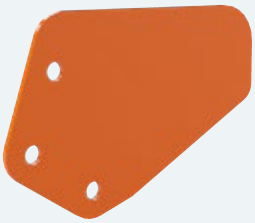
# ACCESSORIES

In the warehouse there is a high risk of accidental damages due to impacts on the structure, most caused by forklifts. It is important to protect the bottom of posts and frames.



## UPRIGHT PROTECTOR





## LOAD LEVEL PALLET STOPPER

This element prevents the pallets from falling at the end of the aisle in a single entry type of drive-in.
It is considered a warning element, trying as much as possible to avoid the collision of the pallets with the stopper.

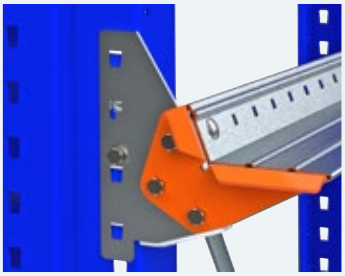




## FLOOR LEVEL PALLET STOPPER

This element works as an aisle end reference for the floor level in a single entry type of drive-in. It also serves as protection in case of vertical bracing in the aisle.

It is considered a warning element, trying as much as possible to avoid the collision of the pallets with the stopper.





## PALLET ENTRY GUIDE

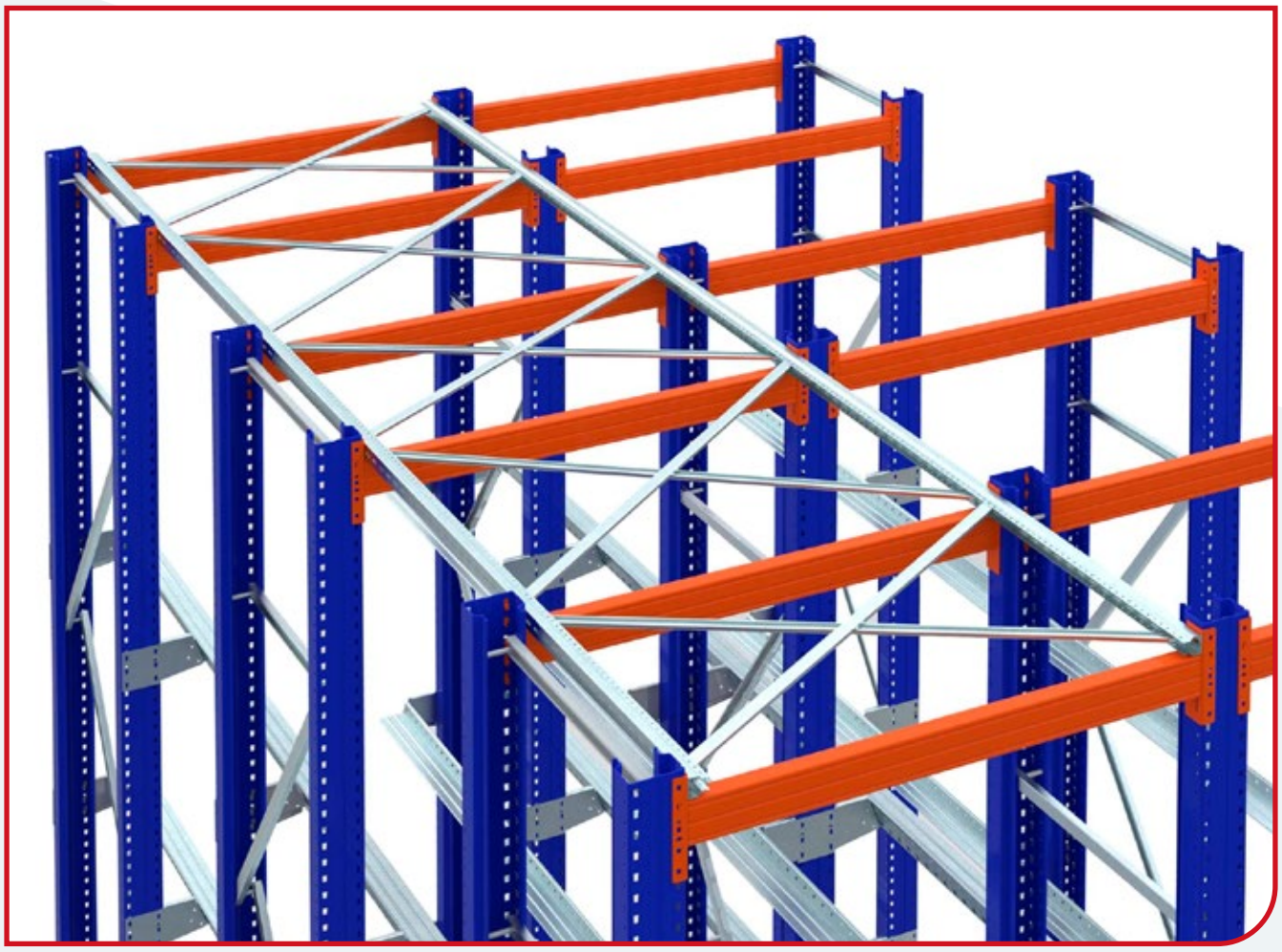
This element makes easier the pallet entry and guidance on the aisle, avoiding falls or damage to the goods.



## FRAME-UPRIGHT SPACER

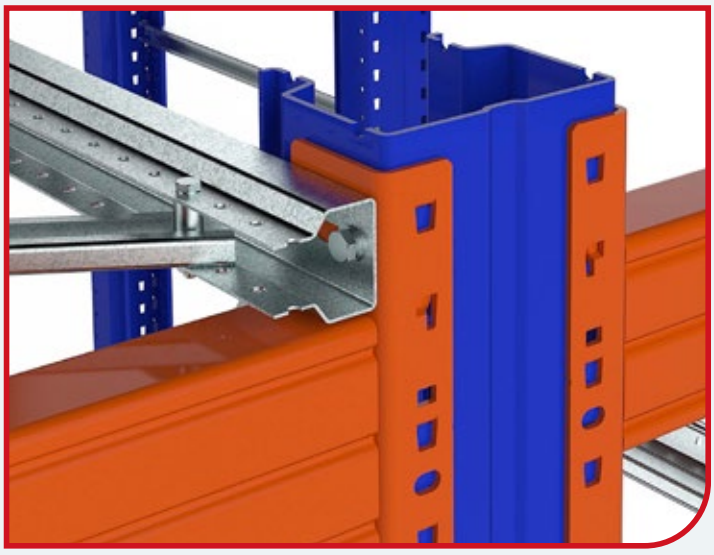
In some configurations it is necessary to fix an auxiliary upright together with the frames by this frame-upright spacer.

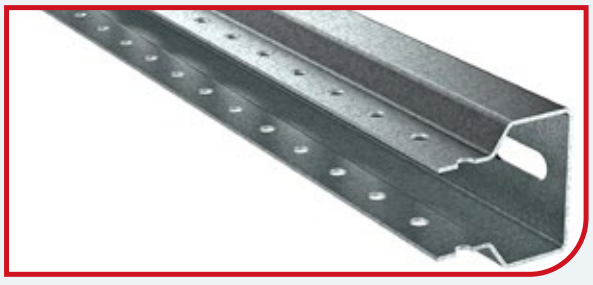
# TOP HORIZONTAL BRACING



The top horizontal bracing at the Drive-in system is located on top of the installation above the beams.

The top horizontal bracing will be placed along the lane of the braced bay with 2 bracing profiles and a cross bracing configuration with CZ profiles.





Top horizontal bracing profile

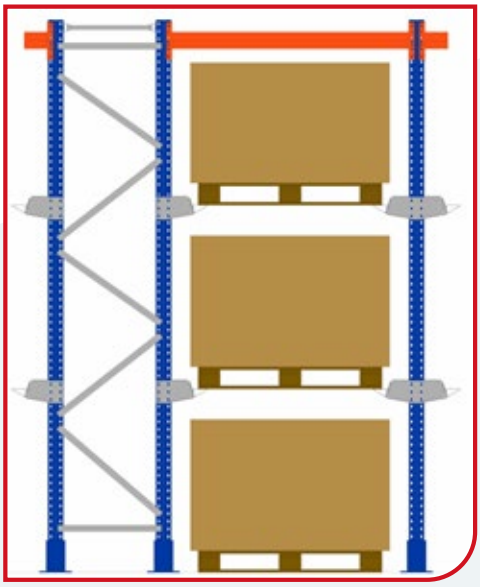


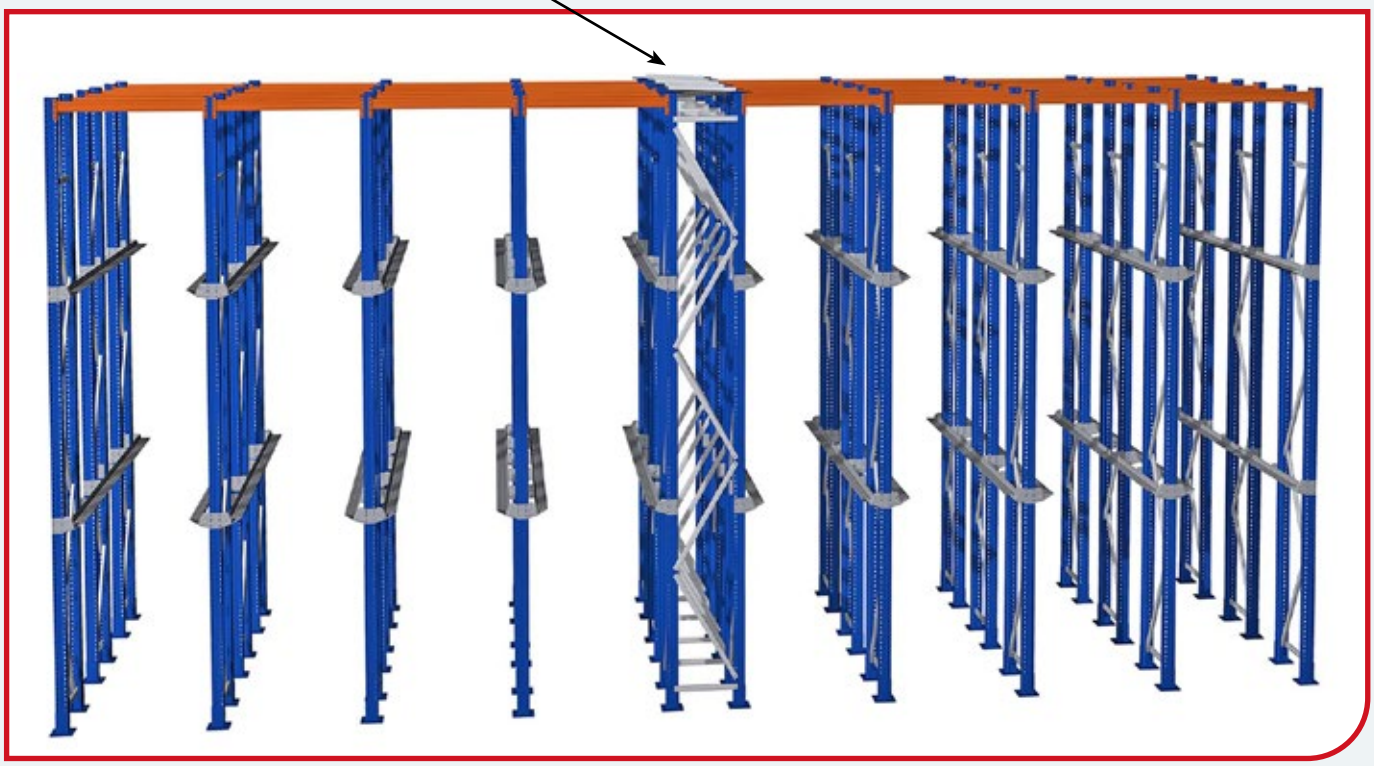
CZ profile

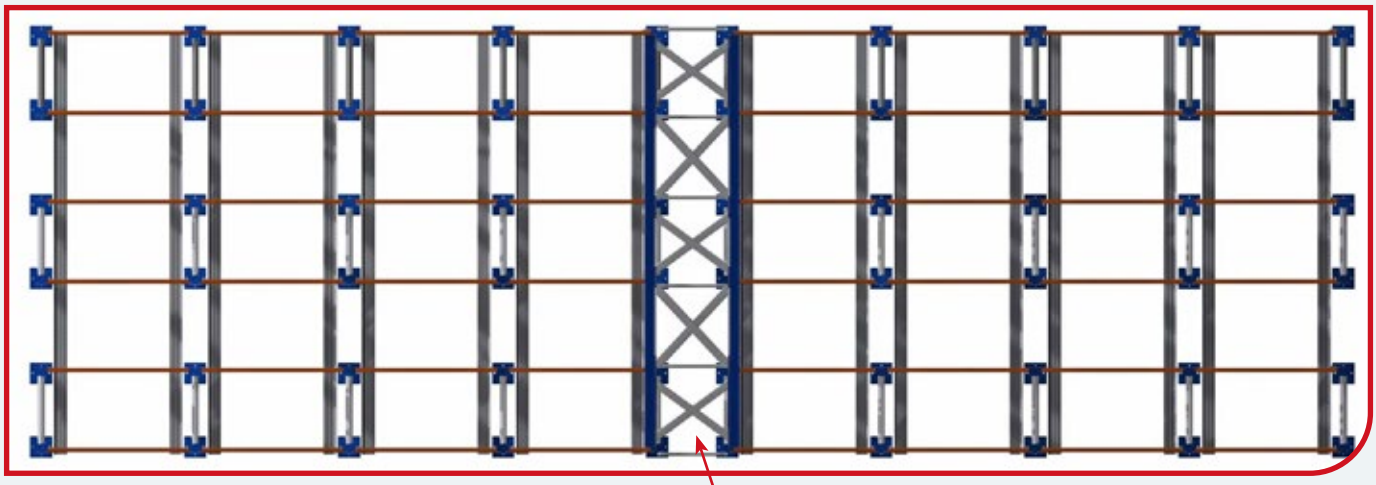
# RIGIDITY TOWER

Disposición cruzada de tirantes que se sitúa a lo largo
It is a cross bracing layout located along an entire aisle
over its entire length. Same as vertical bracing serves
to increase the rigidity and stability of the installation.

Top horizontal bracing will always be placed on the
upper horizontal rigidity aisle.





Esnova

*The strength of simplicity*

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

PLEASE ASK FOR OUR **CATALOGUES** OR DOWNLOAD THEM FROM OUR WEBSITE

www.esnova.com

# ESNOVA SOFTWARE

## WAREHOUSE MANAGEMENT SOFTWARE

### HOW TO ORGANIZE A **WAREHOUSE**?

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

## TECHNICAL INSPECTION OF RACKS

Keep your installations in perfect condition for use and within the current safety regulations.

**Esnova Racks develops its technical inspection program with the guarantee of being a manufacturer of storage systems.**

INSPECCIÓN TÉCNICA DE SISTEMAS DE ALMACENAJE

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ASOCIADO

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